Lucent Technologies
Bell Labs Innovations

# 4ESS™/APS Switch

## Input Messages

## Volume 1

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# 4ESS™/APS INPUT MESSAGES

## TABLE OF CONTENTS

**Section** **Page**

**1. INTRODUCTION**

1.1 Purpose 1-1
1.2 Lucent Technologies 1-1
1.3 Organization 1-2
1.4 Input Message Functions 1-2
1.5 Documentation Management 1-3
1.6 Error Reporting Procedures 1-3

**2. USER GUIDELINES**

2.1 Introduction 2-1
2.2 Input Message Structure 2-1
2.2.1 Message Fields 2-1
2.2.2 Keywords and Arguments 2-2
2.2.3 Positionally Defined Data Fields 2-2
2.2.4 Flexible Input Message Formats 2-3
2.2.5 3B20D File System and Pathnames 2-5
2.2.6 Input Rules 2-10
2.3 Input Message Format 2-10
2.3.1 Format Notation 2-10
2.3.2 Format Examples 2-11
2.4 Organization and Content 2-16
2.4.1 Key Block Data 2-16
2.4.2 Descriptive Material 2-17
2.5 Use of the Craft Shell and Input Message Help Facility 2-26
2.5.1 Input Message (IM) Catalog Database 2-26
2.5.2 Capability Mode 2-26
2.5.3 Help Facility 2-27
2.5.4 Levels of Help 2-27
2.5.5 Scope of Help 2-28
2.5.6 Help Summary 2-28
2.5.7 Examples of Help 2-29
2.5.8 Acronyms and Mnemonics 2-36

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. INDEXES

3.1 Introduction 3-1
3.2 Volume 1 Alphabetical Index 3-1
3.3 Volume 2 Alphabetical Index 3-11
3.4 Functional Index 3-23

## 4. MESSAGE DESCRIPTIONS

# SECTION 1

# INTRODUCTION

## TABLE OF CONTENTS

| Section | Page |
|---|---|
| 1.1 Purpose | 1-1 |
| 1.2 Lucent Technologies | 1-1 |
| 1.3 Organization | 1-2 |
| 1.4 Input Message Functions | 1-2 |
| 1.5 Documentation Management | 1-3 |
| 1.6 Error Reporting Procedures | 1-3 |

SEE PROPRIETARY NOTICE ON COVER PAGE

SEE PROPRIETARY NOTICE ON COVER PAGE

# SECTION 1

# INTRODUCTION

## 1.1 PURPOSE

The 4ESS™/APS Input Message Document describes the messages that are printed through the Attached Processor System (APS) output channels when the APS is used with the 4ESS™ Switch. It is designed, together with the 4ESS™/APS Output Message Document (OM-4A001-01), as a reference for work center personnel and support groups whose applications communicate with the APS.

The APS consists of two Attached Processor Interfaces (APIs) and a 3B20D computer. The APIs provide a communication path between the 1B processor and the 3B computer. The 3B computer is maintained by its UNIX® RTR Operating System.

The messages in Issue 9.4.1 of this document represent complete documentation for the generic releases 4AP12 and later.

## 1.2 LUCENT TECHNOLOGIES

As a result of the AT&T divestiture, the AT&T Network Systems division becomes Lucent Technologies, a separate and independent corporation. The 4ESS™/APS switch, and many other network and transmission products become products of Lucent Technologies. The marketing, sales, engineering, delivery, installation, support, and future development of these products will be provided by Lucent Technologies.

Therefore, the corporate name and logo on this document are being changed from the AT&T brand to the new Lucent Technologies brand. The AT&T name is being removed from the cover, spine, title page, content (where appropriate) as well as the 9-digit document order number.

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### 1.3 ORGANIZATION

The 4ESS™/APS Input Message document is organized in the four sections summarized as follows.

- The **INTRODUCTION** section explains the purpose of the document and the organization of material presented. It also contains a brief overview of input message functions and discusses the documentation management system used in producing this document.
- The **USER GUIDELINES** section contains instructional information to guide the user in interpreting message formats and descriptions. It deals with the structure of input messages, the string formatused to present them, and the organization and content of the message descriptions.
- The **INDEXES** section has two indexes: one is an alphabetical list of the messages in the document; the second gives a summary of the purpose of each message and is sorted by function.
- The **MESSAGE DESCRIPTIONS** section contains the message documentation, presented in alphabetical order by message name. Individual descriptions are grouped by the action verb of the message name.

### 1.4 INPUT MESSAGE FUNCTIONS

The 4ESS™/APS input messages documented here are concerned with the control, maintenance, and administration of the APS, including the Attached Processor Interface (API), 3B20D computer, peripheral devices, and UNIX® RTR software. In particular, they provide for variable data inputs for functions that require a series of actions to be taken or reported on, often with many variables or options. Examples of functions that can be requested by input messages are:

- Executing diagnostic and exercise programs and reporting the results.
- Testing and reporting results.
- Reporting the status of various subsystems.
- Entering translation information into memory.
- Removing units from service or restoring units to service.

Because there are many variables or options inherent in these functions, the input messages can be complex, with several valid forms or executable paths. The user should be thoroughly familiar with the rules of structure and format discussed in the **USER GUIDELINES** section.

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### 1.5 DOCUMENTATION MANAGEMENT

This document and its related output message document represent the first phase of a computer-aided system for managing the documentation of input and output messages. The system consists of a database containing the message documentation, and software to help maintain and update the information in the database. Three categories of key data (see the **USER GUIDELINES** section) are used to link each message to the processing software for selective retrieval.

Several interrelated goals have been established for the documentation management system:

- Increase the accuracy of user documentation.
- Speed the availability of updates.
- Improve the readability of the message-format presentation.
- Simplify output of complete or selected message documents (e.g., by application or generic).

Initially, the message database will be accessed only by documentation specialists responsible for the output, correction, and update of the message documentation. A later goal is to provide direct user access to the database for retrieving selected message parts or fully formatted printouts of completed message text.

### 1.6 ERROR REPORTING PROCEDURES

User reporting of documentation errors is an important element in the effectiveness of the documentation management system. Users are encouraged to report any errors encountered, and to suggest changes or additions that would make the documentation more usable or more complete.

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# SECTION 2

# USER GUIDELINES


| | Section | Page |
|---|---|---|
| 2.1 | Introduction | 2-1 |
| 2.2 | Input Message Structure | 2-1 |
| | 2.2.1 Message Fields | 2-1 |
| | 2.2.2 Keywords and Arguments | 2-2 |
| | 2.2.3 Positionally Defined Data Fields | 2-2 |
| | 2.2.4 Flexible Input Message Formats | 2-3 |
| | 2.2.5 3B20D File System and Pathnames | 2-5 |
| | 2.2.6 Input Rules | 2-09 |
| 2.3 | Input Message Format | 2-09 |
| | 2.3.1 Format Notation | 2-09 |
| | 2.3.2 Format Examples | 2-10 |
| 2.4 | Organization and Content | 2-15 |
| | 2.4.1 Key Block Data | 2-15 |
| | 2.4.2 Descriptive Material | 2-16 |
| 2.5 | Use of the Craft Shell and Input Message Help Facility | 2-25 |
| | 2.5.1 Input Message (IM) Catalog Database | 2-25 |
| | 2.5.2 Capability Mode | 2-25 |
| | 2.5.3 Help Facility | 2-26 |
| | 2.5.4 Levels of Help | 2-26 |
| | 2.5.5 Scope of Help | 2-27 |
| | 2.5.6 Help Summary | 2-27 |
| | 2.5.7 Examples of Help | 2-28 |
| | 2.5.8 Acronyms and Mnemonics | 2-35 |


SEE PROPRIETARY NOTICE ON COVER PAGE

SEE PROPRIETARY NOTICE ON COVER PAGE

Issue 9.4.1
July 2002

# SECTION 2

# USER GUIDELINES

## 2.1 INTRODUCTION

For the user of 4ESS™ / APS input messages, certain rules of structure and format are important to remember. In this document, message structure refers to the way messages are designed to meet the requirements of the processing software; message format refers to the way messages are presented for documentation purposes. These rules, together with the organization and content of the message descriptions, are discussed in this section.

## 2.2 INPUT MESSAGE STRUCTURE

The messages input to the 4ESS™ / APS switch follow a prescribed structure. This structure is summarized here and in Table 2-1.

### 2.2.1 Message Fields

Messages consist of either two or three *fields*, separated by colons, and terminated by an exclamation point as shown.

**Action Field (verb): Identification Field: Data Field!**

The action and identification fields are required for all messages. The use of the data field is dependent on the structure of each message.

The identification field may be divided into two or three subfields, separated by semicolons.

Figure 2-1 shows examples of valid message structures.

| | |
|---|---|
| **STOP:GEN!** | 2 fields, no subfields |
| **OP:GEN;READLOG!** | 2 fields, 2 subfields |
| **UPD:GEN;PROCEED;UCL!** | 2 fields, 3 subfields |
| **OP:STATUS:FILESYS!** | 3 fields, no subfields |
| **UPD:UPNM** a;**FN** "b":**UF** "c"! | 3 fields, 2 subfields |

**Figure 2-1. Valid Message Structures**

The action field is a keyword that identifies a function. It is a verb, such as **COPY**, **LOAD**, or **STOP**; or a verb abbreviation, such as **ALW** (allow), **DGN** (diagnose), or **INH** (inhibit). The identification field (or subfields) and the data field consist of one or more keyword units, separated by commas.

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### 2.2.2 Keywords and Arguments

A *keyword*, shown in uppercase, constant width boldface type in the message documentation, is a mnemonic identifier of a unit, function, or condition. It is constant information, and is input exactly as given.

A *keyword unit* consists of a keyword with or without one or more variables which are called *arguments*. Arguments, shown in lowercase constant width print, represent *variable* information to be supplied by the user. Certain arguments are shown in boldface type. They are to be entered exactly as shown. Figure 2-2 shows examples of keyword units in messages.

**DGN:CU** `a,` **MASC** `b!` is a message with two keyword units in the identification field.

**CLR:IODRV;LVL** `a` **ID** `b!` is a message with one keyword unit in the first identification subfield and two keyword units in the second identification subfield.

**OP:STATUS:SUM, FN** `"a"` **!** is a message with one keyword unit in the identification field, and two keyword units in the data field.

**Figure 2-2. Keyword Units**

A keyword unit may have a single argument, a list, or a range of arguments. Arguments in a list are separated by commas and enclosed in parentheses. There may be up to 15 arguments in a list. The two arguments showing a range are separated by a hyphen. Figure 2-3 shows examples of keyword arguments.

**DGN:DFC** `1`**:PH** `6!`
Specifies phase number 6.

**ALW:AUD:FMGR** `(2,4,6)!`
Specifies audit member numbers 2, 4, and 6.

**DGN:DFC** `1`**:PH** `2-6!`
Specifies phase numbers 2, 3, 4, 5, and 6.

**Figure 2-3. Keyword Arguments**

### 2.2.3 Positionally Defined Data Fields

In a small number of specific commands, the parameters of the data field are represented as a sequence of arguments, without keywords, separated by commas. In those cases the meaning of each argument is determined by its position in the sequence.

#### 2.2.4 Flexible Input Message Formats

The Craft Shell will accept input message formats that are easier to use and remember. This feature allows input messages to be entered with commas as field separators instead of colons and semicolons after the verb and first colon. More specifically, all options may be included in a single, comma-separated parameter block. A few commands that have positionally defined data fields are exceptions to this; the colon before the positionally defined data field must still be a colon.

The rules for entering input messages may be summarized as follows:

Keyword-defined parameters are unordered within a field or sub-field, but the fields and subfields themselves must remain ordered.

If field(subfield) A precedes field(subfield) B in the input message definition, then no parameter from field(subfield) B may be typed before a parameter from field(subfield) A.

Field and subfield separators (: and ;) may be typed as commas (,) except for the colon following the verb and the colon before a positionally defined data field.

For example, the following input message will allow several other input message formats:

```
DGN:IOP 1; RPT 1, RAW, UCL: CONT, TLP!
```

The following are valid flexible input message formats for the DGN input message mentioned in the preceding paragraph.

| | |
|---|---|
| `DGN:IOP 1, RPT 1, RAW, UCL: CONT,TLP!` | *semicolon has been changed to a comma* |
| `DGN:IOP 1, RAW, UCL, RPT 1: CONT, TLP!` | *the order of keywords in the second identification subfield has been rearranged* |
| `DGN:IOP 1, RAW, UCL, RPT 1: TLP, CONT!` | *the order of keywords in the data field has been rearranged* |
| `DGN:IOP 1, RAW, UCL, RPT 1, TLP, CONT!` | *last colon has been changed to a comma* |

The following are invalid input message formats:

| | |
|---|---|
| `DGN,IOP 1, RAW, UCL, RPT 1, CONT, TLP!` | *first colon has been changed to a comma* |
| `DGN:IOP 1, CONT, TLP, RAW, UCL, RPT 1!` | *the order of the identification and data fields has been reversed* |
| `DGN:IOP 1, RAW, UCL, CONT, TLP, RPT 1!` | *the parameters of the identification and data fields are intermixed* |

For messages that are in the IM catalog (see Section 2.5), the Craft Shell will translate a flexibly formatted message into its canonical form (the form that is defined in the IM catalog for each input message) before invoking the client process. All parameters will be rearranged in the same sequence as the client process expects them. Therefore, the message received by a client process might look different from the one which was entered at the terminal.

When the client process is created, it will echo the canonical form of the input message to an output device. Therefore, the message echoed by a client process might look different from the one which was entered at the terminal.

For example, the following canonical format:

```
DGN:IOP 1; RPT 1, RAW, UCL: CONT, TLP!
```

will be echoed to an output device for all of the following flexible input message formats:

```
DGN:IOP 1, RPT 1, RAW, UCL, CONT, TLP!

DGN:IOP 1, RPT 1, UCL, RAW, CONT, TLP!

DGN:IOP 1, UCL, RAW, RPT 1, CONT, TLP!

DGN:IOP 1, UCL, RAW, RPT 1, TLP, CONT!
```

Input messages constructed by the Help facility (Section 2.5) will always be in canonical format.

#### 2.2.5 File Systems and Pathnames

The APS file system is a set of directories, ordinary files, and special device files. These are defined as follows:

- A **directory** is a collection of files and other directories. It contains the names of those files and directories.
- An **ordinary file** is a collection of data in any format whatever. It may consist of ASCII characters, divided into lines demarcated by the new-line character, or it may consist of binary code that will be copied into main memory when a program is executed.
- A **special device file** supports input/output activity on a physical device, such as a terminal, magnetic tape, or disk partition. A request to read or write a special device file results in activation of the associated device. However, there is not necessarily a one-to-one correspondence between physical devices in the system and special device files. A single device may have more than one special device file. For example, four different special device files are used to read the same magnetic tape with high or low density and with or without rewind. Most special device files are located in a directory named `/dev`.

The set of directories and files that comprise a file system is organized into a hierarchical treelike structure. In this example the `database`, `dev`, `etc`, `lib`, `tmp`, and `cft` directories all descend from the "root" directory. The `database` directory contains a number of ordinary files, including the `ecd` and `appecd` databases. The `dev` directory contains a number of special device files. The `cft` directory contains various subdirectories, which in turn contain ordinary files and additional subdirectories.

In the 3B20D computer system, the `database`, `etc`, and `tmp` directories are themselves the "root" directories of separate file systems which are **mounted** on the `root` file system during a system bootstrap. These four file systems (`root`, `db`, `etc`, and `tmp`) constitute the minimum set of file systems that are required for the 3B20D computer system to function. Backup copies of these file systems may also be provided, in case one of the primary file systems becomes damaged in a way that would prevent the system from operating successfully. If the system is bootstrapped on the backup file systems, however, the names of the directories where they are mounted remains the same. Other file systems may also be mounted automatically during a bootstrap, or they may be mounted manually by using the `ALW:FILESYS:MOUNT` command.

Every file and directory in the system is identified by a unique pathname which indicates its location in the hierarchical file system structure. Many 3B20D computer input messages require the specification of a pathname. There are two types of pathnames that may be specified:

- **Full pathnames** begin with a slash (/), which is the name of the "root" directory of the *root* file system. This is followed by the name of the directory that is immediately beneath the "root" directory, followed by another slash, then the next directory name, and so forth, until the name of the specified file or directory is reached.
- **Relative pathnames** begin with the name of a directory or file at an arbitrary point in the hierarchy, with no preceding slash. Their specification is relative to the immediately preceding directory, which is sometimes referred to as the base directory.

Because they contain lower-case alphabetic characters and slashes, pathnames must always be surrounded by quotation marks (") when entered in an input message.

The following examples illustrate the kinds of pathnames that can be specified on various input messages:

| Pathname | Meaning |
|---|---|
| `/` | Full pathname of the "root" directory of the `root` file system. |
| `/database` | Full pathname of the `database` directory which is located directly under `/`. |
| `/cft/shl/cmds` | Full pathname of the `cmds` directory, which is located under the `shl` directory, which is located under the `cft` directory, which is located directly under `/`. |
| `/cft/shl/cmds/INH/AUD` | Full pathname of the `AUD` program which is executed by the `INH:AUD` command. |
| `INH/AUD` | Relative pathname of the same `AUD` program, relative to the `/cft/shl/cmds` base directory. |
| `OP/AUD` | Relative pathname of the `AUD` program which is executed by the `OP:AUD` command, relative to the `/cft/shl/cmds` base directory. |
| `/dev/root` | Full pathname of the special device file for the disk partition that contains the `root` file system (mounted as `/`). |
| `/dev/broot` | Full pathname of the special device file for the disk partition that contains the backup copy of the `root` file system (also mounted as `/`). |
| `/dev/db` | Full pathname of the special device file for the disk partition that contains the `db` file system (mounted as `/database`). |
| `/dev/bdb` | Full pathname of the special device file for the disk partition that contains the backup copy of the `db` file system (also mounted as `/database`). |

| Pathname | Meaning |
|---|---|
| `/dev/mt00` | Full pathname of the high density magnetic tape device that is attached to IOP number 0 and rewinds a tape after reading from it or writing to it. |
| `/dev/mt04` | Full pathname of the high density magnetic tape device that is attached to IOP number 0 and does not rewind a tape after reading from it or writing to it. |
| `/dev/mt08` | Full pathname of the low density magnetic tape device that is attached to IOP number 0 and rewinds a tape after reading from it or writing to it. |
| `/dev/mt0c` | Full pathname of the low density magnetic tape device that is attached to IOP number 0 and does not rewind a tape after reading from it or writing to it. |
| `/dev/mt10` | Full pathname of the high density magnetic tape device that is attached to IOP number 1 and rewinds a tape after reading from it or writing to it. |
| `/dev/mt14` | Full pathname of the high density magnetic tape device that is attached to IOP number 1 and does not rewind a tape after reading from it or writing to it. |
| `/dev/mt18` | Full pathname of the low density magnetic tape device that is attached to IOP number 1 and rewinds a tape after reading from it or writing to it. |
| `/dev/mt1c` | Full pathname of the low density magnetic tape device that is attached to IOP number 1 and does not rewind a tape after reading from it or writing to it. |

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#### 2.2.6 Input Rules

To input messages, the following rules must be observed.

- A message may consist of up to 255 characters, and may extend over several lines. This limit includes spaces as well as characters.
- The final character of a message is either **!** or **/** as shown in the message description, or a **?** to request help (see Section 2.5). The 255-character limit includes this character.
- One or more spaces may be used to separate an argument from its keyword. The exception is a list of arguments within parentheses; the left parenthesis serves as a separator, and no space is required.
- Except within a keyword, spaces are usually optional anywhere else in the message. Any message that does not permit spaces between arguments is so documented.
- Numeric arguments are assumed to be in decimal notation unless preceded by a number base indicator: `D'` for decimal, `O'` for octal, `B'` for binary, or `X'` for hexadecimal.
- Character string arguments that contain special characters and lower-case alphabetic characters must be enclosed in quotation marks (").
- The backspace key may be used to correct typing errors in any part of an input message that is not enclosed in quotation marks. If an error is made inside quotation marks, the message must be aborted and retyped.
- The break and delete keys are used to abort input messages.

### 2.3 INPUT MESSAGE FORMAT

Most messages can be input in more than one form. For example, one form of the `RST:MHD` message is used to unconditionally restore the moving head disk, while another is used to execute the Trouble Locating Procedure at the conclusion of the diagnostic testing. A message format devised for documentation purposes shows the choices available. It is described here and summarized in Table 2-1.

#### 2.3.1 Format Notation

The message formats shown in this document include, where necessary, three types of notation that are not part of the message itself. The purpose of this notation is to

show the choices the user has in constructing the message. The notation is for documentation purposes only; it is not input.

**[ ]** Brackets enclose optional entries (i.e., entries that may be included in the message or omitted).

**{ }** Braces enclose two or more entries where one, and only one, must be included in the message.

**|** OR bars separate entries within braces and brackets.

The use of brackets, braces, and OR bars is shown in Figure 2-5.

**[ENTRY** a**][ENTRY** b**]** — ENTRY a may be included in the message or omitted. ENTRY b may be included in the message or omitted.

**{ENTRY** a | **ENTRY** b**}** — Either ENTRY a or ENTRY b, but not both, must be included in the message.

**[ENTRY** a | **ENTRY** b**]** — Neither entry, or just one entry, may be included in the message.

**Figure 2-5. Notation Used in Format Documentation**

Note that the OR bars in the second and third examples must not be entered; they indicate the format options available to the user.

The format notation used throughout this document was devised to simplify the message presentation and to meet the requirements of a computerized database.

### 2.3.2 Format Examples

Figures 2-6 through 2-10 show the difference between the message as it is documented and the message as it is input.

Message format: **ALW:SCSD** {(a,b) | (c,d,e)}!

Valid forms:
```
ALW:SCSD (a,b)!
ALW:SCSD (c,d,e)!
```

**Figure 2-6. Entries Within Braces**

Message format: **ALW:REX:{CU** [a] | **DFC** [b] | **IOP** [c] | **ALL}!**

Valid forms:

```
ALW:REX:CU!
ALW:REX:CU a!
ALW:REX:DFC!
ALW:REX:DFC b!
ALW:REX:IOP!
ALW:REX:IOP c!
ALW:REX:ALL!
```

**Figure 2-7. Braced Entries With and Without a Bracketed Entry**

Message format: **IN:REMOTE:START** [**,BSDIR** "a"] [**,BLOCKS** b] [**,VLEV** c]**!**

Valid forms:

```
IN:REMOTE:START!
IN:REMOTE:START,BSDIR "a"!
IN:REMOTE:START,BLOCKS b!
IN:REMOTE:START,VLEV c!
IN:REMOTE:START,BSDIR "a",BLOCKS b!
IN:REMOTE:START,BSDIR "a",VLEV c!
IN:REMOTE:START,BLOCKS b,VLEV c!
IN:REMOTE:START,BSDIR "a",BLOCKS b,VLEV c!
```

**Figure 2-8. Entries Within Brackets**

Message format: **OP:STATUS:PROCESS,{ALLTERMS|ALLKERNS|ALL | PATH}[,OPL** a]**!**

Valid forms:

```
OP:STATUS:PROCESS,ALLTERMS!
OP:STATUS:PROCESS,ALLTERMS,OPL a!
OP:STATUS:PROCESS,ALLKERNS!
OP:STATUS:PROCESS,ALLKERNS,OPL a!
OP:STATUS:PROCESS,ALL!
OP:STATUS:PROCESS,ALL,OPL a!
OP:STATUS:PROCESS,PATH!
OP:STATUS:PROCESS,PATH,OPL a!
```

**Figure 2-9. Braced and Bracketed Entries**

Message format:
**RST:TTYC** a[ [**;UCL**] [**:CONT**] | [**;RAW**] [ **:{TLP** | **CONT** | **TLP,CONT}** ] ]**!**

Valid forms:

```
RST:TTYC a!
RST:TTYC a;UCL!
RST:TTYC a;UCL:CONT!
RST:TTYC a;RAW!
RST:TTYC a:TLP!
RST:TTYC a:CONT!
RST:TTYC a:TLP,CONT!
RST:TTYC a;RAW:TLP!
RST:TTYC a;RAW:CONT!
RST:TTYC a;RAW:TLP,CONT!
```

**Figure 2-10. Bracketed Entries Within Brackets**

**Table 2-1**
**Summary of Message Structure and Format**

| Term or Item | Definition |
|---|---|
| Field | Basic structural unit of message. No more than three fields, variable length, separated by colons. Action field required first. Identification field required second; contains keyword unit(s). Data field optional; contains keyword unit(s) or positional argument(s). |
| Subfield | Optional breakdown of identification field. No more than three subfields; separated by semicolons; contains keyword unit(s). |
| Keyword | Mnemonic identifier of a unit, function, or condition. Input as given. May have argument(s) associated with it. |
| Argument | Represents variable information to be supplied by user. Can be input as a single entry, as a list of entries in the form (`a,b,c...`), or as a range in the form x-y. |
| Number Base | A letter and single quote preceding a numeric argument that indicates to the system how the number is to be interpreted: `D'` (or nothing) for decimal. `O'` for octal, `B'` for binary, and `X'` for hexadecimal. |
| Keyword unit | Keyword and its associated argument(s), if any. Two or more keyword units are separated by commas. |
| Message length | Up to 255 characters, including spaces. |
| Uppercase Entry | Keyword (constant). Input as given. Shown in boldface constant width. |
| Lowercase Entry | Constant (boldface constant width). Input as given. |
| | Variable (argument). Replace with user-supplied information. |
| Space | Optional throughout message, except required between keyword and its argument, and not permitted within keyword. |
| **[ ]** Brackets | Enclose option entries. Not input. |

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**Table 2-1**
**Summary of Message Structure and Format (cont'd)**

| Term or Item | Definition |
|---|---|
| **{}** Braces | Enclose two or more entries for which the user must input one. Not input. |
| **\|** OR bar | Separate entries within braces or brackets. Not input. |
| **?** Question Mark | `HELP` request character. Entered at the end of a partial input message or following an error acknowledgment to request general guidance information about the message. Entered a second time to request the system to begin prompting for individual keywords and arguments of an input message. |
| **/** Slash | Message continuation character. Entered at the end of a partial PDS input message to indicate that another line will be entered as part of the same input message. |
| **!** Exclamation Mark | Message execution character. Entered at the end of a PDS input message to cause the command to be executed as an immediate action. |
| **"** Quotation Mark | Used to enclose a pathname or character string argument with lower case or special characters; shown in boldface. Input as given. |
| All other punctuation | Part of Message. Input as given. |

## 2.4 ORGANIZATION AND CONTENT

Each message description begins with a block of key data (key block) identifying the message followed by descriptive material explaining the message format and its specific use.

### 2.4.1 Key Block Data

The entries in the key block are used as index keys to access the computerized message database developed for this documentation.

Five index keys are given for each input message:

- **ID** - This is a unique identifier used to access the database. It may or may not be the same as the message name. The message name and ID will be different if the message name, including punctuation, exceeds 12 characters, or several messages share the same message name, or versions of the messages are limited to particular releases.

  The message name, not the ID, appears as part of the message. It also appears at the upper right corner of each message page. The ID is used for accessing message documentation from the database, and is also used as a page-number prefix.

- **WORK CENTER** - Specifies the work center at which the message is entered or output. At present, all 4ESS™/APS messages are entered or output at the Maintenance Operations Center (MOC).

- **GENERIC** - Gives the earliest active generic to which this version of the message applies. Generics 4AP12, 4AP13, 4AP14, 4AP15, 4AP16, 4AP17, and 4AP18 are considered active. The generic key block entry may also indicate the generics to which the message does not apply. For example:

4AP12 only — The message applies to generic 4AP12, but is not applicable to 4AP13.

- **APPLICATION** - Distinguishes the usage of the message. The classifications are:

  4E — The message applies to nonprocessor programs of the APS.

  4E,3B — The message applies to the 3B computer of the APS.

  4E,3B-APS — The message applies to the attached processor interface (API) of the APS.

  4E,CNI — The message applies to the common network interface (CNI) of the APS.

  4E,IMS — The message applies to the interprocess message switch (IMS) of the APS.

- **TYPE** - Specifies that this is an input message.

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**2.4.2 Descriptive Material**

In general, the descriptive material following the key block data is presented under five discrete headings.

1. Purpose - Gives a complete statement of the message purpose. Where appropriate, gives WARNING of consequences of misuse of the message.
2. Format - Presents the message format. See Table 2-1 for a summary of rules.
3. Explanation of Message - Defines the variables used in the message. It may also define keywords. It includes any additional notes or tables needed to clarify message use.
4. System Response - Explains the system response to each input message. This section of the message documentation describes responses that are not self-explanatory. Responses based on the system acknowledgments are shown in Table 2-2. Error acknowledgments produced by the 3B20D Computer Craft Shell are listed in Table 2-3. Error acknowledgments produced by the COAMS interface are listed in Tables 2-4 and 2-5. These handle NSC messages.
5. References - Gives references to other input and/or output messages, control/display pages, Practices, and other related documents.

**Table 2-2**
**Input Message Acknowledgments**

| Acknowledgment | Meaning |
|---|---|
| ?A | Action field contains an error. May be that the verb was incorrectly typed or that a field delimiter was omitted. |
| ?D | Data field contains an error. May be that an item was incorrectly typed or improper data was entered, or that a keyword or execute symbol was omitted. |
| ?E | Error exists in the message but cannot be resolved to the proper field. |
| ?I | Identification field contains an error. The message should be checked in the input manual. May be that an item was incorrectly typed, that an out-of-range number was used, or that a required keyword was omitted. |
| ?T | Time-out has occurred on the channel. Input has not been received within the allotted time, and processing of the message has been aborted. |
| IP | In Progress. Request received and initiated. Further output will follow. |
| OK | Good. The message was received, the appropriate process was initiated, and work was completed. |
| NA | No Acknowledgment. Normally, the system acknowledges an input request within 5 to 10 seconds. If control of the message processing has been lost, NA is output to indicate an acknowledgment failure. |
| NG | No Good. The message was received, the appropriate process was initiated, but the request conflicts with the current system or equipment status; for example, action was requested for a unit that is being diagnosed. |

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**Table 2-2**
**Input Message Acknowledgments**
**(cont'd)**

| Acknowledgment | Meaning |
|---|---|
| PF | Printout Follows. The request was received and will be acted upon. A printout will follow sometime later to explain in detail the results of the work initiated by the input message. This printout will be a termination report that may include the result of the work initiated by the input message. |
| RL | Retry Later or Repeat. Request cannot be executed now due to unavailable system resources; such as system overload, excessive queue lengths, or the requested process is busy. |

**Table 2-3**
**Error Acknowledgments Produced by the UNIX® RTR Craft Shell (4AP12 and later)**

| Acknowledgment | Meaning |
|---|---|
| `?A ACTION FIELD ERROR` | An action-verb syntax error. Usually occurs as the result of an inaccurate action-verb specification. |
| `?D DATA FIELD ERROR` | A data-field syntax error. Usually occurs as the result of inaccurate or improper data-field specification. |
| `?E CFTSHL TERMINAL READING ERROR, ERRNO = i` | Printed as a result of encountering a reading error in input read from a terminal.<br><br>`i` = System error code (see System Error Codes Appendix SYSERR-APP, in OM-4A001-01). |
| `?E CFTSHL UNABLE TO EXECUTE PROCESS f` | Printed when the CFT Shell encounters a nonexecutable file.<br><br>`f` = Full pathname of the nonexecutable file. |
| `?E CFTSHL UNABLE TO FORK PROCESS j` | Printed when the CFTSHL cannot fork a new process to execute a command.<br><br>`j` = Full pathname of the process that was not executed because of the fork failure. |

**Table 2-3**
**Error Acknowledgments Produced by the UNIX® RTR Craft Shell (4AP12 and later)**

| Acknowledgment | Meaning |
|---|---|
| `?E CFTSHL UNABLE TO INITIATE COMMAND g` | Printed when the CFTSHL encounters a zero-length file.<br><br>`g` = Full pathname of the command that cannot be initiated. |
| `?E CFTSHL UNABLE TO MATCH COMMAND h` | Printed as a result of entering an input command that does not exist in the current search directories.<br><br>`h` = Full pathname of the nonexistent command name. |
| `?E IMPROPERLY ESCAPED INPUT` | Indicates an improperly 'escaped' CFTSHL input command sequence; that is, the escape mode was entered but not exited. |
| `?E IMPROPERLY TERMINATED INPUT` | Indicates a non-CFTSHL terminator input command sequence. |
| `?E INSCREEN MSG NOT IN ENV` | The input message is not in inscreen's environment. |
| `?E INSCREEN MSG TO INDIR FAILED` | The input message failed because the indir process is not in core or its message port is full. |

**Table 2-3**
**Error Acknowledgments Produced by the UNIX® RTR Craft Shell (4AP12 and later)**

| Acknowledgment | Meaning |
|---|---|
| `?E INSCREEN MSG TOO LONG` | The maximum input message length is 199 characters. |
| `?E INVALID 'k'` | Input message syntax error.<br><br>`k` = The part of the input message that the CFTSHL has identified as invalid. |
| `?E MESSAGE IS NOT IN THE IM CATALOG` | Indicates either an error in entering the command or a missing or incorrect entry in the IM catalog. |
| `?E UNEXPECTED 'l' AFTER 'm'` | Input message syntax error.<br><br>`l` = First invalid part of the message.<br>`m` = The last valid part of the message. |
| `?E UNIDENTIFIED ERROR` | Any nonspecific syntax error encountered during input message processing. Usually occurs as the result of very inaccurate or improper input generation. |
| `?I IDENTIFICATION FIELD ERROR` | An identification-field syntax error. Usually occurs as the result of inaccurate or improper identification-field specification. |

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**Table 2-3**
**Error Acknowledgments Produced by the UNIX® RTR Craft Shell (4AP12 and later)**

| Acknowledgment | Meaning |
|---|---|
| `?I INSCREEN MISSING OR INVALID FRM NUMBER` | Either the frame number is missing or the frame number is invalid. Valid frame numbers are 1-20 and 65-72. |
| `$T MESSAGE CANCELLED` | Indicates that too much time elapsed while in help prompting mode. The input message has been cancelled. |
| `NA INSCREEN NO RESPONSE FROM INDIR` | Twenty seconds has elapsed since the input message was sent without any response from the indir process. If indir is in core, the input message has been queued. This acknowledgment message unlocks the MCRT. |
| `NG CAU LINE TOO SMALL` | The input message line received is less than five characters in length. The message is dumped. |
| `NG CFTSHL CANNOT EXECUTE 'EXC:UCL' ITSELF` | Printed when the `EXC:UCL` command is entered twice in succession. |
| `NG CFTSHL TERMINAL SECURITY VIOLATION` | The command was entered from a terminal from which it is not permitted. |

**Table 2-3**
**Error Acknowledgments Produced**
**by the UNIX® RTR Craft Shell**
**(4AP12 and later)**
**(cont'd)**

| Acknowledgment | Meaning |
|---|---|
| `NG 'EXC:UCL' INVALID IN PART MODE` | Printed when an attempt is made to use the `EXC:UCL` command while the CFTSHL is operating in partial capability mode. |
| `NG INSCREEN DLNSC UCB RCD FAILED` | A frame data link record cannot be retrieved to check if the frame data link is connected to an active frame. |
| `NG INSCREEN ECD ATTACH FAILED` | The ECD cannot be attached to check if a frame data link is connected to an active frame. |
| `NG INSCREEN NSC FRM ACTIVE` | The frame data link cannot be removed because it is connected to an active frame. |
| `NG INSCREEN TOSS BACKUP LINK UNAVAIL` | Carrier cannot be established on the TOSS backup link. |
| `NG INSCREEN TTYC UCB RCD FAILED` | A frame data link controller record cannot be retrieved to check if a frame data link is connected to an active frame. |
| `NG NO PREVIOUS COMMAND AVAILABLE` | Printed when the `EXC:UCL'` command is entered before another command has failed. |

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**Table 2-3**
**Error Acknowledgments Produced**
**by the UNIX® RTR Craft Shell**
**(4AP12 and later)**
**(cont'd)**

| Acknowledgment | Meaning |
|---|---|
| `NG PREVIOUS COMMAND HAD A SYNTAX ERROR` | Printed when the `EXC:UCL` command is used to try to force execution of a command that has a syntax error. |
| `RL CAU INDIR NOT RUNNING` | The process that forwards the input message line to the NSC frame is not in core. The message is lost forever. |
| `RL CAU LINK READ ERROR` | The RTR read() system call encountered an error. The message is lost forever. |
| `RL CAU SEND TO INDIR FAILED` | The RTR send() system call failed. The message is lost forever. |
| `RL INSCREEN MSG TO HUSTAT FAILED` | The input message failed because the hustat process is not in core or its message port is full. |

## 2.5 USE OF THE CRAFT SHELL AND INPUT MESSAGE HELP FACILITY

The Craft Shell (CFTSHL) is the 3B20D computer user-level program that handles input messages from an operator terminal or maintenance CRT (MCRT) in the PDS syntax.

The Craft Shell provides the interface between an operator terminal and the 3B20D computer by supporting the maintenance terminal input language.

A CFTSHL process is created for each maintenance/user terminal in the system. Client programs that are stored in the file system under various directories are invoked by the CFTSHL in response to a command from a maintenance/user terminal.

### 2.5.1 Input Message (IM) Catalog Database

The Craft Shell uses the IM catalog database to validate the contents of input messages entered at a maintenance/user terminal. The IM catalog contains information about input message formats, keywords, valid argument values, and full path names of the client programs that execute the specified commands. The IM catalog also contains information which indicates whether the Craft Shell or a client program is to display the appropriate acknowledgment for each input message.

### 2.5.2 Capability Mode

The Craft Shell operates in three different capability modes - full capability mode, partial capability mode and limp mode. The full capability mode assumes that all 3B20D computer and application input messages are defined in the IM catalog database. The partial capability mode assumes that all 3B20D computer input messages are defined in the catalog but not all application input messages are defined in the catalog. If the IM catalog database cannot be accessed, the Craft Shell will operate in limp mode, which is a special case of the partial capability mode.

When it is initialized, the Craft Shell reports the capability mode and IM syntax it is using in the REPT CFTSHL TERMINAL IN SERVICE output message.

When operating in full capability mode, the Craft Shell will reject with an error acknowledgment, any input message that is not represented in the IM catalog database. Consequently, a missing or erroneous entry in the IM catalog will cause the Craft Shell to reject the associated input message, even if it is typed correctly. If this

should occur, the user can force the Craft Shell to accept the message and attempt to execute it by entering the special command:

```
EXC:UCL!
```

immediately following the error acknowledgment. This command affects only the immediately preceding rejected input message. It will not cause the Craft Shell to re-execute a successful message, and it has no effect on any subsequent message. If it is used to force the Craft Shell to execute an invalid input message, the invalid message will be rejected by the client program.

#### 2.5.3 Help Facility

The Help facility of the Craft Shell provides assistance to users entering PDS input messages and can be used to complete or correct errors in input messages.

If an input message is entered incorrectly, the Craft Shell will reject it with an appropriate error acknowledgment. If the user does not understand or know what to do with the error acknowledgment, the user can get some "help" from the Craft Shell by simply entering a question mark (?).

The user can also get help by entering a ? at the end of a partial input message. The Craft Shell will interpret the ? at the end of an input message as a request for information about the format of the message.

When help is requested on a control/display terminal with 25 lines or less, the Craft Shell will cause the currently displayed page to be erased and the status summary area (SSA) page to be displayed instead. This will provide enough space for the message format and prompting information to be printed without scrolling off the screen. When the help session is concluded by either executing or cancelling the input message, the Craft Shell will cause the previously displayed page to be redisplayed.

#### 2.5.4 Levels of Help

Two levels of help are available, general guidance and specific prompting. The first ? typed in association with an input message will generate guidance output explaining the format of the message. For help not associated with an error, the previously entered partial message will be displayed so that the user can continue the message, having received help. The Craft Shell is not in prompting mode at this point. If prompting help is desired, a second ? can be entered at this time. Otherwise the situation is exactly the same as if help had never been requested, except that the user cannot backspace over the partial input message.

If the user types a second ?, the Craft Shell will enter prompting mode. The Craft Shell will prompt for either parameter names (keywords) or parameter argument values, depending on the context of the help request or error. If, while being prompted for parameter names, the user selects a parameter which has argument values, then the Craft Shell will prompt for those values before prompting for the remaining parameters.

The Craft Shell will exit prompting mode when all items have been prompted for, or when the user types the delete key (DEL). In either case the Craft Shell will display the input message constructed so far. The user can then proceed as if the constructed message had just been entered in its entirety by the user, again with the exception of backspacing. More specifically, the user may type an execute key, type a ? to request further prompting, type the delete key (DEL) to delete/cancel the message, or type more of the message to complete it.

#### 2.5.5 Scope of Help

The scope of help provided depends on the context in which the help was requested, either the entire remainder of the message or the remaining values of a particular parameter. If the ? was entered where a parameter name was expected or if a required parameter was omitted, then information will be provided on the rest of the input message. If the ? was typed where a parameter value was expected, or if an error occurred in a parameter value, then information will be provided only on that specific parameter.

#### 2.5.6 Help Summary

The following is a summary of the capabilities provided by the help facility.

- Outside of help prompting mode
  - The first ? typed per message elicits general guidance output.
  - Any subsequent ? causes the Craft Shell to enter prompting mode.
  - Upon exiting prompt mode, the input message constructed so far is presented to the user. The user may proceed normally as if outside of the prompting mode, except that previously typed characters on the line may not be erased.
- Within prompting mode
  - A valid response, i.e., within the domain specified, is met with a prompt for the next item, if any. If there are no more items, the Craft Shell exits the prompting mode automatically.
  - An invalid response is met with an error acknowledgment and a repeat of the guidance prompt.
  - Typing the delete key causes the Craft Shell to exit the prompting mode at any time.

**2.5.7 Examples of Help**

Example 1. Requesting help on an input message

| | |
|---|---|
| `<` | *shell prompts for input* |
| `ALW:DMQ?` | *user requests help* |
| `(current display page is erased)` | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| `The message format is:`<br>`ALW:DMQ;{RUN\|SRC a}!`<br>`Append text, hit ? for more info,`<br>`hit <CR> to execute, or hit <DEL> to reject` | *shell displays the message format and tells the user how to proceed* |
| `ALW:DMQ_` | *shell redisplays partial message* |
| `;SRC ALL!<CR>` | *user completes and executes message* |
| `PF` | *shell displays an acknowledgment* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

Example 2. Requesting help after an error acknowledgment

| | |
|---|---|
| `<` | *shell prompts for input* |
| `ALW:DMQ;ALL!<CR>` | *user executes an incorrect message* |
| `?E - INVALID KEYWORD ALL` | *shell acknowledges* |
| `Enter a new command or ?`<br>`for more info` | *error and tells the user how to proceed* |
| `<` | *shell prompts for input* |
| `?` | *user requests help on error* |

| | |
|---|---|
| (current display page is erased) | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| `The message format is:`<br>`ALW:DMQ;{RUN\|SRC a}!`<br>`Enter a new command or ?`<br>`for more info` | *shell displays the correct format and tells the user how to proceed* |
| `<` | *shell prompts for input* |
| `ALW:DMQ;SRC ALL!<CR>` | *user enters and executes corrected input message* |
| `PF` | *shell displays an acknowledgment* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

Example 3. Requesting that the shell prompt for the argument values of a keyword

| | |
|---|---|
| `<` | *shell prompts for input* |
| `ALW:DMQ;SRC ?` | *user requests help* |
| (current display page is erased) | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| `The message format is:`<br>`ALW:DMQ;SRC a!`<br>`Append text, hit ? for more`<br>`info, hit <CR> to execute,`<br>`or hit <DEL> to reject` | *shell displays the message format and tells the user how to proceed* |
| `ALW:DMQ;SRC _` | *shell redisplays partial message* |
| ? | *user requests prompting* |

| | |
|---|---|
| `SRC a`<br>`for a: enter REX, ADP, or ALL:_` | *shell prompts for the argument for keyword SRC* |
| `ALL<CR>` | *user responds* |
| `Append text, hit <CR> to execute or`<br>`hit <DEL> to reject`<br>`ALW:DMQ;SRC ALL_` | *shell exits prompting mode automatically and displays the constructed message* |
| `PF` | *shell displays an acknowledgment* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

Example 4. Requesting that the shell select a message format and prompt for the argument values of a keyword

| | |
|---|---|
| `<` | *shell prompts for input* |
| `TST:SPL?` | *user requests help* |
| (current display page is erased) | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| The input matches 2 messages<br>`1) TST:SPL[(a,b,c,d)]!`<br>`2) TST:SPL[(a,b,c)];RLS!`<br>`Append text, hit ? for more info,`<br>`hit <CR> to execute, or hit <DEL> to`<br>`reject` | *shell displays the number of matches, then all TST:SPL message formats* |
| `TST:SPL_` | *shell redisplays partial message* |
| `?` | *user requests prompting* |
| `enter the number of one of the messages:_` | *shell prompts user to choose a format* |
| `1<CR>` | *user selects message number one* |

| | |
|---|---|
| `The message format is:`<br>`TST:SPL[(a,b,c,d)]!` | *shell displays the selected format* |
| `SPL[(a[,b[,c[,d]]])]`<br>`for a: enter a number between`<br>`  1 and 1000:_` | *shell begins prompting for arguments of SPL* |
| `100<CR>` | *user responds* |
| `for b: enter a number between`<br>`  1 and 1000:_` | *shell prompts* |
| `0<CR>` | *user responds* |
| `Invalid response`<br>`for b: enter a number between`<br>`  1 and 1000:_` | *for an invalid response the shell reprompts* |
| `5<CR>` | *user responds* |
| `for c: enter a number between 0 and 255:_` | *shell prompts* |
| `15<CR>` | *user responds* |
| `for d: enter a number between`<br>`  1 and 430:_` | *shell prompts* |
| `<CR>` | *user skips last optional argument* |
| `Append text, hit <CR> to execute`<br>`or hit <DEL> to reject`<br>`TST:SPL(100,5,15)_` | *shell exits prompting mode automatically and displays the constructed message* |
| `<CR>` | *user executes the command* |
| `PF` | *shell displays an acknowledgment* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

Example 5. Requesting that the shell prompt for keywords and argument values

| | |
|---|---|
| `<` | *shell prompts for input* |
| `INH:DMQ?` | *user requests help* |
| (current display page is erased) | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| `The message format is:`<br>`INH:DMQ;SRC a,[TINH b],[AINH c]!` | *shell displays the message format* |
| `INH:DMQ_` | *shell redisplays partial message* |
| ? | *user requests prompting* |
| `required parm SRC has been supplied`<br>`for a: enter REX, ADP,` or `ALL:_` | *shell supplies required keyword and prompts for its argument* |
| `ALL<CR>` | *user responds* |
| `do you want TINH (enter y or <CR> to`<br>`skip):_` | *shell prompts* |
| `<CR>` | *user skips optional parameter* |
| `do you want AINH (enter y or <CR> to`<br>`skip):_` | *shell prompts* |
| `y<CR>` | *user responds* |
| `for a: enter a number between`<br>`  1 and 32767:_` | *shell prompts* |
| `10<CR>` | *user responds* |
| `Append text, hit <CR> to execute`<br>`or hit <DEL> to reject`<br>`INH:DMQ;SRC ALL,AINH 10_` | *shell exits prompting mode automatically and displays the constructed message* |

| | |
|---|---|
| `<CR>` | *user executes the command* |
| `PF` | *shell displays an acknowledgment* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

Example 6. Using the <DEL> key to cancel parts of a Help session

| | |
|---|---|
| `<` | *shell prompts for input* |
| `TST:SPL ?` | *user requests help* |
| (current display page is erased) | *shell displays SSA page on a control/display terminal with 25 lines or less* |
| `The input matches 2 messages`<br>`1) TST:SPL[(a,b,c,d)]!`<br>`2) TST:SPL[(a,b,c)];RLS!`<br>`Append text, hit ? for more info,`<br>`hit <CR> to execute, or hit <DEL> to reject` | *shell displays the number of matches, then all TST:SPL message formats* |
| `TST:SPL_` | *shell redisplays partial message* |
| `?` | *user requests prompting* |
| `enter the number of one of the messages:_` | *shell prompts user to choose a format* |
| `1<CR>` | *user selects message number one* |
| `The message format is: TST:SPL[(a,b,c,d)]!` | *shell displays the selected format* |
| `SPL[(a[,b[,c[,d]]])]`<br>`for a: enter a number between`<br>`  1 and 1000:_` | *shell begins prompting for arguments of SPL* |

| | |
|---|---|
| `100<CR>` | *user responds* |
| for b: enter a number between<br>1 and 1000:_ | *shell prompts* |
| `<DEL>` | *user cancels prompting mode* |
| `Prompting interrupted`<br>`Append text, hit <CR> to`<br>`execute, or hit <DEL> to reject`<br>`TST:SPL 100_` | *shell exits prompting mode and prompts user for more input* |
| `<DEL>` | *user cancels the entire message* |
| (display page is redisplayed) | *shell causes redisplay of display page it previously erased* |

#### 2.5.8 Acronyms and Mnemonics

Acronyms and mnemonics are used throughout the input and output manuals. Some commonly used acronyms and mnemonics are defined in Table 2-6.

**Table 2-6**
**Acronyms and Mnemonics**

| | | |
|---|---|---|
| AB | - | Accounting Block |
| ABD | - | Alternate Boot Disk |
| ABDN | - | Abandon |
| ABM | - | Accounting Block Matcher |
| ABR | - | Auxiliary Buffer Register |
| ABS | - | Alarm Battery Supply |
| ACD | - | Automatic Call Distributor |
| ACI | - | AT&T Communications Interface |
| ACI | - | AT&T Customer Interface |
| ACNR | - | Application Critical Node Recovery |
| ACP | - | Action Control Point |
| ACR | - | Auxiliary Call Register |
| ACT | - | Active |
| ACT | - | Automatic Test Control |
| ACUERR | - | Automatic Call Unit Failure |
| AD | - | Additional Data |
| ADB | - | Advanced Debugger |
| ADB | - | Analog Data Block |
| ADB | - | Automatic Database Backup |
| ADC | - | Acceptable Digit Count |
| ADP | - | Automatic Diagnostic Process |
| ADR | - | (Virtual) Address |
| ADS | - | Auxiliary Data System |
| AG | - | Alarm Grouping |
| AIM | - | Application Integrity Monitor |
| AINT | - | Autonomous Interrupt |
| ALEV | - | A-level |
| ALS | - | Alternate Linkset |
| AM | - | Administrative Module |
| AMA | - | Automatic Message Accounting |
| ANI | - | Automatic Number Identification |
| ANN | - | Announcement |
| ANNUM | - | Announcement Number |
| ANS | - | Answer |
| AOOC | - | Automatic Out of Chain |
| APDRV | - | Attached Processor Driver |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| API | - | Attached Processor Interface |
| APLUPD | - | Attached Processor Lamp Update Process |
| APMH | - | Attached Processor Message Handler |
| APPDB | - | Application Database |
| APPDB | - | ATP Database |
| APPDL | - | Application Data Link |
| APS | - | Accunet® Packet Service |
| APS | - | Attached Processor System |
| APUF | - | Autonomous Peripheral Failure |
| APUT | - | Autonomous Peripheral Trouble |
| AR | - | Audible Ringing |
| ARR | - | Automatic Re-Routing |
| ARR | - | Automatic Ring Recovery |
| ASCII | - | American Standard Code For Information Interchange |
| ASW | - | All Seems Well |
| ASWF | - | All Seems Well Failure |
| AT | - | Alarm Transfer |
| ATA | - | Activate Trunk Audit |
| ATC | - | All Tests Completed |
| ATP | - | All Tests Pass |
| ATP | - | AT&T Trigger Platform |
| ATSGHC | - | Adjunct Trunk Subgroup Head Cell |
| ATV | - | AT&T Trigger Validation |
| AU | - | Auxiliary Unit |
| AUB | - | Auxiliary Unit Bus |
| AUDS | - | Audit System Program |
| AUDST | - | Audit State |
| AVD | - | Application Variable Data |
| AVL | - | Availability |
| BAL | - | Blocked Address List |
| BB | - | Billing Block |
| BBDIG | - | Blue Box Digits |
| BCD | - | Binary Coded Decimal |
| BDU | - | Bus Display Unit |
| BEC | - | Basic Error Correction |
| BES | - | Bursty Errored Seconds |
| BFTIS | - | Backward Failure Treatment Integrated Services Digital Network User Part |
| BFTNI | - | Backward Failure Treatment Not Integrated Services Digital Network User Part |
| BIC | - | Bus Interface Controller |
| BIMM | - | Busy-Idle Memory Map |
| BIN | - | Binary Format |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| BKPRT | - | Backup Partition |
| BLEV | - | B-level |
| BLK | - | Block |
| BLM | - | Base Level Maintenance |
| BMAM | - | Buffer Memory Address Map |
| BN | - | Billing Number |
| BPH | - | Beginning Phase |
| BPS | - | Bits Per Second |
| BRKREC | - | Break Received |
| BRL | - | Billing Record Length |
| BSDIR | - | Base Directory |
| BSTN | - | Base Traffic Number |
| BTFN | - | Base Traffic Number |
| BV | - | Bipolar Violation |
| BVR | - | Bipolar Violation Rate |
| BWM | - | Broadcast Warning Message |
| CAD | - | Circuit Administration |
| CALM | - | Common Alarm |
| CAMA | - | Centralized Automatic Message Accounting |
| CAMA-ONI | - | Centralized Automatic Message Accounting - Operation Number Identification |
| CANI | - | Customer Automatic Number Identification |
| CAPPN | - | Cut-Through Application Number |
| CAR | - | Current Address Register |
| CAREA | - | Control Area |
| CAROT | - | Centralized Automatic Reporting On Trunks |
| CARRF | - | Carrier Failure |
| CATLAS | - | Centralized Automatic Trouble Locating And Analysis System |
| CATP | - | Conditional All Tests Passed |
| CBC | - | Call By Call Service Selection |
| CBNPR | - | Calling Party Number / Billing Default Presentation Restriction Indicator |
| CC | - | Call Codes |
| CC | - | Central Control |
| CC | - | Country Code |
| CCB | - | Cache Control Block |
| CCD | - | Country Code |
| CCFR | - | Central Control Fault Recognition |
| CCIO | - | Central Control Input/Output |
| CCIS | - | Common Channel Interoffice Signaling |
| CCIS2WRE | - | Common Channel Interoffice Signaling 2Wire |
| CCISCR | - | Common Channel Interoffice Signaling Critical Register |
| CCITT | - | Consultative Committee On International Telephone & Telegraph |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| CCITT6 | - | Consultative Committee On International Telephone & Telegraph Common Channel Signaling System Number 6 |
| CCK | - | Continuity Check |
| CCS | - | Common Channel Signaling |
| CCS | - | Hundred Call Seconds |
| CCS7 | - | Common Channel Signaling System 7 |
| CCU | - | Central Control Unit |
| CDB | - | Customer Data Block |
| CDBI | - | Customer Data Block Index |
| CDR | - | Call Detail Recording |
| CDR | - | Channel Data Register |
| CDR | - | Customer Data Response |
| CDRP | - | Call Detail Recording Platform |
| CESR | - | Control Error Source Register |
| CFA | - | Carrier Failure Alarm |
| CFC | - | Carrier Failure Condition |
| CGA | - | Carrier Group Alarm |
| CH | - | Channel |
| CHNEG | - | Channel Negotiation |
| CHOVRN | - | Character Overrun |
| CI | - | Carrier Interconnect |
| CIA | - | Critical Indicator Administrator |
| CID | - | Carrier Identification |
| CIN | - | Circuit Identification Number |
| CIN | - | Change In Network |
| CLEV | - | C-level |
| CLF | - | Clear Forward |
| CLS | - | Combined Linkset |
| CMS | - | Change Management |
| CMS | - | Change Management System |
| CMS | - | Circuit Maintenance |
| CMS | - | Circuit Maintenance System |
| CMS | - | Circuit Multiplication System |
| CNC | - | Central Node Control |
| CNCE | - | Common Channel Signaling Network Critical Events |
| CNI | - | Common Network Interface |
| CNIBLM | - | Common Network Interface Base Level Error Word |
| CNIEWD | - | Common Network Interface Error Information Word |
| CNR | - | Interprocess Message Switch Critical Node Recovery |
| COMB | - | Combined |
| COMGR | - | Command Group |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| CONF | - | Conference |
| CONFIG | - | Configuration Control |
| CONT | - | Controller |
| CONV | - | Conversant |
| CONV | - | Conversion |
| CORR | - | Correcting |
| CPD | - | Control Pulse Distributor |
| CPDIG | - | Calling Party Digits |
| CPF | - | Character Parity Failure |
| CPOS | - | Control Position |
| CR | - | Call Register |
| CR | - | Cluster Region |
| CR | - | Critical |
| CRB | - | Customer Routing Block |
| CRBI | - | Customer Routing Block Index |
| CRC | - | Cyclic Redundancy Check |
| CREG | - | Critical Register |
| CRTSI | - | Cost-Reduced Time Slot Interchange |
| CS | - | Call Store |
| CSB | - | Call Store Bus |
| CSB | - | Clock Select and Buffer |
| CSDC | - | Circuit Switched Digital Capability |
| CSFRID | - | Call Store Identification Data |
| CSOP | - | Coordinator of Spooler Output Processes |
| CSS | - | Call Store Semi-Conductor |
| CSU | - | Cache Store Unit |
| CSU | - | Channel Service Unit |
| CT | - | Center Tape |
| CT | - | Cluster Type |
| CTRA | - | Connected To Recorded Announcement |
| CTS | - | Common Tone Supply |
| CTX2 | - | Centrex 2 |
| CU | - | Control Unit |
| DADC | - | Direct Access Data Channel |
| DANI | - | Direct Access Data Channel Automatic Number Identification |
| DAP | - | Display Administration Process |
| DAT | - | Demand Analysis |
| DATS | - | Demand Analysis State |
| DBOV | - | Digital Buffer Overflow Pest |
| DBS | - | Duplex Bus Selector |
| DC | - | Direct Connect |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| DCC | - | Data Consistency Check |
| DCHN | - | D-Channel |
| DCHN | - | D-Channel Node |
| DCHN | - | D-Channel Q.931 Signaling Trunk |
| DCI | - | Dual Serial Channel/Computer Interconnect |
| DCIS | - | Destination Common Channel Signaling System |
| DCNT | - | Digit Count |
| DDB | - | Disk Descriptor Block |
| DDI | - | Direct Data Insert |
| DDI | - | Direct Dial-In |
| DDT | - | Digital Data Trunk |
| DEC | - | Decimal Format |
| DESEP | - | Destination Separation |
| DEX | - | Demand Exercise |
| DF | - | Disk File |
| DF | - | Duplex Fail |
| DF | - | Deferred Formatting |
| DFC | - | Disk File Controller |
| DFSA | - | Disk File Storage Access |
| DFSA | - | Data File System Access |
| DG | - | Digroup |
| DGALM | - | Digroup Alarm |
| DGN | - | Diagnose or Diagnostic |
| DGO | - | Digroup Out Of Service |
| DGRF | - | Digroup Report Function Data |
| DGSTAT | - | Digroup Status |
| DIAGC | - | Diagnostic Control Program |
| DIF | - | Digital Interface Frame |
| DIF-E1 | - | Digital Interface Frame-Export 1 |
| DIOP | - | Disk Independent Operation |
| DISK | - | Disconnect |
| DIU | - | Digital Interface Unit |
| DKAD | - | Disk Address |
| DKDRV | - | Disk Driver |
| DLC | - | Data Link Controller |
| DLEV | - | D-level |
| DLN | - | Data Link Node |
| DLN | - | Data Link Number |
| DLN | - | Direct Link Node |
| DLTA | - | Data Link Translator Address |
| DM | - | Disk Mode |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| DMA | - | Direct Memory Access |
| DMABUF | - | Direct Memory Access Buffer |
| DMAC | - | Direct Memory Controller |
| DMI | - | Discard Message Indicator |
| DMQ | - | Diagnostic Maintenance Queue |
| DMQ | - | Deferred Maintenance Queue |
| DMS | - | Data Management System |
| DN | - | Dialed Number |
| DNHR | - | Dynamic Non-Hierarchical Routing |
| DNHRICM | - | Dynamic Non-Hierarchical Routing Incoming Class Mark |
| DNHROCM | - | Dynamic Non-Hierarchical Routing Outgoing Class Mark |
| DNP | - | Dialed Number Preferred |
| DNST | - | Dialed Number Service Type |
| DOC | - | Dynamic Overload Control |
| DOCRN | - | Dynamic Overload Control Receive Number |
| DOFP | - | Disable Outgoing Fraud Prevention |
| DOM | - | Domain |
| DOMI | - | Domain Incoming |
| DOWNC | - | Down Chain |
| DP | - | Dial Pulse |
| DPC | - | Destination Point Code |
| DPSTOP | - | Dial Pulse Stop |
| DPT | - | Diagnostic Phase Table |
| DRB | - | Disk Request Block |
| DSCH | - | Dual Serial Channel |
| DSDC | - | Direct Services Dialing Capability |
| DS0 | - | Digital Signal Zero |
| DST | - | Diagnostic Strategy |
| DSTT | - | Direct Signaling Translation Test |
| DT | - | Digroup Terminal |
| DTAT | - | Digital Test Access Trunk |
| DTCR | - | Dedicated Time-Slot Interchange Connection Register |
| DTMF | - | Dual Tone Multifrequency |
| DTTU | - | Digital Trunk Test Unit |
| DTU | - | Digroup Terminal Unit |
| DUC | - | Data Unit Controller |
| DUI | - | Direct User Interface |
| DUIC | - | Direct User Interface Controller |
| DUPT | - | Dial-Up Port |
| DUS | - | Data Unit Selector |
| E1 | - | Export 1 |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| EAC | - | Error Analysis Control |
| EAC | - | Expanded Authorization Code |
| EAI | - | Emergency Action Interface |
| EAR | - | Error Analysis And Recovery |
| EAS | - | Equal Access Signaling |
| ECD | - | Equipment Configuration Database |
| EIH | - | Error Interrupt Handler |
| EIN | - | Ethernet® Interface Node |
| EIR | - | Enhanced Information Report |
| ELEV | - | E-level |
| ELS | - | Electronic Loop Segregation |
| EMM | - | Expanded Main Memory |
| EMM | - | Extended Main Memory |
| EOF | - | End Of File |
| EPAV | - | Enhanced Pre-Assign Values |
| EPH | - | Ending Phase |
| EPLX | - | ESS Programming Language Extended |
| EQL | - | Equipment Location |
| ER | - | Emergency Restart |
| ERAP | - | Error Analysis Program |
| ERRC | - | Error Counter |
| ERRESF | - | Errored Extended Super Frame |
| ERSP | - | Error Stop |
| ES | - | Echo Suppressor |
| ES | - | Errored Seconds |
| ESF | - | Extended Super Frame |
| ESF-DL | - | Extended Super Frame-Data Loopback |
| ESN | - | E-store Number |
| ESN | - | Echo Suppressor Number |
| ESR | - | Error Source Register |
| ESS | - | Electronic Switching System |
| EST | - | Echo Suppressor Terminal |
| ESU | - | Echo Suppressor Unit |
| EXCRAM | - | Executive Buffer Random Access Memory |
| FD | - | Forced Data |
| FEIT | - | Far-End Intrusive Test |
| FDPLX | - | Full Duplex |
| FE | - | Far End |
| FEHIGH | - | Frame Error High Count |
| FELATA | - | Far End Local Access Transport Area |
| FELOW | - | Frame Error Low Count |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| FEN | - | Far End Network |
| FENCLASS | - | Far End Network Class |
| FENID | - | Far End Network Identification |
| FENPA | - | Far End Numbering Plan Area |
| FEOFC | - | Far End Office |
| FERA | - | Fault Error Analysis |
| FESC6 | - | Far End 6-Digit Screening |
| FETL | - | Far End Test Line |
| FHC | - | Final Handling Code |
| FIFO | - | First-In First-Out |
| FLEV | - | F-level |
| FLN | - | Frame Location Number |
| FMGR | - | File Manager |
| FMI | - | File Manager Interface |
| FMIBUF | - | File Manager Interface Buffer |
| FPWRF | - | Force Power Failure |
| FRZ | - | Frozen State |
| FS | - | Failed Seconds |
| FS | - | File Store |
| FS | - | Functional Schematic |
| FSECD | - | File Store Error Correction Data |
| FSID | - | File Store Identification |
| FSP | - | Four-State Pass |
| FSSTAT | - | File Store Status Failure Report Data |
| FTA | - | File Transfer and Activation |
| FTF | - | File Transfer Files |
| FTFN | - | First Traffic Number |
| FTS | - | Field Test Set |
| GBT | - | General Buffer Table |
| GCP | - | Gate Control Pulse |
| GCP | - | Generated Control Pulse |
| GEN | - | Generic |
| GEOSEP | - | Geographical Traffic Separation Class |
| GI | - | Group Interrogate |
| GLEV | - | G-level |
| GNS | - | Go/No Go Screening |
| GNSC | - | Go/No-Go Screening Class |
| GOOS | - | Go-Out-Of-Service |
| GRASP | - | General Access Package |
| GRASP | - | Generic Access Package |
| GSDN | - | Global Software Defined Network |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| GSDNPHSE | - | Global Software Defined Network Phase |
| GSF | - | Generic Specification File |
| GTH | - | Growth |
| GTT | - | Global Title Translation |
| GULP | - | General Utility Program |
| HA | - | Host Adapter |
| HA | - | Host Adaptor |
| HAW | - | High And Wet |
| HBDG | - | Head Block Diode Group |
| HIST | - | Trouble History |
| HLD | - | Hold |
| HSD | - | High Speed Synchronous Data Link |
| HSDC | - | High Speed Synchronous Data Link Controller |
| HSR | - | Hardware Status Register |
| HTR | - | Hard To Reach |
| HV | - | Hardware Version |
| HWL | - | High And Wet List |
| HWT | - | High And Wet Timing |
| I/O | - | Input/Output |
| IA | - | Ineffective Attempt |
| IADC | - | Integrated Access Direct Connect |
| IAID | - | Internal (4ESS™) Announcement Identity |
| IBGTT | - | Inbound Global Translation |
| IBO | - | Input Buffer Overflow |
| IC | - | Instruction Control |
| IC | - | Inter Local Access Transport Area Carrier |
| ICB | - | Input Control Block |
| ICD | - | International Call Data |
| ICDR | - | International Call Detailed Recording |
| ICMP | - | Internet Control Message Protocol |
| ICT | - | Incoming Trunk |
| ID | - | Identification |
| IDB | - | Inward Area Telephone Service Database |
| IDDD | - | International Direct Distance Dialing |
| IDENT | - | Identity |
| IDMM | - | Identification Tag Mismatch |
| IDS | - | Information Delivery System |
| IDS | - | Information Development Services |
| IDS | - | Interconnection Design System |
| IDS | - | Interprocessor Data Synchronization |
| IDTS | - | Incoming Dial Tone Start |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| IGFET | - | Insulated Gate Field Effect Transistor |
| IMR | - | Inhibit Maintenance Request |
| IMS | - | Interprocess Message Switch |
| IMSDRV | - | Interprocess Message Switch Driver |
| IN | - | Interface Node |
| INI | - | Inhibit Normal Interrupt |
| INIT | - | Initialization |
| INS | - | In-Service |
| INSEP | - | Incoming Traffic Separation Class |
| INTL | - | International |
| INVCCD | - | Invalid Channel Command |
| INVINT | - | Invalid Interrupt Internal Register |
| INWATS | - | Inward Area Telephone Service |
| IODRV | - | Input/Output Driver |
| IODRV | - | Input/Output Drivers |
| IOF | - | Input/Output Frame |
| IOMP | - | Input/Output Unit Microprocessor Communities |
| IOP | - | Input/Output Processor |
| IOUC | - | Input/Output Unit Controller |
| IOUS | - | Input/Output Unit Selector |
| IP | - | In Progress |
| IP | - | Initialization Processor |
| IP | - | Internal Protocol |
| IP | - | Internet Protocol |
| IPUB | - | Interface Peripheral Unit Bus |
| IRN2 | - | Integrated Ring Node 2 |
| IS | - | In Service |
| ISC | - | Incoming Signaling Characteristics |
| ISC | - | Initialization Sequence Control |
| ISL | - | Intermediate Switch List |
| ISTP | - | International Traffic Point |
| ISUP | - | Integrated Services Digital Network User Part |
| ITC | - | Incoming Trunk Class |
| ITC | - | Incoming Trunk Subgroup Class |
| IU | - | Interface Unit |
| IUN | - | Interprocess Message Switch User Node |
| IWZ1 | - | International World Zone 1 |
| JCB | - | Job Control Buffer |
| JLEV | - | J-level |
| KBPS | - | Kilobits Per Second |
| KLEV | - | K-level |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| KOP | - | Kernel Overwrite Process |
| KW | - | Keyword |
| LACID | - | Link Access Circuit Identifier |
| LATA | - | Local Access Transport Area |
| LCA | - | Local Carrier Alarm |
| LCI | - | Local Call Intercept |
| LDFT | - | Load Disk From Tape |
| LDIN | - | Logical Device Identification Number |
| LEC | - | Local Exchange Carrier |
| LFCN | - | Low Frequency Exerciser Controller |
| LFS | - | Link Fault Sectionalization |
| LFVR | - | Line Format Violation Rate |
| LI | - | Length Indicator |
| LI | - | Link Interface |
| LIB | - | Library |
| LIB | - | Library Program |
| LIER | - | Link Interface Encryption Removal |
| LIM | - | Link Integrity Monitor |
| LIU | - | Line Interface Unit |
| LKO | - | Lockout |
| LLB | - | Line Loopback |
| LLHC | - | Link List Head Cell |
| LLSADR | - | Last Look Store Address |
| LN | - | Link Node |
| LODBUF | - | Load Buffer |
| LOF | - | Loss Of Frame |
| LOFC | - | Loss Of Frame Count |
| LOM | - | Listen Only Mode |
| LOS | - | Loss Of Signal |
| LP | - | Link Processor |
| LPA | - | Low Paper Alarm |
| LSA | - | Local Subframing Alarm |
| LSC | - | Loopback Select Code |
| LSP | - | Load-Set Period |
| LSST | - | Local Access Transport Area / State Screening State |
| LTS | - | Long Term Storage |
| LVS | - | Local Variable Stack |
| LVS | - | Local Variable Stock |
| MAC | - | Machine Administration Center |
| MACCM | - | Machine Administration Center Control Memory |
| MACP | - | Maintenance Control Program |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| MAEC | - | Media Access Error Counter |
| MAN | - | Manual |
| MAPN | - | Master Application Number |
| MAPRT | - | Map Rate Table |
| MAR | - | Mass Announcement System Register |
| MARP | - | Maintenance Restart Program |
| MAS | - | Mass Announcement Service Frame |
| MAS | - | Mass Announcement Service |
| MASA | - | Main Store Array |
| MASC | - | Main Store Controller |
| MAU | - | Mass Announcement Unit |
| MB | - | Maintenance Busy |
| MC | - | Maintenance Center |
| MC | - | Microcode |
| MCC | - | Master Control Center |
| MCH | - | Maintenance Channel |
| MCRT | - | Maintenance Cathode Ray Terminal |
| MCT | - | Multiple Carrier Treatments |
| MDCT | - | Minor Device Chain Table |
| MDN | - | Miscellaneous Distribution Number |
| MDR | - | Message Detail Recording |
| MEGC | - | MEGACOM® Service |
| MEMN | - | Member Number |
| MF | - | Multifrequency |
| MFC | - | Multifrequency Compelled |
| MFGR | - | Manufacturer |
| MFN | - | Maintenance File Number |
| MFNUM | - | Maintenance File Number |
| MHD | - | Moving Head Disk |
| MHD | - | Moving Head Disks |
| MI | - | Maintenance Interject |
| MI | - | Member Interrogate |
| MI | - | Modular Interface |
| MICON | - | Maintenance Control |
| MICON | - | Maintenance Interrupt Control |
| MIRA | - | Maintenance Input Request Administrator |
| MJ | - | Major |
| MJC | - | Major Capabilities |
| MLTS | - | Micro Level Test Set |
| MML | - | Matrix Maintenance Limit |
| MN | - | Minor |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| MNC | - | Magic Number Control |
| MOC | - | Master Operations Center |
| MOCC | - | Master Operations Center Control |
| MOCT | - | Measurement Output Control Tables |
| MOP | - | Mount Off-Line Partition |
| MORR | - | Multiple Or Redundant Request |
| MP | - | Main Program |
| MP | - | Maintenance Processor |
| MP | - | Monitor |
| MPF | - | Memory Parity Failure |
| MPI | - | Miscellaneous Program Index |
| MR | - | Maintenance Request |
| MRA | - | Modify Recovery Action |
| MRF | - | Maintenance Reset Function |
| MROP | - | Maintenance Read-Only Printer |
| MRT | - | Multiple Routing |
| MRTI | - | Multiple Routing Treatment Index |
| MRVA | - | Message Transport Part Routing Verification Acknowledgement Message |
| MRVR | - | Message Transport Part Routing Verification Result Message |
| MRVT | - | Message Transport Part Routing Verification Test |
| MS | - | Main Store |
| MSK | - | Mask |
| MSN | - | M-Store Number |
| MSN | - | Miscellaneous Scan Point Number |
| MSN | - | Miscellaneous Scanner Number |
| MSTAT | - | Mass Announcement System Status Table |
| MSW | - | Message Switch |
| MSU | - | Message Signal Unit |
| MT | - | Magnetic Tape |
| MTC | - | Magnetic Tape Controller |
| MTC | - | Maintenance |
| MTCE | - | Maintenance |
| MTP | - | Message Transport Part |
| MTS | - | Multiple Treatment Screening |
| MTSC | - | Multiple Treatment Screening Class |
| MTSCI | - | Multiple Treatment Screening Class Index |
| MTTY | - | Maintenance Teletypewriter |
| MTTYC | - | Maintenance Teletypewriter Controller |
| MULTACT | - | Multiple Activate |
| MV | - | Model Version |
| NAC | - | Non-Call Associated Temporary Signaling Connection Anomaly Code |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| NACC | - | Non-Call Associated Temporary Signaling Connection Anomaly Code Category |
| NAUD | - | Node Audit |
| NBS | - | Near Building Subdivision |
| NCA | - | No Circuit Available |
| NCAT | - | Non-Call Associated Temporary Signaling Connection |
| NCATSC | - | Non-Call Associated Temporary Signaling Connection |
| NCD | - | Network Call Denial |
| NCG | - | Noncorrecting |
| NCLK | - | Network Clock |
| NCOE | - | Network Channel Office Equipment |
| NWT | - | Network Time |
| NCP | - | Network Control Point |
| NCSU | - | Network Clock Synchronization Unit |
| NE | - | Near End |
| NEI | - | Network Element Interface |
| NEIT | - | Near-End Intrusive Test |
| NENI | - | Near-End Non-Intrusive |
| NEOTR | - | Near Operational Test |
| NESAC | - | National Electronic Switching Assistance Center |
| NETCLK | - | Network Clock |
| NID | - | Network Identification |
| NID | - | Network Inward Dialing |
| NIU | - | Network Interface Unit |
| NMOC | - | Network Management Center |
| NNR | - | Node-to-Node Registers |
| NOCTS | - | No Clear To Send |
| NPA | - | Numbering Plan Area |
| NPARINH | - | Numbering Plan Area Reconstruction Inhibit |
| NSC | - | Network Services Complex |
| NSN | - | Network Switch Number |
| NTC | - | National Trunk Congestion |
| NTPI | - | Non-Trunk Program Index |
| NTR | - | No Tests Run |
| NTWK | - | Network |
| NWM | - | Network Management |
| NWM | - | Network Management Display Data |
| O/S | - | Out-of-Service |
| OBGTT | - | Outbound Global Title Translation |
| OBO | - | Output Buffer Overflow |
| OC | - | On Condition |
| OCU | - | Office Channel Unit |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| ODA | - | Office Data |
| ODA | - | Office Data Assembler |
| ODIL | - | Office Dependent Initial List |
| OFC | - | Office |
| OFL | - | Off-Line |
| OFLBOOT | - | Off Line Boot |
| OFLDISK | - | Off-Line Disk |
| OGT | - | Outgoing Trunk |
| OLCIGI | - | Originating Local Call Intercept Group Index |
| OLI | - | Originating Line Information |
| OLIN | - | Off-Line Status |
| OMDB | - | Output Message Database |
| OMEG | - | MEGACOM® /Wide Area Telecommunications Service |
| OMR | - | Output Message Register |
| ONAC | - | Operational Network Administration Center |
| ONI | - | Operation Number Identification |
| ONI | - | Operator Number Identification |
| OOF | - | Out Of Frame |
| OOFC | - | Originating Office Code |
| OOS | - | Out Of Service |
| OOSI | - | Out Of Service Ignore |
| OPC | - | Originating Point Code |
| ORNU | - | Order Number |
| OSC | - | Outgoing Signaling Characteristics |
| OSDATA | - | On-Site Data |
| OSDNK | - | Global Software Defined Network Key Customer |
| OSM | - | Operator Services Manager |
| OSM | - | Originating Switch Module |
| OSOR | - | On-Site Operations Report |
| OSS | - | Operating Support System |
| OST | - | Operating System Trap |
| OTMTN | - | Operational Terminating Test Number |
| OTMTT | - | Operational Terminating Test Type |
| OTSTN | - | Operational Through Switch Test Number |
| OTSTT | - | Operational Through Switch Test Type |
| OVLD | - | Overload |
| OVRD | - | Override |
| PA | - | Program Address |
| PALL | - | Print All |
| PAS | - | Protected Application Segment |
| PAS | - | Protective Application Segment |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| PAS | - | Public Announcement |
| PBC | - | Peripheral Bus Computer |
| PBFR | - | Peripheral Bus Fault Recognition |
| PBX | - | Private Branch Exchange |
| PBXAW | - | Private Branch Exchange Answer Withheld |
| PBXESGD | - | Private Branch Exchange Expect Station Group |
| PC | - | Peripheral Controller |
| PC | - | Processor Configuration |
| PCB | - | Process Control Block |
| PCCD | - | Pseudo-Country Code |
| PCD | - | Power Control Distribution |
| PCD | - | Power Conversion and Distributing |
| PCF | - | Point Code Format |
| PCGRP | - | Person Command Group |
| PCM | - | Pulse Code Modulation |
| PCP | - | Positive Call Processing |
| PCPAUD | - | Process Control Process Audit |
| PCPGTT | - | Positive Call Processing Global Title Translation |
| PCPMD | - | Processor Control Process Maintenance Driver |
| PCR | - | Preventative Cyclic Redundancy |
| PCRV | - | Processor Configuration Recovery |
| PCS | - | Power Control Switch |
| PCSD | - | Peripheral Controller Subdevices |
| PDA | - | Parameter Data |
| PDS | - | Page Descriptor Shell |
| PDS | - | Program Documentation Standard |
| PDT | - | Page Descriptor Table |
| PECC | - | Program Engineering Control Center |
| PGM | - | Program |
| PIC | - | Peripheral Interface Controller |
| PIC | - | Priority Interrupt Controller |
| PID | - | Process Identification |
| PIIT | - | Periodic Indication Of Intrusive Test |
| PIO | - | Peripheral Input/Output |
| PKG | - | Package |
| PLB | - | Payload Loopback |
| PLS | - | Primary Linkset |
| PLS | - | Pulsed Line Signaling |
| PMCR | - | Plant Measurements Common Report |
| PMD | - | Point Of Maximum Definition |
| PMJ | - | Power Major |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| PMN | - | Power Minor |
| PMOS | - | Peripheral Maintenance Operating System |
| PMS | - | Plant Measurement System |
| PNT | - | Print |
| PNT | - | Print No Test |
| POTS | - | Plain Old Telephone Service |
| PP | - | Processor Peripheral |
| PPI | - | Processor-Peripheral Interface |
| PPM | - | Periodic Pulse Metering |
| PRL | - | P-Register - Lower |
| PRM | - | Process Recovery Message |
| PROFL | - | Profile |
| PRT | - | Proportional Routing |
| PS | - | Program Store |
| PSB | - | Program Store Bus |
| PSBN | - | Prohibit Sending Billing Number |
| PSBR | - | Primary Segment Base Register |
| PSCPN | - | Prohibit Sending Calling Party Number |
| PSES | - | Prohibit Service Evaluation |
| PSFRID | - | Program Store Identification |
| PSFRTR | - | Program Store Test Results |
| PSLT | - | Periodic Signaling Link Test |
| PSM | - | Power Switch Monitor |
| PSN | - | Protection Switch |
| PSOLI | - | Prohibit Sending Originating Line Information |
| PSS | - | Program Store Semi-Conductor |
| PSS | - | Program Support System |
| PSSWDPFX | - | Password Prefix |
| PSSWDSFX | - | Password Suffix |
| PSUUI | - | Prohibit Sending User-To-User Information |
| PSW | - | Processor Status Word |
| PSW | - | Program Status Word |
| PSW | - | Protection Switch |
| PTSRPS | - | P-bit Trunk Status Rate Pointer Store |
| PTSS | - | P-bit Trunk Status Store |
| PU | - | Peripheral Unit |
| PUB | - | Peripheral Unit Bus |
| PUC | - | Peripheral Unit Controller |
| PUCF | - | Peripheral Unit Controller Frame |
| PUEX | - | Peripheral Unit Exercise |
| PULP | - | Peripheral Utility Program |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| QTFN | - | Quantity Of Traffic Numbers |
| QTFN | - | Quantity Traffic Numbers |
| RA | - | Recorded Announcement |
| RAC | - | Ring Access Circuit |
| RACF | - | Recorded Announcement Channel Frame |
| RACHAN | - | Record Announcement Channel |
| RAM | - | Random Access Memory |
| RAC | - | Ring Access Circuit |
| RBA | - | Recent Change Rollback |
| RC | - | Recent Change |
| RCMA | - | Recent Change Memory Administration |
| RCNHIST | - | Recent History |
| RCRB | - | Recent Change Rollback |
| RCS | - | Routine Class Schedule |
| RCUERR | - | Automatic Call Unit Failure |
| RCV | - | Recent Change And Verify |
| RDB | - | Routing Data Block |
| RDBI | - | Routing Data Block Index |
| RDC | - | Red-Special Circuit |
| REG | - | Register |
| RENI | - | Remote Non-Intrusive |
| REV | - | Reverse |
| REX | - | Routine Exercise |
| RFA | - | Ring Forward Allowed |
| RFE | - | Removed Far End |
| RFMP | - | Ring Forward Miscellaneous |
| RID | - | Record Identification |
| RID | - | Record Identifier |
| RLS | - | Release |
| RMA | - | Remote |
| RMA | - | Remote Alarm |
| RMSD | - | Remote Measurement System Digital |
| RMT | - | Remote Terminal Output |
| RN | - | Ring Node |
| RNA | - | Ring Node Address |
| RNE | - | Removed Near End |
| RO | - | Read Only |
| ROM | - | Read Only Message |
| ROP | - | Read Only Printer |
| ROP | - | Receive-Only Printer |
| ROS | - | Request Out of Service |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| ROTL | - | Remote Office Test Lines |
| RPC | - | Ring Peripheral Controller |
| RPCN | - | Ring Peripheral Controller Node |
| RPI | - | Routing Pattern Identity |
| RR | - | Recording Register |
| RRM | - | Routing Request Message |
| RSA | - | Remote Subframe Alarm |
| RSF | - | Ring Service Failure |
| RST | - | Restore |
| RSW | - | Receiver-Seems-Well |
| RT | - | Ringing And Tone Plant |
| RTC | - | Real Time Clock |
| RTM | - | Real Time Monitor |
| RTNR | - | Real Time Network Routing |
| RTR | - | Real Time Reliable |
| RTS | - | Real Time Status |
| RTS | - | Real Time Status Report |
| RTSM | - | Receive Time Slot Memory |
| RW | - | Read/Write |
| SADC | - | Special Access Data Channel |
| SADC | - | System Audit Of Disks |
| SADK | - | System Audit Disk |
| SAPN | - | Slave Application Number |
| SAR | - | Start Address Register |
| SAS | - | Stop And Switch |
| SAST | - | System Audit Of Stores From Tape System Audit Of Stores Using Tape |
| SAT | - | Satellite |
| SAT | - | Store Address Translation |
| SAT | - | Store Address Translator |
| SAWS | - | System Audit Of Writable Stores |
| SBUS | - | Small Computer System Interface Bus |
| SBY | - | Stand-By |
| SC | - | Structure Codes |
| SCA | - | Save Current Address Register |
| SCAR | - | Stable Call Accumulation Register |
| SCC | - | Switching Control Center |
| SCCP | - | Signaling Connection Control Part |
| SCCS | - | Switching Control Center System |
| SCGA | - | Software Carrier Group Alarm |
| SCHD | - | Schedule |
| SCLK | - | System Clock |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| SCMG | - | Signaling Connection Control Part Management Message |
| SCP | - | Scan Matrix Pack |
| SCP | - | Software Change Package |
| SCSD | - | Scanner and Signal Distributor |
| SCSDC | - | Scanner and Signal Distributor Controller |
| SCSI | - | Small Computer System Interface |
| SCUFS | - | Scanner Control Unit Failure Summary |
| SD | - | Scan and Signal Distributor |
| SD | - | Schematic Drawing |
| SD | - | Segmentation Directory |
| SD | - | Signal Distributor |
| SDC | - | Service Degrading Condition |
| SDC | - | Store Data Control |
| SDL | - | Synchronous Data Link |
| SDLC | - | Synchronous Data Link Controller |
| SDM | - | Signal Distributor Matrix |
| SDN | - | Software Defined Network |
| SDN | - | Switched Digital Network |
| SDNK | - | Software Defined Network Key Customer |
| SDP | - | Signal Distributor Applique Pack |
| SDS | - | Shared Data Segment |
| SDT | - | Segment Descriptor Table |
| SEGINIT | - | Segment Initialization |
| SERPF | - | Serial Parity Failure |
| SES | - | Severely Errored Seconds |
| SG | - | System Generation |
| SIC | - | Service Indicator Code |
| SICO | - | Software Integrity Control Program |
| SID | - | Service Identification |
| SIGLK | - | Signaling Link |
| SII | - | Service Identity Index |
| SIM | - | System Integrity Monitor |
| SIN | - | Small Computer System Interface Interface Node |
| SINDEX | - | Sampling Rate Index |
| SINT | - | Supplementary Interrupt |
| SIOF | - | System Integrity Output Formatter |
| SJB | - | Small Computer System Interface Job Block |
| SKPBY | - | Skip Busy |
| SLC | - | Signaling Link Code |
| SLIPS | - | Slip Seconds |
| SLK | - | Signaling Link |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| SLMK | - | Signaling Link Monitor Kernel |
| SMCC | - | Switching Maintenance Control Center |
| SMD | - | Storage Module Device |
| SMD | - | Storage Module Drive |
| SMM | - | Standard Main Memory |
| SO | - | Switching Office |
| SOI | - | Start Of Input |
| SP | - | Scan Point |
| SP | - | Signaling Point |
| SP | - | Signaling Processor |
| SPC | - | Signaling and Permuting Circuit |
| SPC | - | Switching and Permuting Controller |
| SPF | - | Signal Processor Failure |
| SPSTS | - | Signal Processor State Translator Store |
| SR | - | Software Release |
| SR | - | System Recovery |
| SR | - | System Reinitialization |
| SREC1 | - | Secondary Record Channel |
| SRES | - | Search Results Number |
| SRST | - | Signaling Route Set Test |
| SRVT | - | Signaling Connection Control Part Routing Verification Test |
| SSBR | - | Secondary Source Base Register |
| SSN | - | Subsystem Network |
| SSR | - | System Status Register |
| STBY | - | Standby |
| STF | - | Some Tests Failed |
| STF-BOF | - | Some Test Failed and Buffer Overflowed |
| STP | - | Signaling Transfer Point |
| STP | - | Some Tests Passed |
| SU | - | Signal Unit |
| SU | - | Switch Unit |
| SUERM | - | Signal Unit Error Rate Monitor |
| SVC | - | Service Circuit |
| SVCT | - | Service Circuit Test |
| SVR | - | Select/Verify |
| SW | - | Switch |
| SXS | - | Step-by-Step |
| SYN | - | Synchronous |
| SYNC | - | Synchronous |
| SYUP | - | System Update |
| TAC | - | Terminal Access Circuit |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| TAN | - | Trunk Appearance Number |
| TANTOTAN | - | Trunk Appearance Number-to-Trunk Appearance Number |
| TAS | - | Tape Administration System |
| TAT | - | Test Access Trunk |
| TAUTH | - | Terminal Authority |
| TB | - | Transaction Block |
| TBMN | - | Trunk Block Member Number |
| TBS | - | Trunk Block Status |
| TCA | - | Trunk Control Area |
| TCAP | - | Transaction Capability Application Part |
| TCB | - | Task Control Block |
| TCGRP | - | Terminal Command Group |
| TCP | - | Transmission Control Protocol |
| TDA | - | Translation Data |
| TDAS | - | Traffic Data Administration System |
| TDASMC | - | Traffic Data Administration System Measurement Class |
| TDCU | - | Traffic Data Concentrator Unit |
| TDEST | - | Type Of Destination |
| TDN | - | Time Division Network |
| TEC | - | Terminal Equipment Center |
| TEC | - | Test Equipment Control Terminal Process |
| TER | - | Terminal |
| TERA | - | Trunk Error Analysis |
| TESTNO | - | Test Number |
| TFG | - | Type Of Feature Group |
| TFN | - | Traffic Number |
| TFNB | - | Traffic Number Blocks |
| TFP | - | Transfer Prohibited |
| TG | - | Trunk Group Location Data Base |
| TGR | - | Terminal Grouping |
| TGRF | - | Terminal Grouping Frame |
| TIC | - | Translation Integrity Check |
| TKMTC | - | Trunk Maintenance |
| TL | - | Terminate and Leave |
| TLDB | - | Trouble |
| TLP | - | Trouble Location Procedure |
| TLP | - | Trouble Locating Procedure |
| TM | - | Timer |
| TMR | - | Timer Register |
| TMR | - | Trunk Maintenance Register |
| TMS | - | Time Multiplexed Switch |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| TMSCR | - | Time Multiplexed Switch Register |
| TMSP | - | Time Multiplexed Switch Pair |
| TN | - | Terminating Number |
| TNUP | - | Trunk Used For Large-Scale Nailup |
| TOC | - | Trunk Operations Center |
| TOD | - | Time Of Day |
| TOP | - | Tape-Only Program |
| TOPS | - | Task Oriented Procedures |
| TORIG | - | Type Of Origin |
| TOSL | - | Trunk Out Of Service List |
| TOSS | - | Teleconferencing Operator Support System |
| TOT | - | Type Of Trunk |
| TPC | - | Translation Point Code |
| TPI | - | Trunk Program Index |
| TPM | - | Traffic and Plant Measurement |
| TPM | - | Traffic Plant Measurement |
| TPT | - | Test Progress Tone |
| TQU | - | Trunk Query |
| TR | - | Trunk Register |
| TRANS | - | File Store Transient Data |
| TRANSP | - | Transparent |
| TRAPN | - | Trap Number |
| TRC | - | Timed Routine Coordinator |
| TRF | - | Traffic |
| TRIDX | - | Trunk Reservation Index |
| TRK | - | Trunk |
| TRNUM | - | Trouble Report Number |
| TRPF | - | Transmit Parity Failure |
| TSC | - | Technical Service Capability |
| TSF | - | Total Signal Failure |
| TSG | - | Trunk Subgroup |
| TSGBBC | - | Trunk Subgroup Broadband Capability |
| TSGHC | - | Trunk Subgroup Head Cell |
| TSGHS | - | Trunk Subgroup Headcell-Trunk Status |
| TSGN | - | Trunk Subgroup Number |
| TSI | - | Time Slot Interchange |
| TSIF | - | Time Slot Interchange Frame |
| TSMEM | - | Trunk Status Memory |
| TSN | - | Trunk Scanner Number |
| TSP | - | Translation Signaling Point |
| TSS | - | Trunk Status Store |

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**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| TST | - | Test (verb) |
| TST | - | Timed Strategy |
| TST | - | Trunk Scanner Tag |
| TSTADR | - | Test Address |
| TSTPAT | - | Test Pattern |
| TSVC | - | Type Of Service |
| TSW | - | Transmitter Seems Well |
| TSW | - | Trunk Scanner Word |
| TSW | - | Trunk Status Word |
| TTF | - | Toll Termination Frame |
| TTS | - | Toll Terminating Switch |
| TTS | - | Toll Terminating Switches |
| TTSI | - | Toll Terminating Switch Index |
| TTSM | - | Transmit Time-Slot Memory |
| TTY | - | Teletypewriter |
| TTYC | - | Teletypewriter Controller |
| TU | - | Tape Unit |
| TU | - | Trunk Unit |
| TUC | - | Tape Unit Controller |
| TURNUPC | - | Turn-Up For Control Office Trunk |
| TURNUPN | - | Turn-Up For Noncontrol Office Trunk |
| TUT | - | Trunk Under Test |
| TVMASTR | - | Televote Master |
| TWRP | - | Tape Writing Program |
| UAS | - | Unavailable Seconds |
| UAV | - | Unavailable |
| UC | - | Utility Circuit |
| UCB | - | Unit Control Block |
| UCL | - | Unconditional |
| UDPC | - | Unknown Destination Point Code |
| ULN | - | Universal Link Node |
| UMEM | - | Utility Memory |
| UNAS | - | Unassigned |
| UNEQ | - | Unequipped |
| UNEQIP | - | Unequipped |
| UNITNO | - | Unit Number |
| UNLBUF | - | Unload Buffer |
| UPA | - | Upper Protect Address |
| UPD | - | Update |
| USN | - | U-Store Number |
| USN | - | Universal Scanner Number |

**Table 2-6**
**Acronyms and Mnemonics (continued)**

| | | |
|---|---|---|
| USTATUS | - | Unit Status |
| UTILDS | - | Utility Data Sets |
| UTL | - | Utilities |
| UTMN | - | Unit Type and Member Number |
| UVDT | - | User View Descriptor Table |
| VCNT | - | Vacant Code Analysis |
| VDCAP | - | Voice/Data Capability |
| VF | - | Voice Frequency |
| VFL | - | Voice Frequency Link |
| VIC | - | Voice Interface Controller |
| VIF | - | Voiceband Interface Frame |
| VIFCR | - | Voiceband Interface Frame Critical |
| VIU | - | Voiceband Interface Unit |
| VLMM | - | Very Large Main Memory |
| VPA | - | Voice Path Assurance |
| VSN | - | Volume Serial Number |
| VSS | - | Voice Storage System |
| VSSID | - | Voice Storage System Identification |
| VTOC | - | Volume Table of Contents |
| WATS | - | Wide Area Telecommunications Service |
| WATSBN | - | Wide Area Telecommunications Service Billing Number |
| WER | - | Write Enable Ring |
| XC | - | Transceiver |
| XCPA | - | Transceiver Pad Adjustment |
| XTMTN | - | Transmission Terminating Test Number |
| XTMTT | - | Transmission Terminating Test Type |
| XTSI | - | Expanded Time Slot Interchange |
| XTSTN | - | Transmission Through Switch Test Number |
| XTSTT | - | Transmission Through Switch Test Type |

SEE PROPRIETARY NOTICE ON COVER PAGE

# SECTION 3

# INPUT MESSAGE INDEXES


| Section | Contents | Page |
|---|---|---|
| 3.1 | Introduction | 3-1 |
| 3.2 | Volume 1 Alphabetical Index | 3-1 |
| 3.3 | Volume 2 Alphabetical Index | 3-11 |
| 3.4 | Functional Index | 3-23 |


SEE PROPRIETARY NOTICE ON COVER PAGE

SEE PROPRIETARY NOTICE ON COVER PAGE

# SECTION 3

# INDEXES

## 3.1 INTRODUCTION

This section contains two types of indexes. The first lists the messages in alphabetical order by message name and gives release information, while the second lists the 4ESS™/APS input messages in terms of the 3B20D/3B21D units and/or functions to which they apply.

## 3.2 VOLUME 1 ALPHABETICAL INDEX

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| ABORT:AMATAPE | ABORT:AMATAPE | 4AP12 | 9.0 |
| ABORT:LFS | ABORT:LFS | 4AP12 | 9.0 |
| ACTV:DCC | ACTV:DCC | 4AP12 | 9.0 |
| ACTV:OMDB | ACTV:OMDB | 4AP12 | 9.0 |
| ADD:PAUTH | ADD:PAUTH | 4AP12 | 9.0 |
| ADD:PCGRP | ADD:PCGRP | 4AP12 | 9.0 |
| ADD:PROFL | ADD:PROFL | 4AP12 | 9.0 |
| ADD:TAUTH | ADD:TAUTH | 4AP12 | 9.0 |
| ADD:TCGRP | ADD:TCGRP | 4AP12 | 9.0 |
| ALW:ADB,APP IBGTT | ALW:ADB | 4AP12 | 9.0 |
| ALW:AIM;PROC | ALW:AIM | 4AP12 | 9.0 |
| ALW:AMA | ALW:AMA-AUTOST | 4AP12 | 9.0 |
| ALW:AMA | ALW:AMA-SESS | 4AP12 | 9.0 |
| ALW:AMA:SSPUNAS | ALW:AMA-SSPUNAS | 4AP12 | 9.1 |
| ALW:AUD | ALW:AUD | 4AP12 | 9.0 |
| ALW:CONFLOG | ALW:CONFLOG | 4AP12 | 9.0 |
| ALW:DCC | ALW:DCC | 4AP12 | 9.0 |
| ALW:DCNAUD | ALW:DCNAUD | 4AP14 | 9.0 |
| ALW:DLNAUD | ALW:DLNAUD | 4AP13 | 9.0 |
| ALW:DMQ | ALW:DMQ-A | 4AP12 | 9.0 |
| ALW DMQ | ALW:DMQ-B | 4AP16 | 9.0 |
| ALW:EAIINT | ALW:EAIINT | 4AP12 | 9.0 |
| ALW:ERRCHK | ALW:ERRCHK | 4AP12 | 9.0 |
| ALW:ERRINT | ALW:ERRINT | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| ALW:ERRSRC | ALW:ERRSRC | 4AP12 | 9.0 |
| ALW:FILESYS:ACCESS | ALW:F-ACCESS | 4AP12 | 9.0 |
| ALW:FILESYS:MOUNT | ALW:F-MOUNT | 4AP12 | 9.0 |
| ALW:FILESYS:OWNER | ALW:F-OWNER | 4AP12 | 9.0 |
| ALW:FTA | ALW:FTA | 4AP12 | 9.0 |
| ALW:HDWCHK | ALW:HDWCHK | 4AP12 | 9.0 |
| ALW:ICDR;SESSION | ALW:ICDR-SESSION | 4AP12 | 9.0 |
| ALW:RCV:APPDB | ALW:RCV-APPDB | 4AP13 | 9.0 |
| ALW:REX | ALW:REX | 4AP12 | 9.0 |
| ALW:REX:RPCD | ALW:REX-RPCD | 4AP12 | 9.0 |
| ALW:REX:RPCN | ALW:REX-RPCN | 4AP12 | 9.0 |
| ALW:RUTIL | ALW:RUTIL | 4AP12 | 9.0 |
| ALW:SCSD | ALW:SCSD | 4AP12 | 9.0 |
| ALW:SFTCHK | ALW:SFTCHK | 4AP12 | 9.0 |
| ALW:TRACE | ALW:TRACE | 4AP12 | 9.0 |
| ALW:TRAP | ALW:TRAP | 4AP12 | 9.0 |
| ALW:UMEM | ALW:UMEM | 4AP12 | 9.0 |
| ALW:UTIL | ALW:UTIL | 4AP12 | 9.0 |
| ALW:UTILFLAG | ALW:UTILFLAG | 4AP12 | 9.0 |
| APPLY:OMDB | APPLY:OMDB | 4AP12 | 9.0 |
| ATR:T1M | ATR:T1M | 4AP15 | 9.0 |
| AUD:AMARR 1 | AUD:AMARR-1 | 4AP12 | 9.0 |
| AUD:APDRV | AUD:APDRV | 4AP12 | 9.0 |
| AUD:ATP | AUD:ATP | 4AP13 | 9.0 |
| AUD:CNC 1 | AUD:CNC-1 | 4AP12 | 9.0 |
| AUD:CUMEM | AUD:CUMEM | 4AP12 | 9.0 |
| AUD:CUSTAT | AUD:CUSTAT | 4AP12 | 9.0 |
| AUD:DADC | AUD:DADC | 4AP12-APS | 9.0 |
| AUD:DCNAUD | AUD:DCNAUD | 4AP14 | 9.0 |
| AUD:DLN | AUD:DLN | 4AP12 | 9.0 |
| AUD:DLNCM | AUD:DLNCM | 4AP12 | 9.0 |
| AUD:ECD | AUD:ECD | 4AP12 | 9.0 |
| AUD:ECDOWN | AUD:ECDOWN | 4AP12 | 9.0 |
| AUD:FMGR | AUD:FMGR | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| AUD:FSBLK | AUD:FSBLK | 4AP12 | 9.1 |
| AUD:FSCMPT | AUD:FSCMPT | 4AP12 | 9.0 |
| AUD:FSLINK | AUD:FSLINK | 4AP12 | 9.0 |
| AUD:LKBDST 1 | AUD:LKBDST-1 | 4AP12 | 9.0 |
| AUD:MMGR | AUD:MMGR | 4AP12 | 9.0 |
| AUD:MSGBUF | AUD:MSGBUF | 4AP12 | 9.0 |
| AUD:NIDATA | AUD:NIDATA | 4AP12 | 9.0 |
| AUD:NMDATA | AUD:NMDATA | 4AP12 | 9.1 |
| AUD:NODEST | AUD:NODEST | 4AP12 | 9.0 |
| AUD:PMS | AUD:PMS | 4AP12 | 9.0 |
| AUD:PROAD 1 | AUD:PROAD-1 | 4AP12 | 9.0 |
| AUD:REMACS | AUD:REMACS | 4AP12 | 9.0 |
| AUD:TDAS | AUD:TDAS | 4AP12 | 9.0 |
| CFR:DADC | CFR:DADC | 4AP12 | 9.0 |
| CFR:DUPLEXDISKS | CFR:DUPLEXDISKS | 4AP17 | 9.1 |
| CFR:RING | CFR:RING | 4AP12 | 9.1 |
| CHG:GEN | CHG:GEN | 4AP12 | 9.0 |
| CHG:MRVT | CHG:MRVT | 4AP12 | 9.0 |
| CHG:PAUTH | CHG:PAUTH | 4AP12 | 9.0 |
| CHG:PROFL | CHG:PROFL | 4AP12 | 9.0 |
| CHG:SLK | CHG:SLK | 4AP12 | 9.0 |
| CHG:SRVT | CHG:SRVT | 4AP12 | 9.0 |
| CLR:ACKDB | CLR:ACKDB | 4AP12 | 9.0 |
| CLR:AIM;EVENT | CLR:AIM | 4AP12 | 9.0 |
| CLR:AMA | CLR:AMA-DISK | 4AP12 | 9.0 |
| CLR:DLNAP | CLR:DLNAP | 4AP12 | 9.0 |
| CLR:DLNESC | CLR:DLNESC | 4AP12 | 9.0 |
| CLR:DLNPANIC | CLR:DLNPANIC | 4AP12 | 9.0 |
| CLR:EMERDMP | CLR:EMERDMP | 4AP12 | 9.0 |
| CLR:FILESYS DIR | CLR:F-DIR | 4AP12 | 9.0 |
| CLR:FILESYS FILE | CLR:F-FILE | 4AP12 | 9.0 |
| CLR:FANALM | CLR:FANALM | 4AP12 | 9.0 |
| CLR:FSBUF | CLR:FSBUF | 4AP12 | 9.0 |
| CLR:IMCAT | CLR:IMCAT | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| CLR:IODRV | CLR:IODRV | 4AP12 | 9.0 |
| CLR:IOMEM | CLR:IOMEM | 4AP12 | 9.1 |
| CLR:MHD MAEC | CLR:MHD-MAEC | 4AP12 | 9.0 |
| CLR:PBUF | CLR:PBUF | 4AP12 | 9.0 |
| CLR:PTN | CLR:PTN | 4AP12 | 9.0 |
| CLR:RUTIL | CLR:RUTIL | 4AP12 | 9.0 |
| CLR:SRST | CLR:SRST | 4AP12 | 9.0 |
| CLR:T1M | CLR:T1M | 4AP15 | 9.0 |
| CLR:TDAS | CLR:TDAS | 4AP12 | 9.0 |
| CLR:UMEM | CLR:UMEM | 4AP12 | 9.0 |
| CLR:UTIL | CLR:UTIL | 4AP12 | 9.0 |
| CLR:UTILFLAG | CLR:UTILFLAG | 4AP12 | 9.0 |
| CMPR:DISK CORE | CMPR:D-CORE | 4AP12 | 9.0 |
| CMPR:MHD | CMPR:MHD | 4AP12 | 9.0 |
| CMPR:ODA | CMPR:ODA | 4AP19 | 9.3 |
| CONNECT:0 | CONNECT:0 | 4AP12 | 9.0 |
| COPY:ACTDISK | COPY:ACTDISK | 4AP12 | 9.0 |
| COPY:ADDR | COPY:ADDR | 4AP12 | 9.0 |
| COPY:AMATAPE | COPY:AMATAPE | 4AP12 | 9.0 |
| COPY:APPDB | COPY:APPDB | 4AP13 | 9.0 |
| COPY:APPFILE | COPY:APPFILE | 4AP15 | 9.0 |
| COPY:APPTAPE | COPY:APPTAPE | 4AP16 | 9.0 |
| COPY:BKDISK | COPY:BKDISK | 4AP12 | 9.1 |
| COPY:BKTAPE | COPY:BKTAPE | 4AP12 | 9.0 |
| COPY:DIFF MHD | COPY:DIFF-MHD | 4AP13 through 4AP15 | 9.0 |
| COPY:FILESYS:CFILE | COPY:F-CFILE | 4AP12 | 9.0 |
| COPY:FILESYS:FILE | COPY:F-FILE | 4AP12 | 9.0 |
| COPY:FSBUF | COPY:FSBUF | 4AP12 | 9.0 |
| COPY:LIBUF | COPY:LIBUF | 4AP12 | 9.0 |
| COPY:LSNC | COPY:LSNC | 4AP12 | 9.0 |
| COPY:OOSDISK | COPY:OOSDISK | 4AP12 | 9.0 |
| COPY:PTN ALL | COPY:P-ALL | 4AP12 | 9.1 |
| COPY:PBUF | COPY:PBUF | 4AP12 | 9.0 |
| COPY:PID | COPY:PID | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| COPY:REG | COPY:REG | 4AP12 | 9.0 |
| COPY:SPDISK | COPY:SPDISK | 4AP12 | 9.0 |
| COPY:TAPE:EMERDMP | COPY:T-EMERDMP | 4AP12 | 9.0 |
| COPY:TAPE:IN | COPY:T-IN | 4AP12 | 9.0 |
| COPY:TAPE:OUT | COPY:T-OUT | 4AP12 | 9.0 |
| COPY:TAPE:TEST | COPY:T-TEST | 4AP12 | 9.0 |
| COPY:TAPE:TOP | COPY:T-TOP | 4AP14 | 9.2 |
| COPY:UID | COPY:UID | 4AP12 | 9.0 |
| COPY:UPDATE | COPY:UPDATE | 4AP16 | 9.0 |
| COPY:UVAR | COPY:UVAR | 4AP12 | 9.0 |
| DEACTV:DCC | DEACTV:DCC | 4AP12 | 9.0 |
| DEL:LOG | DEL:LOG | 4AP12 | 9.0 |
| DEL:PAUTH | DEL:PAUTH | 4AP12 | 9.0 |
| DEL:PCGRP | DEL:PCGRP | 4AP12 | 9.0 |
| DEL:PROFL | DEL:PROFL | 4AP12 | 9.0 |
| DEL:TAUTH | DEL:TAUTH | 4AP12 | 9.0 |
| DEL:TCGRP | DEL:TCGRP | 4AP12 | 9.0 |
| DGN:API | DGN:API | 4AP12 | 9.0 |
| DGN:CU | DGN:CU | 4AP12 | 9.0 |
| DGN:DCI | DGN:DCI | 4AP12 | 9.0 |
| DGN:DFC | DGN:DFC | 4AP12 | 9.0 |
| DGN:DUIC | DGN:DUIC | 4AP12 | 9.0 |
| DGN:HSDC | DGN:HSDC | 4AP12 | 9.0 |
| DGN:IOP | DGN:IOP | 4AP12 | 9.0 |
| DGN:LN | DGN:LN | 4AP15 | 9.0 |
| DGN:MHD | DGN:MHD | 4AP12 | 9.0 |
| DGN:MT | DGN:MT | 4AP12 | 9.0 |
| DGN:MTC | DGN:MTC | 4AP12 | 9.0 |
| DGN:MTTYC | DGN:MTTYC | 4AP12 | 9.0 |
| DGN:RPCN | DGN:RPCN | 4AP12 | 9.0 |
| DGN:SCSDC | DGN:SCSDC | 4AP12 | 9.0 |
| DGN:SDLC | DGN:SDLC | 4AP12 | 9.0 |
| DGN:TTYC | DGN:TTYC | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| DISCONNECT:0 | DISCONNECT:0 | 4AP12 | 9.0 |
| DUMP:ADDR | DUMP:ADDR-A | 4AP12 | 9.0 |
| DUMP:ADDR | DUMP:ADDR-B | 4AP12 | 9.0 |
| DUMP:AIM;PRMBUF | DUMP:AIM | 4AP12 | 9.0 |
| DUMP:BKTAPE | DUMP:BKTAPE | 4AP12 | 9.0 |
| DUMP:BWM | DUMP:BWM | 4AP12 | 9.0 |
| DUMP:CACHE | DUMP:CACHE | 4AP12 | 9.0 |
| DUMP:FILE:ALL | DUMP:F-ALL | 4AP12 | 9.0 |
| DUMP:FILE:FORMAT | DUMP:F-FORMAT | 4AP12 | 9.0 |
| DUMP:FILE:PARTL | DUMP:F-PARTL | 4AP12 | 9.0 |
| DUMP:FSA | DUMP:FSA | 4AP13 | 9.0 |
| DUMP:FSBUF | DUMP:FSBUF | 4AP12 | 9.0 |
| DUMP:KERN | DUMP:KERN | 4AP12 | 9.0 |
| DUMP:MHD | DUMP:MHD-BLK | 4AP12 | 9.0 |
| DUMP:MHD DEFECT | DUMP:MHD-DEF | 4AP12 | 9.1 |
| DUMP:MHD | DUMP:MHD-VTO | 4AP12 | 9.0 |
| DUMP:MMA | DUMP:MMA | 4AP13 | 9.0 |
| DUMP:PBUF | DUMP:PBUF | 4AP12 | 9.0 |
| DUMP:PID | DUMP:PID | 4AP12 | 9.0 |
| DUMP:PMEM | DUMP:PMEM | 4AP12 | 9.0 |
| DUMP:REG | DUMP:REG-A | 4AP12 | 9.0 |
| DUMP:REG | DUMP:REG-B | 4AP12 | 9.0 |
| DUMP:RNA | DUMP:RNA | 4AP12 | 9.0 |
| DUMP:RUTIL | DUMP:RUTIL | 4AP12 | 9.0 |
| DUMP:SCP | DUMP:SCP | 4AP12 | 9.0 |
| DUMP:SMEAS | DUMP:SMEAS | 4AP14 | 9.0 |
| DUMP:TAPE | DUMP:TAPE | 4AP12 | 9.0 |
| DUMP:TDAS | DUMP:TDAS | 4AP12 | 9.0 |
| DUMP:UID | DUMP:UID | 4AP12 | 9.0 |
| DUMP:UVAR | DUMP:UVAR | 4AP12 | 9.0 |
| END:WHEN | END:WHEN | 4AP12 | 9.0 |
| EX:CU | EX:CU | 4AP12 | 9.0 |
| EX:DCI | EX:DCI | 4AP12 | 9.0 |
| EX:DFC | EX:DFC | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| EX:DUIC | EX:DUIC | 4AP12 | 9.0 |
| EX:HSDC | EX:HSDC | 4AP12 | 9.0 |
| EX:IOP | EX:IOP | 4AP12 | 9.0 |
| EX:LDPARM | EX:LDPARM | 4AP12 | 9.0 |
| EX:LN | EX:LN | 4AP12 | 9.0 |
| EX:LOOP | EX:LOOP | 4AP12 | 9.0 |
| EX:MHD | EX:MHD | 4AP12 | 9.0 |
| EX MT | EX:MT | 4AP12 | 9.0 |
| EX:MTC | EX:MTC | 4AP12 | 9.0 |
| EX:MTTYC | EX:MTTYC | 4AP12 | 9.0 |
| EX PAUSE | EX:PAUSE | 4AP12 | 9.0 |
| EX:RPCN | EX:RPCN | 4AP12 | 9.0 |
| EX:SCSDC | EX:SCSDC | 4AP12 | 9.0 |
| EX SDLC | EX:SDLC | 4AP12 | 9.0 |
| EX:STEP | EX:STEP | 4AP12 | 9.0 |
| EX:STOP | EX:STOP | 4AP12 | 9.0 |
| EX:TTYC | EX:TTYC | 4AP12 | 9.0 |
| EXC:AIM | EXC:AIM | 4AP12 | 9.0 |
| EXC:ENVIR:PROC | EXC:E-PROC | 4AP12 | 9.0 |
| EXC:ENVIR:UPROC | EXC:E-UPROC | 4AP12 | 9.0 |
| EXC:LFS | EXC:LFS | 4AP12 | 9.0 |
| EXC:LID0 | EXC:LID0 | 4AP12 | 9.0 |
| EXC:MRVT | EXC:MRVT | 4AP12 | 9.0 |
| EXC:OFLBOOT | EXC:OFLBOOT | 4AP12 | 9.1 |
| EXC:QCOPY | EXC:QCOPY | 4AP12 | 9.0 |
| EXC:SRVT | EXC:SRVT | 4AP12 | 9.3 |
| EXC:T1M | EXC:T1M | 4AP15 | 9.0 |
| EXC:UCL | EXC:UCL | 4AP12 | 9.0 |
| FLUSH:NVTREC | FLUSH:NVTREC | 4AP12 | 9.0 |
| FRMV:LN | FRMV:LN | 4AP12 | 9.0 |
| IN:ACTOW | IN:ACTOW | 4AP21 | 9.4.1 |
| IN:DTIME | IN:DTIME | 4AP12 | 9.0 |
| IN:FILE:APND | IN:F-APND | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| IN:FILE DEL | IN:F-DEL | 4AP12 | 9.0 |
| IN:FILE:REPL | IN:F-REPL | 4AP12 | 9.0 |
| IN:FILESYS:DIR | IN:FI-DIR | 4AP12 | 9.0 |
| IN:FSBUF | IN:FSBUF | 4AP12 | 9.0 |
| IN:OSOW | IN:OSOW | 4AP21 | 9.4.1 |
| IN:PBUF | IN:PBUF | 4AP12 | 9.0 |
| IN:REMOTE:REPT | IN:REM-REPT | 4AP12 | 9.0 |
| IN:REMOTE:START | IN:REM-START | 4AP12 | 9.0 |
| IN:REMOTE:STOP | IN:REM-STOP | 4AP12 | 9.0 |
| IN:TDAS | IN:TDAS | 4AP12 | 9.0 |
| IN:XFER | IN:XFER | 4AP13 | 9.0 |
| INH:ADB,APP IBGTT | INH:ADB | 4AP12 | 9.0 |
| INH:AIM;PROC | INH:AIM | 4AP12 | 9.0 |
| INH:AMA | INH:AMA-AUTOST | 4AP12 | 9.0 |
| INH:AMA | INH:AMA-SESS | 4AP12 | 9.0 |
| INH:AMA:SSPUNAS | INH:AMA-SSPUNAS | 4AP12 | 9.1 |
| INH:AUD | INH:AUD | 4AP12 | 9.0 |
| INH:CONFLOG | INH:CONFLOG | 4AP12 | 9.0 |
| INH:DCC | INH:DCC | 4AP12 | 9.0 |
| INH:DCNAUD | INH:DCNAUD | 4AP14 | 9.0 |
| INH:DLNAUD | INH:DLNAUD | 4AP13 | 9.0 |
| INH:DMQ | INH:DMQ-A | 4AP12 | 9.0 |
| INH DMQ | INH:DMQ-B | 4AP16 | 9.0 |
| INH:EAIINT | INH:EAIINT | 4AP12 | 9.0 |
| INH:ERRCHK | INH:ERRCHK | 4AP12 | 9.0 |
| INH:ERRINT | INH:ERRINT | 4AP12 | 9.0 |
| INH:ERRSRC | INH:ERRSRC | 4AP12 | 9.0 |
| INH:FILESYS:UMOUNT | INH:F-UMOUNT | 4AP12 | 9.0 |
| INH:FTA | INH:FTA | 4AP12 | 9.0 |
| INH:HDWCHK | INH:HDWCHK | 4AP12 | 9.0 |
| INH:ICDR;SESSION | INH:ICDR-SESSION | 4AP12 | 9.0 |
| INH:IMSMEAS | INH:IMSMEAS | 4AP12 | 9.0 |
| INH:PSLT | INH:PSLT | 4AP12 | 9.0 |
| INH:RCV | INH:RCV | 4AP15 | 9.0 |
| INH:RCV:APPDB | INH:RCV-APPDB | 4AP13 | 9.0 |
| INH:REPORT | INH:REPORT | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| INH:REX | INH:REX | 4AP12 | 9.0 |
| INH:REX:RPCD | INH:REX-RPCD | 4AP12 | 9.0 |
| INH:REX:RPCN | INH:REX-RPCN | 4AP12 | 9.0 |
| INH:RMV | INH:RMV | 4AP12 | 9.0 |
| INH:RUTIL | INH:RUTIL | 4AP12 | 9.0 |
| INH:SCSD | INH:SCSD | 4AP12 | 9.0 |
| INH:SFTCHK | INH:SFTCHK | 4AP12 | 9.0 |
| INH:SLK | INH:SLK | 4AP12 | 9.0 |
| INH:TRACE | INH:TRACE | 4AP12 | 9.0 |
| INH:TRAP | INH:TRAP | 4AP12 | 9.0 |
| INH:UMEM | INH:UMEM | 4AP12 | 9.0 |
| INH:UTIL | INH:UTIL | 4AP12 | 9.0 |
| INH:UTILFLAG | INH:UTILFLAG | 4AP12 | 9.0 |
| INIT:APDRV | INIT:APDRV | 4AP12 | 9.0 |
| INIT:APPDB | INIT:APPDB | 4AP12 | 9.0 |
| INIT:ATPCM | INIT:ATPCM | 4AP13 | 9.0 |
| INIT:CIFMT | INIT:CIFMT | 4AP20 | 9.4 |
| INIT:DLNCM | INIT:DLNCM | 4AP12 | 9.0 |
| INIT:DMS | INIT:DMS | 4AP12 | 9.0 |
| INIT:GTT | INIT:GTT | 4AP12 | 9.0 |
| INIT:LN | INIT:LN | 4AP12 | 9.0 |
| INIT:MHD | INIT:MHD | 4AP12 | 9.0 |
| INIT:RING | INIT:RING | 4AP12 | 9.0 |
| INIT:RTM | INIT:RTM | 4AP12 | 9.0 |
| INIT:UC | INIT:UC | 4AP12 | 9.0 |
| INIT:ULARP | INIT:ULARP | 4AP12 | 9.0 |
| INIT:UMEM | INIT:UMEM | 4AP12 | 9.0 |
| LKC:SLK | LKC:SLK | 4AP12 | 9.0 |
| LOAD:ADDR | LOAD:ADDR-A | 4AP12 | 9.1 |
| LOAD:ADDR | LOAD:ADDR-B | 4AP12 | 9.0 |
| LOAD:APPTAPE | LOAD:APPTAPE | 4AP16 | 9.0 |
| LOAD:BYTE | LOAD:BYTE | 4AP12 | 9.0 |
| LOAD:DFC PUMP | LOAD:DFC-PUMP | 4AP14 | 9.1 |
| LOAD:DFC RAM | LOAD:DFC-RAM | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 1 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| LOAD:GULP | LOAD:GULP | 4AP16 | 9.1 |
| LOAD:MHD DEFECT | LOAD:MHD-DEFECT | 4AP12 | 9.0 |
| LOAD:MHD FIRMWARE | LOAD:MHD-FIRM | 4AP12 | 9.0 |
| LOAD:PMEM | LOAD:PMEM | 4AP12 | 9.0 |
| LOAD:REG | LOAD:REG-A | 4AP12 | 9.0 |
| LOAD:REG | LOAD:REG-B | 4AP12 | 9.0 |
| LOAD:RNA | LOAD:RNA | 4AP12 | 9.0 |
| LOAD:RUTIL | LOAD:RUTIL | 4AP12 | 9.0 |
| LOAD:SHORT | LOAD:SHORT | 4AP12 | 9.0 |
| LOAD:TLP | LOAD:TLP | 4AP18 | 9.2 |
| LOAD:UPDATE | LOAD:UPDATE | 4AP16 | 9.2 |
| LOAD:UPDATE:ABORT | LOAD:UPDATE-ABORT | 4AP12 | 9.0 |
| LOAD:UPDATE:CONT | LOAD:UPDATE-CONT | 4AP16 | 9.0 |
| LOAD:UPDATE:DIFF | LOAD:UPDATE-DIFF | 4AP12 | 9.0 |
| LOAD:UPDATE:GEN | LOAD:UPDATE-GEN | 4AP16 | 9.0 |
| LOAD:UPDATE:MAP | LOAD:UPDATE-MAP | 4AP12 | 9.0 |
| LOAD:UPDATE:NWM | LOAD:UPDATE-NWM | 4AP16 | 9.0 |
| LOAD:UPDATE:ODA | LOAD:UPDATE-ODA | 4AP16 | 9.0 |
| LOAD:UPDATE:SKIP | LOAD:UPDATE-SKIP | 4AP12 | 9.0 |
| LOAD:UPDATE:SR | LOAD:UPDATE-SR | 4AP16 | 9.2 |
| LOAD:UVAR | LOAD:UVAR | 4AP12 | 9.0 |
| LOAD:WORD | LOAD:WORD | 4AP12 | 9.0 |
| MON:SLK | MON:SLK | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

### 3.3 VOLUME 2 ALPHABETICAL INDEX

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:ACT | OP:ACT | 4AP12 | 9.0 |
| OP:ABD | OP:ABD | 4AP17 | 9.1 |
| OP:ADB,APP IBGTT | OP:ADB | 4AP12 | 9.0 |
| OP:AIM | OP:AIM | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-CNTLFIL | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-CONFIG | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-DISK | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-MAPS | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-PTRS | 4AP12 | 9.0 |
| OP:AMA;RC | OP:AMA-RC | 4AP14 | 9.0 |
| OP:AMA:RECSRCH | OP:AMA-RECSRCH | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-SESSION | 4AP12 | 9.0 |
| OP:AMA:SRCH | OP:AMA-SRCH | 4AP12 | 9.0 |
| OP:AMA:SSPUNAS | OP:AMA-SSPUNAS | 4AP12 | 9.1 |
| OP:AMA;STATUS | OP:AMA-STAT | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-STREAM | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-SUMMARY | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-TELE | 4AP12 | 9.0 |
| OP:APPFILE | OP:APPFILE | 4AP16 | 9.0 |
| OP:APPLOAD | OP:APPLOAD | 4AP16 | 9.0 |
| OP:ATPCM | OP:ATPCM | 4AP13 | 9.0 |
| OP:AUD | OP:AUD | 4AP12 | 9.0 |
| OP:AUDERR | OP:AUDERR | 4AP12 | 9.0 |
| OP:C7NET | OP:C7NET-A | 4AP12 | 9.0 |
| OP:C7NET | OP:C7NET-B | 4AP14 | 9.1 |
| OP:CFGSTAT | OP:CFGSTAT | 4AP12 | 9.0 |
| OP:CFT | OP:CFT | 4AP18 | 9.3 |
| OP:CLK | OP:CLK | 4AP12 | 9.0 |
| OP:DCC | OP:DCC | 4AP12 | 9.0 |
| OP:DCNAUD | OP:DCNAUD | 4AP14 | 9.0 |
| OP:DCNAUDERR | OP:DCNAUDERR | 4AP14 | 9.0 |
| OP:DFC INFO | OP:DFC-INFO | 4AP12 | 9.0 |
| OP:DFCELOG | OP:DFCELOG | 4AP12 | 9.0 |
| OP:DLNAUD | OP:DLNAUD | 4AP13 | 9.0 |
| OP:DLNCM | OP:DLNCM | 4AP12 | 9.0 |
| OP:DLNESC | OP:DLNESC | 4AP12 | 9.0 |
| OP:DMQ | OP:DMQ | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:DMSORDERS | OP:DMSORDERS | 4AP12 | 9.0 |
| OP:DNHRMEAS | OP:DNHRMEAS | 4AP12 | 9.0 |
| OP:EMERSTAT | OP:EMERSTAT | 4AP12 | 9.0 |
| OP:ERRCHK | OP:ERRCHK | 4AP12 | 9.0 |
| OP:FNAME | OP:FNAME | 4AP12 | 9.1 |
| OP:FTA | OP:FTA | 4AP12 | 9.0 |
| OP:FTF | OP:FTF | 4AP12 | 9.0 |
| OP:GEN | OP:G-READLOG | 4AP12 | 9.0 |
| OP:GROW | OP:GROW | 4AP12 | 9.0 |
| OP:ICDR;CONFIG | OP:ICDR-CONFIG | 4AP12 | 9.0 |
| OP:ICDR;CONTROLFILE | OP:ICDR-CONTROL | 4AP12 | 9.0 |
| OP:ICDR;DISK | OP:ICDR-DISK | 4AP12 | 9.0 |
| OP:ICDR;MAPS | OP:ICDR-MAPS | 4AP12 | 9.0 |
| OP:ICDR;RECORDING | OP:ICDR-RECORD | 4AP12 | 9.0 |
| OP:ICDR;SESSION | OP:ICDR-SESSION | 4AP12 | 9.0 |
| OP:ICDR;TELEPROCESSING | OP:ICDR-TELE | 4AP12 | 9.0 |
| OP:INH:APPDB | OP:INH-APPDB | 4AP12 | 9.0 |
| OP:INIT | OP:INIT | 4AP12 | 9.0 |
| OP:IODRV | OP:IODRV | 4AP12 | 9.0 |
| OP:IOP INFO | OP:IOP-INFO | 4AP17 | 9.3 |
| OP:LFS | OP:LFS | 4AP12 | 9.0 |
| OP:LIBUF | OP:LIBUF | 4AP12 | 9.0 |
| OP:LNSTAT | OP:LNSTAT | 4AP12 | 9.0 |
| OP:LOG | OP:LOG | 4AP12 | 9.0 |
| OP:MEMERRS | OP:MEMERRS | 4AP12 | 9.0 |
| OP:MHD INFO | OP:MHD-INFO | 4AP12 | 9.0 |
| OP:MT INFO | OP:MT-INFO | 4AP12 | 9.0 |
| OP:NODES | OP:NODES | 4AP16 | 9.1 |
| OP:NPMEM | OP:NPMEM | 4AP12 | 9.0 |
| OP:OFL | OP:OFL | 4AP12 | 9.0 |
| OP:OMDB | OP:OMDB | 4AP13 | 9.0 |
| OP:OOS | OP:OOS | 4AP12 | 9.0 |
| OP:OUTCLS | OP:OUTCLS | 4AP12 | 9.0 |
| OP:PERFMEAS | OP:PERFMEAS | 4AP12 | 9.0 |
| OP:PERFRPT | OP:PERFRPT | 4AP12 | 9.0 |
| OP:PLNTSUM | OP:PLNTSUM | 4AP12 | 9.0 |
| OP:PMCR | OP:PMCR | 4AP12 | 9.0 |
| OP:RCAS | OP:RCAS | 4AP13 | 9.0 |
| OP:REXINH | OP:REXINH | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:RING | OP:RING | 4AP12 | 9.0 |
| OP:RTM | OP:RTM | 4AP12 | 9.0 |
| OP:RUTIL | OP:RUTIL | 4AP12 | 9.0 |
| OP:SCHD | OP:SCHD | 4AP12 | 9.0 |
| OP:SCSD | OP:SCSD | 4AP12 | 9.0 |
| OP:SDC | OP:SDC | 4AP12 | 9.0 |
| OP:SLK | OP:SLK | 4AP12 | 9.1 |
| OP:SMR | OP:SMR | 4AP15 | 9.0 |
| OP:SNAT | OP:SNAT | 4AP12 | 9.0 |
| OP:STATUS:DISKUSE | OP:ST-DISKUSE | 4AP12 | 9.0 |
| OP:STATUS:FILESYS | OP:ST-FILESYS | 4AP12 | 9.0 |
| OP:STATUS:FREEDISK | OP:ST-FRDISK | 4AP12 | 9.0 |
| OP:STATUS:LISTDIR | OP:ST-LSTDIR | 4AP12 | 9.0 |
| OP:STATUS:NSC | OP:ST-NSC | 4AP12 | 9.0 |
| OP:STATUS:PORTS | OP:ST-PORTS | 4AP12 | 9.0 |
| OP:STATUS:PROCESS | OP:ST-PROC | 4AP12 | 9.0 |
| OP:STATUS:SUM | OP:ST-SUM | 4AP12 | 9.0 |
| OP:STBY | OP:STBY | 4AP12 | 9.0 |
| OP:T1M | OP:T1M | 4AP15 | 9.0 |
| OP:TPC | OP:TPC | 4AP12 | 9.0 |
| OP:TRACE | OP:TRACE | 4AP12 | 9.0 |
| OP:TRAP | OP:TRAP | 4AP12 | 9.0 |
| OP:TSC | OP:TSC | 4AP12 | 9.0 |
| OP:ULARP:COMMAND | OP:ULARP-COM | 4AP12 | 9.0 |
| OP:ULARP:EXECSEQ | OP:ULARP-EXEC | 4AP12 | 9.0 |
| OP:ULARP:PROCESS | OP:ULARP-PROC | 4AP12 | 9.0 |
| OP:UMEM | OP:UMEM | 4AP12 | 9.0 |
| OP:UNAV | OP:UNAV | 4AP12 | 9.0 |
| OP:UNEQIP | OP:UNEQIP | 4AP12 | 9.0 |
| OP:UPD | OP:UPD | 4AP13 | 9.0 |
| OP:UTIL | OP:UTIL | 4AP12 | 9.0 |
| OP:VERSION | OP:VERSION | 4AP13 | 9.0 |
| OP:VTOP | OP:VTOP | 4AP12 | 9.0 |
| ORD:SCSD | ORD:SCSD | 4AP12 | 9.0 |
| PUMP:ATP | PUMP:ATP | 4AP13 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| RC:GTT | RC:GTT | 4AP12 | 9.0 |
| RC:MISC;FHT,FTA | RC:MISC-FHT-FTA | 4AP12 | 9.0 |
| RC:PCP;CHG | RC:PCP-CHG | 4AP12 | 9.0 |
| RCV:DMTECD RC | RCV:DMTE-RC | 4AP12 | 9.1 |
| RCV:DMTECD VFY | RCV:DMTE-VFY | 4AP12 | 9.0 |
| RCV:DMTSG RC | RCV:DMTS-RC | 4AP12 | 9.1 |
| RCV:DMTSG VFY | RCV:DMTS-VFY | 4AP12 | 9.0 |
| RCV:MENU:BROWSE | RCV:M-BROWSE | 4AP12 | 9.0 |
| RCV:MENU:COMPAREDB | RCV:M-CMPRDB | 4AP18 | 9.3 |
| RCV:MENU:CREATEECD | RCV:M-CREATEECD | 4AP12 | 9.0 |
| RCV:MENU:CREATESG | RCV:M-CREATESG | 4AP12 | 9.0 |
| RCV:MENU:EVOL | RCV:M-EVOL | 4AP12 | 9.0 |
| RCV:MENU:FDIFF | RCV:M-FDIFF | 4AP12 | 9.0 |
| RCV:MENU:KEYCMP | RCV:M-KEYCMP | 4AP12 | 9.0 |
| RCV:MENU:KEYCOMM | RCV:M-KEYCOMM | 4AP12 | 9.0 |
| RCV:MENU:KEYS | RCV:M-KEYS | 4AP12 | 9.0 |
| RCV:MENU:LOADF3B | RCV:M-LOADF3B | 4AP12 | 9.0 |
| RCV:MENU:NEWDB | RCV:M-NEWDB | 4AP18 | 9.3 |
| RCV:MENU:PRINTDB | RCV:M-PRINTDB | 4AP12 | 9.0 |
| RCV:MENU:PRINTFRM | RCV:M-PRINTFRM | 4AP12 | 9.0 |
| RCV:MENU:RCVECD | RCV:M-RCVECD | 4AP12 | 9.0 |
| RCV:MENU:RCVSG | RCV:M-RCVSG | 4AP12 | 9.0 |
| RCV:MENU:TRANSGEN | RCV:M-TRANSGEN | 4AP12 | 9.0 |
| RCV:MENU:TREEBLD | RCV:M-TREEBLD | 4AP12 | 9.0 |
| RCV:MENU:VFYDFLT | RCV:M-VFYDFLT | 4AP12 | 9.0 |
| REKEY:SLK | REKEY:SLK | 4AP12 | 9.0 |
| REPT:SLK INHALM | REPT:SLK-INHALM | 4AP12 | 9.0 |
| RFT:ABORT | RFT:ABORT | 4AP12 | 9.0 |
| RFT:BEGINPOST | RFT:BEGINPOST | 4AP12 | 9.0 |
| RFT:FDUMP | RFT:FDUMP | 4AP12 | 9.0 |
| RFT:PRINT | RFT:PRINT | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| RMV:CU | RMV:CU | 4AP12 | 9.0 |
| RMV:DCI | RMV:DCI | 4AP12 | 9.0 |
| RMV:DFC | RMV:DFC | 4AP12 | 9.0 |
| RMV:DUI | RMV:DUI | 4AP12 | 9.0 |
| RMV:DUIC | RMV:DUIC | 4AP12 | 9.0 |
| RMV:HSD | RMV:HSD | 4AP12 | 9.0 |
| RMV:HSDC | RMV:HSDC | 4AP12 | 9.0 |
| RMV:IOP | RMV:IOP | 4AP12 | 9.0 |
| RMV:LN | RMV:LN | 4AP12 | 9.0 |
| RMV:MHD | RMV:MHD | 4AP12 | 9.0 |
| RMV:MT | RMV:MT | 4AP12 | 9.0 |
| RMV:MTC | RMV:MTC | 4AP12 | 9.0 |
| RMV:MTTY | RMV:MTTY | 4AP12 | 9.0 |
| RMV:MTTYC | RMV:MTTYC | 4AP12 | 9.0 |
| RMV:ROP | RMV:ROP | 4AP12 | 9.0 |
| RMV:RPCN | RMV:RPCN | 4AP12 | 9.0 |
| RMV:SBUS | RMV:SBUS | 4AP12 | 9.0 |
| RMV:SCC | RMV:SCC | 4AP12 | 9.0 |
| RMV:SCSDC | RMV:SCSDC | 4AP12 | 9.0 |
| RMV:SDL | RMV:SDL | 4AP12 | 9.0 |
| RMV:SDLC | RMV:SDLC | 4AP12 | 9.0 |
| RMV:TTY | RMV:TTY | 4AP12 | 9.0 |
| RMV:TTYC | RMV:TTYC | 4AP12 | 9.0 |
| RNM:PSSWD | RNM:PSSWD | 4AP12 | 9.0 |
| RST:CU | RST:CU | 4AP12 | 9.0 |
| RST:DCI | RST:DCI | 4AP12 | 9.0 |
| RST:DFC | RST:DFC | 4AP12 | 9.0 |
| RST:DUI | RST:DUI | 4AP12 | 9.0 |
| RST:DUIC | RST:DUIC | 4AP12 | 9.0 |
| RST:EAI | RST:EAI | 4AP12 | 9.0 |
| RST:HSD | RST:HSD | 4AP12 | 9.0 |
| RST:HSDC | RST:HSDC | 4AP12 | 9.0 |
| RST:IOP | RST:IOP | 4AP12 | 9.0 |
| RST:LN | RST:LN | 4AP12 | 9.0 |
| RST:MHD | RST:MHD | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| RST:MT | RST:MT | 4AP12 | 9.0 |
| RST:MTC | RST:MTC | 4AP12 | 9.0 |
| RST:MTTY | RST:MTTY | 4AP12 | 9.0 |
| RST:MTTYC | RST:MTTYC | 4AP12 | 9.0 |
| RST:ROP | RST:ROP | 4AP12 | 9.0 |
| RST:RPCN | RST:RPCN | 4AP12 | 9.0 |
| RST:SBUS | RST:SBUS | 4AP12 | 9.0 |
| RST:SCC | RST:SCC | 4AP12 | 9.0 |
| RST:SCSDC | RST:SCSDC | 4AP12 | 9.0 |
| RST:SDL | RST:SDL | 4AP12 | 9.0 |
| RST:SDLC | RST:SDLC | 4AP12 | 9.0 |
| RST:TTY | RST:TTY | 4AP12 | 9.0 |
| RST:TTYC | RST:TTYC | 4AP12 | 9.0 |
| SEND:0 | SEND:0 | 4AP12 | 9.0 |
| SET:AMA | SET:AMA-CONFIG | 4AP12 | 9.0 |
| SET:AMA;CONTROL | SET:AMA-CONTROL | 4AP12 | 9.0 |
| SET:AMA;RC | SET:AMA-RC | 4AP14 | 9.0 |
| SET:AMA | SET:AMA-RECMODE | 4AP12 | 9.0 |
| SET:AMA | SET:AMA-STREAM | 4AP12 | 9.0 |
| SET:CLK | SET:CLK | 4AP12 | 9.0 |
| SET:DLNAP | SET:DLNAP | 4AP12 | 9.0 |
| SET:DLNPANIC | SET:DLNPANIC | 4AP12 | 9.0 |
| SET:ICDR;CONFIG | SET:ICDR-CONFIG | 4AP12 | 9.0 |
| SET:ICDR;CONTROL | SET:ICDR-CONTROL | 4AP12 | 9.0 |
| SET:ICDR;RECORDING | SET:ICDR-RECORD | 4AP12 | 9.0 |
| SET:IODRV | SET:IODRV | 4AP12 | 9.0 |
| SET:LFS | SET:LFS | 4AP12 | 9.0 |
| SET:T1M | SET:T1M | 4AP15 | 9.0 |
| SET:TRACE | SET:TRACE | 4AP12 | 9.0 |
| SET:TRAP | SET:TRAP | 4AP12 | 9.0 |
| SET:TSC | SET:TSC | 4AP12 | 9.0 |
| START:ADB,APP IBGTT | START:ADB | 4AP12 | 9.0 |
| START:CRCUPD | START:CRCUPD | 4AP13 | 9.0 |
| START:DADC | START:DADC | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| START:DCC | START:DCC | 4AP12R4 | 9.1 |
| START:DLNCM,STREAM | START:DLNCM | 4AP12 | 9.0 |
| START:EVENTSESS | START:EVENTSESS | 4AP12 | 9.0 |
| START:FTA | START:FTA | 4AP12 | 9.0 |
| START:NVTSESS | START:NVTSESS | 4AP14 | 9.0 |
| START:PING | START:PING | 4AP14 | 9.0 |
| START:RCBUFGET | START:RCBUFGET | 4AP13 | 9.0 |
| START:RCBUFPUT | START:RCBUFPUT | 4AP13 | 9.0 |
| STOP:ADB,APP IBGTT | STOP:ADB | 4AP12 | 9.0 |
| STOP:AIM;PROC | STOP:AIM | 4AP12 | 9.0 |
| STOP:AMATAPE | STOP:AMATAPE | 4AP12 | 9.0 |
| STOP:ATPAUD | STOP:ATPAUD | 4AP13 | 9.0 |
| STOP:ATPCM | STOP:ATPCM | 4AP13 | 9.0 |
| STOP:AUD | STOP:AUD | 4AP12 | 9.0 |
| STOP:BKDISK | STOP:BKDISK | 4AP12 | 9.0 |
| STOP:CMPR MHD | STOP:CMPR-MHD | 4AP12 | 9.0 |
| STOP:COPY DIFF | STOP:COPY-DIFF | 4AP12 | 9.0 |
| STOP:DADC | STOP:DADC | 4AP12 | 9.0 |
| STOP:DCC | STOP:DCC | 4AP12 | 9.0 |
| STOP:DCI | STOP:DCI | 4AP12 | 9.0 |
| STOP:DCNAUD | STOP:DCNAUD | 4AP14 | 9.0 |
| STOP:DLNCM,STREAM | STOP:DLNCM | 4AP12 | 9.0 |
| STOP:DMQ | STOP:DMQ | 4AP12 | 9.0 |
| STOP:EXC ANY | STOP:E-ANY | 4AP12 | 9.0 |
| STOP:EXC:USER | STOP:E-USER | 4AP12 | 9.0 |
| STOP:EVENTSESS | STOP:EVENTSESS | 4AP12 | 9.0 |
| STOP:FTA | STOP:FTA | 4AP12 | 9.0 |
| STOP:GEN | STOP:GEN | 4AP12 | 9.0 |
| STOP:LFS | STOP:LFS | 4AP12 | 9.0 |
| STOP:NVTSESS | STOP:NVTSESS | 4AP12 | 9.0 |
| STOP:OFLBOOT | STOP:OFLBOOT | 4AP12 | 9.0 |
| STOP:RCBUFGET | STOP:RCBUFGET | 4AP13 | 9.0 |
| STOP:RCBUFPUT | STOP:RCBUFPUT | 4AP13 | 9.0 |
| STOP:TRAP | STOP:TRAP | 4AP12 | 9.1 |
| STOP:UPD | STOP:UPD | 4AP13 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| SW:ATP | SW:ATP | 4AP13 | 9.0 |
| SW:CLOCK | SW:CLOCK | 4AP12 | 9.0 |
| SW:CU | SW:CU | 4AP12 | 9.0 |
| SW:DLN | SW:DLN | 4AP12 | 9.0 |
| SW:OFLBOOT | SW:OFLBOOT | 4AP12 | 9.0 |
| SW:PORTSW | SW:PORTSW | 4AP12 | 9.0 |
| UPD:APPDL | UPD:APPDL | 4AP16R2 | 9.1 |
| UPD:APPL | UPD:APPL | 4AP12 | 9.0 |
| UPD:APPLY:BYTER | UPD:APPLY-BYTER | 4AP13 | 9.0 |
| UPD:APPLY:FILER | UPD:APPLY-FILER | 4AP13 | 9.0 |
| UPD:APPLY:FUNCR | UPD:APPLY-FUNCR | 4AP13 | 9.0 |
| UPD:APPLY:UNIXCMD | UPD:APPLY-UNIX | 4AP13 | 9.0 |
| UPD:AUTO | UPD:AUTO | 4AP13 | 9.0 |
| UPD:AUTOCHK | UPD:AUTOCHK | 4AP13 | 9.0 |
| UPD:AUTOPROFILE | UPD:AUTOPROFILE | 4AP13 | 9.0 |
| UPD:AUTOSCHED | UPD:AUTOSCHED | 4AP13 | 9.0 |
| UPD:BKOUT | UPD:BKOUT | 4AP13 | 9.0 |
| UPD:BLDBOOT | UPD:BLDBOOT | 4AP13 | 9.0 |
| UPD:BLOCK | UPD:BLOCK | 4AP13 | 9.0 |
| UPD:BOLO | UPD:BOLO | 4AP13 | 9.0 |
| UPD:BWMNIO | UPD:BWMNIO | 4AP12 | 9.0 |
| UPD:CHG:APPLY | UPD:CHG-APPLY | 4AP13 | 9.0 |
| UPD:CHG:BKOUT | UPD:CHG-BKOUT | 4AP13 | 9.0 |
| UPD:CHG:INST | UPD:CHG-INST | 4AP13 | 9.0 |
| UPD:CHG:SKTM | UPD:CHG-SKTM | 4AP13 | 9.0 |
| UPD:CLR | UPD:CLR | 4AP13 | 9.0 |
| UPD:CLRBWM | UPD:CLRBWM | 4AP13 | 9.0 |
| UPD:CSCANS:REPORT | UPD:CSCANS-REPT | 4AP13 | 9.0 |
| UPD:CSCANS:STOP | UPD:CSCANS-STOP | 4AP13 | 9.0 |
| UPD:DCHN | UPD:DCHN | 4AP13 | 9.0 |
| UPD:DISPLAY | UPD:DISPLAY | 4AP13 | 9.0 |
| UPD:DISPLYUPD | UPD:DISPLYUPD | 4AP13 | 9.0 |
| UPD:EXALL | UPD:EXALL | 4AP13 | 9.0 |
| UPD:EXNXT | UPD:EXNXT | 4AP13 | 9.0 |
| UPD:EXPAND | UPD:EXPAND | 4AP13 | 9.0 |
| UPD:FLASH | UPD:FLASH | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| UPD:FLASH DFC | UPD:FLASH-DFC | 4AP12 | 9.0 |
| UPD:FTRC | UPD:FTRC | 4AP12 | 9.0 |
| UPD:GEN APPLPROC | UPD:G-APPLPROC | 4AP12 | 9.0 |
| UPD:GEN;BKOUT | UPD:G-BKOUT | 4AP12 | 9.0 |
| UPD:GEN COMMIT | UPD:G-COMMIT | 4AP12 | 9.0 |
| UPD:GEN CONTINUE | UPD:G-CONT | 4AP12 | 9.0 |
| UPD:GEN;ENTER | UPD:G-ENTER | 4AP12 | 9.0 |
| UPD:GEN PROCEED | UPD:G-PROCD | 4AP12 | 9.0 |
| UPD:GEN RESTORE | UPD:G-RESTR | 4AP12 | 9.0 |
| UPD:GENP | UPD:GENP | 4AP13 | 9.0 |
| UPD:INITPW | UPD:INITPW | 4AP13 | 9.0 |
| UPD:NXTWNDW | UPD:NXTWNDW | 4AP13 | 9.0 |
| UPD:OFC | UPD:OFC | 4AP13 | 9.0 |
| UPD:OMDB | UPD:OMDB | 4AP12 | 9.0 |
| UPD:OMIT | UPD:OMIT | 4AP12 through 4AP13 | 9.0 |
| UPD PERM | UPD:PERM | 4AP12 through 4AP13 | 9.0 |
| UPD:PRINT | UPD:PRINT | 4AP13 | 9.0 |
| UPD:PRINT:BWMFILE | UPD:PRINT-BWM | 4AP13 | 9.0 |
| UPD:PRINT:SKTM | UPD:PRINT-SKTM | 4AP13 | 9.0 |
| UPD:PRVWNDW | UPD:PRVWNDW | 4AP13 | 9.0 |
| UPD:RCVRY | UPD:RCVRY | 4AP13 | 9.0 |
| UPD:REBOOT | UPD:REBOOT | 4AP13 | 9.0 |
| UPD RECLAIM | UPD:RECLAIM | 4AP12 through 4AP13 | 9.0 |
| UPD:RECOVERY | UPD:RECOVERY | 4AP13 | 9.0 |
| UPD:REDUCE | UPD:REDUCE | 4AP13 | 9.0 |
| UPD:RESET | UPD:RESET | 4AP13 | 9.0 |
| UPD:SCP | UPD:SCP | 4AP12 | 9.0 |
| UPD:START:EASYBWM | UPD:START-EASY | 4AP13 | 9.0 |
| UPD:STOP:EXC | UPD:STOP-EXC | 4AP13 | 9.0 |
| UPD:STOP:SOAK | UPD:STOP-SOAK | 4AP13 | 9.0 |
| UPD:UPDCON | UPD:UPDCON | 4AP13 | 9.0 |
| UPD:UPDDSPLY | UPD:UPDDSPLY | 4AP13 | 9.0 |
| UPD:UPNAME | UPD:UPNAME | 4AP13 | 9.0 |
| UPD:VERSION | UPD:VERSION | 4AP13 | 9.0 |
| UPD:VFY | UPD:VFY | 4AP13 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| UPD:VFYBWM | UPD:VFYBWM | 4AP13 | 9.0 |
| UPD:VFYCON | UPD:VFYCON | 4AP13 | 9.0 |
| UPD:XTSI | UPD:XTSI | 4AP15 | 9.0 |
| VER:AMATAPE | VER:AMATAPE | 4AP12 | 9.0 |
| VER:APPFILE | VER:APPFILE | 4AP16 | 9.0 |
| VER:APPTAPE | VER:APPTAPE | 4AP16 | 9.0 |
| VER:ATP;ATV | VER:ATP-ATV | 4AP13R4 | 9.1 |
| VER:ATP;FEATURE | VER:ATP-FEATURE | 4AP13 | 9.1 |
| VER:ATP;RESTRICT | VER:ATP-RESTRICT | 4AP16 | 9.1 |
| VER:ATP:STOP | VER:ATP-STOP | 4AP13 | 9.0 |
| VER:ATP;TRIGGER | VER:ATP-TRIGGER | 4AP13 | 9.1 |
| VER:COAMS | VER:COAMS | 4AP12 | 9.0 |
| VER:DCC | VER:DCC | 4AP12 | 9.0 |
| VER:DGA | VER:DGA | 4AP16 | 9.1 |
| VER:GT6TRAN | VER:GT6TRAN | 4AP12 | 9.0 |
| VER:GTT | VER:GTT | 4AP12 | 9.0 |
| VER:GTT:CRCHK | VER:GTT-CRCHK | 4AP12 only | 9.0 |
| VER:GTT:FEXPN | VER:GTT-FEXPN | 4AP12 only | 9.0 |
| VER:LVFILE | VER:LVFILE | 4AP16 | 9.1 |
| VER:MEMORY | VER:MEMORY | 4AP13 | 9.1 |
| VER:PCP | VER:PCP | 4AP12 | 9.0 |
| VER:SD:NID | VER:SD-NID | 4AP15 | 9.0 |
| VER:SD:NULLPARM | VER:SD-NULLPARM | 4AP15 | 9.0 |
| VER:SD;OLI | VER:SD-OLI | 4AP16 | 9.0 |
| VER:UPDATE | VER:UPDATE | 4AP16 | 9.0 |
| VFY:FILE | VFY:FILE | 4AP12 | 9.0 |
| VFY:MHD | VFY:MHD | 4AP12 | 9.0 |
| VFY:PAUTH | VFY:PAUTH | 4AP12 | 9.0 |
| VFY:PCGRP | VFY:PCGRP | 4AP12 | 9.0 |
| VFY:PROFL | VFY:PROFL | 4AP12 | 9.0 |
| VFY:TAPE | VFY:TAPE | 4AP12 | 9.0 |
| VFY:TAUTH | VFY:TAUTH | 4AP12 | 9.0 |
| VFY:TCGRP | VFY:TCGRP | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| WHEN:COND | WHEN:COND | 4AP12 | 9.0 |
| WHEN:PID | WHEN:PID | 4AP12 | 9.0 |
| WHEN:RUTIL | WHEN:RUTIL | 4AP12 | 9.0 |
| WHEN:UID | WHEN:UID | 4AP12 | 9.0 |
| APPENDIX AUDIT | APP:AUD | 4AP12 | 9.0 |
| MEMBER NUMBERS APPENDIX A | APP:MEM-NUM-A | 4AP13 | 9.0 |
| APPENDIX MEMBER NUMBERS B | APP:MEM-NUM-B | 4AP12 | 9.0 |
| APPENDIX MEMBER NUMBERS C | APP:MEM-NUM-C | 4AP12 | 9.0 |
| APPENDIX MEMBER NUMBERS D | APP:MEM-NUM-D | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

### 3.4 FUNCTIONAL INDEX

The following is a list of the units and functions by which the messages are indexed.

Application Integrity Monitor
AT&T Trigger Platform
Attached Processor Interface
Audits
Automated Database Backup
Automatic Message Accounting
Boot Disk
Clock
Common Network Interface Ring
Control Unit
D-Channel Node
Data Consistency Check
Dialogue Shell
Direct Access Data Channel
Direct Link Node
Disk File System
Expanded Time Slot Interchange
Field Update System
File System Maintenance
File Transfer and Activation
Generic Access Package
Generic Update
Inhibits
Input/Output Devices and Logs
Input/Output Processor
International Call Detail Recording
Maintenance Control
Miscellaneous RTR Messages
Network Services Complex
Plant Measurements System
Process Control
Processor Initialization and Recovery
Recent Change
Retrofit Process
Scan and Signal Distributor Points
Segmentation Directory
Software Update
Tape Manipulation
Test
Traffic Data Administration System
Trouble Locating Procedure
1B File Tools
3B Field Tools

The messages are presented in alphabetical order within each topic.

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function**

| Function | Purpose | Message Name |
|---|---|---|
| **APPLICATION INTEGRITY MONITOR** | Allows AIM to restart a non-restartable child process. | ALW:AIM |
| | Manually clears AIM events. | CLR:AIM |
| | Dumps the stored AIM PRMs to the ROP. | DUMP:AIM |
| | Tells AIM to perform some function. The function might involve a process or an internal AIM action. | EXC:AIM |
| | Inhibits a process so that it will not be recreated. | INH:AIM |
| | Causes the AIM process to print status information to the ROP. | OP:AIM |
| | Terminates an AIM child process. | STOP:AIM |
| **AT&T TRIGGER PLATFORM** | Audit the ATP node internal data. | AUD:ATP |
| | This input command removes and restores the ATP ring nodes sequentially in a non-service affecting manner. | INIT:ATPCM |
| | This input message requests the ATPCM kernel process to report status of ATPCM tasks, ATPCM Interprocess Message Switch (IMS) channels, or ATP node Real Time Executive (RTX) process information. | OP:ATPCM |
| | This message triggers a pump of the AT&T Trigger Platform (ATP) database to one or both ATP nodes from the master copy located on 3B disk. | PUMP:ATP |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AT&T TRIGGER PLATFORM** | Stop currently active ATP Node audit. | STOP:ATPAUD |
| | Stop an ATPCM task from executing. | STOP:ATPCM |
| | Software switch the active and standby ATP nodes. | SW:ATP |
| | This message prints the information residing in the application database for the AT&T Trigger Platform (ATP) Trigger Validation (ATV) data. | VER:ATP-ATV |
| | This message prints the information residing in the application database for the ATP Feature Table data. | VER:ATP-FEATURE |
| | This message prints the information residing in the application database for the AT&T Trigger Platform (ATP) Restrict Table data. | VER:ATP-RESTRICT |
| | This message stops all running VER:ATP commands; useful for stopping a VER:ATP command that is printing undesired output to the Receive-Only Printer (ROP). | VER:ATP-STOP |
| | This message prints the information residing in the application database for the ATP Trigger Table data. | VER:ATP-TRIGGER |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **ATTACHED PROCESSOR INTERFACE** | Diagnoses the specified Attached Processor Interface (API) unit. | DGN:API |
| **AUDITS** | Allows the routine running of one or more audits controlled by the System Integrity Monitor (SIM) that were previously inhibited. | ALW:AUD |
| | Audits the AMA Recording Registers. There is one member of the AMARR group. When the audit is in processing, the data from 1B to 3B might be blocked. Therefore, this input message is not recommended when the traffic volume is high. | AUD:AMARR-1 |
| | Audits the Attached Processor Driver (APDRV) resources. | AUD:APDRV |
| | Runs the memory audit in the standby CU. | AUD:CUMEM |
| | Runs the CU hardware status audit in the manual mode. | AUD:CUSTAT |
| | Audits the Equipment Configuration Database (ECD). | AUD:ECD |
| | Runs the Equipment Configuration Database Manager (ECDMAN) audit of record ownership. | AUD:ECDOWN |
| | Audits the File Manager's (FMGRs) resources. | AUD:FMGR |
| | Runs the file system block audit. | AUD:FSBLK |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUDITS** | Runs the file system compaction audit. This audit can be run on a mounted or unmounted file system. | AUD:FSCMPT |
| | Runs the file system link audit. | AUD:FSLINK |
| | Runs the memory manager audit. | AUD:MMGR |
| | Audits the Message Buffer (MSGBUF) resources. | AUD:MSGBUF |
| | Runs the plant measurement database audit. | AUD:PMS |
| | Audits the DCT Extended (DCTEXT) searching for suspended process creations and terminations. | AUD:PROAD-1 |
| | Audits Traffic Data Administration System (TDAS) measurement data base. | AUD:TDAS |
| | Allows access to the Traffic Data Administration System (TDAS) measurement data base via a datalink connection. | IN:TDAS |
| | Inhibits the routine running of one or more audits. | INH:AUD |
| | Reports the status of an audit or audits controlled by the System Integrity Monitor. | OP:AUD |
| | Reports the error counts of one or more audits controlled by the System Integrity Monitor. | OP:AUDERR |
| | Outputs and formats REPT DFCE entries of the disk driver logfile. | OP:DFCELOG |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUDITS** | Reports the full pathname of a file in a mounted file system. | OP:FNAME |
| | Provides a means of examining Temporary Signaling Connection (TSC) data which is maintained in the link nodes (D-Channel nodes, currently). | OP:TSC |
| | Updates the Cyclic Redundancy Check (CRC) data for the rehash audit. | START:CRCUPD |
| | Stops a currently active audit which is controlled by the 3B20D/3B21D computer System Integrity Monitor (SIM). | STOP:AUD |
| | Performs a non-correcting SAWS audit on the 1B files on the 3B. | VER:APPFILE |
| | Verifies the mapping of NSCX complex number to DLNSC number. | VER:COAMS |
| | Validates the number of trunks assigned to digroups on a unit/frame, or a frame basis. | VER:DGA |
| | Performs various verifies of the Global Title Translations (GTT) database. | VER:GTT |
| | Performs various verifies of the 6-digit Global Title Translations (GTT) database, stored in the 1Bfile and at each of the Direct Link Nodes (DLN). | VER:GT6TRAN |
| | Analyzes space utilization of the database used for 10-digit Global Title Translations (GTT). | VER:MEMORY |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUDITS** | Displays tape header from a Generic, ODA, or Network Management retrofit/update tape. | VER:UPDATE |
| | Reads all or specific disk tracks/blocks and verifies the header and error-correction code of each sector of the tracks/blocks read. | VFY:MHD |
| **AUTOMATED DATABASE BACKUP** | This message allows the Automated Database Backup (ADB) to run. | ALW:ADB |
| | This message inhibits the Automated Database Backup (ADB) from running. | INH:ADB |
| | Prints out information about the Automated Database Backup (ADB). | OP:ADB |
| | Starts the Automated Database Backup (ADB). | START:ADB |
| | Stops the Automated Database Backup (ADB) process, and clears the ADB locks. | STOP:ADB |
| **AUTOMATIC MESSAGE ACCOUNTING** | Aborts the tape writing process. | ABORT:AMATAPE |
| | Allows Automatic Message Accounting (AMA) tape writing. | ALW:AMA-AUTOST |
| | Stops manual blocking of all Automatic Message Accounting (AMA) teleprocessing sessions or tape writing operations. | ALW:AMA-SESS |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUTOMATIC MESSAGE ACCOUNTING** | Turns on the BOC Service Switching Point (SSP) unanswered Telco study indicator so the unanswered Telco AMA records will be generated. | ALW:AMA-SSPUNAS |
| | Writes primary or secondary Automatic Message Accounting (AMA) data records onto tape. | COPY:AMATAPE |
| | Produces a listing of matched Automatic Message Accounting (AMA) records selected by the checking process. | FLUSH:NVTREC |
| | Manually blocks the Automatic Message Accounting (AMA) tape writing operations. | INH:AMA-AUTOST |
| | Blocks all Automatic Message Accounting (AMA) sessions or prevents the writing of AMA tapes. | INH:AMA-SESS |
| | Turns off the BOC Service Switching Point (SSP) unanswered Telco study indicator so the unanswered Telco AMA records will be generated. | INH:AMA-SSPUNAS |
| | Obtains the current state of the Automatic Message Accounting (AMA) control file. | OP:AMA-CNTLFIL |
| | Displays the current status of the AMA configuration files. | OP:AMA-CONFIG |
| | Requests current Automatic Message Accounting (AMA) disk space occupancy data. | OP:AMA-DISK |
| | Displays the current status of the AMA disk maps. | OP:AMA-MAPS |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUTOMATIC MESSAGE ACCOUNTING** | Prints out the information of Automatic Message Accounting (AMA) pointers. | OP:AMA-PTRS |
| | This message does a dump of the current values of all the Recent Changeable (RC) parameters for Ethernet® Interface Node (EIN) and Call Detail Recording Platform (CDRP). | OP:AMA-RC |
| | Searches AMA data for a given structure code or call code and prints out the formatted AMA record with that code. | OP:AMA-RECSRCH |
| | Obtains the status of the current or most recent Automatic Message Accounting (AMA) tape or teleprocessing session. | OP:AMA-SESSION |
| | Searches AMA data for a given sequence number and prints out disk block were the number is found. | OP:AMA-SRCH |
| | Outputs the status of the BOC Service Switching Point (SSP) unanswered Telco study indicator. | OP:AMA-SSPUNAS |
| | Prints out the information in the Automatic Message Accounting (AMA) status table in Protected Application Segment (PAS), receive buffer, and disk mode receive buffer pointers. | OP:AMA-STAT |
| | Indicates whether the office is a dual or a single data stream Automatic Message Accounting (AMA) office. | OP:AMA-STREAM |
| | Prints out the Automatic Message Accounting (AMA) Summary report. | OP:AMA-SUMMARY |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUTOMATIC MESSAGE ACCOUNTING** | Requests Automatic Message Accounting (AMA) teleprocessing summary data that has been accumulated today. | OP:AMA-TELE |
| | Equips or unequips an Automatic Message Accounting (AMA) partition for either the IC or OC data stream. | SET:AMA-CONFIG |
| | Changes one or all of the Automatic Message Accounting (AMA) control file parameters. | SET:AMA-CONTROL |
| | Sets up the AMA office configuration. | SET:AMA-STREAM |
| | Allows the craft personnel to change one or all of the Ethernet® Interface Node (EIN) routing-address Recent Changeable parameters. The addresses and passwords that will be accepted by this command may not all fit on one command line. The user that attempts to change all of the allowable parameters may need to use this command about 3 or 4 times. | SET:AMA-RC |
| | Starts a (1 hour) session to filter and print Automatic Message Accounting (AMA) and International Call Detail Recording (ICDR) events on a call in hex form, by matching with the data given in this input message. | START:EVENTSESS |
| | Starts a session for the request of Automatic Message Accounting (AMA) records to be matched with the data given in this input message. | START:NVTSESS |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **AUTOMATIC MESSAGE ACCOUNTING** | Allows for the local and remote craft person to initiate an Internet Control Message Protocol (ICMP) "echo request" message from the 4ESS™ to a remote Internet Protocol (IP) address within the network. | START:PING |
| | Manually stops the tape writing process. | STOP:AMATAPE |
| | Stops an event filter and print session of Automatic Message Accounting (AMA), previously in progress. | STOP:EVENTSESS |
| | Stops a session for the request of Automatic Message Accounting (AMA) records previously in progress. | STOP:NVTSESS |
| | Sets a particular tape drive to the Automatic Message Accounting (AMA) function and verifies the tape on that tape drive. | VER:AMATAPE |
| **BOOT DISK** | Configure Moving Head Disk (MHD) 0 and MHD 1 to be the duplex boot disks. | CFR:DUPLEXDISK |
| | Provides a list of all available Alternate Boot Disk units on the switch. | OP:ABD |
| **CLOCK** | Reports the current date and time. | OP:CLK |
| | Sets the system clock to the specified date and time, or adjusts the system clock by plus or minus the seconds specified. | SET:CLK |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Allows the user to abort an active Link Fault Sectionalization (LFS) test initiated from the near-end. | ABORT:LFS |
| | Allows Routine Exercises (REX) or RPCD (Direct Link Nodes) nodes. | ALW:REX-RPCD |
| | Allows Routine Exercises (REX) of Ring Peripheral Control Nodes (RPCN). | ALW:REX-RPCN |
| | Requests the allowing of RGRASP breakpoint(s). | ALW:RUTIL |
| | Forms the basic on/off mechanism for trace. | ALW:TRACE |
| | Activates a pending trap that was entered by the SET:TRAP input message. | ALW:TRAP |
| | Allows the user to specify a special DS1 performance data collection for a specified duration of time, with or without a test signal and or loopback and report the performance data status for the Near, Far or Both Universal Link Nodes (ULN) T1 termination ends of the link at the end of the specified duration. | ATR:T1M |
| | Initiates the Central Node Control audit. | AUD:CNC-1 |
| | Audits the DLN ACI/ISUP translation (ODA) database. | AUD:DLN |
| | Audits DLNCM's internal data structures. | AUD:DLNCM |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Initiates the link status and band status audit. | AUD:LKBDST-1 |
| | Runs the internal data audits on the recent changeable tables. | AUD:NIDATA |
| | NMDATA is the audit family name for the group of audits concerned with the integrity of network management dynamic data. | AUD:NMDATA |
| | Initiates ring node state audits. | AUD:NODEST |
| | Performs control operations on or requests status of the REMACS Data Audit. | AUD:REMACS |
| | Configures the ring to include or exclude ring node(s) from the active ring segment or, if the ring is down, initializes it. | CFR:RING |
| | Changes the CNI in-core view of the CNI Generic id. It is to be used once at the completion of BWM additions of Generic updates. | CHG:GEN |
| | Changes or displays the MRVT Delay (D) parameter which is used in the calculation of the T1 timer | CHG:MRVT |
| | Requests a change in the minor state of a Signaling Link (SLK) or to request a transfer from the active to the standby Voice Frequency Link (VFL). | CHG:SLK |
| | Requests that the SCCP Routing Verification Test (SRVT) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed. | CHG:SRVT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | This message causes the DLN error messages to be spooled only to the CNILOG file. | CLR:DLNAP |
| | DLN panic messages are normally spooled to the maintenance printer. `CLR:DLNPANIC` causes DLN panic messages to be spooled only to the CNILOG file. | CLR:DLNPANIC |
| | Clears the specified RGRASP breakpoint(s). | CLR:RUTIL |
| | The CLR:T1M command clears the addressable T1 termination's Errored Extended Super Frame (ESF) counters or the T1 termination's Performance Measurements Data counters. | CLR:T1M |
| | Diagnoses the specified Link Nodes (LN). | DGN:LN |
| | Diagnoses the specified Ring Peripheral Controller Node (RPCN). | DGN:RPCN |
| | Dumps the contents of the specified address in the given node. | DUMP:ADDR-B |
| | Dumps the contents of the specified node Attached Processor register in the given node. | DUMP:REG-B |
| | Dumps the contents of a specified range of physical addresses from a node on the ring. | DUMP:RNA |
| | Dumps the contents of memory at the given node. | DUMP:RUTIL |
| | Dumps signaling system measurements from measurement history files in a nonpaged format. | DUMP:SMEAS |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Exercises a Link Node (LN) in an interactive diagnostic mode. | EX:LN |
| | Exercises a Ring Peripheral Controller Node (RPCN) in an interactive diagnostic mode. | EX:RPCN |
| | Provides the capability to manually perform Link Fault Sectionalization (LFS) tests. | EXC:LFS |
| | Provides the capability to query the status of the local Link Interface Digital Signal Zero A (LID0) network loopback device, and to control the LID0 remote loopback. | EXC:LID0 |
| | Initiates the MTP Route Verification Test (MRVT). | EXC:MRVT |
| | Requests that the SCCP Routing Verification Test (SRVT) be initiated. | EXC:SRVT |
| | Allows the user to START/STOP test signals and payload loopback at the Universal Link Node (ULN). | EXC:T1M |
| | Requests force removal of the specified node from service, regardless of the state of the link, mate, or of other nodes. | FRMV:LN |
| | Administers and displays the IMS measurements inhibit flag. | INH:IMSMEAS |
| | Administers and displays the reports inhibit flag. If the reports inhibit flag is ON, measurement reports are inhibited. | INH:REPORT |
| | Inhibits Routine Exercises (REX) of RPCD (Direct Link Nodes) nodes. | INH:REX-RPCD |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Inhibits Routine Exercises (REX) of Ring Peripheral Controller Node (RPCN) nodes. | INH:REX-RPCN |
| | Inhibits the specified RGRASP breakpoint(s). | INH:RUTIL |
| | Administers and displays the link removal inhibit flag. | INH:RMV |
| | Sets, resets or requests the status of the alarm inhibit flag of a Signaling Link (SLK). | INH:SLK |
| | Forms the basic on/off mechanism for trace. | INH:TRACE |
| | Allows an active trap to be temporarily suspended. | INH:TRAP |
| | Initializes and starts message transport for the API-DLN stream. | INIT:DLNCM |
| | Requests force removal from service and restart of the specified node, regardless of the state of the link and of other nodes. | INIT:LN |
| | Requests a Common Network Interface (CNI) only initialization at a specified level. | INIT:RING |
| | Allows the user to request a Link Check test procedure, establish or release a Link Check loopback or request the status of a Link Check procedure in progress. | LKC:SLK |
| | Loads the address in the given node with the specified data. | LOAD:ADDR-B |
| | Loads the address in the given node with the specified data. | LOAD:BYTE |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Loads vendor-unique, executable microcode and/or control information into the control memory of a Small Computer System Interface (SCSI) Moving Head Disk (MHD). | LOAD:MHD-FIRM |
| | Loads a node Attached Processor register with the specified data. | LOAD:REG-B |
| | Loads a node on the ring at a specified byte address with specified data as an immediate operation. This command should not be used without expert technical assistance. | LOAD:RNA |
| | Loads the contents of memory at the given node with the specified data. | LOAD:RUTIL |
| | Loads the address in the given node with the specified data. | LOAD:SHORT |
| | Loads the address in the given node with the specified data. | LOAD:WORD |
| | Turns the link monitor on or off and determines the status of the monitor for the specified link(s). | MON:SLK |
| | Requests the routing on the Common Network Interface (CNI) ring or link set information. | OP:C7NET-A |
| | OP:C7NET provides a means for printing a formatted display of the routing data in the 3B20D/3B21D computer and the peripheral nodes. | OP:C7NET-B |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Outputs information regarding the specified Disk File Controller (DFC), connected SCSI Bus (SBUS), and associated Moving Head Disks (MHDs). | OP:DFC-INFO |
| | Requests DLNCM to report status of stream, DLN configuration, DLNCM tasks, DLNCM IMS channels, or DLNCM binkmap. | OP:DLNCM |
| | This message allows the user to obtain the intermediate results of an active Link Fault Sectionalization (LFS) test that is initiated from the near-end, without interrupting the tests in progress. | OP:LFS |
| | Requests that a snapshot of certain key link node (link interface and node processor) status and data information be output. | OP:LNSTAT |
| | Requests information regarding the specified Moving Head Disk (MHD). | OP:MHD-INFO |
| | Requests the status of the nodes and links for the Common Network Interface (CNI) ring in a one page format. | OP:NODES |
| | Allows the user to read and report specified Node Processor (NP) memory or port locations. | OP:NPMEM |
| | Requests the display of one or all of the output classes available in the Equipment Configuration Database (ECD) and the device(s) assigned to these output classes. | OP:OUTCLS |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Provides the ability to obtain status or generic information about a particular node, a group of nodes, or all nodes in a particular group. | OP:RING |
| | Outputs the current status of the specified RGRASP breakpoint(s) at the given node. | OP:RUTIL |
| | Displays information about all of the reports available in the Measurement Output Control (MOC) schedule table. | OP:SCHD |
| | Requests output of link status information. | OP:SLK |
| | Requests a measurement report. | OP:SMR |
| | Outputs the current view of the CCIS network time. | OP:SNAT |
| | This command is used to collect/display T1 status and performance measurements data of the Universal Link Nodes (ULNs) and Network Channel Office Equipment (NCOE). | OP:T1M |
| | Requests Translation Point Codes (TPCs) for the specified Translation Type (TT) to be displayed. | OP:TPC |
| | Generates a printout of the status of tracing and the settings of the trace detail flags for the various subsystems. | OP:TRACE |
| | Allows status information to be obtained regarding active, pending, terminated, aborted, inhibited or completed traps. | OP:TRAP |
| | Change to a new key on an encrypted signaling link. | REKEY:SLK |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Requests a status report on all set (ON) Signaling Link (SLK) Inhibit Alarm Flags. | REPT:SLK-INHALM |
| | Removes the specified Link Node from service. | RMV:LN |
| | Removes the specified Ring Peripheral Controller Node from service. | RMV:RPCN |
| | Restores the specified Link Node (LN) to service conditionally or unconditionally. | RST:LN |
| | Restores the specified Ring Peripheral Controller Node (RPCN) to service conditionally or unconditionally. | RST:RPCN |
| | Causes the DLN error messages to be spooled to the maintenance printer in addition to the CNILOG file. | SET:DLNAP |
| | DLN panic messages are normally sent to the printer, but they can be turned off via `CLR:DLNPANIC`. This message causes DLN panic messages to be sent to the maintenance printer in addition to the CNILOG file. | SET:DLNPANIC |
| | Provides the capability to configure user-defined (customized) default loopback test attributes, which are associated with the Link Fault Sectionalization (LFS) test procedure. | SET:LFS |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | Changes the periodic indication interval for intrusive testing at the Universal Link Nodes (ULNs). The periodic indication interval is used for periodically reporting intrusive activity to the application. | SET:T1M |
| | Allows the user to change the contents of the System Trace Control Block and the operational characteristics of trace. | SET:TRACE |
| | Allows a trap to be set for CCS6 or CCS7 type messages by entering in the specific trap attributes that are to be matched. | SET:TRAP |
| | Starts message transport for the API-DLN stream. | START:DLNCM |
| | Stops message transport for the API-DLN stream. | STOP:DLNCM |
| | Provides the capability to stop an active Link Fault Sectionalization (LFS) test initiated from the near-end; and then obtain results of loopback components for which the test is already completed. | STOP:LFS |
| | The STOP:TRAP command allows a trap to be stopped or removed from the internal database. | STOP:TRAP |
| | Switches the mate network clock node to the master network clock node. | SW:CLOCK |
| | Software switches the active and standby DLN of the same CNI mode. | SW:DLN |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **COMMON NETWORK INTERFACE RING** | This message invokes the concurrency verification between the 3B20D/3B21D copy of the lvfile and the ring node copy of the lvfile. This is done by comparing a timestamp variable of the two copies. | VER:LVFILE |
| | Sets an RGRASP breakpoint in the specified node along with a specified action-list to be performed by the node when the breakpoint fires. | WHEN:RUTIL |
| **CONTROL UNIT** | Diagnoses the specified Control Unit (CU) complex or a specified unit within the CU complex. | DGN:CU |
| | Dumps the contents of the offline cache into processor main memory. | DUMP:CACHE |
| | Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint. | DUMP:REG-A |
| | Exercises a Control Unit (CU) in an interactive diagnostic mode. | EX:CU |
| | Inputs user-supplied parameters to main store phases 95 and 96. | EX:LDPARM |
| | Performs a specified group of diagnostic tasks repeatedly. | EX:LOOP |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **CONTROL UNIT** | Runs to a specified point in a diagnostic command, and their stops. | EX:PAUSE |
| | Steps through diagnostic commands. | EX:STEP |
| | Exists from the interactive diagnostic node. This message only stops the EX:LOOP command. | EX:STOP |
| | Loads a virtual address with specified data as an action associated with a breakpoint. | LOAD:ADDR-A |
| | Loads a physical byte address with specified data as an immediate operation or as a breakpoint action. | LOAD:PMEM |
| | Loads a register with specified data as an immediate action or as a breakpoint action. | LOAD:REG-A |
| | Loads a Generic Access Package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint. | LOAD:UVAR |
| | Removes the specified Control Unit (CU) from service, i.e., from the standby state to the out-of-service state. | RMV:CU |
| | Conditionally or unconditionally restores a Control Unit (CU) to standby status. | RST:CU |
| | Allows the tear-down of any TSC in any call state by specifying the CRV and LACID. | SET:TSC |
| | Causes a graceful switch of the active/standby status of the control units. | SW:CU |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **D-CHANNEL NODE** | Allows the routine and software execution of one or more audits for a particular D-Channel Node (DCN) or for all DCNs which were previously inhibited. | ALW:DCNAUD |
| | Audit the D-Channel Node (DCN) internal data. | AUD:DCNAUD |
| | Inhibits the routine and software execution of one or more audits for a particular D-Channel Node (DCN) or for all DCNs. | INH:DCNAUD |
| | Reports the status of D-Channel Node (DCN) audits. | OP:DCNAUD |
| | Reports the error counts of one or more audits and number of times the audits have been scheduled for particular D-Channel Node (DCN). | OP:DCNAUDERR |
| | Generates a printout of the status for the last UPD:DCHN input message request. Used by user technician to get the status of the updating of the software of D-Channel node(s). | OP:UPD |
| | Stop currently active D-Channel Node (DCN) audit. | STOP:DCNAUD |
| | Terminates or interrupts the updating of the software of all D-Channel nodes or a single D-Channel node before the update procedure has been completed. | STOP:UPD |
| | Initiates the updating of the software of a single D-Channel node. | UPD:DCHN |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DATA CONSISTENCY CHECK** | This message activates the Data Consistency Check (DCC) capability. | ACTV:DCC |
| | This message allows the Data Consistency Check (DCC) capability. | ALW:DCC |
| | This message deactivates the Data Consistency Check (DCC) capability. | DEACTV:DCC |
| | This message inhibits the Data Consistency Check (DCC) capability. Format 1 inhibits all customer units from using the DCC capability. | INH:DCC |
| | Prints the inhibit status and the activation status of the Data Consistency Check (DCC) capability. | OP:DCC |
| | This message starts a Data Consistency Check (DCC) task. | START:DCC |
| | This message requests the currently executing Data Consistency Check (DCC) task be aborted. | STOP:DCC |
| | Requests the results of a previously started Data Consistency Check (DCC) task (via START:DCC). | VER:DCC |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DIALOGUE SHELL** | Allows the addition of a new password with its related identity to the Person Authority (PAUTH). relation | ADD:PAUTH |
| | Allows the Command Groups (COMGR) to be associated with a person Identity (IDENT), thus allowing a user to access only certain groups of commands. | ADD:PCGRP |
| | Allows the addition of a new terminal to the Terminal Authority Relation (TAUTH). | ADD:TAUTH |
| | Allows the Command Groups (COMGR) to be associated with a Terminal (TERM) identity, thus allowing a user to access only certain groups of commands from that terminal. | ADD:TCGRP |
| | Changes the password prefix and/or suffix. | CHG:PAUTH |
| | Allows deletion of Person Authority (PAUTH). | DEL:PAUTH |
| | Allows a Command Group (COMGR) to be disassociated with a person identity. | DEL:PCGRP |
| | Deletes a terminal identity from the Terminal Authority Relation (TAUTH). | DEL:TAUTH |
| | Allows a Command Group (COMGR) to be disassociated from a Terminal (TERM) identity, thus preventing a user from accessing this group of commands from that terminal. | DEL:TCGRP |
| | Changes the suffix of the password. | RNM:PSSWD |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DIALOGUE SHELL** | Allows verification of a person or group password prefix and suffix. | VFY:PAUTH |
| | Allows the retrieval of entries from the Person Command Group (PCGRP) table. | VFY:PCGRP |
| | Verifies all terminal identities in the Terminal Authority Relation (TAUTH). | VFY:TAUTH |
| | Allows the retrieval of entries from the Terminal Command Group (TCGRP) table. | VFY:TCGRP |
| | Starts a list of 3B20D/3B21D computer Generic Access Package (GRASP) commands that are to be performed when an external event breakpoint condition exists. The list of commands is called an action list. | WHEN:COND |
| **DIRECT ACCESS DATA CHANNEL** | Executes one of the Direct Access Data Channel (DADC) audits. | AUD:DADC |
| | Reconfigures Direct Access Data Channel (DADC) data links. | CFR:DADC |
| | Provides, when used with the STOP:DADC input message, a manual on/off switch for either a specific Direct Access Data Channel (DADC) link or the entire DADC capability. | START:DADC |
| | Provides, when used with the START:DADC input message, a manual on/off switch for either a specific Direct Access Data Channel (DADC) link or the entire DADC capability. | STOP:DADC |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DIRECT LINK NODE** | Allows application database audits. | ALW:DLNAUD |
| | Deactivates the "DLN Inhibit" feature and the GTT10D Recent Change inhibits. | ALW:RCV-APPDB |
| | This input message copies the GTT10D application database from one 3B20D/3B21D partition to another. | COPY:APPDB |
| | Clears the Direct Link Node (DLN) Recovery Escalation parameters. | CLR:DLNESC |
| | Inhibits application database audits. | INH:DLNAUD |
| | Invokes the "DLN Inhibit" feature and the GTT10D Recent Change inhibits. | INH:RCV-APPDB |
| | Delete the entire Global Title Translations (GTT) table in a single or all the Direct Link Nodes (DLNs), then purge the DLN process in the DLN for self provisioned GTT. | INIT:GTT |
| | Requests the status of inhibit or allowed application database audits. Requests the status of application database audits. | OP:DLNAUD |
| | Requests Direct Link Node (DLN) recovery escalation parameters. | OP:DLNESC |
| | Outputs the status of all GTT10D RCV Inhibits (including the "DLN Inhibit" feature status). | OP:INH-APPDB |
| | Starts a process to delete entries in the 10 Digit Global Title Translations database residing in the DLN ONLY (CACHE). | RC:GTT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DIRECT LINK NODE** | Verifies the integrity of the 10 Digit Inbound Global Title Translation (IBGTT) database. | VER:GTT-CRCHK |
| | Expands the 10-Digit Inbound Global Title Translation (IBGTT) data file at the Off-Line switch. | VER:GTT-FEXPN |
| | This command performs a single verify of the Enhanced Pre-Assign Values (EPAV) table in the Direct Link Nodes (DLN). | VER:PCP |
| **DISK FILE SYSTEM** | Clears partitions on a specified disk. | CLR:PTN |
| | Compares the text portions of the disk and core images of a nonkillable process. | CMPR:D-CORE |
| | Compares the contents of two disks or two disk partitions. | CMPR:MHD |
| | Requests copy of link interface buffers from CCS7 nodes to disk files. Also requests cancellation of an earlier, unwanted COPY command. | COPY:LIBUF |
| | Diagnoses the specified Disk File Controller (DFC). | DGN:DFC |
| | Diagnoses the specified Moving Head Disk (MHD). | DGN:MHD |
| | Dumps the contents of a specified single disk block or a range of blocks in hexadecimal. | DUMP:MHD-BLK |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **DISK FILE SYSTEM** | Dumps defect management information for a Moving Head Disk (MHD). | DUMP:MHD-DEF |
| | Formats and prints the contents of a disk pack's Volume Table Of Contents (VTOC). | DUMP:MHD-VTO |
| | Exercises a Disk File Controller (DFC) in an interactive diagnostic mode. | EX:DFC |
| | Exercises a Moving Head Disk (MHD) in an interactive diagnostic mode. | EX:MHD |
| | Allows the user to make on-line disk copies of the primary or backup filesystems on the 3B20D/3B21D. | EXC:QCOPY |
| | Formats all or specific disk tracks of the disk pack with initialized sectors. | INIT:MHD |
| | Requests output of link interface buffers from CCS7 nodes. | OP:LIBUF |
| | Outputs the number of blocks contained in all files and directories within the specified directory or filename. | OP:ST-DISKUSE |
| | Stops the copy of the boot disk to tape. | STOP:BKDISK |
| | Stops any CMPR:MHD commands that are currently executing. | STOP:CMPR-MHD |
| | Reads all or specific disk tracks and verifies the header and error-correction code of each sector of the tracks read. | VFY:MHD |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **EXPANDED TIME SLOT INTERCHANGE** | To update the software of a Expanded Time Slot Interchange (XTSI) frame. | UPD:XTSI |
| **FIELD UPDATE SYSTEM** | Refreshes the active (incore) Output Message Database (OMDB) from the OMDB disk file. | ACTV:OMDB |
| | Applies previous updates to the new copy of the Output Message Database (OMDB) disk file during field update. | APPLY:OMDB |
| | Invalidates the memory segments of the old IM catalog, forcing the new one to be loaded into main memory. | CLR:IMCAT |
| | Clears a given MHD's Media Access Error Counter (MAEC). The MAEC for a given MHD is set to zero. | CLR:MHD-MAEC |
| | Causes the user shell to accept an input message that it previously rejected because it was not represented in the input message catalog database. | EXC:UCL |
| | Requests a report about the current status of the active remote-file-input process or the active file receiving process. | IN:REM-REPT |
| | Puts the 3B20D/3B21D computer in the remote-file-receive mode. | IN:REM-START |
| | Terminates the input of update files from a remote source. | IN:REM-STOP |
| | Outputs the message text, message class, and alarm level from an OMDB entry for the given key or keys. | OP:OMDB |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **FIELD UPDATE SYSTEM** | Format 1, change the Synchronous Data Link (SDL) port name on the Application Data Link (APPDL) page 114 and Synchronous Data Link Controller (SDLC) page 115. | UPD:APPDL |
| | Format 2, dump the contents of the data file. | |
| | Format 3, refresh both APPDL page 114 and SDLC page 115. | |
| | Provides a communication interface to the Application Retrofit Process (APPLHOOK) that is used to map application-specific information between 3B generics. | UPD:APPL |
| | Applies a byte replacement update associated with a BWM. | UPD:APPLY-BYTER |
| | Applies a function replacement update associated with a BWM. | UPD:APPLY-FUNCR |
| | Removes either one or all temporary updates still active in the system. Backs out updates associated with BWMs. | UPD:BKOUT |
| | Calls isgen to rebuild the 3B20D/3B21D computer minimum-configuration or full-configuration boot image. | UPD:BLDBOOT |
| | Allows Broadcast Warning Messages (BWMs) to be applied out of order. | UPD:BWMNIO |
| | Clears one or more Broadcast Warning Messages (BWMs) from the Field Update directory. | UPD:CLR |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **FIELD UPDATE SYSTEM** | Displays update information about all or specified updates to the system through the Field Update System procedures. | UPD:DISPLAY |
| | Lists function information from a pfiles symbol table. | UPD:FTRC |
| | Updates either the message class or the alarm level for either one or a list of message keys in the Output Message Database (OMDB) disk file. | UPD:OMDB |
| | Removes from further consideration a pending field update, ie., one which has been interrupted. | UPD:OMIT |
| | Makes updates associated with a temporary Broadcast Warning Message (BWM) permanent. Only the oldest temporary BWM may be made permanent. | UPD:PERM |
| | Reclaims unused patch space in function-replaced `pfiles`. `UPD:RECLAIM` reclaims space occupied by functions that have since been replaced by a permanent update activity and by `UPD` synchronization primitives that are no longer needed. `UPD:RECLAIM` will fail to reclaim available space if temporary Broadcast Warning Messages (BWMs) are outstanding, or if one instance of a process requires an old version of a replaced function. | UPD:RECLAIM |
| | An update's status is reset to a previously accepted state, if a field update operation fails. | UPD:RESET |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **FIELD UPDATE SYSTEM** | Verifies BWMs, which are updates in the Field Update directory. | UPD:VFY |
| **FILE SYSTEM MAINTENANCE** | Changes the access permissions of a specific file. | ALW:F-ACCESS |
| | Allows a removable file system to be mounted. | ALW:F-MOUNT |
| | Changes the owner and group of a specific file. | ALW:F-OWNER |
| | Invalidates the segment name of the ACKDB so that the next invocation of either the craft shell or display administration process reinitializes it. | CLR:ACKDB |
| | Removes a directory from the file system. | CLR:F-DIR |
| | Removes a file from a directory. | CLR:F-FILE |
| | Copies a file from an active disk to an Office (OFL) or Out Of Service (OOS) disk. | COPY:ACTDISK |
| | Compares disk partitions in order to detect differences. When a difference is found, data is copied from the source partition to the destination partition. | COPY:DIFF-MHD |
| | Moves a specific file into a contiguous area. | COPY:F-CFILE |
| | Copies a specific file to another file or directory. | COPY:F-FILE |
| | Copies a specific file from an out-of-service disk to an active system disk. | COPY:OOSDISK |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **FILE SYSTEM MAINTENANCE** | Copies one set of partitions into a corresponding set of partitions. | COPY:P-ALL |
| | Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk. | COPY:SPDISK |
| | Dumps the contents of an ASCII file. | DUMP:F-ALL |
| | Dumps the contents of a file in the specified format. If no format is given, the dump is printed in octal. | DUMP:F-FORMAT |
| | Prints one or more lines of an ASCII file. | DUMP:F-PARTL |
| | Appends one line of user-supplied text after a specified line in an ASCII file. | IN:F-APND |
| | Deletes one or more lines from an ASCII file. | IN:F-DEL |
| | Replaces one or more lines of an ASCII file with one line of user-supplied text. | IN:F-REPL |
| | Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777). | IN:FI-DIR |
| | Reports information about all the mounted file systems. | OP:ST-FILESYS |
| | Reports the number of free blocks and free inodes available for on-line file systems. | OP:ST-FRDISK |
| | Reports the contents of a specific directory or file. | OP:ST-LSTDIR |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **FILE SYSTEM MAINTENANCE** | Calculates and prints a 16-bit checksum for a specified file, and prints the number of blocks in the file. | OP:ST-SUM |
| | Stops any COPY:DIFF:SRC commands that are currently executing. | STOP:COPY-DIFF |
| | Applies a file replacement update associated with a BWM. | UPD:APPLY-FILER |
| | Verifies the contents of files that are essential to the booting of the Administrative Module (AM). | VFY:FILE |
| **FILE TRANSFER AND ACTIVATION** | This message allows the File Transfer and Activation (FTA) capability. | ALW:FTA |
| | This message inhibits the File Transfer and Activation (FTA) capability. | INH:FTA |
| | Prints the inhibit status and the activation status of the File Transfer and Activation (FTA) capability. | OP:FTA |
| | Outputs a listing of all the File Transfer and Activation (FTA) command and response files for the specified FTA customer application along with each file's "status" (i.e., "OPEN", "ACTIVATING", or "STOPPED".) | OP:FTF |
| | This message activates a File Transfer and Activation (FTA) command file. | START:FTA |
| | This message requests the currently executing File Transfer and Activation (FTA) activation task be stopped. | STOP:FTA |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **GENERIC ACCESS PACKAGE (GRASP)** | Causes the GRASP transfer trace to start monitoring the flow of execution. | ALW:UMEM |
| | Enables all currently defined GRASP breakpoints so that the associated actions are executed when the breakpoint conditions occur. | ALW:UTIL |
| | Enables a specific GRASP breakpoint so that the associated actions are executed when the breakpoint condition occurs. | ALW:UTILFLAG |
| | Removes the definition of a GRASP transfer trace. | CLR:UMEM |
| | Removes all currently defined GRASP breakpoints; clears definitions. | CLR:UTIL |
| | Removes the specified GRASP breakpoint and clears the definition. | CLR:UTILFLAG |
| | Copies data from virtual addresses in main memory to other virtual addresses, registers, or Generic Access Package (GRASP) utility variables as a breakpoint action. | COPY:ADDR |
| | Copies data from virtual addresses in main memory to Generic Access Package (GRASP) utility variables as an immediate action. | COPY:PID |
| | Copies data from registers to virtual addresses in main memory, registers, or Generic Access Package (GRASP) utility variables as either an immediate action or as an action associated with a breakpoint. | COPY:REG |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **GENERIC ACCESS PACKAGE (GRASP)** | Copies data from virtual addresses in main memory to Generic Access Package (GRASP) utility variables as an immediate action. | COPY:UID |
| | Copies data from a Generic Access Package (GRASP) utility variable to virtual addresses in main memory, registers, or another GRASP utility variable as an immediate action or as an action associated with a breakpoint. | COPY:UVAR |
| | Dumps the contents of a specified range of virtual addresses in main memory. | DUMP:ADDR-A |
| | Dumps the contents of a specified range of virtual addresses in the kernel. | DUMP:KERN |
| | Dumps the contents of a specified range of virtual addresses in main memory in the address space of a process with the specified process identifier. | DUMP:PID |
| | Dumps the contents of a specified range of physical addresses in main memory. | DUMP:PMEM |
| | Dumps the contents of one or more registers either as an immediate action, or as an action associated with a breakpoint. | DUMP:REG-A |
| | Dumps the contents of a specified range of virtual addresses in main memory in the address space of a process with the specified utility identifier. | DUMP:UID |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **GENERIC ACCESS PACKAGE (GRASP)** | Dumps the contents of one or more GRASP utility variables either as an immediate command or as an action associated with a breakpoint. Utility variables are used to store data temporarily. | DUMP:UVAR |
| | Marks the end of a list of GRASP commands to be performed when a specified breakpoint condition exists. | END:WHEN |
| | Overrides the GRASP default dynamic real time limit with a specified limit until the specified clock time. | IN:DTIME |
| | Causes the GRASP transfer trace to stop monitoring the flow of execution. | INH:UMEM |
| | Disables (but leaves defined) all GRASP breakpoints. | INH:UTIL |
| | Disables (but leaves defined) a specific GRASP breakpoint. | INH:UTILFLAG |
| | Informs the Generic Access Package (GRASP) that a working utility circuit has been installed so that GRASP will again accept trace and hardware breakpoint definitions. | INIT:UC |
| | Specifies the definition of a computer Generic Access Package (GRASP) trace to be set up. | INIT:UMEM |
| | Loads a virtual address with specified data as an action associated with a breakpoint. | LOAD:ADDR-A |
| | Loads a physical byte address with specified data as an immediate operation or as a breakpoint action. | LOAD:PMEM |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **GENERIC ACCESS PACKAGE (GRASP)** | Loads a register with specified data as an immediate action or as a breakpoint action. | LOAD:REG-A |
| | Loads a Generic Access Package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint. | LOAD:UVAR |
| | Causes the contents of the GRASP trace to be dumped to a file. | OP:UMEM |
| | Lists currently defined GRASP breakpoints, their status and trace status. | OP:UTIL |
| | Starts a list of GRASP commands that are performed when a specified breakpoint condition exists. | WHEN:PID |
| | Starts a list of GRASP commands that are performed when a specified breakpoint condition exists. | WHEN:UID |
| **GENERIC UPDATE** | Requests output of the system update event log. | OP:G-READLOG |
| | Stops the system-update command in progress. | STOP:GEN |
| | Executes the application process (/prc/supr/applproc) on the 3B20D/3B21D Computer. | UPD:G-APPLPROC |
| | Prepares the system for booting from the old generic if it is necessary to back out of the new generic. | UPD:G-BKOUT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **GENERIC UPDATE** | Commits to the new generic. | UPD:G-COMMIT |
| | Acknowledges that an action requested for system update via a UPD GEN output message has been completed. | UPD:G-CONT |
| | Enters the new generic data into the system. | UPD:G-ENTER |
| | Prepares the system for booting from the new generic. | UPD:G-PROCD |
| | Restores the old generic by removing the new generic from the system. | UPD:G-RESTR |
| **INHIBITS** | Allows the running of one or more audits managed by the System Integrity Monitor. | ALW:AUD |
| | Allows error logging on the CONFIG error logfile of all errors reported to CONFIG for the specified unit. | ALW:CONFLOG |
| | Allows previously inhibited or suspended sources to send automatic maintenance requests to the computer Maintenance Input Request Administrator (MIRA). | ALW:DMQ-A |
| | Allows previously inhibited or suspended sources to send automatic maintenance requests to the 3B20D/3B21D Maintenance Input Request Administrator (MIRA). | ALW:DMQ-B |
| | Allows the logging and processing of all 3B20D/3B21D computer error sources. | ALW:ERRCHK |
| | Allows the logging and processing of 3B20D/3B21D computer error interrupts attached to the unit specified in the identification field. | ALW:ERRINT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INHIBITS** | Allows the logging and processing of errors specific to the pseudo-nodes representing the 3B20D/3B21D computer CU communities. | ALW:ERRSRC |
| | Changes the access permissions of a specific file. | ALW:F-ACCESS |
| | Allows a removable file system to be mounted. | ALW:F-MOUNT |
| | Changes the owner and group of a specific file. | ALW:F-OWNER |
| | Allows Routine Exercises (REX) by clearing individual routine exercise inhibits for one or more hardware communities. | ALW:REX |
| | Allows transitions of a Scanner And Signal Distributor (SCSD) scan point to be reported. | ALW:SCSD |
| | Enables all currently defined GRASP breakpoints so that the associated actions are executed when the breakpoint conditions occur. | ALW:UTIL |
| | Enables a specific GRASP breakpoint so that the associated actions are executed when the breakpoint condition occurs. | ALW:UTILFLAG |
| | Allows option setting in the Input/Output Processor (IOP) Driver to suppress IOP Driver messages. | CLR:IODRV |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INHIBITS** | Inhibits the routine execution of all audits managed by the System Integrity Monitor. | INH:AUD |
| | Inhibits error logging on the CONFIG error logfile for all specified units. | INH:CONFLOG |
| | Inhibits the specified source of automatic maintenance requests. | INH:DMQ-A |
| | Inhibits the specified source of diagnostic requests. | INH:DMQ-B |
| | Inhibits the logging and processing of all 3B20D/3B21D computer error sources. | INH:ERRCHK |
| | Inhibits the logging and processing of error interrupts attached to the 3B20D/3B21D computer unit specified in the identification field. | INH:ERRINT |
| | Inhibits the logging and processing of errors specific to the pseudo-nodes representing 3B20D/3B21D computer CU communities. | INH:ERRSRC |
| | Inhibits the use of a previously mounted file system. | INH:F-UMOUNT |
| | Sets, resets or requests the status of the inhibit for the Periodic Signaling Link Test (PSLT). | INH:PSLT |
| | Inhibits routine diagnostic exercises by setting the rex_inhflag in the ucb for one or more hardware communities. | INH:REX |
| | Inhibits reporting of transitions of a Scanner And Signal Distributor (SCSD) scan point. | INH:SCSD |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INHIBITS** | Disables (but leaves defined) all GRASP breakpoints. | INH:UTIL |
| | Disables (but leaves defined) a specific GRASP breakpoint. | INH:UTILFLAG |
| | Formats and outputs a list of all inhibited 3B20D/3B21D computer error conditions including ERRINT, ERRSRC, HDWCHK, and SFTCHK. | OP:ERRCHK |
| | Allows option setting in the Input/Output Processor (IOP) Driver to print messages. | SET:IODRV |
| **INPUT/OUTPUT DEVICES AND LOGS** | Allows error logging on the CONFIG error logfile of all errors reported to CONFIG for a specified 3B20D/3B21D computer unit. | ALW:CONFLOG |
| | Release a file from the Input/Output Drivers (IODRVs) cache memory. This command is used during the installation of a new version of a file which could have been cached in the memory of the IODRV. Upon successful completion of this command, the next time the file is needed by the IODRV, the file will be read from disk. | CLR:IOMEM |
| | Deletes the selected contents of a logfile. | DEL:LOG |
| | Inhibits error logging on the CONFIG error logfile for all specified units. | INH:CONFLOG |
| | Requests output of the system update event log. | OP:G-READLOG |
| | Outputs the selected contents of a logfile. | OP:LOG |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT DEVICES AND LOGS** | Reports an interpreted version of selected MEMLOG entries. | OP:MEMERRS |
| | Lists the hardware communities for which routine exercises are currently inhibited by means of the INH:REX input message. | OP:REXINH |
| | Causes a switch of one or more switchable craft maintenance devices, such as a receive-only printer, to the alternate Peripheral Controller (PC) and a switch of the active/standby status of the PCs. | SW:PORTSW |
| **INPUT/OUTPUT PROCESSOR** | Diagnoses the specified Direct User Interface Controller (DUIC). | DGN:DUIC |
| | Diagnoses the specified High-Speed Synchronous Data-Link Controller (HSDC). | DGN:HSDC |
| | Diagnoses the specified Input/Output Processor (IOP). | DGN:IOP |
| | Diagnoses the specified Magnetic Tape Controller (MTC). | DGN:MTC |
| | Diagnoses the specified Maintenance Teletypewriter Controller (MTTYC). | DGN:MTTYC |
| | Diagnoses the specified Scanner And Signal Distributor Controller (SCSDC). | DGN:SCSDC |
| | Diagnoses the specified Synchronous Data Link Controller (SDLC). | DGN:SDLC |
| | Diagnoses the specified Teletypewriter Controller (TTYC). | DGN:TTYC |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT PROCESSOR** | Exercises a Direct User Interface Controller (DUIC) in an interactive diagnostic mode. | EX:DUIC |
| | Exercises a High-speed Synchronous Data-Link Controller (HSDC) in an interactive diagnostic mode. | EX:HSDC |
| | Exercises an Input/Output Processor (IOP) in an interactive diagnostic mode. | EX:IOP |
| | Exercises a Magnetic Tape Controller (MTC) in an interactive diagnostic mode. | EX:MTC |
| | Exercises a Maintenance Teletypewriter Controller (MTTYC) in an interactive diagnostic mode. | EX:MTTYC |
| | Exercises a Scanner And Signal Distributor Controller (SCSDC) in an interactive diagnostic mode. | EX:SCSDC |
| | Exercises a Synchronous Data Link Controller (SDLC) in an interactive diagnostic mode. | EX:SDLC |
| | Exercises a Teletypewriter Controller (TTYC) in an interactive diagnostic mode. | EX:TTYC |
| | Initializes the application database. | INIT:APPDB |
| | Reports the current options set for the Input/Output Processor (IOP) Driver messages. | OP:IODRV |
| | Outputs information about the specified IOP. | OP:IOP-INFO |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT PROCESSOR** | Removes the specified Disk File Controller (DFC) and any associated Moving Head Disks (MHDs) from service. | RMV:DFC |
| | Removes the specified Direct User Interface (DUI) device from service. | RMV:DUI |
| | Removes the specified Direct User Interface Controller (DUIC) from service. | RMV:DUIC |
| | Removes the specified High-Speed Synchronous Data-Link (HSD) subdevice from service. | RMV:HSD |
| | Removes the specified High-Speed Synchronous Data-Link Controller (HSDC) from service. | RMV:HSDC |
| | Removes the specified Input/Output Processor (IOP) and any associated peripheral controllers from service. | RMV:IOP |
| | Requests that the specified Moving Head Disk (MHD) be removed from service. | RMV:MHD |
| | Removes the specified Magnetic Tape (MT) device from service. | RMV:MT |
| | Removes the specified Magnetic Tape Controller (MTC) and any associated Magnetic Tape (MT) drives from service. | RMV:MTC |
| | Removes the specified Maintenance Teletypewriter (MTTY) from service. | RMV:MTTY |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT PROCESSOR** | Removes the specified Maintenance Teletypewriter Controller (MTTYC) and all associated MTTYs, ROPs, and SCCs from service. | RMV:MTTYC |
| | Removes the specified Receive-Only Printer (ROP) from service. | RMV:ROP |
| | Removes the specified SCSI Bus (SBUS) connected to a SCSI Disk File Controller (DFC). | RMV:SBUS |
| | Removes the specified Switching Control Center (SCC) data-link subdevice from service. | RMV:SCC |
| | Removes the specified Synchronous Data Link (SDL) subdevice from service. | RMV:SDL |
| | Removes the specified Synchronous Data Link Controller (SDLC) from service. | RMV:SDLC |
| | Removes the specified Teletypewriter (TTY) from service. | RMV:TTY |
| | Removes the specified Teletypewriter Controller (TTYC) and any associated teletypewriters from service. | RMV:TTYC |
| | Restores a Direct User Interface (DUI) device to service. | RST:DUI |
| | Conditionally or unconditionally restores a Direct User Interface Controller (DUIC) to service. | RST:DUIC |
| | Restores the specified Emergency Action Interface (EAI) subdevice to service. | RST:EAI |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT PROCESSOR** | Restores the specified High-Speed Synchronous Data-Link (HSD) subdevice to service. | RST:HSD |
| | Conditionally or unconditionally restores a High-Speed Synchronous Data-Link Controller (HSDC) to service. | RST:HSDC |
| | Conditionally or unconditionally restores an Input/Output Processor (IOP) to service. | RST:IOP |
| | Restores the specified Magnetic Tape (MT) device to service. | RST:MT |
| | Conditionally or unconditionally restores a Magnetic Tape Controller (MTC) to service. | RST:MTC |
| | Restores the specified Maintenance Teletypewriter (MTTY) to service. | RST:MTTY |
| | Conditionally or unconditionally restores a Maintenance Teletypewriter Controller (MTTYC) to service. | RST:MTTYC |
| | Restores the specified Receive-Only Printer (ROP) to service. | RST:ROP |
| | Restores the specified Switching Control Center (SCC) data-link subdevice to service. | RST:SCC |
| | Restores the specified Synchronous Data Link (SDL) subdevice to service. | RST:SDL |
| | Conditionally or unconditionally restores a Synchronous Data Link Controller (SDLC) to service. | RST:SDLC |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INPUT/OUTPUT PROCESSOR** | Unconditionally restores the the specified Teletypewriter (TTY) to service. | RST:TTY |
| | Conditionally or unconditionally restores a Teletypewriter Controller (TTYC) to service. | RST:TTYC |
| **INTERNATIONAL CALL DETAIL RECORDING** | Stops manual blocking of all International Call Detail Recording (ICDR) teleprocessing sessions. | ALW:ICDR-SESSION |
| | When the switch is in Call Detail Recording Platform (CDRP) or Transition recording mode and the Small Computer System Interface (SCSI) links to the CDRP are duplex failed, the Automatic Message Accounting (AMA) and International Call Detail Recording (ICDR) events are stored on disk in disk mode partitions. This message will throw away all the data in the disk mode partitions. | CLR:AMA-DISK |
| | Blocks all International Call Detail Recording (ICDR) teleprocessing sessions. | INH:ICDR-SESSION |
| | Displays the current status of the International Call Detail Recording (ICDR) configuration file. | OP:ICDR-CONFIG |
| | Obtains the current state of the International Call Detail Recording (ICDR) control file. | OP:ICDR-CONTROL |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INTERNATIONAL CALL DETAIL RECORDING** | Requests current International Call Detail Recording (ICDR) disk space occupancy data. | OP:ICDR-DISK |
| | Obtains the current status of the International Call Detail Recording (ICDR) disk maps. | OP:ICDR-MAPS |
| | Indicates whether 3B computer International Call Detail Recording (ICDR) is turned on in this office. | OP:ICDR-RECORD |
| | Obtains the status of the current or most recent or International Call Detail Recording (ICDR) teleprocessing session. | OP:ICDR-SESSION |
| | Requests International Call Detail Recording (ICDR) teleprocessing summary data that has been accumulated so far today. | OP:ICDR-TELE |
| | This message changes the Automatic Message Accounting (AMA) and International Call Detail Recording (ICDR) recording mode to either Attached Processor System (APS), Call Detail Recording Platform (CDRP), or Transition mode. | SET:AMA-RECMODE |
| | Equips or unequips an International Call Detail Recording (ICDR) partition. | SET:ICDR-CONFIG |
| | Changes one or all of the International Call Detail Recording (ICDR) control file parameters. | SET:ICDR-CONTROL |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **INTERNATIONAL CALL DETAIL RECORDING** | Turns the 3B computer International Call Detail Recording (ICDR) recording capability on or off. | SET:ICDR-RECORD |
| | Starts a (1 hour) session to filter and print Automatic Message Accounting (AMA) and International Call Detail Recording (ICDR) events on a call in hex form, by matching with the data given in this input message. | START:EVENTSESS |
| **MAINTENANCE CONTROL** | Provides a list of all currently active 3B20D/3B21D computer hardware units. | OP:ACT |
| | Outputs configuration status information for 3B20D/3B21D computer hardware units. | OP:CFGSTAT |
| | Outputs the queue from the Maintenance Input Request Administrator. | OP:DMQ |
| | Provides a list of all 3B20D/3B21D computer hardware units currently in the growth maintenance state. | OP:GROW |
| | Provides a list of all currently initializing 3B20D/3B21D computer hardware units. | OP:INIT |
| | Provides a list of all currently offline 3B20D/3B21D computer hardware units. | OP:OFL |
| | Reports the names of out-of-service hardware units. | OP:OOS |
| | Reports the status of each connected 3B20D/3B21D computer message port. | OP:ST-PORTS |
| | Provides a list of all standby 3B20D/3B21D computer hardware units. | OP:STBY |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **MAINTENANCE CONTROL** | Provides a list of all currently unavailable 3B20D/3B21D computer hardware units. | OP:UNAV |
| | Provides a list of all currently unequipped 3B20D/3B21D computer hardware units. | OP:UNEQIP |
| **MISCELLANEOUS RTR MESSAGES** | Allows the logging and processing of Emergency Action Interface (EAI) error interrupts from the 3B21D computer Control Unit (CU) specified in the identification field. | ALW:EAIINT |
| | Diagnoses the specified Dual Serial Channel/Computer Interconnect (DCI). | DGN:DCI |
| | Exercises a Dual Serial Channel/Computer Interconnect (DCI) in an interactive diagnostic mode. | EX:DCI |
| | Requests that the remote file transfer system be either started or stopped. | IN:XFER |
| | Inhibits the logging and processing of Emergency Action Interface (EAI) error interrupts from the 3B21D computer Control Unit (CU) specified in the identification field. | INH:EAIINT |
| | Causes the Attached Processor Driver (APDRV) process to go through the requested level of initialization. | INIT:APDRV |
| | Automatically loads the overwrite file in the inactive file. | LOAD:GULP |
| | Requests the generic text version and software update level by file system partition. | OP:VERSION |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **MISCELLANEOUS RTR MESSAGES** | Removes the specified Dual Serial Channel/Computer Interconnect (DCI) from service. | RMV:DCI |
| | Restores a Dual Serial Channel/Computer Interconnect (DCI), conditionally or unconditionally to service. | RST:DCI |
| | Sends an E_USR9 event to the Dual Serial Channel Interface (DCI) process, /prc/bdj. | STOP:DCI |
| **NETWORK SERVICES COMPLEX** | Connects a 3B terminal to the output channel from an intelligent frame complex. | CONNECT:0 |
| | Disconnects a 3B terminal from the output channel from an intelligent frame complex. | DISCONNECT:0 |
| | Sends an input message to an intelligent frame complex. | SEND:0 |
| | Prints the status list of all equipped NSCs. | OP:ST-NSC |
| | Verifies the mapping of NSC complex number to DLNSC number. | VER:COAMS |
| **PLANT MEASUREMENTS** | Outputs the various Plant Measurements Common Reports, detailing system performance statistics. | OP:PMCR |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **PROCESS CONTROL** | Executes a task as either a kernel or supervisor process. | EXC:E-PROC |
| | Executes a task as a user process. | EXC:E-UPROC |
| | Formats all or specific disk tracks of the disk pack with initialized sectors. | INIT:MHD |
| | Reports the status of one or more specified active processes or active processes by specific class. | OP:ST-PROC |
| | Restores a Disk File Controller (DFC) to service, conditionally or unconditionally. | RST:DFC |
| | Conditionally or unconditionally restores a Moving Head Disk (MHD) to service. | RST:MHD |
| | Restores an SCSI Bus (SBUS) to service. | RST:SBUS |
| | Stops the specified maintenance request. | STOP:DMQ |
| | Stops any process. | STOP:E-ANY |
| | Stops a user process specified either by ID number or by pathname. | STOP:E-USER |
| | Stops the system-update command in progress. | STOP:GEN |
| | Requests an update of flash Random Access Memory (RAM) on a specified Peripheral Controller (PC). | UPD:FLASH |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **PROCESS CONTROL** | Download a pumpcode file into a Small Computer System Interface (SCSI) Device File Controller's (DFCs) non-volatile FLASH memory. | UPD:FLASH-DFC |
| **PROCESSOR INITIALIZATION AND RECOVERY** | Sets the system status register such that a CU switch can be implemented as a normal fault recovery procedure, thereby allowing a switch to the standby 3B20D/3B21D computer control unit when a fault occurs in the active control unit. | ALW:HDWCHK |
| | Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling software sanity problems. | ALW:SFTCHK |
| | Clears the emergency dump partition status flag. | CLR:EMERDMP |
| | Copies data from the emergency dump partition on a disk to a magnetic tape. | COPY:T-EMERDMP |
| | Sets the system status register such that a CU switch is not implemented as a normal fault recovery action. | INH:HDWCHK |
| | Alters the manner that software errors are handled by precluding the use of system initialization. | INH:SFTCHK |
| | Initializes the real time monitor. | INIT:RTM |
| | Initializes the UNIX® Level Automatic Restart Process (ULARP). | INIT:ULARP |
| | Reports the status of the emergency dump partition on the disk: full or empty. | OP:EMERSTAT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **PROCESSOR INITIALIZATION AND RECOVERY** | Outputs the real time usage of all processes in the DCT. | OP:RTM |
| | Causes the 3B-based Service Degrading Condition (SDC) list to be printed. | OP:SDC |
| | Outputs the status of one or all run commands. | OP:ULARP-COM |
| | Outputs the execution sequence of child processes and runs commands during a bootstrap or craft initialization procedure. | OP:ULARP-EXEC |
| | Outputs the status of one or all ULARP child processes. | OP:ULARP-PROC |
| **RECENT CHANGE** | To administer and display the recent change inhibit flag. | INH:RCV |
| | Initializes ring Data Management System (DMS) files. | INIT:DMS |
| | Queries the ring Data Management System (DMS) to get a summary of the existing orders. | OP:DMSORDERS |
| | Performs a recent change (add, modify, or delete record) to the PCP EPAV data table in the 4ESS™ Switch APPDB database on the Application Processor. | RC:PCP-CHG |
| | Invokes the text Recent Change and Verify (RC/V) activity; this format is used to insert, update, or delete records in the Equipment Configuration Database (ECD) via serial text input. | RCV:DMTE-RC |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **RECENT CHANGE** | Invokes the text Recent Change and Verify (RC/V) activity; this format is used to review Equipment Configuration Database (ECD) forms via serial text input. | RCV:DMTE-VFY |
| | Invokes the text Recent Change and Verify (RC/V) activity. This format is used to insert, update, or delete records in the System Generation (SG) database via serial text input. | RCV:DMTS-RC |
| | Invokes the text Recent Change and Verify (RC/V) activity. This format is used to review System Generation (SG) database forms via serial text input. | RCV:DMTS-VFY |
| | Reads or patches a data base using browse. | RCV:M-BROWSE |
| | Compares the Equipment Configuration Database (ECD) and the System Generation (SG) database. | RCV:M-CMPRDB |
| | Generates a skeleton Equipment Configuration Database (ECD). | RCV:M-CREATEECD |
| | Generates a skeleton System Generation (SG) database. | RCV:M-CREATESG |
| | Invokes a specified recent change activity; this format is used to evolve a new data base from an old one. | RCV:M-EVOL |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **RECENT CHANGE** | Performs a comparison of two form types. | RCV:M-FDIFF |
| | Performs a comparison of two sorted keyfiles. | RCV:M-KEYCMP |
| | Creates, on the standard output, a list of all keys that are common to two sorted keyfiles. | RCV:M-KEYCOMM |
| | Creates a sorted list of form keys for all the instances of a given form type found in the Equipment Configuration Database (ECD) and the System Generation (SG) database. | RCV:M-KEYS |
| | Invokes a specified recent change activity; this format is used to create a database in loadfile format from a set of database files. | RCV:M-LOADF3B |
| | Creates a sorted list of keys for all form types in the Equipment Configuration Database (ECD) and the System Generation (SG) database. | RCV:M-NEWDB |
| | Creates files of form instances when specified data form type(s) from the Equipment Configuration Database (ECD) and the System Generation (SG) database are given. | RCV:M-PRINTDB |
| | Creates a file of all form instances, given a list of form keys, found in the Equipment Configuration Database (ECD) and the System Generation (SG) database. | RCV:M-PRINTFRM |
| | Used to review or modify an ECD database through Recent Change. | RCV:M-RCVECD |
| | Used to review or modify an SG database through Recent Change. | RCV:M-RCVSG |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **RECENT CHANGE** | Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given. | RCV:M-TRANSGEN |
| | Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications. | RCV:M-TREEBLD |
| | Checks the syntax of the specified default file (corresponding to the low level RC/V ECD form of the same name), and verifies the low level field names and values contained therein are legal for that low level form. | RCV:M-VFYDFLT |
| | Retrieve all buffered 1B Recent Change forms and store them in a file on the 3B. | START:RCBUFGET |
| | Restore the buffered 1B Recent Change forms saved on the 3B20D/3B21D disk storage system via the START:RCBUFPUT command. | START:RCBUFPUT |
| | This input message will stop the execution of a previously entered and executing START:RCBUFGET input command. | STOP:RCBUFGET |
| | This input message will stop the execution of a previously entered and executing START:RCBUFPUT command. | STOP:RCBUFPUT |
| | Updates a list of Software Change Package (SCP) numbers applied to a selected 1B disk file. | UPD:SCP |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **RETROFIT PROCESS** | Compares and checks Office Data Assembler (ODA) translators necessary for generic retrofit and ODA update. | CMPR:ODA |
| | Initiates the off-line boot procedure. May be used to verify the integrity of boot files and data, or as the prelude for the side switch. | EXC:OFLBOOT |
| | Manually enters the data for an overwrite in the active file. | IN:OSOW |
| | Downloads the pumpcode to SCSI DFC. The control of SCSI host adapter (DFC) will be transferred from firmware to pumpcode after the pumpcode is successfully downloaded. | LOAD:DFC-PUMP |
| | Loads specified pumpcode file into the SCSI Disk File Controller's (DFCs) Random Access Memory (RAM) area. | LOAD:DFC-RAM |
| | For Storage Module Drive (SMD), creates or updates manufacturer's defect table on an SMD fixed media disk drive that supports defect management. | LOAD:MHD-DEFECT |
| | The LOAD:UPDATE family of messages performs various operations during a retrofit or update procedure. | LOAD:UPDATE |
| | Terminates a retrofit or update procedure before completion. | LOAD:UPDATE-ABORT |
| | Continues a retrofit or update procedure. | LOAD:UPDATE-CONT |
| | Determines the differences, for generic and HASH data, between the NORMAL and UPDATE 1B files. | LOAD:UPDATE-DIFF |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **RETROFIT PROCESS** | Initiates the GENERIC retrofit process. | LOAD:UPDATE-GEN |
| | Maps (copies) dynamic data from the normal 1B file to the update 1B file. | LOAD:UPDATE-MAP |
| | Initiates a Network Management (NWM) update. | LOAD:UPDATE-NWM |
| | Initiates an ODA update procedure. | LOAD:UPDATE-ODA |
| | Used to skip loading a network management tape during a retrofit or update procedure. | LOAD:UPDATE-SKIP |
| | Starts the System Reinitialization (SR) process. | LOAD:UPDATE-SR |
| | Prints out the 4ESS™ generic issue, the office name, and the date and time the Office Data (ODA) was last written in the specified 1B file. | OP:APPLOAD |
| | Abort the current generic retrofit procedural process. | RFT:ABORT |
| | Invoke the Generic Retrofit process from the ending generic. | RFT:BEGINPOST |
| | Dumps the contents of a file. | RFT:FDUMP |
| | Print the named step or supplemental instruction file of the generic retrofit procedural process. | RFT:PRINT |
| | To stop the OFLBOOT procedure. | STOP:OFLBOOT |
| | To perform a call processing side switch. | SW:OFLBOOT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SCAN AND SIGNAL DISTRIBUTOR POINTS** | Performs a reset of the Fan Alarm (FANALM) distribute point. | CLR:FANALM |
| | Reports the inhibit status and the state of Scanner And Signal Distributor (SCSD) scan points. | OP:SCSD |
| | Performs one of four distribute operations on a Scanner And Signal Distributor (SCSD) distribute point. | ORD:SCSD |
| | Removes the specified Scanner And Signal Distributor Controller (SCSDC) from service. | RMV:SCSDC |
| | Conditionally or unconditionally restores a Scanner And Signal Distributor Controller (SCSDC) to service. | RST:SCSDC |
| **SEGMENTATION DIRECTORY (SD)** | This message prints the information residing in the application database for the Segmentation Directory (SD) data. | VER:SD-NID |
| | This message prints the information residing in the application database for the Segmentation Directory (SD) data. | VER:SD-NULLPARM |
| | This message prints the information residing in the application database for the Segmentation Directory (SD) data. | VER:SD-OLI |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SOFTWARE UPDATE** | Requests update to the software update database (Cud) after the successful execution of the first command preceding the first `UPD:APPLY` message in the APPLY section of the MSGS file in a Software Update (SU). | UPD:APPLY-UNIX |
| | Requests that the status of Software Update (SU) process automation be determined and/or changed. | UPD:AUTO |
| | Requests that an office health check be performed (`UPD:AUTOCHK`) or requests that the results of the last office healthcheck be displayed (`UPD:AUTOCHK`). | UPD:AUTOCHK |
| | Requests that the Software Update (SU) process automation office profile be changed according to the arguments and values specified in the input message. | UPD:AUTOPROFILE |
| | Requests that the named Software Update (SU) be scheduled for automatic installation or requests the status of the currently scheduled SU. | UPD:AUTOSCHED |
| | Requests that an official software update be blocked or inhibited from being backed out. | UPD:BLOCK |
| | Requests that the last official software update be backed out. | UPD:BOLO |
| | Request to change the name of the apply software update for the EASY SU process (MCC Page 1940). | UPD:CHG-APPLY |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SOFTWARE UPDATE** | Request to change the name of the backout software update for the EASY SU process (MCC Page 1940). | UPD:CHG-BKOUT |
| | Request to change the name of the install software update for the EASY SU process (MCC Page 1940). | UPD:CHG-INST |
| | Request to change the soak timer interval for the install SU in the EASY SU process (MCC Page 1940). | UPD:CHG-SKTM |
| | Requests that a software update that has already been installed and made official be cleared from the `/etc/bwm` directory. | UPD:CLRBWM |
| | Requests a report containing the current status of the active file receiving process for the Customer Service Computer Access Network Standards (CSCANS) interface. | UPD:CSCANS-REPT |
| | Requests that the download of software update files from a remote source be terminated. | UPD:CSCANS-STOP |
| | Requests a display of the first portion of the specified section of the Software Update (SU) MSGS file on the MCC 1960 page for the SU that is currently loaded (using the `UPD:UPNAME` input message) on that page. | UPD:DISPLYUPD |
| | Requests execution of all messages in the specified section (APPLY, SOAK, OFC, or BKOUT). | UPD:EXALL |
| | Requests execution of the next message command pointed to in the Software Update (SU) MSGS file in the specified section. | UPD:EXNXT |

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SOFTWARE UPDATE** | Requests that the software update expansion process that takes place automatically during the download of a software update be manually Stopped (STOP). | UPD:EXPAND |
| | To manually control the generation of update files (ufiles) and product files (pfiles) generated during the SOAK stage of an SU installation in preparation for the OFFICIAL stage of the SU installation. | UPD:GENP |
| | Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network Standards (CSCANS) interface, be initialized. | UPD:INITPW |
| | Requests display of the next portion of MSGS file on the MCC 1960 page for the SU that is already loaded on the MCC 1960 page. | UPD:NXTWNDW |
| | Requests updates associated with a temporary software update be made permanent. | UPD:OFC |
| | Requests printing of the specified section or all the sections of the Software Update (SU) MSGS file on the Receive-Only Printer (ROP). | UPD:PRINT |
| | Requests printing of the specified file associated with the software update that is currently loaded on the MCC 1960 page on the Receive-Only Printer (ROP). | UPD:PRINT-BWM |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SOFTWARE UPDATE** | Requests the printing of the soak timer information on the Receive-Only Printer (ROP). | UPD:PRINT-SKTM |
| | Requests that the previous portion of MSGS file be displayed on the MCC 1960 page, for the SU that is currently loaded on the MCC 1960 page. | UPD:PRVWNDW |
| | Requests a program update roll backward or roll forward operation. | UPD:RCVRY |
| | Requests that the program update database be updated to reflect the backing out of any temporary 3B20D/3B21D (3B) updates active at the time of the reboot. | UPD:REBOOT |
| | Requests a program update roll backward or roll forward operation. | UPD:RECOVERY |
| | Requests smaller, more concise update database entries after all updates on the 3B20D/3B21D (3B) have been made official. | UPD:REDUCE |
| | Requests that execution of the software update easy SU process be started. | UPD:START-EASY |
| | Stops current execution of the Software Update (SU) installation process. | UPD:STOP-EXC |
| | This input message should be used in conjunction with easy SU installation (MCC page 1940). | UPD:STOP-SOAK |
| | Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system. | UPD:UPDCON |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **SOFTWARE UPDATE** | Requests information about updates to the system through software update procedures. | UPD:UPDDSPLY |
| | Requests a check for the existence of a Software Update (SU) in the base directory, and if the SU exists it is loaded on to the MCC 1960 page. | UPD:UPNAME |
| | Requests update of the text version and/or software update level of the file system partitions. | UPD:VERSION |
| | Requests verification of the content of a software update, the name of which has been entered using `UPD:UPNAME` command (displayed on MCC 1960 page). | UPD:VFYBWM |
| | Requests verification of software update consistency and a summary of all software update inconsistencies that exist in the system. | UPD:VFYCON |
| **TAPE MANIPULATION** | Copies some non-hashed file-store-only data to archive tape. | COPY:APPTAPE |
| | Copies the boot disk to tape. | COPY:BKDISK |
| | Copies the contents of a multi-volume formatted Digital Audio Tape (DAT) from a source DAT drive to a destination DAT drive. | COPY:BKTAPE |
| | Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories. | COPY:T-IN |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **TAPE MANIPULATION** | Copies one or more files to a magnetic tape, along with relative pathnames and header (status) information. | COPY:T-OUT |
| | Copies a header block from a disk to a magnetic tape. | COPY:T-TEST |
| | Copies a Task Oriented Practice (TOP) file(s) from disk to tape. | COPY:T-TOP |
| | Copies Generic (GEN), Library (LIB), Office Data Assembler (ODA), Network Management (NWM), or Traffic and Plant Measurements (TPM), data from the normal or update file to tape. | COPY:UPDATE |
| | Diagnoses the specified Magnetic Tape (MT). | DGN:MT |
| | Displays the contents of the multi-volume Digital Audio Tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is. | DUMP:BKTAPE |
| | To dump the header information for Attached Processor System (APS) generic tapes. | DUMP:TAPE |
| | Dumps the Traffic Data Administration System (TDAS) measurement data from the TDAS data base stored on the 3B computer disk to 3B tape. | DUMP:TDAS |
| | Exercises a Magnetic Tape (MT) in an interactive diagnostic mode. | EX:MT |
| | Reloads some non-hashed file-store-only data from archive tape. | LOAD:APPTAPE |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **TAPE MANIPULATION** | Requests the following information regarding the specified Small Computer System Interface (SCSI) Magnetic Tape (MT) device. | OP:MT-INFO |
| | Prints the tape header from an archive tape created with the COPY:APPTAPE command. | VER:APPTAPE |
| | Verifies the readability of information on system tapes and the consistency of corresponding hash sums. | VFY:TAPE |
| **TEST** | Clears the status of a route making it available, and stops the Signaling Route Set Test (SRST) for the route. | CLR:SRST |
| | Starts a session to add, delete, change, or verify data in the 10-digit global title translations database residing in the DLN with the data given in this input message. | RC:MISC-FHT-FTA |
| **TRAFFIC DATA ADMINISTRATION SYSTEM** | Removes access to the TDAS measurement data base for an operation support system user. | CLR:TDAS |
| | Requests a Dynamic Non-Hierarchical Routing (DNHR) node-to-node measurement report for between 1 to 10 Toll Terminating Switches (TTSs). | OP:DNHRMEAS |
| | Monitors the performance of the system. | OP:PERFMEAS |
| | Dumps the performance data created by input message OP:PERFMEAS onto tape. | OP:PERFRPT |
| | Outputs 3B computer plant measurements, which are collected once every hour. | OP:PLNTSUM |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **TROUBLE LOCATING PROCEDURE (TLP)** | Loads the Trouble Location Procedure (TLP) to disk. | LOAD:TLP |
| **1B FILE TOOLS** | Clears the FSBUF overwrite buffer. | CLR:FSBUF |
| | Clears the PBUF overwrite buffer. | CLR:PBUF |
| | Inputs a buffer of overwrites into a 3B disk file. | COPY:FSBUF |
| | Copies nailed-up TAN connections from the 1B normal file to the 1B update file, and calculates a new hash for the affected areas. | COPY:LSNC |
| | Inputs a buffer of overwrites into 3B physical memory. | COPY:PBUF |
| | Reads data from the 1B files of the 3B APS and prints the requested data in a compatible format. | DUMP:FSA |
| | Prints a table of overwrites accumulated with the IN:FSBUF command. | DUMP:FSBUF |
| | Reads data from the 1B files of the 3B Attached Processor System (APS) and prints the requested data in a compatible format. | DUMP:MMA |
| | Prints a table of overwrites accumulated with the IN:PBUF command. | DUMP:PBUF |
| | Accumulates overwrites in a buffer that can later be used to overwrite 3B disk files. | IN:FSBUF |
| | Accumulates overwrites in a buffer that can be used to overwrite 3B physical memory. | IN:PBUF |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **1B FILE TOOLS** | Validates the consistency of information in the MERGE maps, and outputs a memory map of the 1BFILE that is sorted by ID tag and file store address. | OP:APPFILE |
| **3B FIELD TOOLS** | Adds a new profile to the list of user profiles. A profile is a set of command groups. A maximum of 64 profiles are allowed. These profiles can later be assigned to individual users. | ADD:PROFL |
| | Adds or removes a Command Group (COMGR) from a profile Identity (IDENT). This allows a profile to contain a set of command groups. The IDENT must already exist in the Profile (PROFL) database. | CHG:PROFL |
| | Copies the normal 1B file and its associated Software Change Package (SCP) tracking file to the equivalent update 1B file. | COPY:APPFILE |
| | Deletes an existing profile from the list of user profiles. A profile is a set of command groups. The profile is also deleted from any user to which it is assigned. | DEL:PROFL |
| | Dumps a list of Broadcast Warning Messages (BWMs) applied to the 3B Attached Processor System (APS). | DUMP:BWM |
| | Dumps a list of Software Change Package (SCP) numbers applied to a selected 1B disk file. | DUMP:SCP |
| | Dumps the header information for APS generic tapes. | DUMP:TAPE |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Index of Input Messages by Function (Continued)**

| Function | Purpose | Message Name |
|---|---|---|
| **3B FIELD TOOLS** | Manually enters the data for an overwrite in the active file. | IN:ACTOW |
| | To monitor the 3B realtime usage and request an `REPT:RTM-STATUS` output message when the 3B idle time drops below a specified level. | OP:CFT |
| | Converts a virtual address on the 3B to a physical address. | OP:VTOP |
| | This input message requests the `RCAS` kernel process to report status of `RCAS` tasks, `RCAS` meas, or `RCAS` files. | OP:RCAS |
| | Verifies all profile names or the command groups associated with a given profile (IDENT). If the optional IDENT parameter is not specified, only the profile name list is printed. | VFY:PROFL |

ID . . . . . ABORT:AMATAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Aborts the tape writing process. Any Automatic Message Accounting (AMA) data previously written to the tape will be lost.

## 2. FORMAT

**ABORT:AMATAPE[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if AMA data goes to the operating company revenue accounting data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 4. SYSTEM RESPONSE

NG No Good. If the teleprocessing option is in effect or if the tape option is in effect but tape writing is not in progress. Also, The data stream checks could have failed.

PF Printout Follows. Followed by a REPT:AMATAP-ER message or an audit message if any invalid data was encountered while processing the input message.

RL Retry Later. A message cannot be sent to the AMA tape writer to abort the session. Try the message later. If the problem persists, refer to the AMA Task Oriented Procedures (TOPS) procedure for further resolution.

## 5. REFERENCES

Input Messages
COPY:AMATAPE
OP:AMA-STREAM
STOP:AMATAPE

Output Message
REPT:AMATAP-ER

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ABORT:LFS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Allows the user to abort an active Link Fault Sectionalization (LFS) test initiated from the near-end.

The first field of this message is required. It identifies the links for which **LFS** tests are to be aborted.

## 2. FORMAT

**ABORT:LFS** {**ALL**|(a,b[,c,d])}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **ALL** | Aborts **LFS** tests on all links. |
| a | Link group number (0–63). |
| b | Link member number (1–15). |
| c | End group number for a range of links for which **LFS** tests are in progress (0–63). |
| d | End member number for a range of links for which **LFS** tests are in progress (0–15). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. EXC:LFS tests in progress on the specified links are aborted, and confirmation is sent to the Maintenance Terminal (MCRT) and Receive Only Printer (ROP). |

## 5. REFERENCES

Input Message
EXC:LFS

Output Message
ABORT:LFS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ACTV:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message activates the Data Consistency Check (DCC) capability. As a result of this command, the specified APPDB customer unit will be copied to the APPDB scratch partition `/dev/appdb2`. This partition will be locked from write access to everyone except the DCC capability until the DCC capability is deactivated (via the `DEACTV:DCC` input message).

DCC must be allowed (via the `ALW:DCC` input message) prior to activation. DCC must be activated prior to running (via the `START:DCC` input message) any DCC tasks.

## 2. FORMAT

**`ACTV:DCC,APP`** `a`**`,SID`** `b`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | The name of the APPDB customer unit for which DCC is to be activated. Currently, only `IBGTT` is supported. |
| `b` | A one to eight character alphanumeric. This is called the "snapshot id" of the DCC activation. Subsequent `START:DCC` SID arguments, if specified, must match the argument specified here. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
- `ALW:DCC`
- `DEACTV:DCC`
- `INH:DCC`
- `OP:DCC`
- `START:DCC`
- `STOP:DCC`
- `VER:DCC`

Output Message
- `ACTV:DCC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ACTV:OMDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Refreshes the active (incore) Output Message Database (**`OMDB`**) from the **`OMDB`** disk file.

## 2. FORMAT

**`ACTV:OMDB!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`IP` In Progress. Followed by the `ACTV:OMDB` output message.

## 5. REFERENCES

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`OP:OMDB`
`UPD:OMDB`

Output Message
`ACTV:OMDB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ADD:PAUTH
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Adds a new user with its related password to the Personal Authority (**PAUTH**) database. It embeds the password into the authority record and links the password to its user identity.

## 2. FORMAT

**ADD:PAUTH:IDENT** "a",**PSSWDPFX** "b",**PSSWDSFX** "c"!

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group that uses the password prefix and suffix, in one to eight letters and/or digits.

b — Password Prefix (**PSSWDPFX**) in three letters and/or digits.

c — Password Suffix (**PSSWDSFX**) in six to 13 characters.

## 4. SYSTEM RESPONSE

NG — No Good.

— PASSWORD PREFIX ILLEGAL LENGTH
The given password prefix is not equal to three characters in length.

— PASSWORD PREFIX NOT UNIQUE
The given password prefix already exists in the password authority administration.

— PASSWORD SUFFIX ILLEGAL LENGTH
The given password suffix is less than six characters or greater than 13 characters in length.

— PERSON IDENTITY NOT UNIQUE
The given person identity already exists in the personal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Password or personal authority information is inaccessible.

OK — Good. Password and identity added to database.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
Authority information is currently being updated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
CHG:PAUTH
DEL:PAUTH
RNM:PSSWD
VFY:PAUTH
```

Output Message

```
VFY:PAUTH
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ADD:PCGRP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Format 1 associates the Command Groups (**COMGR**s) with a person Identity (**IDENT**), thus allowing a user to access specific groups of commands. The **IDENT** must already exist in the Personal Authority (PAUTH) database.

Format 2 associates a Profile (**PROFL**) with an **IDENT**, thus allowing a user access to all the commands associated with a set of command groups. The **IDENT** must already exist in the PAUTH database.

## 2. FORMAT

[1] **ADD:PCGRP:IDENT** "a",**COMGR** b!

[2] **ADD:PCGRP:IDENT** "a",**PROFL** "c"!

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group in one to eight letters and/or digits.

b — Command group.

c — A profile name which has been previously created, but not assigned to this user.

## 4. SYSTEM RESPONSE

NG — No Good.

— COMMAND GROUP ALREADY ASSIGNED TO THIS PERSON
The given command group has already been assigned to this person's identity.

— NON-EXISTENT PERSON IDENTITY
The given person identity does not exist in the personal authority administration.

— NON-EXISTENT PROFILE IDENTITY
The given profile does not exist in the personal authority administration.

— PASSWORD ENHANCEMENT NOT ACTIVATED
The **PROFL** option with this command is valid only for applications running with the password enhancement feature.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Person authority information is inaccessible.

OK — Good. Command group added to database.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `AUTHORITY ADMINISTRATION UNDER UPDATE`
Authority information is currently being updated.

## 5. REFERENCES

Input Messages

```
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
DEL:PCGRP
RNM:PSSWD
VFY:PAUTH
VFY:PCGRP
```

Output Messages

```
VFY:PAUTH
VFY:PCGRP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ADD:PROFL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Adds a new profile to the list of user profiles. A profile is a set of command groups. A maximum of 64 profiles are allowed. These profiles can later be assigned to individual users.

## 2. FORMAT

**`ADD:PROFL,IDENT "a"!`**

## 3. EXPLANATION OF MESSAGE

`a` Identifying name of the profile to be added to the database. A maximum of eight characters may be used.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `MAXIMUM NUMBER OF PROFILES EXCEEDED`
— `PASSWORD ENHANCEMENT NOT ACTIVATED`
This command is valid only for applications running with the password enhancement feature enabled.
— `PROFILE IDENTITY NOT UNIQUE`
— `UNABLE TO ACCESS PROFILE ADMINISTRATION`

`OK` Good. Profile successfully added to the database.

`RL` Retry Later.

— `PROFILE ADMINISTRATION UNDER UPDATE`

## 5. REFERENCES

Input Messages
`ADD:PCGRP`
`CHG:PROFL`
`DEL:PCGRP`
`DEL:PROFL`
`VFY:PCGRP`
`VFY:PROFL`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`VFY:PCGRP`
`VFY:PROFL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ADD:TAUTH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Adds a terminal to the Terminal Authority (**`TAUTH`**) database.

## 2. FORMAT

**`ADD:TAUTH:TERM`** `"a"!`

## 3. EXPLANATION OF MESSAGE

`a` Terminal identity in four characters, starting with "`tty`".

## 4. SYSTEM RESPONSE

`NG` No Good.

— `INVALID TERMINAL IDENTITY`
The given terminal identity is either not four characters in length or does not start with "`tty`".

— `TERMINAL IDENTITY ALREADY EXISTS`
The given terminal identity already exists in the terminal authority administration.

— `UNABLE TO ACCESS AUTHORITY ADMINISTRATION`
Password or personal authority information is inaccessible.

`OK` Good. Terminal identity added to database.

`RL` Retry Later.

— `AUTHORITY ADMINISTRATION UNDER UPDATE`
Authority information is currently being updated.

## 5. REFERENCES

Input Messages
`DEL:TAUTH`
`VFY:TAUTH`

Output Message
`VFY:TAUTH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ADD:TCGRP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Associates a Command Group (**COMGR**) with a terminal Identity (**IDENT**), thus allowing a user to access only specific groups of commands from that terminal. The **IDENT** must already exist for the Terminal Command Group (**TCGRP**) in the Terminal Authority (TAUTH) database.

## 2. FORMAT

**ADD:TCGRP:IDENT** "a",**COMGR** b!

## 3. EXPLANATION OF MESSAGE

a — Terminal identity in four characters, starting with "tty".

b — Command group.

## 4. SYSTEM RESPONSE

NG — No Good.

— COMMAND GROUP ALREADY ASSIGNED TO THIS TERMINAL
The given command group has already been assigned to this terminal identity.

— INVALID TERMINAL IDENTITY
The given terminal identity is either not four characters in length or does not start with "tty".

— NON-EXISTING TERMINAL IDENTITY
The given terminal identity does not exist in the terminal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Terminal authority information is inaccessible.

OK — Good. Command group added to database.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
Authority information is currently being updated.

## 5. REFERENCES

Input Messages
ADD:TAUTH
DEL:TAUTH
DEL:TCGRP
VFY:TAUTH
VFY:TCGRP

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`VFY:TAUTH`

`VFY:TCGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:ADB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message allows the Automated Database Backup (**ADB**) to run.

## 2. FORMAT

**ALW:ADB,APP** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Customer name. Only IBGTT is supported currently. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Requested information will be output. |

## 5. REFERENCES

Input Messages
- INH:ADB
- OP:ADB
- START:ADB
- STOP:ADB

Output Message
- ALW:ADB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message allows Application Integrity Monitor (**AIM**) to restart a non-restartable child process.

## 2. FORMAT

**ALW:AIM;PROC** "a"!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Internal **AIM** child process name. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Illegal process name was given. To get a list of possible process names, execute an OP:AIM;PROC input command. |
| PF | Printout Follows. Message has been received and understood by **AIM**. **AIM** has removed the "inhibit" flag from the process so that the next time the process attempts to restart, it will not be restricted. To expedite the restart of the process, execute an EXC:AIM;PROC "a" input command. |

## 5. REFERENCES

Input Message
EXC:AIM
OP:AIM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AMA-AUTOST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Allows Automatic Message Accounting (AMA) tape writing.

## 2. FORMAT

**ALW:AMA;AUTOST[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 4. SYSTEM RESPONSE

IP In Progress. Request accepted. The **AMA** monitor process has been called to cancel manual blocking of **AMA** automatic tape writing sessions that were initiated via the INH:AMA-AUTOST input message. When the request is complete, the contents of the **AMA** control file will be output.

NG No Good. Data stream checks failed.

RL Retry Later. A message could not be sent to the **AMA** monitor process. Try again later. If the problem persists, refer to the AMA Task Oriented Procedures (TOPS) procedure for further resolution.

## 5. REFERENCES

Input Messages
EXC:AIM
INH:AMA-AUTOST
OP:AMA-CNTLFIL
OP:AMA-STREAM

Output Messages
REPT:AMA-CONT
REPT:AMA-CONTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AMA-SESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops manual blocking of all Automatic Message Accounting (**AMA**) teleprocessing sessions or tape writing operations.

## 2. FORMAT

**ALW:AMA;SESSION[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 4. SYSTEM RESPONSE

IP In Progress. Request accepted. The **AMA** monitor process has been called to cancel manual blocking of **AMA** teleprocessing or tape writing sessions that were initiated via the INH:AMA-SESS message. When the request is complete, the contents of the **AMA** control file will be output.

NG No Good. Data stream checks failed.

RL Retry Later. A message could not be sent to the **AMA** monitor process. Try again later. If the problem persists, refer to the AMA Task Oriented Procedures (TOPS) procedure for further resolution.

## 5. REFERENCES

Input Messages
INH:AMA-SESS
OP:AMA-CNTLFIL
OP:AMA-STREAM

Output Messages
REPT:AMA-CONT
REPT:AMA-CONTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AMA-SSPUNAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To turn on the Bell Operating Company (BOC) Service Switching Point (SSP) unanswered Telco study indicator so the unanswered Telco Automatic Message Accounting (**AMA**) records will be generated. Note the Telco records are Intra-LATA records.

The unanswered Telco BOC SSP AMA records are only generated when the study is turned on.

## 2. FORMAT

**ALW:AMA:SSPUNAS!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Once the SSP unanswered study indicator is turned on, a message is output indicating the study has been allowed. |

## 5. REFERENCES

Input Messages
INH:AMA-SSPUNAS
OP:AMA-SSPUNAS

Output Messages
ALW:AMA-SSPUNAS
REPT:AMA-SSPUNAS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows the routine execution of one or more audits controlled by the System Integrity Monitor (SIM) that were previously inhibited. Entering the `ALW:AUD` input message clears one or more audit inhibits previously set to the manually inhibited or automatically inhibited state.

Separate inhibit states are provided for:

— All audits. When the inhibit state for **`ALL`** audits is set, routine audit scheduling is completely turned off. Entering the `ALW:AUD` input message with the **`ALL`** option reinitializes the audit control subsystem and turns on routine audit scheduling, but it has no effect on the inhibit states of individual audits.
— Each audit, identified by audit name and member number. When an audit is inhibited either manually or automatically, it is not scheduled to run routinely or in response to a software request.
— Each instance of an audit. One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the `OP:AUD` input message.

## 2. FORMAT

**`ALW:AUD:{ALL`**`|a [b]|a c,`**`INS`** `"d"}`**`!`**

## 3. EXPLANATION OF MESSAGE

**`ALL`** Specifies all audits controlled by SIM.

Clears a master inhibit state which is independent of the inhibit states for individual audits. Causes SIM to attempt to initialize the audit control system if it has not been successfully initialized.

If the control record in the equipment configuration database for SIM has been modified, **`ALL`** causes SIM to reinitialize its internal control parameters according to the new content of the control record.

`a` Audit name. Computer audit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-B`.

**NOTE:** If `a` is specified without `b`, all members of the audit will be allowed.

`b` Member number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-B`.) May be specified as a single number or a list of numbers. See the *User Guidelines* in this document for instructions on entering lists of numbers.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `c` | Single member number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-B`.) |
| `d` | Instance name. |

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`. System Responses for Audit System Input Messages.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:AUD`
`APP:MEM-NUM-B`

Input Messages
`INH:AUD`
`OP:AUD`

Output Messages
`ALW:AUD`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:CONFLOG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows logging of all errors for a specified computer unit and any units beneath it that are reported to CONFIG. Error logging continues until the `INH:CONFLOG` input message is executed.

## 2. FORMAT

**`ALW:CONFLOG;`**`a b!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit name, as specified in the Unit Control Block (UCB). Computer unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `b` | Unit number, as specified in the UCB. See the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. Message syntax is invalid or the unit name or number does not exist in the Equipment Configuration Database (ECD). |
| `OK` | Good. Request completed. |
| `PF` | Printout Follows. Followed by an `ALW:CONFLOG` output message. |
| `RL` | Retry Later. ECD access failure. |

## 5. REFERENCES

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Appendix
`APP:MEM-NUM-C`

Input Message
`INH:CONFLOG`

Output Message
`ALW:CONFLOG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message allows the Data Consistency Check (**DCC**) capability. **DCC** must be allowed before it can be activated (via an `ACTV:DCC` input message) or started (via an `START:DCC` input message).

Format 1 allows all customer units to use the **DCC** capability.

Format 2 allows individual customer units to use the **DCC** capability.

## 2. FORMAT

[1] **ALW:DCC!**

[2] **ALW:DCC,APP** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The name of the APPDB customer unit for which **DCC** is to be allowed. Currently, `IBGTT` is the only **APP** keyword argument supported. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |

## 5. REFERENCES

Input Messages
- ACTV:DCC
- DEACTV:DCC
- INH:DCC
- OP:DCC
- START:DCC
- STOP:DCC
- VER:DCC

Output Message
- ALW:DCC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DCNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Allows the routine and software execution of one or more audits for a particular D-Channel Node (DCN) or for all DCNs which were previously inhibited. Entering the `ALW:DCNAUD` command clears one or more DCN audits in inhibited state.

Separate inhibit states are provided for:

- All audits. When the inhibit state for all audits is set, routine and software audit scheduling is completely turned off. Entering the **`ALW:DCNAUD`** command with the **`ALL`** option reinitializes DCN audits and turns on routine and software audit scheduling.
- Each audit. Identified by audit number. When an audit is inhibited it is not scheduled to run in routine and software mode. Entering the **`ALW:DCNAUD`** command with the audit number reinitializes the audit and turns on routine and software audit scheduling for that audit.
- All DCN's. When the inhibit state for all DCNs is set, routine and software audit scheduling is completely turned off for all DCNs. Entering the **`ALW:DCNAUD`** command with the **`ALL`** option reinitializes the audit and turns on routine and software audit scheduling for all DCNs.
- Each DCN. When the inhibit state for **`LN`**b `c` is set, routine and software audit scheduling is completely turned off for the requested DCN. Entering the **`ALW:DCNAUD`** command with the **`LN`**b `c` option reinitializes the audit and turns on routine and software audit scheduling for the requested DCN.

Audit inhibit states may be displayed by entering the `OP:DCNAUD` command.

**NOTE:** If the request is for **`ALL`** DCNs, then the output from each node will be printed on a separate output message.

## 2. FORMAT

**`ALW:DCNAUD`** `{a|`**`ALL`**`};{`**`LN`**`b c|`**`ALL`**`}!`

## 3. EXPLANATION OF MESSAGE

`a` DCN audit member number:

1 — Data Blocks audit.
2 — User Call Reference Value (CRV) Table audit.
3 — Network CRV Table audit.
4 — Channel ID Table audit.
5 — Idle Data Blocks List audit.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| **ALL** | All DCN audits. |
| b | DCN group number. |
| c | DCN member number. |
| **ALL** | All DCN nodes. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| | — Missing or unrecognized argument. |
| | — INVALID AUDIT<br>Invalid audit member number. |
| | — GRP/MEM OUT OF RANGE<br>Invalid group or member number. |
| NG | No Good. |
| | — DCNAP DOES NOT EXIST<br>The DCNAP process does not exist. |
| PF | Printout Follows. Followed by ALW:DCNAUD output message. |
| RL | Retry Later. |
| | — SEND MSG TO DCNAP FAIL<br>Send message to DCNAP process failed. |

## 5. REFERENCES

Input Messages
INH:DCNAUD
OP:DCNAUD

Output Messages
ALW:DCNAUD
INH:DCNAUD
OP:DCNAUD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DLNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Allows application database audits.

## 2. FORMAT

**`ALW:DLNAUD,APP {ALL|ATP|IBGTT|PCPGTT};AUD {ALL|REHASH}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`ALL`** | All application database audits or all audit types. |
| **`ATP`** | AT&T Trigger Platform data tables. |
| **`IBGTT`** | Inbound global title translation. |
| **`PCPGTT`** | Positive call processing global title translation. |
| **`REHASH`** | Background hash of data. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Message accepted and `ALW:DLNAUD` output message follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages
`INH:DLNAUD`
`OP:DLNAUD`

Output Messages
`ALW:DLNAUD`
`INH:DLNAUD`
`OP:DLNAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DMQ-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows previously inhibited or suspended sources to send automatic maintenance requests to the computer Maintenance Input Request Administrator (MIRA).

Format 1 reverses the effect of an inhibit source message (`INH:DMQ-A`) for a specified source of automatic maintenance requests.

Format 2 is valid only while execution of deferred maintenance requests is suspended during system recovery. It allows execution of deferred maintenance requests during system recovery.

## 2. FORMAT

[1] **`ALW:DMQ;SRC a!`**

[2] **`ALW:DMQ;RUN!`**

## 3. EXPLANATION OF MESSAGE

`a` Three-character source name:

- `ADP` — Automatic diagnostic process.
- `ALL` — Allows all automatic maintenance requests by clearing the inhibited sources.
- `REX` — Routine exerciser.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `INVALID KEYWORD`
The keyword in the stated parameter is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field. Input error of undetermined type.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `MISSING KEYWORD`
A required keyword is missing from the input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`PF` Printout Follows. Followed by an `ALW:DMQ` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D and 3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual,* Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D/3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`INH:DMQ-A`
`OP:DMQ`

Output Messages
`ALW:DMQ`
`OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:DMQ-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Allows previously inhibited or suspended sources to send automatic maintenance requests to the 3B20D/3B21D Maintenance Input Request Administrator (MIRA).

Format 1 reverses the effect of an inhibit source message (`INH:DMQ-B`) for a specified source of automatic maintenance requests.

Format 2 is valid only while execution of deferred maintenance requests is suspended during system recovery. It allows execution of deferred maintenance requests during system recovery.

## 2. FORMAT

[1] **`ALW:DMQ;SRC a!`**

[2] **`ALW:DMQ;RUN!`**

## 3. EXPLANATION OF MESSAGE

`a` Three-character source name:

- `ADP` — Automatic Diagnostic Process.
- `ALL` — Allows all automatic maintenance requests by clearing the inhibited sources.
- `ARR` — Automatic Ring Recovery.
- `ART` — Request from ARTS to remove/restore a node.
- `CNR` — Critical Node Restore (End Isolated Segment/Begin Isolated Segment [EISO/BISO] restore).
- `ISR` — Interprocess Message Switch User Node (IUN) Soak Restore.
- `NOD` — Request from ARTS to remove/restore a node due to a link being out of service for 15 minutes.
- `REX` — Routine Exerciser.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `INVALID KEYWORD`
The keyword in the stated parameter is not a valid keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?E` Error exists in the message but cannot be resolved to the proper field. Input error of undetermined type.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `MISSING KEYWORD`
A required keyword is missing from the input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`PF` Printout Follows. Followed by an `ALW:DMQ` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System Diagnostics Programmer's Manual Volume 6*

CIC Select Code 304-046, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-220, *System Diagnostic - Description*, 3B20D/3B21D Processor Section

Practice 256-090-182, *CNI Maintenance Manual*, Link Operating Procedures Section

Input Messages
`INH:DMQ-B`
`OP:DMQ`

Output Messages
`ALW:DMQ`
`OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ALW:EAIINT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Allows the logging and processing of Emergency Action Interface (EAI) error interrupts from the 3B21D computer Control Unit (**CU**) specified in the identification field. If a **CU** is not specified with the input command, EAI error interrupts for both **CU**s are allowed.

**NOTE:** The 3B20D/3B21D computer **CU**s do not have EAI error interrupts.

## 2. FORMAT

[1] **ALW:EAIINT!**

[2] **ALW:EAIINT;CU** a!

## 3. EXPLANATION OF MESSAGE

a — **CU** number (0–1).

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— INPUT ERROR

PF — Printout Follows. Followed by the ALW:EAIINT output message.

## 5. REFERENCES

Input Messages
- ALW:ERRCHK
- INH:EAIINT
- OP:ERRCHK

Output Messages
- ALW:EAIINT
- INH:EAIINT
- OP:ERRCHK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:ERRCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows the logging and processing of all computer error sources. This message causes the inhibit administrator to set the inhibit status to allow for all computer inhibit sources. These include HDWCHK, SFTCHK, EAIINT, ERRINT, and the ERRSRC representing the Control Unit (CU) complexes.

**NOTE:** The 3B20D/3B21D computer CUs do not have Emergency Action Interface (EAI) Error Interrupts (EAIINT).

## 2. FORMAT

**`ALW:ERRCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `ALW:ERRCHK` output message. |

## 5. REFERENCES

Input Messages
- `ALW:EAIINT`
- `ALW:ERRINT`
- `ALW:ERRSRC`
- `ALW:HDWCHK`
- `ALW:SFTCHK`
- `INH:ERRCHK`
- `OP:ERRCHK`

Output Messages
- `ALW:ERRCHK`
- `INH:ERRCHK`
- `OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ALW:ERRINT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the logging and processing of error interrupts attached to the unit specified in the identification field be allowed. If a unit name is not specified with the input command, then error interrupts for all computer units are allowed.

## 2. FORMAT

**`ALW:ERRINT`**`[;{a b[,c d]}]!`

## 3. EXPLANATION OF MESSAGE

`a` Unit name. Computer unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`.

**NOTE:** Allowing a Control Unit (CU) in an active/standby duplex configuration allows both CUs since they must be kept in identical states.

`b` Unit number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-C`.)

`c` Subunit name, if unit name is `CU`. Subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`.

`d` Subunit number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-D`.)

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INPUT ERROR`
Possibly indicates the unit name and number specified cannot be found in the database.

`NG` No Good.

— `UNEQUIPPED UNIT`
Indicates unit name and number specified was found in the database, but is unequipped.

`PF` Printout Follows. Followed by `ALW:ERRINT` output message.

## 5. REFERENCES

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:ERRCHK
INH:ERRINT
OP:ERRCHK
```

Output Messages

```
ALW:ERRINT
INH:ERRINT
OP:ERRCHK
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:ERRSRC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the logging and processing of errors specific to the pseudo-nodes representing the computer Control Unit (CU) communities be allowed.

This message causes the inhibit administrator to set the inhibit status to allowed for the CU pseudo-nodes.

## 2. FORMAT

**`ALW:ERRSRC [AM]!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by `ALW:ERRSRC` output message. |

## 5. REFERENCES

Input Messages
- `ALW:ERRCHK`
- `INH:ERRSRC`
- `OP:ERRCHK`

Output Messages
- `ALW:ERRSRC`
- `INH:ERRSRC`
- `OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . ALW:F-ACCESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect permission values can prevent the system from accessing needed files or executing commands and processes.**

## 1. PURPOSE

Changes the access permissions of a specific file. Permissions allow the owner, group, and others to read, write, and execute a file.

## 2. FORMAT

**`ALW:FILESYS:ACCESS`** `a`**`,FN`** `"b"`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` A 3-digit number giving access permissions for owner, group and others, in that order.

`1` — Execute (search in directory) only.
`2` — Write only.
`3` — Write and execute (search).
`4` — Read only.
`5` — Read and execute (search).
`6` — Read and write.
`7` — Read, write, and execute (search).

`b` Full pathname of the file or directory. See the *User Guidelines* in this document for definitions of pathname, file, and directory.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `ALW:F-ACCESS` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`ALW:F-OWNER`
`OP:ST-LSTDIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`ALW:F-ACCESS`
`OP:ST-LSTDIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:F-MOUNT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows a removable file system to be mounted.

## 2. FORMAT

**ALW:FILESYS:MOUNT,FN** "a"**,BSDIR** "b"[**,RO**][**,AUD**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Special device filename of the file system to be mounted. See the *User Guidelines* in this document for definitions of special device name and file system. |
| b | The base directory of the mounted file system, from which all file names in that file system must descend. |
| **RO** | File system is to be mounted read only. |
| **AUD** | File manager is to audit the file system prior to mounting it. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the ALW:F-MOUNT output message and a PRM output message. |

## 5. REFERENCES

Display/Menu Page Name
CRAFT FM 01

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
INH:F-UMOUNT
OP:ST-FILESYS

Output Messages
ALW:F-MOUNT
OP:ST-FILESYS

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . ALW:F-OWNER
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect owner specifications can prevent the system from accessing needed files.**

## 1. PURPOSE

Changes the owner and group of a specific file.

## 2. FORMAT

```
ALW:FILESYS:OWNER "a",FN "b"!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | User ID of the new owner of the file. |
| b | Pathname of the file. See the *User Guidelines* in this document for definitions of pathname, file and directory. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the `ALW:F-OWNER` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`ALW:F-ACCESS`

Output Message
`ALW:F-OWNER`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message allows the File Transfer and Activation (**FTA**) capability. **FTA** must be allowed before files can be transferred or activated via the **FTA** capability.

Format 1 allows all customers to use the **FTA** capability.

Format 2 allows individual customers to use the **FTA** capability.

## 2. FORMAT

[1] **ALW:FTA!**

[2] **ALW:FTA,APP** a**!**

## 3. EXPLANATION OF MESSAGE

a — The name of the **FTA** customer for which **FTA** is to be allowed:

CORE

IBGTT

OBGTT — Refers to the PCP customer.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
- INH:FTA
- OP:FTA
- START:FTA
- STOP:FTA

Output Messages
- ALW:FTA
- INH:FTA
- OP:FTA
- START:FTA
- STOP:FTA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:HDWCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Sets the system status register such that a Control Unit (CU) switch can be implemented as a normal fault recovery procedure, thereby allowing a switch to the standby computer control unit when a fault occurs in the active computer control unit.

## 2. FORMAT

**`ALW:HDWCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `ALW:HDWCHK` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`ALW:ERRCHK`
`INH:HDWCHK`
`OP:ERRCHK`

Output Messages
`ALW:HDWCHK`
`INH:HDWCHK`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:ICDR-SESSION
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops manual blocking of all International Call Detail Recording (**ICDR**) teleprocessing sessions.

## 2. FORMAT

**ALW:ICDR;SESSION!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Request accepted. The **ICDR** monitor process has been called to cancel manual blocking of **ICDR** teleprocessing sessions that were initiated via the INH:ICDR-SESSION message. When the request is complete, the contents of the **ICDR** control file will be output. |
| RL | Retry Later. A message could not be sent to the **ICDR** monitor process. Try again later. If the problem persists, refer to the ICDR Task Oriented Procedures (TOPS) procedure for further resolution. |

## 5. REFERENCES

Input Messages
INH:ICDR-SESSION
OP:ICDR-CONTROL
OP:ICDR-RECORD

Output Messages
REPT:ICDR-CONT
REPT:ICDR-CONTAUD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:RCV-APPDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Deactivates the "DLN Inhibit" feature and the GTT10D Recent Change inhibits.

Format 1. Deactivates "DLN Inhibit" feature. This will allow the ability to perform recent changes to the Inbound GTT10D Database until the inhibit is activated with the `INH:RCV-APPDB` command or via the "DLN Inhibit" trigger in the GTT10D Recent Change software.

Format 2. Deactivates the "non-DLN Inhibit" GTT10D RC inhibits which are used to inhibit specific customer recent changes (or `ALL`) to the GTT10D Database without invoking the emergency alarms associated with the "DLN Inhibit" feature. These inhibits are useful when making GTT10D Database backups, or when initializing the database, or any time the customer needs the database or a particular customer's database unit to be in a "quiescent state."

## 2. FORMAT

[1] **`ALW:RCV:APPDB!`**

[2] **`ALW:RCV:APPDB,APP a!`**

## 3. EXPLANATION OF MESSAGE

`a` Non-DLN inhibit to be allowed:

`ALL` — All of the "non-DLN" inhibits.

`ATP` — AT&T Trigger Platform (ATP) Recent Change.

`IBGTT` — 800 and 900 service Recent Change.

`PCPGTT` — PCP GTT service Recent Change.

**NOTE:** When one GTT10D RC customer is allowed, this has no effect on other GTT10D RC customers, unless the `ALL` keyword argument is used.

## 4. SYSTEM RESPONSE

`OK` Good. Message accepted.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
COPY:APPDB
INH:RCV-APPDB
INIT:APPDB
OP:INH-APPDB
```

Output Messages

```
ALW:RCV-APPDB
INH:RCV-APPDB
OP:INH-APPDB
RC:MISC-FHT-FTA
REPT:INH-RCV-APPD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:REX
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows Routine Exercise (**REX**) for one or more hardware communities by clearing the **REX** temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has **REX** permanently inhibited, its **REX** temporary inhibit is not available.

## 2. FORMAT

**ALW:REX:**{a [b]|**ALL**}!

## 3. EXPLANATION OF MESSAGE

a — Unit name of a major community controller. Applications may add additional major controllers which may be allowed by this command. The computer controllers are:

- CU —Control unit.
- DCI —Dual serial channel/computer interconnect.
- IOP —Input/output processor.

b — Unit number (see the Input Member Numbers Appendix, APP:MEM-NUM-C.) If not specified, then all controllers with the specified unit name are allowed.

**ALL** — Clear the temporary **REX** inhibits for all major community controllers that are not permanently inhibited from **REX**.

## 4. SYSTEM RESPONSE

?D — Data field contains an error.

NG — No Good. **REX** is permanently inhibited for the unit specified, or for all the units specified.

OK — Good. **REX** is allowed for the unit specified, or for at least one of the units specified.

PF — Printout Follows. Followed by an ALW:REX output message.

RL — Retry Later. The database manager or a database record could not be opened, try again at a later time. If this persists, seek technical assistance.

## 5. REFERENCES

Input Appendix
APP:MEM-NUM-C

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:DMQ-B
INH:DMQ-B
INH:REX
OP:DMQ
OP:REXINH
```

Output Messages

```
ALW:REX
OP:DMQ
OP:REXINH
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:REX-RPCD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Allows Routine Exercises (**REX**) of **RPCD** Direct Link Nodes (DLN).

## 2. FORMAT

**ALW:REX:RPCD**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (1–15). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Usually invalid unit name. |
| OK | Good. Routine exercises are allowed for the RPCD DLN specified. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-220, *System Diagnostic - Description*, 3B20D/3B21D Processor Section

Input Messages
INH:REX
INH:REX-RPCD
OP:REXINH

Output Messages
OP:DMQ
OP:REXINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:REX-RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Allows Routine Exercises (**REX**) of Ring Peripheral Control Nodes (**RPCN**).

## 2. FORMAT

**ALW:REX:RPCN**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (0). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Usually invalid unit name. |
| OK | Good. Routine exercises are allowed for the **RPCN** specified. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-220, *System Diagnostic - Description*, 3B20D/3B21D Processor Section

Input Messages
INH:REX
INH:REX-RPCN
OP:REXINH

Output Messages
OP:DMQ
OP:REXINH

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . ALW:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**

Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.

## 1. PURPOSE

Requests the allowing of RGRASP breakpoint(s).

Format 1 allows all breakpoints in the specified node.

Format 2 allows a specific breakpoint in the specified node.

## 2. FORMAT

[1] **`ALW:RUTIL (a,b),AP[;MHIT d]!`**

[2] **`ALW:RUTILFLAG (a,b),AP;BP c[,MHIT d]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0-63`). |
| `b` | Member number (`1-15`). |
| `c` | The specific breakpoint to be allowed. |
| `d` | The maximum number of hits to be allowed for that breakpoint. (If not specified, **`MHIT`** is set to 10.) |

## 4. SYSTEM RESPONSE

An attempt will be made to allow the specified breakpoint in the specified node. The user will be informed about the result of this operation.

When this breakpoint has fired **`MHIT`** times, it will automatically become inhibited (disabled).

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
CLR:RUTIL
INH:RUTIL
OP:RUTIL
WHEN:RUTIL
```

Output Message

```
ALW:RUTIL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ALW:SCSD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Allows transitions of a Scanner and Signal Distributor (**SCSD**) scan point to be reported. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

## 2. FORMAT

[1] **ALW:SCSD;UNIT** a:**PT** {b|(b,b[,b,b,b,b,b,b...])}!

[2] **ALW:SCSD;GRPN** "c",**DUPID** d:**PT** {e|(e,e[e,e,e,e])}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | **SCSD** unit member number (0–16). |
| b | Physical scan point number on an **SCSD** (0–47). |
| c | Name of the logical **SCSD** group. Examples are: FANALM0, FANALM1, FANACU0, FANACU1, PDF0, PRSWCU0, PRSWCU1, PRSWIOP0, PRSWIOP1, PRSWDFC0, PRSWDFC1, PRSWMHD0, PRSWMHD1, PRSWPD0, PTSWROP, PTSWMCR |
| d | Duplex point Identification (ID) (0–1). |
| e | Number of a point within a logical group (0–5). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. The **SCSD** administrator process is not active; no communication with **SCSD** points is possible. |
| PF | Printout Follows. Followed by an ALW:SCSD output message. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-301-110 *Input-Output Processor Peripheral Controllers Description and Theory of Operation Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
INH:SCSD
OP:SCSD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ALW:SCSD
RCVRY:SCSDC
REPT:FAN
REPT:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:SFTCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Allows the software error handling routines to incorporate system initialization into their error recovery procedures as a means of handling computer software sanity problems.

## 2. FORMAT

**`ALW:SFTCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by an `ALW:SFTCHK` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`ALW:ERRCHK`
`INH:SFTCHK`
`OP:ERRCHK`

Output Messages
`ALW:SFTCHK`
`INH:SFTCHK`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TRACE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

This command, along with `INH:TRACE`, input message forms the basic on/off mechanism for trace. Until this command is issued, no trace report will be attempted (although it will consume a certain amount of fixed overhead). After this command is entered, tracing will take place according to the previously input trace parameter settings. The parameter settings may be changed at any time via the `SET:TRACE` input message (whether tracing is allowed or inhibited).

1. The **`TRACE`** craft process **`ALW:TRACE`** joins the terminate class associated with **`TRACE`** process `tdcp.p`. The craft process will be aborted whenever `tdcp.p` is aborted by its owner, which may be either the Interprocess Message Switch (IMS) or an application.
2. In the 3B, copies the system-detail-flag structure into the user-detail-flag structure and sets the global trace-activity flag.
3. Sends an updated Local Trace Control Block structure to NPs.

**NOTE:** The IMS driver process must be running before trace updates can be sent to the Node Processors.

## 2. FORMAT

**`ALW:TRACE!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`INH:TRACE`
`OP:TRACE`
`SET:TRACE`

Output Messages
`ALW:TRACE`
`INH:TRACE`
`OP:TRACE`
`REPT:TRACE`
`SET:TRACE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:TRAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests activation of a pending trap that was entered by the `SET:TRAP` command. In addition, this command will allow a trap to be resumed that was temporarily suspended/inhibited or a trap that has completed due to duration or message count criterion being satisfied. Traps that have been aborted before completing can be restarted via an **`ALW:TRAP`** command. Traps that have been stopped by a `STOP:TRAP` command cannot be reactivated with an **`ALW:TRAP`** command. These traps can only be activated by entering a new `SET:TRAP` command.

Traps will be activated for the specified Identification (ID) numbers. Appropriate error/diagnostic messages will be printed.

## 2. FORMAT

**`ALW:TRAP:ID`** `{a|(a,a...)|`**`ALL`**`}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Trap identification number or numbers. This can be specified as a single ID, a list of IDs or all IDs. |
| **`ALL`** | All applicable trap identification numbers. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
`INH:TRAP`
`SET:TRAP`
`STOP:TRAP`

Output Message
`ALW:TRAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . ALW:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.**

## 1. PURPOSE

Causes the computer Generic Access Package (GRASP) transfer trace to start monitoring the flow of execution, as previously set up with an `INIT:UMEM` message. The transfer trace goes into the running state with successful completion of the message. This message can be used either as an immediate action, or it can be used in the action list of a `WHEN` command.

## 2. FORMAT

**`ALW:UMEM`**`{/|!}`

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. General syntax error. |
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `NG` | No Good. No trace is defined. |
| `PF` | Printout Follows. Followed by an `ALW:UMEM` output message. |
| `RL` | Retry Later. Or wait for the previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. The system is in an overload condition. |

## 5. REFERENCES

Input Messages
- `INH:UMEM`
- `INIT:UMEM`
- `OP:UMEM`
- `OP:UTIL`
- `WHEN:PID`
- `WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`ALW:UMEM`
`OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . ALW:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Use of this GRASP capability can degrade system performance. It should not be used without expert technical assistance.**

## 1. PURPOSE

Enables all currently defined computer Generic Access Package (GRASP) breakpoints so that the associated actions are executed when the breakpoint conditions occur.

## 2. FORMAT

**`ALW:UTIL`**`{!|/}`

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `NG` | No Good. No GRASP breakpoints are currently defined. |
| `PF` | Printout Follows. Followed by an `ALW:UTIL` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `ALW:UTILFLAG`
- `INH:UTIL`
- `OP:UMEM`
- `OP:UTIL`
- `WHEN:PID`
- `WHEN:UID`

Output Messages
- `ALW:UTIL`
- `OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ALW:UTILFLAG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Enables a specific computer Generic Access Package (GRASP) breakpoint so that the associated actions are executed when the breakpoint condition occurs. The `ALW:UTILFLAG` message can be used to enable a breakpoint immediately, or as an action associated with a breakpoint.

## 2. FORMAT

**`ALW:UTILFLAG`** `a{!|/}`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Numeric identifier (one or more decimal digits) for the breakpoint to be enabled. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. The message was added to the `WHEN` action list. |
| `NG` | No Good. Identifier does not correspond to a currently defined breakpoint. |
| `PF` | Printout Follows. Followed by the `ALW:UTILFLAG` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`ALW:UTIL`
`INH:UTILFLAG`
`OP:UMEM`
`OP:UTIL`
`WHEN:PID`
`WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ALW:UTILFLAG
OP:UTIL
WHEN:PID
WHEN:UID
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APPLY:OMDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Applies previous updates to the new copy of the Output Message Database (**`OMDB`**) disk file during field update.

## 2. FORMAT

**`APPLY:OMDB!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`IP` In Progress. Followed by an `APPLY:OMDB` output message.

## 5. REFERENCES

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`ACTV:OMDB`
`OP:OMDB`
`UPD:OMDB`

Output Message
`APPLY:OMDB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . ATR:T1M
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Allows the user to specify a special DS1 performance data collection for a specified duration of time, with or without a test signal and or loopback and report the performance data status for the Near, Far or Both Universal Link Nodes (ULN) T1 termination ends of the link at the end of the specified duration. The capability to terminate the request prior to the expiration of the specified duration is also provided. ATR combines the `EXC:T1M` capabilities and a subset of the `OP:T1M` capabilities under one command request. The same restrictions that apply to the `EXC` and `OP` capabilities apply to the ATR command as well. For the T1 termination(s) from which data is to be collected, the ATR output [message] provides the T1 termination's current status, performance counts for included 15 minute intervals, and summary performance counts which reflect the total change for each different count that occurred during the specified test duration.

`ATR:T1M` like `EXC:T1M`, when testing, keep in mind the master-slave clocking relationship between the near-end and far-end ULNs. The ULN with clocking provides clocking for the T1 signal. If a payload or line loopback toward the facility is activated at the master side, this clocking source is isolated (lost). Lost of a clocking source leads to T1 signal failure, and the T1 performance data collected under this flawed "lost clock source test condition" is meaningless.

On low-density, high-density, all-zeros, and quasi-random signal testing, expect no permissible T1 error counts to increase. Check these counts by referring to the failed-seconds and similar measurements in the performance count portion of the ATR output message.

The 8-Bit Current Status of the T1 Device, variable-field definition H; will be especially useful for checking T1 signal alarm conditions and a test activity summary indication.

The `ATR:T1M` command causes the start/stop of a test that allows for the activation of a test signal, and a loopback and setting the duration the test is to be exercise. At the stop or the duration expiration a performance data status report will be generated.

## 2. FORMAT

[1] **ATR:T1M,START,LN**a b[;{**SIG** c,**LB** d|**SIG** c|**LB** d}];**STATUS** e,**DUR** f!

[2] **ATR:T1M,STOP,LN**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The group number of the link node (00–63). |
| b | The member number of the link node (1–15). |

SEE PROPRIETARY NOTICE ON COVER PAGE

c

`FEHDTST` — Far End High Density Test. This test, generated from the far-end ULN, determines the DS1 data stream's ability to carry an all-1's test signal with valid framing bits and CRC6 values.

`FELDTST` — Far End Low Density Test. This test, generated from the far-end ULN, is used to check/stress the DS1 facility's ability to carry an 8-bit pattern (00000001) repeated across the DS1 bit stream, with valid F-bits overwriting the pattern.

`FEAZTST` — Far End All Zero Test. This test, generated from the far-end ULN, determines the DS1 data stream's ability to carry an all-0's test signal with valid framing bits and CRC6 values.

`FEQRTST` Far End Quasi-Random Test. This test, generated from the far-end ULN, simulates live data and is used to check/stress the DS1 facility's ability to carry a quasi-random payload bit pattern. This test signal conforms to ANSI T1.403 standard and consists of a quasi-random payload bit sequence with valid framing bits and CRC6 values.

`FEYTST` — Far End Yellow Test. This test, generated from the far-end ULN, determines the ability of the DS1 data stream's 4-K ESF data link to carry alternating octets of 1's and 0's.

`NEHDTST` — Near End High Density Test. This test, generated from the near-end ULN, determines the DS1 data stream's ability to carry an all-1's test signal with valid framing bits and CRC6 values.

`NELDTST` — Near End Low Density Test. This test, generated from the near-end ULN, is used to check/stress the DS1 facility's ability to carry an 8-bit pattern (00000001) repeated across the DS1 bit stream, with valid F-bits overwriting the pattern.

`NEAZTST` — Near End All Zero Test. This test, generated from the near-end ULN, determines the DS1 data stream's ability to carry an all-0's test signal with valid framing bits and CRC6 values.

`NEQRTST` — Near End Quasi-Random Test. This test, generated from the near-end ULN, simulates live data and is used to check/stress the DS1 facility's ability to carry a quasi-random payload bit pattern. This test signal conforms to ANSI T1.403 standard and consists of a quasi-random payload bit sequence with valid framing bits and CRC6 values.

`NEYTST` — Near End Yellow Test. This test, generated from the near-end ULN, determines the ability of the DS1 data stream's 4-K ESF data link to carry alternating octets of 1's and 0's.

SEE PROPRIETARY NOTICE ON COVER PAGE

d

FELL — Far End Line Loopback. This DS1 data loopback is inserted in the far-end ULN toward the facility, to determine the DS1 data stream's ability to receive a DS1 signal and loop it back unchanged. If the far-end is the master side, it provides the ULN clock signal. This clocking signal will be lost if a line loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable. Line loopback is a physical loopback and does not regenerate CRC or framing of the data. Also the ability to put data onto the path from the far end is lost when a line loopback is active, therefore no far-end performance data can be collected across the T1 ESF data link during a line loopback activation by the other end.

FEDL — Far End Data/Payload Loopback. This DS1 data loopback is inserted in the far-end ULN toward the facility, to determine the DS1 data stream's ability to send and receive a DS1 signal. If the far-end is the master side, it provides the ULN clock signal. This clocking signal will be lost if a payload loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable.

NEDL — Near End Data/Payload Loopback. This DS1 data loopback is inserted in the near-end ULN toward the facility, to determine the DS1 data stream's ability to send and receive a DS1 signal. If the near-end is the master side, it provides the ULN clock signal. This clocking signal will be lost if a payload loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable.

e

BOTH — Both ULNs, the near-end and far-end are where the performance data status is to be reported on (OP:T1M for ATR).

FEULN — The ULN at the far-end is where the performance data status is to be reported on (OP:T1M for ATR).

NEULN — The ULN at the near-end is where the performance data status is to be reported on (OP:T1M for ATR).

f

Duration of the test, increments are allowed in minutes (1–720).

## 4. SYSTEM RESPONSE

?A — Action field contains an error.

?D — Data field contains an error.

?I — Identification field contains an error.

PF — Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

MCRT Display Page

`1111 Page` for the poke command for `ATR:T1M`

Input Messages

`CLR:T1M`
`EXC:T1M`
`OP:T1M`
`SET:T1M`

Output Messages

`ATR:T1M`
`CLR:T1M`
`EXC:T1M`
`OP:T1M`
`SET:T1M`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:AMARR-1
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audit the Automatic Message Accounting (AMA) Recording Registers (**AMARR**). There is 1 member of the **AMARR** group. When the audit is in processing, the data from 1B to 3B might be blocked. Therefore, this input is not recommended when the traffic volume is high.

## 2. FORMAT

**AUD:AMARR 1,INS MANUAL!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

See the Input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities - Description*

Input Appendix
APP:AUD

Input Messages
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR

Output Messages
AUD:AMARR-1
OP:AUD
OP:AUDERR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:APDRV
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Audits the Attached Processor Driver (**APDRV**) resources. There are four members of the **APDRV** group:

**APDRV 1** - **APDRV** buffer allocation audit.

**APDRV 2** - **APDRV** table audit.

**APDRV 3** - **APDRV** 1B status file integrity audit.

**APDRV 4** - **APDRV** disk cache audit.

Format 1 audits members 1 or 4 of the **APDRV** group.

Format 2 audits members 2 or 3 of the **APDRV** group.

## 2. FORMAT

[1] **AUD:APDRV** {**1**|**4**},**INS** a[;{b|c|b,c}]!

[2] **AUD:APDRV** {**2**|**3**}[,**INS** a][;{b|c|b,c}]!

## 3. EXPLANATION OF MESSAGE

**INS** The following members require the use of the **INS** keyword:

**1** — Buffer allocation audit.

**4** — Disk cache audit.

The following members do not require the use of the **INS** keyword:

**2** — Table audit.

**3** — 1B status file integrity audit.

a Instance to be audited for member numbers:

**1** — Buffer name should be provided as the instance name:

DMABUF — Direct memory access buffer.

FMIBUF — File manager interface buffer.

**2** — Table name can be provided as the instance name:

DISKBUF — Disk buffer administration table.

SEE PROPRIETARY NOTICE ON COVER PAGE

**3** — 1B status file audit type can be provided as the instance name:

`STATFLAGS` — Audit on the file status flags.

**4** — Disk cache audit type must be provided as the instance name:

`CACHEBAL` — Audit on the disk cache blocked address list.

`CACHECCB` — Audit on the disk cache control block.

`b` Specifies whether the audit should correct errors:

`CORR` — Indicates correction should occur. Default value.

`NCG` — Inhibits error correction.

`c` Specifies the level of detail of error reporting:

`DETL` — Generate a raw data report for each error found. Default value. (Only a limited number of raw data reports will be generated.)

`SUM` — Generate only an audit completion message when the audit terminates.

If `SUM` is specified, only an audit completion message will be generated when the audit terminates. Raw data will not be reported for any errors that are found.

## 4. SYSTEM RESPONSE

See Input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

File Name
`APDRV`

Input Appendix
`APP:AUD`

Input Message
`OP:AUD`

Output Messages
`AUD:APDRV1`
`AUD:APDRV2`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:ATP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audit the **ATP** node internal data.

## 2. FORMAT

**AUD:ATP** a,**INS** "**LN**b-c"!

## 3. EXPLANATION OF MESSAGE

a — **ATP** audit member number:

1 — Idle call block list audit.
2 — Active call block audit.
3 — TSN table audit.
4 — Timers list audit.
5 — Access table audit.
6 — Ring write buffers audit.
7 — Internode (call blocks) audit.
8 — Database pointers audit.

b — **ATP** group number.

c — **ATP** member number.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Followed by an AUD:ATP output message.

For other responses, see the Input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendix
APP:AUD

Output Message
AUD:ATP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:CNC-1
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

To initiate the Central Node Control (**CNC**) audit. This audit is also routinely executed.

Internal ring node maintenance records are audited for inconsistencies which could prevent jobs (such as RST:LN) from progressing or cause jobs to be unnecessarily aborted.

**NOTE:** Routine execution of this audit may be inhibited by UNIX® RTR during outages of the IMS subsystem. This can be checked by using the OP:AUD command and routine execution can be resumed by using the ALW:AUD command.

## 2. FORMAT

**AUD:CNC 1**[;{a|b|a,b}]!

## 3. EXPLANATION OF MESSAGE

a — Specifies whether the audit should correct errors.

- CORR — Indicates correction should occur. Default value.
- NCG — Inhibits error correction.

b — Specifies the level of detail of error reporting.

- DETL — Generate a raw data report for each error found. Default value.
- SUM — Generate only an audit completion message when the audit terminates.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* Audits Section

Input Messages
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
RST:LN
STOP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
AUD:CNC-1
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . AUD:CUMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This audit can take more than 180 minutes to run and can degrade the performance of other UNIX® RTR system audits. Excessive audit errors may result in a hardware reconfiguration with one CU being left out of service.**

## 1. PURPOSE

Runs the standby Control Unit Memory (**CUMEM**) 1 audit in the standby Control Unit (CU), comparing the contents of the online and off-line main stores when in the ACT/ACT or ACT/STBY modes.

## 2. FORMAT

**AUD:CUMEM 1**[;a|;b|;a,b]!

## 3. EXPLANATION OF MESSAGE

a — Specifies whether the audit should correct errors:

- CORR — Audit should correct errors (default).
- NCG — Audit does not correct errors.

b — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
APP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
OP:AUD
RST:CU
STOP:AUD
```

Output Messages

```
AUD:CUMEM
OP:AUD
OP:OOS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . AUD:CUSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Excessive audit errors may result in a hardware reconfiguration with one Control Unit (CU) being left out of service.**

## 1. PURPOSE

Runs the Control Unit Hardware Status (**`CUSTAT`**) audit in the manual mode.

## 2. FORMAT

**`AUD:CUSTAT 1`**`[;a|;b|;a,b]!`

## 3. EXPLANATION OF MESSAGE

`a` Specifies whether the audit should correct errors:

- `CORR` — Audit should correct errors (default).
- `NCG` — Audit does not correct errors.

`b` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`AUD:CUSTAT`

`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:DADC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Executes one of the Direct Access Data Channel (**DADC**) audits. All **DADC** audits are concerned with the Trunk Scanner Number (TSN) <--> Ring Node Address (RNA) + Link Inhibit Denied (LID) translation that takes place on the 3B processor.

**NOTE:** These audits are correcting mode only.

## 2. FORMAT

**AUD:DADC** a[;b]!

## 3. EXPLANATION OF MESSAGE

a — Audit member number:

1 — Recalculate 3B hash values and compare these with 1B disk file hash values.

2 — Compare 3B hash values with 1B disk file hash values.

3 — Full pump of 3B DADC translators from 1B disk file.

b — Specifies the level of detail of error reporting:

DETL — Generate a raw data report for each error found followed by an audit completion message. (A limited number of reports is generated.) Default value.

SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the Input Audit Appendix, APP:AUD.

## 5. REFERENCES

Input Appendix
APP:AUD

Input Messages
ALW:AUD
INH:AUD
OP:AUD
STOP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:DCNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audit the D-Channel Node (DCN) internal data.

## 2. FORMAT

**`AUD:DCNAUD`** `a;LN`b `c!`

## 3. EXPLANATION OF MESSAGE

`a` DCN audit member number:

1 — Data blocks audit.
2 — User Call Reference Value (CRV) Table audit.
3 — Network CRV table audit.
4 — Channel Identification (ID) table audit.
5 — Idle data blocks list audit.

`b` DCN group number.

`c` DCN member number.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INVALID AUDIT` — Invalid audit member number.
— `GRP/MEM OUT OF RANGE` — Invalid group or member number.

`NG` No Good.

— `DCNAP DOES NOT EXIST` — The DCNAP process does not exist.

`PF` Printout Follows. Followed by an `AUD:DCNAUD` output message.

`RL` Retry Later.

— `SEND MSG TO DCNAP FAIL` — Send message to DCNAP process failed.

## 5. REFERENCES

Output Message
`AUD:DCNAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:DLN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audits the Direct Link Node (DLN) AT&T Communication Interface (ACI)/ Integrated Services Digital Network User Part (ISUP) translation Office Data Administration (ODA) database.

## 2. FORMAT

**AUD:DLN** a,**INS** "**LN**b-c"!

## 3. EXPLANATION OF MESSAGE

a — **DLN** audit member number:

1 — Compare **DLN** and 1B hash words.
2 — Compare **DLN** and 1B ACI/ISUP translation data.
3 — **DLN** performs hash of its ACI/ISUP translation data.

b — **DLN** group number.

c — **DLN** member number.

## 4. SYSTEM RESPONSE

NG — No Good. Specified audit is not in the audit control table.

PF — Printout Follows. Followed by an AUD:DLN output message.

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Message
AUD:DLN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:DLNCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audits Direct Link Node Configuration Manager (**DLNCM**) internal data structures.

## 2. FORMAT

**AUD:DLNCM** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Audit member number (1). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Specified audit is not in the audit control table. |
| PF | Printout Follows. Followed by an AUD:DLNCM output message. |

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Message
AUD:DLNCM

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . AUD:ECD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Running ECD audit 1 or 3 while diagnostics are running can result in mutilation of database records.**

## 1. PURPOSE

Audits the Equipment Configuration Database (**ECD**).

Format 1 audits the incore **ECD**.

Format 2 runs a structural audit of the minimum configuration **ECD**.

Format 3 runs a structural audit of the full configuration **ECD**.

## 2. FORMAT

[1] **AUD:ECD** a[;b|;c|;b,c]!

[2] **AUD:ECD 2,INS** "ecd"[;b|;c|;b,c]!

[3] **AUD:ECD 2,INS** "appecd"[;b|;c|;b,c]!

## 3. EXPLANATION OF MESSAGE

a — Specifies the type of incore **ECD** audit:

- 1 — Structural audit.
- 3 — Raw data audit.

b — Specifies whether the audit should correct errors:

- CORR — Audit should correct errors (default).
- NCG — Audit does not correct errors.

c — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

Output Messages
`AUD:ECD`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:ECDOWN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Runs the Equipment Configuration Database Manager (ECDMAN) audit of record ownership. This audit releases reserved records for processes that have died.

## 2. FORMAT

**`AUD:ECDOWN 1`**`[;a|;b|;a,b]!`

## 3. EXPLANATION OF MESSAGE

`a` Specifies whether the audit should correct errors:

- `CORR` — Audit should correct errors (default).
- `NCG` — Audit does not correct errors.

`b` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
AUD:ECDOWN
OP:AUD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:FMGR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Audits the resources of the File Manager (**FMGR**).

## 2. FORMAT

**AUD:FMGR** a[;b|;c|;b,c]!

## 3. EXPLANATION OF MESSAGE

a — Specifies the member number (1-9) of the **FMGR** audit:

- 1 — Task queue audit.
- 2 — Internal inode table audit.
- 3 — Hash table and internal inode pointer table audit.
- 4 — File table audit.
- 5 — Internal capability table audit.
- 6 — Buffer audit.
- 7 — Mount table audit.
- 8 — Delayed queue audit.
- 9 — Message queue audit.

b — Specifies whether the audit should correct errors:

- CORR — Audit should correct errors (default).
- NCG — Audit does not correct errors.

c — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

Output Messages
`AUD:FMGR1`
`AUD:FMGR2`
`AUD:FMGR3`
`AUD:FMGR4`
`AUD:FMGR5`
`AUD:FMGR6`
`AUD:FMGR7`
`AUD:FMGR8`
`AUD:FMGR9`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... AUD:FSBLK
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the file system block audit be run. This audit can be run on a mounted or unmounted file system.

## 2. FORMAT

**AUD:FSBLK** a,**INS** "b"[;c|;d|;c,d][:**PARAM** "e"]!

## 3. EXPLANATION OF MESSAGE

a — Member number of the **FSBLK** audit. The computer audit member number is 1.

b — Instance to be audited:

/dev/bdb

/dev/betc

/dev/broot

/dev/db

/dev/etc

/dev/root

/dev/tmp

c — Specifies whether the audit should correct errors:

CORR — Audit should correct errors.

NCG — Audit does not correct errors (default).

d — Specifies the level of detail of error reporting:

DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)

SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

e — Parameter BACKUP is specified if it is desired that the audit check the filesystem for the appropriateness of generating a backup tape. If this is specified, the audit may report, as errors, conditions that normally would not be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

Practice 254-303-106 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`AUD:FSLINK`
`OP:AUD`
`OP:FNAME`
`STOP:AUD`

Output Messages
`AUD:FSBLK`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... AUD:FSCMPT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the file system compaction audit be run. This audit can be run on a mounted or unmounted file system.

## 2. FORMAT

```
AUD:FSCMPT a,INS "b"[;c|;d|;c,d][:PARAM "{e|f|e,f}"]!
```

## 3. EXPLANATION OF MESSAGE

`a` Member number of the **FSCMPT** audit. The computer audit member number is 1.

`b` Instance to be audited. Instance names are the special device files corresponding to the file system audited.

`c` Specifies whether the audit should correct errors:

- `CORR` — Audit should correct errors, and complete the compaction (default).
- `NCG` — Audit should not correct errors, and should not do the compaction.

`d` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

`e` Effort compaction:

- `MIN` — Perform or report for a minimum effort compaction (default).
- `MAX` — Perform or report for a maximum effort compaction.

`f` Regular file blocks limit:

- `COND` — Limit number of regular file blocks relocated to achieve compaction (default).
- `UCL` — An unlimited number of regular file blocks may be relocated to achieve compaction.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`. System Responses for Audit System Input Messages.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`AUD:FSBLK`
`AUD:FSLINK`
`OP:AUD`
`OP:FNAME`

Output Messages
`AUD:FSCMPT`
`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... AUD:FSLINK
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the file system link audit be run. This audit can be run on a mounted or unmounted file system.

## 2. FORMAT

**AUD:FSLINK** a,**INS** "b"[;c|;d|;c,d][**:PARAM** "e"]!

## 3. EXPLANATION OF MESSAGE

a — Member number of the **FSLINK** audit. The computer audit member number is 1.

b — Instance to be audited:

/dev/bdb

/dev/betc

/dev/broot

/dev/db

/dev/etc

/dev/root

/dev/tmp

c — Specifies whether the audit should correct errors:

CORR — Audit should correct errors.

NCG — Audit does not correct errors (default).

d — Specifies the level of detail of error reporting:

DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)

SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

e — Parameter BACKUP is specified if it is desired that the audit check the filesystem for the appropriateness of generating a backup tape. If this is specified, the audit may report as errors conditions that would not normally be considered errors, but could result in the creation of an improper backup tape. These errors are not correctable.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`AUD:FSBLK`
`OP:AUD`
`OP:FNAME`
`STOP:AUD`

Output Messages
`OP:AUD`
`AUD:FSLINK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... AUD:LKBDST-1
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

To initiate the link status and band status audit. This audit compares link status data and band-related status data in the link node and in the 3B computer with associated reference data in the 3B computer. When requested without specifying a particular node or the **ALL** nodes option, the system will pick a single node to be audited.

This audit is also routinely executed.

**NOTE:** Routine execution of this audit may be inhibited by the UNIX® RTR system during outages of the Common Network Interface subsystem. This may be verified by using the `OP:AUD` command. Routine execution may be resumed by using the `ALW:AUD` command.

The first optional field specifies the level of detail of error reporting.

## 2. FORMAT

**`AUD:LKBDST 1`**`[;a][`**`:PARAM "NODE{ALL`**`|(b,c)}"`**`]!`**

## 3. EXPLANATION OF MESSAGE

`a` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found. Default value.
- `SUM` — Generate only an audit completion message when the audit terminates.

**`ALL`** Audit all nodes, if a particular node is desired, use the group-member number designation.

`b` Group number (`0-63`).

`c` Member number (`1-15`).

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Audits Section
Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* Audits Section

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD
```

Output Message

```
AUD:LKBDST-1
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:MMGR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Runs the memory manager audits. The first three audits validate the segment descriptor table, page tables and the page descriptor table, and recover lost pages and page tables. The segment release audit completes an interrupted segment breakdown procedure. The segment unlock audit releases old iolocked segments.

The swap space compaction audit runs a complete swap disk space compaction. It should be run, load permitting, in response to repeated `REPT:MMGR004` output messages.

**NOTE:** While the swap space compaction is running, the memory manager will not be able to swap supervisor processes into memory. As a result, the only supervisor processes that will run during this interval will be those already in memory. The real-time interval depends on the level of kernel process activity, or unpredictable things such as the type and number of supervisor segments that are in memory at the time.

## 2. FORMAT

**`AUD:MMGR`** `a[;b|;c|;b,c]!`

## 3. EXPLANATION OF MESSAGE

`a` Member number of the audit.

- `1` — Segment descriptor table audit.
- `2` — Page table audit.
- `3` — Page descriptor table audit.
- `4` — Segment release audit.
- `5` — Segment unlock audit.
- `9` — Swap space compaction audit.

`b` Specifies whether the audit should correct errors:

- `CORR` — Audit should correct errors (default).
- `NCG` — Audit does not correct errors.

`c` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`SUM` — Generate only an audit completion message when the audit terminates.

Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

Output Messages
`AUD:MMGR`
`OP:AUD`
`REPT:MMGR004`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:MSGBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Audits the Message Buffer (**MSGBUF**) resources.

## 2. FORMAT

**AUD:MSGBUF** a[;b|;c|;b,c]!

## 3. EXPLANATION OF MESSAGE

a — Member number of the audit:

- 1 — Message buffer queue audit.
- 2 — Message buffer extender block audit.

b — Specifies whether the audit should correct errors:

- CORR — Audit should correct errors (default).
- NCG — Audit does not correct errors.

c — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
APP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

`OP:AUD`
`STOP:AUD`

Output Messages

`AUD:MSGBUF`
`OP:AUD`
`REPT:KAUDPRC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:NIDATA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Runs the internal data audits on the recent-changeable tables.

These audits will compare the 3B Computer and disk copy of the tables and report any mismatches. The tables will also be checked for invalid data within a table and inconsistencies across tables. If any errors are uncovered, which can not be corrected via recent change, then the audit will correct the error as necessary.

**NOTE:** Routine execution of this audit may be inhibited by the UNIX® RTR system during outages of the Common Network Interface subsystem. This may be verified by using the `OP:AUD` command. Routine execution may be resumed by using the `ALW:AUD` command.

## 2. FORMAT

**`AUD:NIDATA`** `a[;b]!`

## 3. EXPLANATION OF MESSAGE

`a` Data table to be audited:

- `1` — Office Identification Data.
- `2` — Link Configuration Data.
- `3` — Logical-Physical Translation Data.
- `4` — CCS7 Routing Data.
- `5` — Subsystem Information Data.
- `6` — Permanent Relations Data.
- `7` — International Routing Data.
- `8` — Global Title Translator Data.
- `9` — Invalid.
- `10` — Protocol Timer/Parameter Data.

`b` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found. (A limited number of reports are generated.) Default value.
- `SUM` — Generate an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Appendix

`APP:AUD`

Input Messages

`ALW:AUD`
`INH:AUD`
`OP:AUD`
`OP:AUDERR`
`STOP:AUD`

Output Message

`AUD:NIDATA-1`
`AUD:NIDATA-3`
`AUD:NIDATA-4`
`AUD:NIDATA-5`
`AUD:NIDATA-6`
`AUD:NIDATA-7`
`AUD:NIDATA-8`
`AUD:NIDATA-9`
`AUD:NIDATA-10`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . AUD:NMDATA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**

**CNI does not recommend running this audit in error correction mode. Error correction mode should only be used under the guidance of CNI Customer Support because of the critical nature of the data being audited. CNI Customer Support should always be notified in the event of an error.**

## 1. PURPOSE

**NMDATA** is the audit family name for the group of audits concerned with the integrity of network management dynamic data.

**NMDATA** 1 audits the routing tables. The routing tables consist of the network table, cluster table, page access table, the member table, the link set translation table, the Routing Priority Index (RPI) status table, and the director index to network table. One aspect of the routing tables structure is the dynamic allocation and deallocation of slots in the page access table and the member table (those tables are also referred to as the paging tables) as different network events (such as remote link failures or congestion) occur. CNI processes and maintains status information for the point code affected by those events. Those paging tables that are used in the allocation/deallocation of slots are audited to ensure that pointers connecting the tables are valid. The free entries for the paging tables are audited as well as the used entries.

The fields in the routing tables that are used when routing or updating status information about a point code are also audited by **NMDATA** 1. The audit will look at inconsistencies between the different fields and among the different routing tables.

A copy of the data being audited is also found in the Direct Link Node (DLN). When changes are made to the 3B20D/3B21D computer master copy as a result of error correction, the remote node copy is updated via Remote Access Substem (REMACS). It is important to note that the application is not notified of the change to the data as a result of error correction. For this reason it is recommended that **NMDATA** 1 always run in error detection mode only.

**NMDATA** 2 audits the loadshare tables in the 3B20D/3B21D computer. The loadshare tables are used for message routing. Note that **NMDATA** 2 is different from **NMDATA** 1 in that a loadshare table update report will be sent to the application if error correction results in any changes to the master copy of the tables.

**NOTE:** Routine execution of this audit may be inhibited by the UNIX® RTR system during outages of the Common Network Interface subsystem. This may be verified by using the `OP:AUD` command. Routine execution may be resumed by using the `ALW:AUD` command.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

**AUD:NMDATA** a[;b|;c|;b,c]!

## 3. EXPLANATION OF MESSAGE

a — Specifies the audit member to be run:

- 1 — Routing Tables Linked List and Consistency Check Audit.
- 2 — Loadshare Tables Audit.

b — The default value is contained within the Equipment Configuration Database (ECD) record for this audit (audrec). Specifies whether the audit should correct errors:

- CORR — Indicates correction should occur.
- NCG — Inhibits error correction.

c — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found. The raw data report(s) are followed by an audit completion message. (A limited number of reports is generated.) Default value.
- SUM — Generate only an audit completion message when the audit terminates.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Practice 256-090-182, *CNI Maintenance Manual*, Audits Section

Input Messages

ALW:AUD
INH:AUD
OP:AUD
OP:AUDERR
STOP:AUD

Output Messages

AUD:NMDATA-1
AUD:NMDATA-2

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:NODEST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

To initiate ring node state audits.

The Node Availability Map audit compares the two principal records within the Interprocess Message Switch (IMS) driver process of the states of ring nodes. It does not check the major state in the ECD.

This map contains for each ring node a flag indicating whether the node is an IMS User Node (IUN) in the Active (ACT) state. It is used primarily by the neighbor "audit" and in sending state updates after changes in ring configuration and after initializations.

The audit compares the map to the major states of the nodes recorded in the IMS driver process.

When errors are detected the map is corrected to agree with the major states.

**NOTE:** Routine execution of these audits may be inhibited by UNIX® RTR during outages of the IMS subsystem. This can be checked by using the `OP:AUD` command and routine execution can be resumed by using the `ALW:AUD` command.

## 2. FORMAT

**`AUD:NODEST`** `a[;{b|c|b,c}]!`

## 3. EXPLANATION OF MESSAGE

`a` Specifies a particular member of the NODEST family of audits:

- `1` — The Node Availability Map audit. (This audit is also routinely scheduled.)

`b` Specifies whether the audit should correct errors:

- `CORR` — Indicates correction should occur. Default value.
- `NCG` — Inhibits error correction.

`c` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found. Default value.
- `SUM` — Generate only an audit completion message when the audit terminates.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* Audits Section

Input Appendix
`APP:AUD`

Input Messages
`ALW:AUD`
`INH:AUD`
`OP:AUD`
`OP:AUDERR`
`STOP:AUD`

Output Message
`AUD:NODEST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:PMS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Runs the Plant Measurements System (**PMS**) database audit.

## 2. FORMAT

**AUD:PMS 1**[;a|;b|;a,b]!

## 3. EXPLANATION OF MESSAGE

a — Specifies whether the audit should correct errors:

- CORR — Audit should correct errors (default).
- NCG — Audit does not correct errors.

b — Specifies the level of detail of error reporting:

- DETL — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- SUM — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
APP:AUD

Input Messages
OP:AUD
STOP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`AUD:PMS`

`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:PROAD-1
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Audits the DCT Extended (DCTEXT), searching for suspended process creations (including forks) and terminations. It also searches for processes which have been suspended from execution for over 30 minutes and terminates them.

## 2. FORMAT

**`AUD:PROAD 1`**`[;a|;b|;a,b]!`

## 3. EXPLANATION OF MESSAGE

`a` Specifies whether the audit should correct errors:

- `CORR` — Audit should correct errors (default).
- `NCG` — Audit does not correct errors.

`b` Specifies the level of detail of error reporting:

- `DETL` — Generate a raw data report for each error found followed by an audit completion message (default). (A limited number of reports is generated.)
- `SUM` — Generate only an audit completion message when the audit terminates. Raw data reports are not created for any errors that are found.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-235 *Audit Facilities Description UNIX® RTR Operating System*

Input Appendix
`APP:AUD`

Input Messages
`OP:AUD`
`STOP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`AUD:PROAD`

`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:REMACS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Performs control operations on, or requests status of, the Remote Access Subsystem (**REMACS**) data audit.

## 2. FORMAT

**AUD:REMACS:{INH|ALW|STATUS|CYCLE** a**|FREQ** b**|WINDOW "c"}!**

## 3. EXPLANATION OF MESSAGE

**INH** Inhibits the running of the **REMACS** data audit. Also aborts any previous requested cycle(s) that may be running. This inhibit will remain in effect as long as Common Network Interface (CNI) does not perform a level 4 initialization; once this occurs the inhibit will have to be reentered.

**ALW** Allows the running of the **REMACS** data audit. This is the default state of the **REMACS** data audit.

**STATUS** Displays the current status of the **REMACS** data audit; if the audit is running or is cycling, the current frequency of invocation is also displayed. If the audit is cycling, the current cycle count will be displayed.

**CYCLE** Cycles the **REMACS** data audit for the specified number of cycles. The audit must already be inhibited and currently not cycling for this command to be honored by **REMACS**.

a Data audit cycles.

**FREQ** Changes the frequency of invocation of the **REMACS** data audit to the specified frequency. Each time **REMACS** is invoked, **REMACS** runs the data audit on a portion of **REMACS** data; this command modifies the frequency of data audit invocation each time **REMACS** itself is invoked. For example if **REMACS** is invoked every 200 milliseconds and the data audit frequency of invocation is 3, then the data audit will be run once every 600 milliseconds. The data audit frequency of invocation is initially set to 1 (data audit invoked each time **REMACS** itself is invoked).

b Data audit frequency.

SEE PROPRIETARY NOTICE ON COVER PAGE

**WINDOW** Allows the running of **REMACS** data audit for a user specified window. The **REMACS** data audits must be inhibited first to allow this option. Only one window may be audited at a time. When the demand audit is done, a message indicating completion of the demand audit appears on the Receive Only Printer (ROP). As with the normal **REMACS** audits, any audit errors will appear on the ROP. After the demand audit is done, the status of the audit returns to the inhibited condition. The window audit may be aborted at any time by the **AUD:REMACS:ALW** command.

**c** The following strings represent the various window names which must be used with the **AUD:REMACS:WINDOW** command. Data type information associated with each window name is provided in parentheses, but is not required to be used with the window names. Quotation marks must be used with the window names.

RM7GTX (cH7gtx_tab - CCS7 global title xlat)
RM7SSDST (cH7ssdist - CCS7 SCCP subsys. distribution)
RMCDSTP (cDstp - STP indicator)
RMCLNDATA (cLndata - link characteristics table)
RMCLUSTER (cNcluster - cluster table)
RMCNFCTN (cNfctn - func. # of this office)
RMIPCDATA (cNipc_data - international routing)
RMIPCINDEX (cNipc_index - index into intl. rtg.)
RMLACID (Lacid table window)
RMLDSHR (cNldshr - CCS7 load share table)
RMLKSTAT (cTlkstatus - link status table)
RMLOCPC (cNlocpc - local point code)
RMLSREL (cNlsrel - link set to cmb link set)
RMLSST (cNls_st - link set status table)
RMLSXLTN (cNls_xltn variable)
RMLXPTAB (cHlxp_tab - logical to physical table)
RMMEMBER (cNmember - member table)
RMNETWORK (cNnetwork table)
RMPAGEACC (cNpage_access table)
RMPAGING (cNpaging variable)
RMPOOLDAT (cTpooldata - CCIS6 load balancing)
RMRNAOFST (Clrnaoffset - map RNA to cLndata)
RMRPIST (cNrpi_status table)
RMSSNBITS (cSssnbits table)
RMSWAPOPCDPC (cLswap_opc_dpc var.)

## 4. SYSTEM RESPONSE

See Explanation of Message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Message
`AUD:REMACS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . AUD:TDAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Audits Traffic Data Administration System (**TDAS**) measurement data base. **TDAS** data not passing audit checks will be removed. Constant directory and file structures will be recreated, if necessary.

## 2. FORMAT

**AUD:TDAS 1!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. General syntax error. |
| PF | Printout Follows. Followed by an AUD:TDAS audit report. |

## 5. REFERENCES

File Name
3bmeas

Output Message
AUD:TDAS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CFR:DADC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Reconfigures Direct Access Data Channel (DADC) data links. The incore Equipment Configuration Database (ECD) will be updated on successful completion of this message. Checks will be made so that DADC links do not conflict with Network Services Complex (NSC) ECD assignments.

When both **SDLC** and **SDL** are entered, the **SDLC** and its number must be entered first, and the **SDL** must be on the same **SDLC** controller.

## 2. FORMAT

**CFR:DADC;{SDL** a|**SDLC** a|**SDLC** a,**SDL** a};{**ADD:{GROW**|**OOS**}|{**DLT:{GROW**|**UNEQIP**}}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **SDL** | Synchronous data link equipment. |
| a | Unit number of equipment type. |
| **SDLC** | Synchronous data link controller equipment. |
| **ADD** | Move the link into state **GROW** or **OOS** towards a service state. |
| **GROW** | Change state from **UNEQIP** to **GROW** for **ADD** option, or change state from **OOS** to **GROW** for **DLT** option. |
| **OOS** | Change state from **GROW** to **OOS**. |
| **DLT** | Move the link into state **GROW** or **UNEQIP** from a service state. |
| **UNEQIP** | Change state from **GROW** to **UNEQIP**. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. Input request was syntactically incorrect. |
| PF | Printout Follows. Output message CFR:DADC will follow. |

## 5. REFERENCES

Output Message
CFR:DADC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CFR:DUPLEXDISKS
WORK CENTER . . MOC
GENERIC . . . . . 4AP17 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Configure Moving Head Disk (MHD) 0 and MHD 1 to be the duplex boot disks.

This command is only supported on a 3B21D Hardware Platform that is configured to support the Recovery from Alternate Boot Disk feature.

For the command to complete successfully, the 3B21D must be booted with an Alternate Boot Disk (ABD) selected as one of the duplex boot disks and the UCB states of the system and alternate boot disks must meet the following criteria:

If MHD 0 is one of the current duplexed boot disks, it's state must be Active (ACT). MHD 1 and the Alternate Boot Disk must not be in the ACT, Standby (STBY), or Initialization (INIT) states.

If MHD 1 is one of the current duplexed boot disks, it's state must be ACT. MHD 0 and the Alternate Boot Disk must not be in the ACT, STBY, or INIT states.

## 2. FORMAT

**`CFR:DUPLEXDISKS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout follows. Followed by the `CFR:DUPLEXDISKS` output message. |

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

Output Message
`CFR:DUPLEXDISKS`

SEE PROPRIETARY NOTICE ON COVER PAGE

**CAUTION**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CFR:RING
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

**CAUTION**
**If the ring initialization is successful, any subsequent problems which cause it to go down will probably cause an Interprocess Message Switch (IMS) level 3 or higher initialization unless Manual Ring Mode is in effect. See the** `REPT:MAN-RING-MOD` **output message for details.**

## 1. PURPOSE

Configure the ring to include or exclude ring nodes from the active ring segment or, if the ring is down, initialize it. In addition, a level [0|3|4|5] ring recovery and a clearing of ring Error Analysis and Recovery (EAR) history can be executed.

Ring configurations established by this command have no special permanence -- they are not remembered as having been requested manually and they do not change the ring interface hardware maintenance states of the nodes. For example, a ring segment isolated by this command and not containing a ring fault may be included back into the active ring segment by any subsequent ring configuration change, such as by a fault recovery, diagnostic, restore or subsequent **`CFR:RING`** command. An exception is that nodes in the GROW major state will always be kept isolated to prevent installation from causing ring recoveries.

The ring can not be reconfigured using the **`INCLUDE`** or **`EXCLUDE`** options if either the current Begin Isolated Segment (BISO) and/or End Isolated Segment (EISO) ring node is not active. A ring with an inactive BISO and/or EISO node is in a transient state, restoral of this node will be given top priority. The **`MOVFLT`** option may be used subject to limitations described.

When the ring is down, the **`CFR:RING`** command (without options) will attempt to initialize the ring. This requires at least one Ring Peripheral Controller Node (RPCN) node in the Standby (STBY) state. (A successful `RST:RPCN` input command will leave the RPCN node in the STBY state when the ring is down.) The ring initialization will not, in itself, restore any IMS User Nodes (IUNs) to service.

Ring initializations are much slower than ring reconfigurations. Allow several minutes per one hundred nodes equipped in the office.

**NOTE:** Ring reconfigurations abort diagnostics of ring nodes.

## 2. FORMAT

```
CFR:RING[,{RPCNa 0|LNa b}[,{RPCNa 0|LNa b}]|,{RPCNa 0|LNa b}
      [,{RPCNa 0|LNa b}];EXCLUDE|,{RPCNa 0|LNa b}[,{RPCNa 0|LNa b}]
      ;INCLUDE]|,{RPCNa 0|LNa b};MOVFLT]|,ZEROCNTS|,LEVEL c]!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

**RPCN** Indicates a Ring Peripheral Controller Node.

a A Ring Node (RN) group number (00–63) with explicit leading zero for group numbers less than 10. If more than one the first is the first of a range and the second is the last node in the range.

**LN** Indicates a Link Node.

b The node's position in the RN group (1–15).

**EXCLUDE** This is a request to isolate specified nodes from the active ring segment. This may cause inclusion or isolation of other nodes to form a workable ring. Active ring nodes cannot be isolated. A section of the ring cannot be isolated such that the remaining active ring segment is too short. That is, the active ring segment must contain a minimum combination of ring nodes and interframe buffers to allow simultaneous propagation of long messages plus the token message. Note that when the system attempts to choose active BISO and EISO ring nodes to isolate a given requested range of nodes, this threshold could be crossed. If an isolated segment currently exists, the node or nodes requested must either include the BISO and/or EISO nodes or must already be excluded from the active ring segment.

**INCLUDE** This is a request to make ring nodes part of the active ring segment. This is the default state for this command. If nodes are specified, only those nodes will be added to the active ring segment in response to this command. If no nodes are specified, the new configuration will include as many nodes as possible. If the ring is down, it will be initialized. If an isolated ring segment currently exists, the requested node or nodes must include the BISO's and/or EISO's nearest isolated neighbor node, or segment, so as not to fragment the existing isolated segment.

**MOVFLT** This is a request to move an indication of a faulty ring interface from the currently isolated ring node to the adjacent ring node, a, and to reconfigure the ring so that a becomes the isolated node. Automatic ring error analysis cannot always determine which of two adjacent nodes is at fault. When manual maintenance indicates that the wrong ring node has been isolated, this command is used to correct the ring configuration. Such correction may not be possible using other methods because it may be essential to have an isolated node adjacent to the fault and the ring may be too small to allow both nodes to be isolated, even temporarily. This form of the command is accepted only when a single node is currently isolated and the specified node, a, is adjacent (e.g., a is the BISO or EISO ring node) and is not undergoing restoral.

SEE PROPRIETARY NOTICE ON COVER PAGE

**ZEROCNTS** This is a request to clear the history of past level 0, level 3, level 4 and level 5 ring recoveries. Also, ring EAR's mode will be set to the stable mode. If this request is typed when the ring status unstable, this request will be rejected. If this request is typed within the confidence interval associated with a successful ring restoration, approximately 5 seconds, the request will be rejected. If ring EAR's mode is the quasi-instable mode, then after this request is completed, ring EAR's mode will be switched to the stable mode and the information "RING ERROR THRESHOLD EXCEEDED" will be removed from 1105 display page. The key idea of this request is to clear the ring EAR recovery history and set ring EAR's mode to the stable state. Consequently, when the next ring communication failure occurs, ring EAR will first try to execute the lowest level ring EAR recovery.

**LEVEL** This is a request to execute a specific level ring recovery and clear the recovery history of ring EAR. If this request is typed when the ring status unstable, this request will be rejected. If this request is typed within the confidence interval associated with a successful ring restoration, approximately 5 seconds, the request will be rejected. If ring EAR's mode is the quasi-instable mode, then after this request is completed, ring EAR's mode will be switched to the stable mode and the information "RING ERROR THRESHOLD EXCEEDED" will be removed from 1105 display page. This command will first zero the ring recovery history and then execute the requested level of ring recovery. This ring recovery will not be counted in ring EAR's recovery history. If a ring communication failure occurs during the manual level [0|3|4|5] ring recovery, ring EAR will trigger a level 3 ring recovery.

`c` Specifies the level of ring EAR recovery requested (`0,3,4,5`).

## 4. SYSTEM RESPONSE

The ring is reconfigured or initialized as per the **INCLUDE** or **EXCLUDE** keyword explanation.

## 5. REFERENCES

Display/Menu Page Name
`1105 Page`

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* - International Link Node Signaling Link Operating Procedures Section

Input Message
`RST:RPCN`

Output Messages
`CFR:RING`
`REPT:MAN-RING-MOD`
`RST:RPCN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CHG:GEN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This input message may be used to change the Common Network Interface (CNI) incore view of the CNI Generic ID. It is to be used once at the completion of Broadcast Warning Message (BWM) additions or Generic updates.

Causes the CNI to read the Equipment Configuration Data (ECD) and CNIREL files to change the Generic ID of CNI.

As a result of the message, the CNI reads the incore ECD and the CNIREL file to update the CNI Generic Release.

## 2. FORMAT

**`CHG:GEN!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Output Message
`CHG:GEN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CHG:MRVT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Changes or displays the MTP Routing Verification Test (**MRVT**) Delay (D) parameter which is used in the calculation of the T1 timer.

**NOTE:** If the variable is not present on the command line, the current value of the delay parameter is displayed.

If a request is made to change the delay parameter, and it is within range, the requested value is written onto disk and the delay parameter is updated to the new value.

## 2. FORMAT

**CHG:MRVT**[ a]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The new value of the delay parameter. The range is 8 – 15 seconds, 8 is the default. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |
| RL | Retry Later. |

## 5. REFERENCES

Practice 256-090-177 *CNI Feature Description Manual* - MRVT Section

Input Message
EXC:MRVT

Output Messages
CHG:MRVT
EXC:MRVT
REPT:MRVR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CHG:PAUTH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Changes the password for a given user Identity (**IDENT**). Either password prefix or password suffix or both must be entered.

## 2. FORMAT

[1] **CHG:PAUTH:IDENT** "a",{**PSSWDPFX** "b"|**PSSWDSFX** "c"}!

[2] **CHG:PAUTH:IDENT** "a",**PSSWDPFX** "b",**PSSWDSFX** "c"!

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group that uses the password prefix and suffix, in one to eight letters and/or digits.

b — Password Prefix (**PSSWDPFX**) in three letters and/or digits.

c — Password Suffix (**PSSWDSFX**) in six to 13 characters.

## 4. SYSTEM RESPONSE

NG — No Good.

— NON-EXISTENT PERSON IDENTITY
The given person identity does not exist in the personal authority administration.

— PASSWORD PREFIX NOT UNIQUE
The given password prefix already exists in the password authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Password or personal authority information is inaccessible.

— PASSWORD PREFIX ILLEGAL LENGTH
The given password prefix is not equal to three characters in length.

— PASSWORD SUFFIX ILLEGAL LENGTH
The given password suffix is greater than 13 characters in length.

— PARAMETER(S) MISSING
Necessary parameters are missing. Either a password prefix or password suffix or both must be entered.

OK — Good. Password and identity has been changed in the database.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
Authority information is currently being updated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ADD:PAUTH
DEL:PAUTH
VFY:PAUTH
RNM:PSSWD
```

Output Message

```
VFY:PAUTH
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CHG:PROFL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Adds or removes a Command Group (**COMGR**) from a profile Identity (**IDENT**). This allows a profile to contain a set of command groups. The **IDENT** must already exist in the Profile (**PROFL**) database.

## 2. FORMAT

```
CHG:PROFL:IDENT "a",ACTION b,COMGR {c|c,c[,c,...]}
```

## 3. EXPLANATION OF MESSAGE

`a` Identity of the profile in one to eight letters and/or digits.

`b` The action to perform on the profile:

`INCLUDE` — Include the given command group(s).

`EXCLUDE` — Include the given command group(s).

`c` Command group, up to 16 groups may be listed.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `PROFILE IDENTITY DOES NOT EXIST`
The given profile identity does not exist in the profile authority administration.

— `UNABLE TO ACCESS PROFILE ADMINISTRATION`
Profile authority information is inaccessible.

— `PASSWORD ENHANCEMENT NOT ACTIVATED`
This command is valid only for applications running with the Password Enhancement feature enabled.

`OK` Good. Command group successfully added to or removed from profile.

`RL` Retry Later.

— `PROFILE ADMINISTRATION UNDER UPDATE`
Profile information is currently being updated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ADD:PCGRP
ADD:PROFL
DEL:PCGRP
DEL:PROFL
VFY:PCGRP
VFY:PROFL
```

Output Message

```
VFY:PROFL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CHG:SLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**The `UCL` option can create a signaling service outage. For the SIN nodes, this causes a link protocol error, which may result in SIN error messages; these messages can be ignored.**

## 1. PURPOSE

This input message requests a change in the minor state of a Signaling Link (**`SLK`**).

Circuit pack and port numbers are required to specify a particular link on a multi-link node. Multi-link nodes include D-Channel Node (DCHN) and Special Access Data Channel (SADC) circuit pack and port values of `0`. Optionally, `0` can be used for single-link nodes.

Requests can change the minor state of the particular **`SLK`** to the specified state. Requests can also transfer the **`SLK`** from the active to the standby Voice Frequency Link (VFL). Entering a request does not guarantee the specified action. Successful **`SLK`** prove-in is required to accomplish a requested action.

For example, when a link in the **`MOOS`** state is being returned to the **`IS`** state, it is actually moved from **`MOOS`** to OOS, which allows automatic link prove-in to begin. It is not until successful prove-in has been reached that the link is moved to the **`IS`** state.

The minor states **`TEST`** and **`MOOS`** are maintained by the system during a node removal and restoral. However, these states are lost during a system initialization. After a system initialization, links in the UNAVAILABLE major state will be set to the **`GROW`** minor state. Links in the AVAILABLE major state will start in the OOS minor state after initialization, and will attempt to move to the **`IS`** minor state automatically.

## 2. FORMAT

**`CHG:SLK (a,b[,c,d]);{ARST|FIS|GROW|IS|MOOS|STBY|TEST};[UCL]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0-63`). |
| `b` | Member number (`1-15`). |
| `c` | Circuit Pack number (`0-1`). |
| `d` | Port number (`0-3`). |
| **`ARST`** | Auto Restore Service. Returns a signaling link to service from the **`MOOS`** state. The link will attempt to move to the **`IS`** or **`STBY`** state, as appropriate. Valid for major state AVL, minor state **`MOOS`**. |

SEE PROPRIETARY NOTICE ON COVER PAGE

**FIS** Force In Service. Forces manual out-of-service restrictions off a CCS7 link. Valid for CCS7 signaling links with major state AVL, minor state **MOOS** or OOS.

**GROW** Growth. Used during link installation and de-installation. Valid for signaling links with major state UNA.

**IS** In Service.

Returns a signaling link to service from the **MOOS** state. The link will attempt to move to the **IS** state. Valid for major state AVL, minor state **MOOS**. For a mated DCHN link, the change will be denied if the mate link is already in minor state **IS**. The mated link in the **MOOS** state must first be changed to the **STBY** state by requesting a **STBY** minor state change.

Moves a mated DCHN or SIN link from the **STBY** minor state to the **IS** minor state. Valid for major state AVL and minor state **STBY**.

**MOOS** Manual out-of-service. Signaling link cannot handle traffic; typically when performing maintenance on the link. Valid for signaling links with major state AVL. **MOOS** state may be automatically removed by the system if all alternate links are lost.

The following minor state transitions are allowed for CC7 or CCIS6 links, if alternate links are **IS**:

OOS --> **MOOS**
IS --> **MOOS**

The following minor state transitions are allowed for DCHN, SADC or SIN links, if mate link is **IS**:

OOS --> **MOOS**
STBY--> **MOOS**

For DCHN, SADC, or SIN links, the **IS** --> **MOOS** state change is only valid if the Unconditional (**UCL**) command argument qualifier is used.

SEE PROPRIETARY NOTICE ON COVER PAGE

**STBY** Standby.

Moves a mated DCHN link from the **IS** minor state to the **STBY** minor state. Valid when the link is in major state AVL and minor state **IS**, AND its mate link is in major state AVL and minor state **STBY**. If successful, this request causes a switch over of traffic from the **IS** link to its mate link, and the mate link will move from the **STBY** to the **IS** state.

Moves a mated DCHN link from the **MOOS** minor state to the **STBY** minor state. If the link's mate link is not currently in the **IS** state, the system will automatically attempt to move the link from the **MOOS** state to the **IS** minor state.

Moves a SIN link from the **IS** minor state to the **STBY** state.

**TEST** Test. Used during link installation and de-installation. Valid for signaling links with major state UNA.

**UCL** Unconditional. Used with the **MOOS** minor state request for DCHN, SADC, and SIN links. The **MOOS** request with UCL will move even an **IS** link to the **MOOS** state.

## 4. SYSTEM RESPONSE

PF Printout Follows.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* Procdures Section

Practice 256-090-121 *CNI Operations Manual* -
Analog Signaling Link Test Procedures Section, Digital Signaling Link Operating Procedures Section, Digital Signaling Link Test Procedures Section, D-Channel and Special Access Data Channel Signaling Link Operating Procedures Section, International Link Node Signaling Link Operating Procedures Section, D-Channel and International Link Node Signaling Link Test Procedures Section

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures Section

Output Message
CHG:SLK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CHG:SRVT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests that the SCCP Routing Verification Test (**SRVT**) delay parameter, which is used in the calculation of the T2 timer, be changed or displayed. The expiration of the T2 timer signifies the end of the waiting period for the reception and processing of all expected Signaling Connection Control Part (SCCP) Routing Verification Acknowledgement (SRVA) messages.

**NOTE:** If the variable is not present on the command line, the current value of the delay parameter is displayed to the maintenance output class.

If a request is made to change the delay parameter, and the requested value is within range, it is written onto disk and the delay parameter is updated to the new value. This new value becomes the new "default", that will be read in on initializations. The initial default is 12.

## 2. FORMAT

**CHG:SRVT**[ a]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | New value of the delay parameter (8–16). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |
| RL | Retry Later. |

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - SRVT Section

Practice 256-090-177 *CNI Feature Description Manual* - SRVT Section

Input Messages
EXC:SRVT
OP:TPC

Output Messages
CHG:SRVT
EXC:SRVT
OP:TPC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:ACKDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Invalidates the segment name of the **ACKDB** so that the next invocation of either the craft shell or Display Administration Process reinitializes it. Current running process will continue to use the old copy of the **ACKDB** until they are terminated.

## 2. FORMAT

**CLR:ACKDB!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

IP In Progress.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Messages
STOP:E-ANY
STOP:E-USER

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message manually clears **AIM** events.

## 2. FORMAT

**CLR:AIM;EVENT** ["a"]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Internal **AIM** name of event to clear. A list of all active event names can be obtained using an OP:AIM;EVENT command. If a is not given, ALL is the default. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. An illegal event name was given. Use the OP:AIM;EVENT command to get a list. |
| PF | Printout Follows. Request was received and understood by **AIM**. If the event was set, it will be cleared and an appropriate message printed to the Read Only Printer (ROP). Otherwise, the clear is ignored. |

## 5. REFERENCES

Input Message
OP:AIM

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CLR:AMA-DISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This message should be used with discretion. If the switch is in CDRP recording mode, this message will cause AMA and/or ICDR data to be lost.**

## 1. PURPOSE

When the switch is in Call Detail Recording Platform (CDRP) or Transition recording mode and the Small Computer System Interface (SCSI) links to the CDRP are duplex failed, the Automatic Message Accounting (**AMA**) and International Call Detailed Records (ICDR) events are stored on disk in disk mode partitions. This message will throw away all the data in the disk mode partitions.

## 2. FORMAT

**CLR:AMA;DISK;SID** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | A password. Contact the National Electronic Switching Assistance Center (NESAC) to obtain the current value. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. An incorrect number of arguments were entered, invalid keyword was present in the input message, or the password check failed. |
| IP | In Progress. The event data will be flushed. |
| NG | No Good. The event data cannot be flushed. A message will be printed stating the reason. |
| RL | Retry Later. The event data cannot currently be flushed. A message will be printed stating the reason. |

## 5. REFERENCES

Input Message
OP:AMA-MAPS

Output Message
REPT:AMA-FORM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:DLNAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Direct Link Node (DLN) error messages are normally spooled to the CNILOG file. Input message `SET:DLNAP` causes these errors to be spooled to the maintenance printer. This message causes these errors to be spooled only to the CNILOG file. Normal spooling of DLN error messages is restored.

## 2. FORMAT

**`CLR:DLNAP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Flag has been reset in process ARTS so that DLN errors are only spooled to the CNILOG file. |

## 5. REFERENCES

Input Message
`SET:DLNAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:DLNESC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Clears the Direct Link Node (DLN) Recovery Escalation parameters.

This input command requests that the "DLN Recovery Escalation parameters" (i.e., the number of DLN initializations performed since the last diagnostic and the time designation of the last diagnostic activity) for ALL DLNs be reset.

This action will prolong the interval of time before any DLN is automatically removed from service by the RING INIT process for diagnostic testing.

## 2. FORMAT

**`CLR:DLNESC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Message accepted and `CLR:DLNESC` output message follows.

`RL` Retry Later.

— `CANNOT ATTACH TO ECD`
System conditions do not allow this process to read the Equipment Configuration Database (retry later).

— `CANNOT GET DLN STATUS`
DLN Driver not responding to DLN status requests by this process. This condition is valid only during 3B initialization (retry later). Otherwise, National Electronic Switching Assistance Center (NESAC) should be notified.

— `DLNCM DOES NOT EXIST`
DLN Driver does not exist. This condition is valid only during 3B initialization. Otherwise, NESAC should be notified.

— `UNABLE TO OPEN TMP FILE`
System conditions do not allow this process to create a temp file for spooling output (retry later).

## 5. REFERENCES

Input Message
`OP:DLNESC`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
CLR:DLNESC
OP:DLNESC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:DLNPANIC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Direct Link Node (DLN) panic messages are normally spooled to the maintenance printer. **`CLR:DLNPANIC`** causes DLN panic messages to be spooled only to the CNILOG file.

## 2. FORMAT

**`CLR:DLNPANIC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Flag has been reset in process ARTS so that DLN panic messages are only spooled to the CNILOG file. |

## 5. REFERENCES

Input Message
`SET:DLNPANIC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:EMERDMP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Clears the emergency dump partition status flag. The flag is set whenever an emergency dump is written to disk. Until the flag is cleared, it causes the message `REPT EMERGENCY DUMP PARTITION FULL` to be printed periodically and prevents a new emergency dump being written to disk until 12 hours later. The user is thus provided sufficient time to copy out the partition contents onto a tape.

## 2. FORMAT

**`CLR:EMERDMP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Emergency dump partition is marked empty. |
| `PF` | Printout Follows. Followed by a `CLR:EMERDMP` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`COPY:T-EMERDMP`
`OP:EMERSTAT`

Output Messages
`CLR:EMERDMP`
`REPT:EMER-DUMP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CLR:F-DIR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command can result in the removal of needed file system directories.**

## 1. PURPOSE

Removes a directory from the file system. The directory must be empty (no files or subdirectories stored under the directory name) before it can be removed.

## 2. FORMAT

**`CLR:FILESYS:DIR,FN "a"!`**

## 3. EXPLANATION OF MESSAGE

`a` Pathname of the directory to be removed. See the *User Guidelines* in this document for definitions of pathname and directory.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `CLR:F-DIR` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`CLR:F-FILE`
`IN:FI-DIR`
`OP:ST-LSTDIR`

Output Message
`CLR:F-DIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CLR:F-FILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command can result in the removal of needed files and processes.**

## 1. PURPOSE

Removes a file from a directory.

## 2. FORMAT

**`CLR:FILESYS:FILE,FN "a"!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file. See the *User Guidelines* in this document for definitions of pathname and file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `CLR:F-FILE` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`OP:ST-LSTDIR`

Output Messages
`CLR:F-FILE`
`OP:ST-LSTDIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CLR:FANALM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Performs a remote reset of the computer Fan Alarm (**FANALM**).

Format 1 identifies the points by physical location.

Format 2 identifies the points by logical address.

## 2. FORMAT

[1] **CLR:FANALM;UNIT** a:**PT** {b|(b,b[,b,b...])}

[2] **CLR:FANALM;GRPN** "c",**DUPID** d:**PT** {e|(e,e[e,e])}

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Scanner And Signal Distributor (SCSD) unit number (0–16). |
| b | Physical point number on SCSD (0–31). |
| c | Name of the logical SCSD group. Logical SCSD group names for fan alarms begin with the prefix FANA. Examples are: FANACU0 or FANACU1. |
| d | Duplex identifier (0–1). |
| e | Logical point number (0–5). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. SCSD administrator process is not active; no communication with SD points is possible. |
| PF | Printout Follows. Followed by a CLR:FANALM output message. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-110 *DMERT Kernel and Basic Services Software Subsystem Description 3B20D/3B21D Processor*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:SCSD
INH:SCSD
OP:SCSD
```

Output Messages

```
CLR:FANALM
RCVRY:SCSDC
REPT:FF-MULTI
REPT:FF-SING
REPT:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:FSBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Clear the **`FSBUF`** overwrite buffer.

Use of the `IN:FSBUF` command accumulates a buffer of disk overwrites. **`CLR:FSBUF`** removes the buffer.

## 2. FORMAT

**`CLR:FSBUF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
`CLR:FSBUF`
`COPY:FSBUF`
`DUMP:FSBUF`
`IN:FSBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:IMCAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Invalidates the memory segments of the old input message catalog, forcing the new one to be loaded into the main memory. This message is used during a field update of the input message catalog.

## 2. FORMAT

**`CLR:IMCAT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good. Includes one of the following:

— `FILE INACCESSIBLE`
File did not open.
— `SEGCODE CANNOT BE DETERMINED`
No segment names.
— `SEGMENT NAME CANNOT BE CLEARED`
Segments not marked invalid.

`OK` Good. Segments are marked invalid.

`PF` Printout Follows. Followed by a `CLR:IMCAT` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Message
`CLR:IMCAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CLR:IODRV
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Allows option setting in the Input/Output Processor (IOP) driver to suppress IOP driver messages.

**NOTE:** Entering this command without the options turns off all severity levels, handler IDs and classes, but leaves the `MSGSAVE` flag as is.

## 2. FORMAT

```
CLR:IODRV[;LVL a|(a,a[,a])][,ID b|(b,b[,b...])]
      [,CLASS c|(c,c[,c...])][,MSGSAVE]!
```

## 3. EXPLANATION OF MESSAGE

`a` Severity level (`1-3`), where one is the most severe setting and three is the least severe.

`b` Administrative Module (AM) handler identification:

- `ALL` — Turns on all IDs.
- `APH` — Application protocol handler.
- `APPL1-APPL5` — Reserved for application handlers.
- `CIH` — Craft interface handler.
- `DUIH` — Direct user interface handler.
- `IOP` — Input/output driver.
- `MAINT` — Maintenance handler.
- `MTH` — Magnetic tape handler.
- `NPH` — Network protocol handler.
- `SCSDH` — Scanner and signal distributor handler.
- `SDLH` — Synchronous data link handler.
- `SPH` — Session protocol handler.
- `TPH` — Transport protocol handler.
- `PPH` — Presentation protocol handler.

`c` Class, thirty-two classes available.

**`MSGSAVE`** IOP error messages will not be saved in the `IODRVLOG` logfile.

## 4. SYSTEM RESPONSE

`NG` No Good. Conflict with system status.

`PF` Printout Follows. Followed by a `CLR:IODRV` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`OP:IODRV`
`SET:IODRV`

Output Messages

`CLR:IODRV`
`OP:IODRV`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:IOMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Release a file from the Input/Output Drivers (IODRVs) cache memory. This command is used during the installation of a new version of a file which could have been cached in the memory of the IODRV. Upon successful completion of this command, the next time the file is needed by the IODRV, the file will be read from disk.

## 2. FORMAT

**`CLR:IOMEM:FN`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname that specifies the file to be released from the IODRV's cached memory. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout follows. Followed by a `CLR:IOMEM` output message. |

## 5. REFERENCES

Output Message
`CLR:IOMEM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:MHD-MAEC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Clears a given **MHD**'s Media Access Error Counter (**MAEC**). The **MAEC** for a given **MHD** is set to zero.

A **MAEC** counts all errors which could be classified as bad disk blocks (media defects). If upon investigation some or all of these errors are attributed to specific bad disk blocks, the bad disk blocks should be mapped out using the `LOAD:MHD;DEFECT` and `INIT:MHD` commands. This procedure will reset the specified **MHD**'s **MAEC** back to zero.

If upon further investigation none of these errors are attributed to media defects, then mapping bad blocks and formatting the disk is not necessary. In this case, the `CLR:MHD;MAEC` command is used to reset the specified **MHD**'s **MAEC** back to zero.

## 2. FORMAT

**`CLR:MHD a;MAEC!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | **MHD** member number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `CLR:MHD-MAEC` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*
Chapter 10, File System Maintenance
Section 10-38, Procedure for Handling Disk Errors

Input Messages
`INIT:MHD`
`LOAD:MHD-DEFECT`
`VFY:MHD`

Output Messages
`CLR:MHD-MAEC`
`REPT:DKDRV`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:PBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Clear the PBUF overwrite buffer. Use of the `IN:PBUF` command accumulates a buffer of physical memory overwrites. **`CLR:PBUF`** removes the buffer.

## 2. FORMAT

**`CLR:PBUF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
`COPY:PBUF`
`DUMP:PBUF`
`IN:PBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CLR:PTN
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Clears (initializes with zeroes) partitions on a specified disk. The partitions to be cleared are determined from a Specification File **SPECF** (default `/etc/clearspec`). Both the disk specified and its mate should be active before this message is entered.

This command will be used by the applications that have Automatic Message Accounting (AMA) partitions (on removable media disk packs) which need to be cleared whenever a disk copy is generated.

## 2. FORMAT

**CLR:PTN:MHD** a[**;SPECF** "b"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Identifies of disk unit to be initialized with zeroes. |
| b | Pathname of specification file containing list of partition names that will be initialized with zeroes. Default will be `/etc/clearspec`. See the *User Guidelines* in this document for definitions of pathnames and files. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Process not initiated. |
| PF | Printout Follows. Followed by an `INIT:PTN` output message. |

## 5. REFERENCES

Output Message
`CLR:PTN`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CLR:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**

## 1. PURPOSE

Clears the specified RGRASP breakpoints.

Format 1 clears all breakpoints in the specified node.

Format 2 clears a specific breakpoint in the specified node.

## 2. FORMAT

[1] **CLR:RUTIL** (a,b)**,AP!**

[2] **CLR:RUTILFLAG** (a,b)**,AP;BP** c**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0 – 63). |
| b | Member number (1 – 15). |
| c | The specific breakpoint to be cleared. |

## 4. SYSTEM RESPONSE

An attempt will be made to clear the specified breakpoint in the specified node. The user will be informed about the result of this operation.

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures

Input Messages
ALW:RUTIL
INH:RUTIL
OP:RUTIL
WHEN:RUTIL

Output Message
CLR:RUTIL

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CLR:SRST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 2 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**

**Incorrect use of this command may cause loss of traffic due to invalid route status at the end office for the point code(s). Please verify that all route status updates caused by this tool are correct before executing this command.**

## 1. PURPOSE

Clears the status of a route making it available, and stops the Signaling Route Set Test (SRST) for the route. This is used to reduce the amount of unnecessary signaling network management message traffic for primary or alternate routes.

Format 1 is ANSI Standard Format

Format 2 is AT&T Format

## 2. FORMAT

[1] **CLR:SRST;DPC** (a,b[,c])[;**LS** d]!

[2] **CLR:SRST;DPC** (a,e,f[,c])[;**LS** d]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Destination Point Code (DPC) network identifier (1-254). |
| b | **DPC** network cluster (0-255). |
| c | **DPC** member identifier (0-255). Include this field if you want to stop the **SRST** for a single member of a cluster. Do not include this field if you want to stop the **SRST** for an entire cluster. |
| d | Link set (1-127). Include this field if you want to stop the **SRST** for one link set. Do not include this field if you want to stop the **SRST** for all the link sets used by the **DPC**. |
| e | Region identifier (0-31). |
| f | Cluster identifier (0-7). |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The message was not recognized. Repeat the request. |
| `PF` | Printout Follows. The request was received and will be acted on. A printout will follow later to explain in detail the results of the work initiated. |
| `RL` | Retry Later. System resources are unavailable to execute command now. |

## 5. REFERENCES

Output Message
`CLR:SRST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:T1M
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

The **`CLR:T1M`** command clears the addressable T1 termination's Errored Extended Super Frame (ESF) counters or the T1 termination's Performance Measurements Data counters.

The Errored ESF (ERRESF) counter in the Universal Link Node (ULN) is an ongoing accumulation of CRC6 Error Events and Out-of-Frame Error Events. This count, kept ONLY in the ULN, continues to increase in value as these error events occur, until either:

— The count is manually cleared with this **`CLR:T1M,ERRESF`** command or

— The count reaches its maximum value of 65535.

Once this counter reaches this maximum value, it stays stuck at this value until manually cleared.

This Errored ESF counter is displayed each time the ULN T1 termination's status is requested with the `OP:T1M,ST` command.

The Errored ESF counter is NOT administered on periodic 15-minute intervals into historical counts as are the other Performance Measurements Data Counts described.

The addressable T1 termination's other Performance Measurements Data Counts are counts of Errored Seconds (ES), Failed Seconds (FS) (or Unavailable), Bursty Errored Seconds (BES), Severely Errored Seconds (SES), Slip Buffer Overflow/Underflow (SLIPS), and Loss-of-Frame Count (LOFC). A Current (15-minute) Interval set of these counts and up to 96 Historical (15-minute) Interval sets (or 24 hours' worth) of these counts are retained. The "15-minute intervals" are aligned with the network clock time.

The single set of current interval counts are kept ONLY in the ULN, and they contain counts accumulated thus far into the "current 15-minute interval" from the last 15-minute interval boundary. Whenever the current interval counts are requested, they are obtained from the ULN for display.

At each "15-minute interval" boundary the current interval's set of counts in the ULN is:

— Moved into the ULN's most recent historical set of counts. Each of the ULN's other historical sets of counts is moved down into the next older set of ULN historical counts. All counts in the ULN (current and historical) are lost on ULN removal/restoral.

— Sent up to the 3B where it is stored in PAS memory as part of the historical counts. The PAS historical counts will survive ULN removal/restoral.

SEE PROPRIETARY NOTICE ON COVER PAGE

The **CLR:T1M,PDCNTS,...;NEULN** form of the command clears both the 3B copy and the ULN copy of the historical counts.

The **CLR:T1M,PDCNTS,...;FEULN** form of the command clears ONLY the far-end ULN's copy of the historical counts. It does NOT clear the PAS copy of the far-end ULN's historical data stored in the far-end 3B.

Both forms of the command cause the "Current Interval" set of counts, kept only in the ULN, to be cleared.

Thus, by using either the NEULN or FEULN form of the **CLR:T1M,PDCNTS** command, it is possible to clear either one or both copies of a ULN T1 termination's historical counts.

## 2. FORMAT

[1] **CLR:T1M,{ERRESF|PDCNTS},LN<GRP><MEM>;{NEULN|FEULN}!**

[2] **CLR:T1M,{ERRESF|PDCNTS},LN<GRP><MEM>;**a **[E|F|B]!**

## 3. EXPLANATION OF MESSAGE

**ERRESF** Errored ESF counter.

**PDCNTS** Performance measurements data.

**GRP** The group number of the link node (00-63).

**MEM** The member number of the link node (1-15).

a Characters C through X are the ASCII addresses of the Network Channel Office Equipment (NCOE), the target facility.

**NEULN** Near end Universal Link Node (ULN) T1 Termination is the target facility. This form of the **CLR:T1M,PDCNTS,...;NEULN** command clears current interval counts and both the 3B and the ULN copies of the historical sets of counts.

**FEULN** Far end ULN T1 Termination is the target facility. This form of the **CLR:T1M,PDCNTS,...;FEULN** command clears current interval counts and ONLY the far-end ULN's copy of the historical sets of counts. The far-end 3B's Protective Application Segment (PAS) copy of the far-end ULN's historical counts are NOT cleared.

**E** Selects equipment side T1 termination. Valid when an NCOE is targeted. The equipment side is the default when an NCOE is selected and this optional side field is omitted.

**F** Selects facility side T1 termination. Valid when an NCOE is targeted.

**B** Selects equipment and facility sides' T1 terminations. Valid when an NCOE is targeted.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. |

## 5. REFERENCES

Practice 256-090-182, *CNI Maintenance Manual*, T1 Maintenance Procedures Section

Input Messages

```
ATR:T1M
EXC:T1M
OP:T1M
SET:T1M
```

Output Messages

```
ATR:T1M
CLR:T1M
EXC:T1M
OP:T1M
SET:T1M
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:TDAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Removes a Traffic Data Administration (TDAS) user from access to the TDAS measurement data base via datalink for an operation support system user.

All TDAS related messages are recorded in the log file TDASLOG and may be accessed using `OP:LOG`. To get `CLR:TDAS` messages from the log, use `OP:LOG` with the appropriate keywords.

## 2. FORMAT

**`CLR:TDAS,USER`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` User ID:

- `B` — Traffic Data Concentrator Unit (TDCU).
- `D` — Machine Administration Center (MAC).
- `E` — Lucent Communications southern region collection.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

`PF` Printout Follows. Followed by `CLR:TDAS` output message.

## 5. REFERENCES

File Name
`3bmeas`

Input Messages
`IN:TDAS`
`OP:LOG`

Output Messages
`CLR:TDAS`
`IN:TDAS`
`OP:LOG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Causes the definition of a computer Generic Access Package (GRASP) transfer trace to be removed. The trace goes into the UNDEF state with successful completion of the message.

## 2. FORMAT

**`CLR:UMEM[;UCL]!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** Unconditional execution.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`
Message not allowed in a `WHEN` action list.

`?I` Identification field contains an error.

`NG` No Good. Includes one of the following:

— `TRACE NOT DEFINED`
The trace is not defined.
— `UCERR`
The circuit is unavailable.

`PF` Printout Follows. Followed by a `CLR:UMEM` output message.

`RL` Retry Later. Or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. The system is in an overload condition.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`INIT:UMEM`
`OP:UMEM`
`OP:UTIL`

Output Messages
`CLR:UMEM`
`OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes all currently defined computer Generic Access Package (GRASP) breakpoints; clears definitions.

## 2. FORMAT

**`CLR:UTIL[;RESET]!`**

## 3. EXPLANATION OF MESSAGE

**`RESET`** The **`RESET`** option causes breakpoint numbering to be reinitialized; the next breakpoint defined will be given the number 1.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`
Command not allowed in a `WHEN` action list.

`NG` No Good. No GRASP breakpoints are currently defined.

`PF` Printout Follows. Followed by a `CLR:UTIL` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`CLR:UTILFLAG`
`OP:UMEM`
`OP:UTIL`
`WHEN:PID`
`WHEN:UID`

Output Messages
`CLR:UTIL`
`OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CLR:UTILFLAG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified computer Generic Access Package (GRASP) breakpoint and clears the definition.

## 2. FORMAT

**`CLR:UTILFLAG`** `a[`**`;RESET`**`]!`

## 3. EXPLANATION OF MESSAGE

`a` Numeric identifier (one or more decimal digits) for the breakpoint to be cleared.

**`RESET`** If `a` is the last remaining defined breakpoint, then the **`RESET`** option causes breakpoint numbering to be reinitialized; the next defined breakpoint will be given the number 1. If `a` is not the last defined breakpoint, then the **`RESET`** keyword is ignored.

## 4. SYSTEM RESPONSE

`NG` No Good. Identifier does not correspond to a currently defined breakpoint.

`PF` Printout Follows. Followed by a `CLR:UTILFLAG` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `CLR:UTIL`
- `OP:UMEM`
- `OP:UTIL`
- `WHEN:PID`
- `WHEN:UID`

Output Messages
- `CLR:UTILFLAG`
- `OP:UTIL`
- `WHEN:PID`
- `WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... CMPR:D-CORE
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Compares the text portions of the disk and core images of a non-killable process. Equipment Configuration Database Library (ECDLIB), Public Library (PLIB), and `3bsgen.kern` can also be compared.

## 2. FORMAT

**`CMPR:DISK,CORE,FN`** `"a";[,`**`OPTNM`** `"b",`**`MPT`** `"c",`**`MHDNUM`** `"d"]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file. See the *User Guidelines* in this document for definitions of pathname and file. |
| `b` | Special device file name on offline partition (e.g., `/dev/root`). |
| `c` | Pathname of mount point. |
| `d` | Moving Head Disk (MHD) number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `CMPR:D-CORE` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`CMPR:D-CORE`
`UPD:SYSERR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . CMPR:MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command can degrade system performance. This command should not be used without expert technical assistance.**

## 1. PURPOSE

Compares the contents of two disks or two disk partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both disk partitions may reside on the same disk.

Only one `CMPR:MHD` or `COPY:DIFF` command is allowed to run at one time. If more than one is attempted, the DFC driver will deny the request and output an error code to that effect.

## 2. FORMAT

**`CMPR:MHD`** `a[,`**`PTN`** `{b|c-d}];[`**`MATE`**`|`**`MHD`** `e][,`**`PTN`** `{b|c-d}][:`**`BLOCKS`** `f,`**`RO`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | First member number. |
| `b` | Partition numbers within a range (`0-63`), or a comma separated list of partitions, where the list may include 64 entries. Default will be all but the `FREE`, `UNASGN`, `DIAG`, `SWAP`, and `PDUMP` partitions. |
| `c-d` | A range of partition numbers or a comma separated range of partition numbers. Up to 32 ranges may be specified. A range has the format `c-d` where `d` must be greater than `c`. |
| `e` | Second member number.<br>**NOTE:** If **`MHD`** `e` or **`MATE`** is not specified, **`MATE`** is the default. |
| `f` | An integer value indicating the size of the Input/Output (I/O) buffers as a multiple of disk blocks (`1-256`). If **`BLOCKS`** is not specified, the default is `256`. However, if **`BLOCKS`** is not specified, and the **`RO`** option is used, then the default is `128`. |
| **`RO`** | All blocks on specified Moving Head Disks (**`MHD`**s) or partitions will be read into memory, but no comparison will be performed. If **`MHD`** for the second member or **`MATE`** is not specified, the reads will only be performed on **`MHD`** for the first member number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `CMPR:MHD` output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
CMPR:MHD
COPY:DIFF-MHD
DUMP:MHD-BLK
STOP:CMPR-MHD
```

Output Message

```
CMPR:MHD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CMPR:ODA
WORK CENTER . . MOC
GENERIC . . . . . 4AP19 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Compares and checks Office Data Assembler (ODA) translators necessary for generic retrofit and ODA update.

Format 1 compares the member translators.

Format 2 compares the version translators.

Format 3 compares the 1024K word block of call store and program store memory.

Format 4 compares the Digital Interface Frame Type.

Format 5 compares the Digital Signaling Function Number.

Format 6 compares the Feature Flags.

Format 7 compares the Office Originating Point Code.

Format 8 compares the Signal Transfer Point Network.

Format 9 runs Formats 1 through 8 comparisons.

Format 10 compares a selected ODA data structure.

## 2. FORMAT

[1] **CMPR:ODA:MTRANS!**

[2] **CMPR:ODA:VTRANS!**

[3] **CMPR:ODA:MCODE!**

[4] **CMPR:ODA:DIFTYPE!**

[5] **CMPR:ODA:DSIGFNUM!**

[6] **CMPR:ODA:FEATFLGS!**

[7] **CMPR:ODA:OFCOPC!**

[8] **CMPR:ODA:STPNET!**

[9] **CMPR:ODA:XLCP!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[10] **CMPR:ODA:SPCL,ACTADR** a,**OOSADR** b[,**MASK** c][,**L** d]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Octal address in active memory. |
| b | Octal address in out-of-service memory. |
| c | Octal mask of data to be compared. Default is 7777777. |
| d | Length in decimal. Default is 1. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Unexpected keyword in the DATA field of the command. |
| PF | Printout Follows. The program is proceeding. |

## 5. REFERENCES

Output Message
CMPR:ODA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . CONNECT:0
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Connects a 3B terminal to the output channel from an intelligent frame complex.

## 2. FORMAT

**CONNECT:**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Frame complex name. |
| b | Frame complex number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. Frame data link down or does not exist. |

## 5. REFERENCES

File Name
/coams/inscreen

Input Messages
DISCONNECT:0
SEND:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:ACTDISK
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Copies a file from an active disk to an Off-Line (OFL) or Out-Of-Service (OOS) disk. The file can be a regular file, a contiguous file (type "C" or "x"), or a block device (type "b", partition or file system). For a regular or contiguous file, the destination file will be created with type, owner, and permission flags similar to those of the source file.

## 2. FORMAT

**COPY:ACTDISK:MHD** a,**SRC** "b",**PTN** "c"[,**DEST** "d"]!

## 3. EXPLANATION OF MESSAGE

a — Specifies destination disk unit (0–255). This disk should not be active.

b — Full pathname of the file to be copied. This file should exist on an active disk. See the *User Guidelines* in this document for definitions of pathname and file.

c — Special device filename or number of the destination partition on the non-active disk. If a name is specified, then this partition should exist on the active disk.

d — A pathname where the file is to be written, on the non-active file system. If this name is not specified, the path name of the source file will be used. If the name starts with a /, then the mount point will be excluded. This name should not be specified if the source is a partition or file system.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Followed by a COPY:ACTDISK output message.

## 5. REFERENCES

Output Message
COPY:ACTDISK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:ADDR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies data from virtual addresses in main memory to other virtual addresses, registers, or computer Generic Access Package (GRASP) utility variables as a response to a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

## 2. FORMAT

**COPY:ADDR** a[**,OFF** b][**,L** c|**,NL** d]{**;ADDR** e|**;UVAR** f|**;REG** g}[**;WORD**]**!**

## 3. EXPLANATION OF MESSAGE

a — The starting virtual address for the source data in decimal, octal, or hexadecimal notation.

b — A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **WORD** option is specified.

c — The length of the copy in bytes unless the **WORD** option is specified. The maximum is 128 bytes or 32 words. The default is 1 word or byte.

d — The operation will use the locations beginning at the given value lower than the calculated address and ending at the address. The locations are used in ascending order.

e — The virtual address of the destination for the data in decimal, octal, or hexadecimal notation.

f — A GRASP utility variable (1-50), in decimal, to be written as the destination copy. Utility variable values are reset to zero at the end of a debugging session.

g — The name of the register to be written as the destination copy: AP, ATBBGR, ATBPSW, ATBQ, ATBSAR, ATBSCR, ATBSDR, BGR, CAR, CDR, ERC, FP, HG, HSR, HSRBGC, IM, ISC, ISS, PA, PPR, PSW, R10, R11, R8, R9, RNULL, RTC, SBR0, SBR1, SBR2, SBR3, SBR4, SBR5, SBR6, SBR7, SCRATCH0, SCRATCH1, SDR, SM, SP, SSRC, SSRS, SYSBASE, T0, T1,

SEE PROPRIETARY NOTICE ON COVER PAGE

T2, T3, T4, T5, T6, T7, TIMERS, TOPIS, UINT0, UINT1, UINT2, UINT3, UINTER.

**WORD** All addresses, offsets, and lengths are interpreted in terms of words (including addresses derived in address chains). If this option is omitted, values given are in bytes.

## 4. SYSTEM RESPONSE

?I Identification field contains an error. General syntax error or one of the following errors:

— INCONSISTENT KEYWORDS (NL-OFF)
Negative length not allowed without OFF.
— INVALID KEYWORD
ADDR is invalid in an immediate action.
— RANGE ERROR (UVAR)
Invalid utility variable number was specified.
— RANGE ERROR (L or NL)
Length specified is too long.
— INPUT ERROR (OFF COUNT)
Too many offsets listed.

IP In Progress. The message has been added to the WHEN action list.

NG No Good.

— BAD REG NAME
A named register is not a valid destination.

PF Printout Follows. Followed by a COPY:ADDR output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
COPY:PID
COPY:UID
DUMP:ADDR-A
LOAD:ADDR-A
WHEN:PID
WHEN:UID

Output Messages
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:AMATAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Writes primary or secondary Automatic Message Accounting (AMA) data records onto tape.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 2. FORMAT

**COPY:AMATAPE;{PRIM|SEC},MT** a[**,SBLK** b**,EBLK** c][**:OC|:IC**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **PRIM** | Write primary data. |
| **SEC** | Write secondary data. |
| a | Tape drive number. |
| b | Sequence number of the first block of secondary data required. This variable is used only if secondary data is being written onto tape. |
| c | Sequence number of the last block of secondary data required. This variable is used only if secondary data is being written onto tape. |
| **IC** | Used if AMA data goes to the Inter-LATA revenue accounting office data stream. |
| **OC** | Used if AMA data goes to the operating company revenue accounting office data stream. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| IP | In Progress. If tape writing is allowed and a message was successfully sent to start the tape writing session. When tape writing is completed either a REPT:AMATAP-ER message or a REPT:AMATAP-CO message will be output indicating the outcome of the request. |
| NG | No Good. If the teleprocessing option is in effect, a tape session is already in progress, or data transfer sessions have been manually inhibited. Also, the data stream check could have failed. |
| PF | Printout Follows. If any invalid internal data is encountered while processing the input message. An audit printout will follow. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| RL | Retry Later. A message could not be sent to start the tape writing process. If the problem persists, refer to the AMA TOPS procedure for further resolution. |

## 5. REFERENCES

Input Messages

```
ABORT:AMATAPE
OP:AMA-STREAM
STOP:AMATAPE
```

Output Messages

```
REPT:AMATAP-CO
REPT:AMATAP-ER
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:APPDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This message should be used with discretion. A loss of service may result from improper use.**

## 1. PURPOSE

This input message copies the GTT10D application database from one 3B20D partition to another. Options include:

1. Copy the entire database (all customer units) from one 3B20D disk partition to another.
2. Copy individual database customer units from one 3B20D disk partition to another.
3. Copy the entire database from one 3B20D disk partition to tape.
4. Copy the entire database or individual customer units from tape to either backup (SHADOW or SCRATCH) partition.

**NOTE:** This input message cannot be used to copy the database from tape to the ACT (`/dev/appdb0`) partition.

Since the APPDB database file being copied should be quiescent (not changing), the user should make sure that the proper inhibits are placed on the database if the database being copied (to or from) is the ACTIVE (`/dev/appdb0`) database.

When the **`APP`** keyword and argument are used, only the specified customer unit is copied. If the **`APP`** keyword is omitted, the entire database (all customer units) are copied.

When the destination (**`TO`**) partition is the active database (`/dev/appdb0`) and the active database has a valid format, the **`SID`** keyword and argument are required.

## 2. FORMAT

```
COPY:APPDB,[SID a],[APP b];FROM c,TO d!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Password, based on the day of the month. See support personnel for the specific value. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`b` One of the following:

| | | |
|---|---|---|
| `ATP` | — | AT&T Trigger Platform (ATP) data tables |
| `IBGTT` | — | Inbound global title translation |
| `PCPGTT` | — | Positive call processing global title translation |

`c` String representing database partition to copy from:

| | | |
|---|---|---|
| `ACT` | — | Active partition, `/dev/appdb0` |
| `SCRATCH` | — | Scratch pad partition, `/dev/appdb2` |
| `SHADOW` | — | Backup partition, `/dev/appdb1` |

Or a valid 3B20D tape device name (e.g., `/dev/mt08`)

`d` String representing database partition to copy to:

| | | |
|---|---|---|
| `ACT` | — | Active partition, `/dev/appdb0` |
| `SCRATCH` | — | Scratch pad partition, `/dev/appdb2` |
| `SHADOW` | — | Backup partition, `/dev/appdb1` |

Or a valid 3B20D tape device name (e.g., `/dev/mt08`)

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Message accepted and `COPY:APPDB` output message follows.

## 5. REFERENCES

Input Messages
- `INH:DLNAUD`
- `INH:RCV-APPDB`
- `VER:MEMORY`

Output Message
- `COPY:APPDB`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:APPFILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Copies the normal 1B file and its associated Software Change Package (SCP) tracking file to the equivalent update 1B file.

## 2. FORMAT

**COPY:APPFILE NORM[;UCL|NOLOCK]!**

## 3. EXPLANATION OF MESSAGE

**UCL** Overrides the standard restriction that the normal and update 1B files must contain the same generic release before the copy is started.

**NOLOCK** Same as **UCL** option except it will not call System Audit Writable Stores (SAWS) lock which is the standard restriction to lock SAWS before the copy is started.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Unexpected keyword in the data field of the command.

?I Identification field contains an error.

PF Printout Follows. The program is proceeding.

## 5. REFERENCES

Output Message
COPY:APPFILE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:APPTAPE
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Copies some non-hashed file-store-only data to archive tape.

## 2. FORMAT

**COPY:APPTAPE:**a,**MT** b[,**FN** "c"]!

## 3. EXPLANATION OF MESSAGE

a — Data to be copied:

- ERAP — Copies the Error Analysis Program (ERAP) data.
- LTS — Copies the Long Term Storage (LTS) data.
- TOSL — Copies the Trunk Out-of-Service List (TOSL) data.

b — The tape unit (0|1) where the archive tape is mounted.

c — Optionally, the full, absolute path name of the source /dev/1afile or /dev/spec file. If no path is specified, the NORM 1BFILE will be used.

## 4. SYSTEM RESPONSE

117, CANNOT ACCESS c
Contact you technical support organization.

119, UNIX SEEK FAILURE ON c
Contact you technical support organization.

121, ID2FS MAP READ FAILURE
Contact you technical support organization.

123, UNIX SEEK FAILURE ON ID2FS MAP
Contact you technical support organization.

125, NO READ ACCESS ON c
Contact you technical support organization.

127, NO WRITE ACCESS TO TAPE DRIVE
Contact you technical support organization.

131, CANNOT WRITE HEADER TO TAPE
Contact you technical support organization.

133, UNIX SEEK FAILURE ON SRC FILE STARTING ADDRESS
Contact you technical support organization.

SEE PROPRIETARY NOTICE ON COVER PAGE

`135, UNIX SEEK FAILURE ON DEST FILE STARTING ADDRESS`
Contact you technical support organization.

`137, READ FROM SRC FILE FAILED`
Contact you technical support organization.

`139, WRITE TO DEST FILE FAILED`
Contact you technical support organization.

`COPY:APPTAPE ABORTED, CANNOT OPEN c`
The source 1BFILE cannot be accessed. Check the path name spelling if the **`FN`** option was used; else seek technical assistance from your support organization.

`PF` Printout Follows. Followed by output message `VER:APPTAPE`.

`RL` Retry Later. This command may be issued only in the time window from 2 minutes to 11 minutes after the quarter hour.

## 5. REFERENCES

Input Messages
- `LOAD:APPTAPE`
- `VER:APPTAPE`

Output Messages
- `COPY:APPTAPE`
- `LOAD:APPTAPE`
- `VER:APPTAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:BKDISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies selected on-line disk partitions to tape in the Load Disk From Tape (LDFT) format. The partitions must be specified in a specification file. The default for the specification file name is `/etc/pdtspec`. The full pathname must be given for each partition, and only one partition can appear on each line.

If the system is booted on the primary root file system, for those partitions having backup partitions, the backup partitions are written to tape. If the system is booted on the backup root file system, the primary disk partitions are written to tape. Partitions without backup partitions are written from the primary partitions in both cases. Collectively the partitions make up one logical volume.

Format 1 copies the partitions to magnetic tape in single volume format.

Format 2 acknowledges the mounting of a new tape by the user. Format 2 is only used in conjunction with Format 1.

Format 3 copies partitions to a Digital Audio Tape (DAT) in multi-volume format.

On a 3B21D Computer with a Digital Audio Tape (DAT) drive, Format 3 is used to format the DAT with multiple logical volumes, provided the tape already contains the TOP file at the beginning of tape. (The TOP file is considered to be Session 1 Volume 0 and is written by the `COPY:TAPE:TOP` command.) One or more of these logical volumes form a backup session. A DAT may be formatted with no more than nine (`1-9`) backup sessions in sequential order. A backup session may contain any combination of logical volumes meeting the following criterion: the logical volumes within a session must be ordered such that any given volume identified by its logical volume number has a greater number than the previous volume in the session.

See the Explanation Of Message for the mapping of logical volume numbers to the volume names they represent.

By default, Format 3 will try to append logical volumes to the current end of data mark. There are optional parameters for session and volume position to request that a logical volume be appended to the end of a specific logical volume on the DAT for the purpose of overwriting the DAT from that point forward. This option is only valid for overwriting logical volumes within the most recent backup session or for appending a logical volume for the next session to the last logical volume of the specified positioning session.

## 2. FORMAT

[1] **`COPY:BKDISK;START:SRC "a",TD "b",TPSIZE c`**
**`[,FN "d"][,MRG][,EXT][,SKP][,NODMTMSG][,COM]!`**

SEE PROPRIETARY NOTICE ON COVER PAGE

[2] **COPY:BKDISK;ACK:TPSIZE** c!

[3] **COPY:BKDISK;MULTI:SRC** "a",**TD** "b",**SESS** e,**VOL** f
[,**PSESS** g,**PVOL** h][,**FN** "d"][,**MRG**][,**EXT**][,**SKP**][,**NODMTMSG**][,**COM**]!

## 3. EXPLANATION OF MESSAGE

a — Pathname that specifies the boot disk. See the *User Guidelines* in this document for a description of special device file names.

b — Special device file name of the tape drive to be used. See the *User Guidelines* in this document for definitions and examples of tape device names.

c — Specifies the size of the tape mounted. The tape size for 9-track devices is in feet and in meters for Digital Audio Tapes (DATs). The acceptable range for a 9-track tape size is 600 to 2400, and the acceptable range for a DAT tape size is 30 to 90. The format requires entry of the tape size separated from the keyword by a space.

d — Specification file name that contains a set of partitions to be written to tape. The full pathname of the file is required.

e — Backup session number which is used to group one or more logical volumes together. The first backup session on tape must be numbered backup session 1 and increased sequentially thereafter with a maximum value of 9.

f — Logical volume number which identifies the group of partitions being written to tape:

1 — AMTEXT

2 — AMODD

3 — SMTEXT

4 — SMODD1

5 — SMODD2

6 — SMODD3

7 — SMODD4

8 — SMODD5

9 — SMODD6

g — Positioning backup session number which identifies a backup session on tape (1–9). This number is used along with the positioning logical volume number to locate a specific logical volume on tape to which to append the new logical volume. The absence of the positioning fields will result in the logical volume being appended to the current end of data mark on tape.

SEE PROPRIETARY NOTICE ON COVER PAGE

`h` Positioning logical volume number (`0-9`). Note that `0` is included in this range to allow for appending to the TOP file. Refer to the explanation for the backup session number for more information.

**`MRG`** Writes generic and database partitions as one generic sequence. With this option, the specification file should contain both database and generic partitions. As the default, if the specification file contains generic and database partitions, then two sequences will be created. Note that the default action is not supported for a multi-volume LDFT tape. The user must specify this option when the specification file contains both database and generic partitions and input command Format 3 is being used.

**`EXT`** LDFT extended format tapes where the data blocks can be up to 6K bytes. This option cannot be used on a Kennedy tape drive controlled by a UN134 PC.

**`SKP`** Skip block usage bitmap and unused data blocks when writing file systems to tape. Use of this option is generally recommended, because it will conserve tape, if possible. This will usually save time also. Note, however, that tape reading and writing time may double when this option is used with streaming tape drives (drives without mechanical tensioners or vacuum columns) in a worst-case data scattering scenario.

**`NODMTMSG`** Upon completion, the `DISMOUNT TAPE AND LABEL` message will not be printed.

**`COM`** This option must be used when creating an RTR disk image that contains a common VTOC (a VTOC containing both the 3B20D VLMM and 3B21D `lboot` partitions) or when creating other generic text tapes that will be shared among 3B20D VLMM and 3B21D processors.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

`NG` No Good. A fatal error was encountered because the actual disk writer or the user acknowledgement program (invoked by `COPY:BKDISK;ACK` command) could not be initiated. Try the command again. If the process fails again, seek technical assistance.

`PF` Printout Follows. Followed by a `COPY:BKDISK` output message.

## 5. REFERENCES

Practice 254-341-114 *Field Operations Tools Software Subsystem Description*
*Lucent Technologies 3B20D/3B21D Computer*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
COPY:T-TOP
DUMP:BKTAPE
STOP:BKDISK
```

Output Message

```
COPY:BKDISK
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:BKTAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies the contents of a multi-volume formatted Digital Audio Tape (DAT) from a source DAT drive to a destination DAT drive. The default action is to make a complete copy of the source DAT. If the optional session number is specified, then the multi-volume formatted data is copied from the beginning of the specified session on the source DAT and appended to the end of the previous session on the destination DAT.

## 2. FORMAT

**`COPY:BKTAPE:SRC`** `"a"`**`,DEST`** `"b"[`**`,SESS`** `c]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Device filename of the source DAT drive. See the *User Guidelines* in this document for definitions and examples of tape device names. |
| `b` | Device filename of the destination DAT drive. See the *User Guidelines* in this document for definitions and examples of tape device names. |
| `c` | Session number on the source DAT (`1-9`). This session is the starting point for the copy from the source DAT. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:BKTAPE` output message. |

## 5. REFERENCES

Input Messages
`COPY:BKDISK`
`DUMP:BKTAPE`

Output Message
`COPY:BKTAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:DIFF-MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 through 4AP15
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this input message can degrade system performance and result in disk data mutilation. This command should not be used without expert technical assistance.**

## 1. PURPOSE

Compares disk partitions in order to detect differences. When a difference is found, data is copied from the source partition to the destination partition. The input arguments can specify disks or specific partitions. A disk partition may reside on the disk of its duplex mate, or on an arbitrary disk. Also, both partitions may reside on the same disk.

A difference generates a message which identifies the location of the difference. A copy will then be performed to correct the difference. The source argument is considered to contain the correct disk data. The mismatch messages provide an audit trail of corrected disk blocks.

Only one `COPY:DIFF` or `CMPR:MHD` command is allowed to run at one time. If more than one is attempted, the DFC driver will deny the request and output an error code to that effect.

## 2. FORMAT

```
COPY:DIFF;SRC,MHD a[,PTN {b|c-d}];DEST,{MATE|MHD e},[PTN {b|c-d}]
      [:BLOCKS f]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Source member number. |
| `b` | Partition numbers within a range (`0-63`), or a comma separated list of partitions, where the list may include 64 entries. Default will be all but the `FREE`, `UNASGN`, `DIAG`, `SWAP`, and `PDUMP` partitions. |
| `c-d` | A range of partition numbers or a comma separated range of partition numbers. Up to 32 ranges may be specified. A range has the format `c-d` where `d` must be greater than `c`. |
| `e` | Destination member number. |
| `f` | An integer value indicating the size of the Input/Output (I/O) buffers as a multiple of disk blocks (`1-256`). If `BLOCKS` is not specified, the default number of `128` will be used. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `COPY:DIFF-SRC` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
CMPR:MHD
DUMP:MHD-BLK
DUMP:MHD-DEF
DUMP:MHD-VTO
STOP:COPY-DIFF
```

Output Message

```
COPY:DIFF-SRC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:F-CFILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Moves a specific file into a contiguous area.

## 2. FORMAT

**`COPY:FILESYS:CFILE,FN`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file to be made contiguous. See the *User Guidelines* in this document for definitions of pathname and file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:F-CFILE` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System - Description*

Output Message
`COPY:F-CFILE`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:F-FILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of 3B20D computer or degrade its performance or availability. All existing data in the destination file will be destroyed.**

## 1. PURPOSE

Copies a specific file to another file or directory.

**NOTE:**
If only a filename is given for **DEST**, the default directory is `/cft/shl`. Example:

**COPY:FILESYS:FILE,SRC "/tmp/tst",DEST "tmtst"!**

## 2. FORMAT

**COPY:FILESYS:FILE,SRC** "a"**,DEST** "b"[**,ERASE**|**,NOERASE**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the file to be copied. See the *User Guidelines* in this document for definitions of pathname and file. |
| b | Pathname of the destination directory or file. This variable cannot be identical to variable a. |
| **ERASE** | Indicates that the sourcefile will be renamed (moved) to the **DEST** indicated, i.e., one file will exist. |
| **NOERASE** | Indicates that the **SRC** file will be copied to the **DEST** indicated and two files will exist. Default is **NOERASE**. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by COPY:F-FILE output message. |

## 5. REFERENCES

Display/Menu Page Name
CRAFT FM 01

Practice 254-341-100 *File System - Description*

Input Messages
ALW:F-ACCESS
CLR:F-FILE
COPY:P-ALL

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ALW:F-ACCESS
CLR:F-FILE
COPY:F-FILE
COPY:P-ALL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:FSBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This command overwrites data in 3B disk files. It should not be used without expert technical assistance.**

## 1. PURPOSE

Input a buffer of overwrites into a 3B disk file.

Process the overwrite buffer accumulated with use of the `IN:FSBUF` command. The processing is done in five steps.

1. Verify the old data. Old data must match or the command aborts.
2. Make a backup copy of the file.
3. Apply the overwrites to the backup copy of the file.
4. Optionally check the hash sum.
5. Switch the backup, overwritten copy with the target file.

## 2. FORMAT

**`COPY:FSBUF`**`[`**`;HASHSUM`** `a]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Calculated hash sum number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
`CLR:FSBUF`
`COPY:FSBUF`
`DUMP:FSBUF`
`IN:FSBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:LIBUF
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Requests copy of link interface buffers from Common Channel Signaling Number 7 (CCS7) nodes to disk files. Also requests cancellation of an earlier, unwanted `COPY` command.

Whenever the requested buffer reaches the specified overload/overflow condition, it is copied to disk files. This is done as many times as specified or until the time limit is reached (whichever is earlier). The disk files are in the directory `/cmp/cni/bufdmp` on the target. The names of the files begin with `c_` and are formed using the ring node address, the buffer type, the condition, and the index of the dump occurrence.

Also aborts an earlier, unwanted `COPY` command.

## 2. FORMAT

**`COPY:LIBUF`** `({a|`**`LINKSET`**`},b,{`**`R`**`|`**`T`**`}):[c],[`**`NUM`** `d],[`**`TIM`** `e]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0-63`). |
| **`LINKSET`** | All links associated with that linkset will have breakpoints set on them. |
| `b` | Member number (`1-15`) or linkset number (`1-256`). |
| **`R`** | Receive buffer. |
| **`T`** | Transmit buffer. |
| `c` | Condition when buffer is to be copied. For the Transmit Buffer:<br>`OL1` — Overload Level 1<br>`OL2` — Overload Level 2<br>`OL3`— Overload Level 3<br>`OF` — Overflow<br>For the Receive Buffer:<br>`OL1` — Overload Level 1<br>`OF` — Overflow<br>If omitted, the default will be `OL1` for either buffer. |
| `d` | Number of times the buffer is to be copied (`1 - 10`). Or cancel earlier `COPY` command (`0`). Default is `1`. |
| `e` | Maximum time in hours that the command is to remain in effect (`1-24`). Default is 1 hour. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Message
`OP:LIBUF`

Output Message
`OP:LIBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:LSNC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Copies "nailed-up" TAN connections from the 1B Normal File to the 1B Update File and calculates a new hash for the affected areas.

Trunks Out Of Service List (TOSL) mapping is also performed if the correct option is specified. The need for this option could result if an SP rearrange has been performed. Maps 1B TOSL from 1B Normal File to 1B Update File.

## 2. FORMAT

**`COPY:LSNC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a`

`ALL` — Performs `PURGE`, `NAIL`, `TOSL`, and `HASH` options.

`NAIL` — Purge all nailed-up connections in 1B Update File; map all nailed-up connections from 1B Normal File to 1B Update file, and hash affected areas.

`PURGE` — Purge all nailed-up connections in 1B Update File.

`TOSL` — Map `TOSL` from 1B Normal File to 1B Update File.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. Process is already executing. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:OOSDISK
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Copies a specific file from an out-of-service disk to an active system disk. This message is typically used for retrieving a file from a software backup maintained on a spare disk.

## 2. FORMAT

**COPY:OOSDISK;MHD** a,**SRC** "b",**DEST** "c"[,**PTN** d]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Specifies a non-active disk containing the source file (0–255). |
| b | Full pathname that specifies the file to be copied. See the *User Guidelines* in this document for definition of pathname and file. |
| c | Pathname of the destination file. |
| d | Specifies partition number, where the source file resides in the out-of-service disk. If not specified, the partition corresponding to the file on the active disk will be used. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the COPY:OOSDISK output message. |

## 5. REFERENCES

Output Message
COPY:OOSDISK

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:P-ALL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**All existing data in the destination partitions will be destroyed.**

## 1. PURPOSE

Copies one set of disk partitions into a corresponding set of partitions.

A duplex disk configuration is a prerequisite for the command to work properly. To ensure data consistency, one of the Moving Head Disks (MHDs) of the duplex pair will be removed from service and the data from its copy of the source partition will be copied to the destination partition on the disk which is left active. After the copy is complete, the MHD which was removed from service will be restored.

## 2. FORMAT

**`COPY:PTN:ALL,SRC`** `"a"`**`,DEST`** `"b"[`**`,ACT`**`]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname of a file that specifies a list of partitions, or a special device filename of a partition to be copied. See the *User Guidelines* in this document for definitions of pathname and file. |
| `b` | Full pathname of a file that contains the corresponding list of destination partitions, or the special device filename for a destination partition. |
| **`ACT`** | Leaves the system in a duplex disk configuration as it copies the partitions. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:P-ALL` output message. |

## 5. REFERENCES

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`CLR:F-FILE`

Output Message
`COPY:P-ALL`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:PBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This command overwrites data in 3B disk files. It should not be used without expert technical assistance.**

## 1. PURPOSE

Input a buffer of overwrites into 3B physical memory.

Process the overwrite buffer accumulated with use of the `IN:PBUF` command. The processing is done in three basic steps.

1. Resolve the physical addresses from the input addresses. Read the physical data.
2. Compute a hashsum over the static parts of the overwrite buffer. These include the overwrite type, address, UID, new and physical data. If the "OLDDATA" option is used, checks if the physical data matches the old data.
3. Call the kernel kcopy process to install the overwrites in physical memory.

## 2. FORMAT

**`COPY:PBUF`**`[;`**`HASHSUM`**` a]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Calculated hashsum number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
`CLR:PBUF`
`DUMP:PBUF`
`IN:PBUF`

Output Message
`REPT:COPY-PBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:PID
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Copies data from virtual addresses in main memory to the computer Generic Access Package (GRASP) utility variables.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

## 2. FORMAT

```
COPY:PID a,ADDR b[,OFF c][,L d|,NL e];UVAR f[;WORD]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Process ID of the target process. |
| `b` | The starting virtual address for the source data in decimal, octal, or hexadecimal notation. |
| `c` | A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is specified. |
| `d` | The length of the file to be copied in bytes unless the **`WORD`** option is specified. The maximum is `128` bytes or `32` words. The default is `1` byte or `1` word. |
| `e` | Indicates that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option. |
| `f` | A GRASP utility variable (`1-50`), in decimal, to be written as the address of the destination of the copy. Utility variable values are reset to zero at the end of a debugging session. |
| **`WORD`** | All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. General syntax error or one of the following errors:

— `EXTRA KEYWORD (PID)`
PID is invalid in a breakpoint.
— `INCONSISTENT KEYWORDS (NL-OFF)`
Negative length not allowed without `OFF`.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `INVALID KEYWORD`
Destination of `ADDR` or `REG` not valid outside of a `WHEN` action list.
— `RANGE ERROR (L` or `NL)`
Length specified is too long.
— `RANGE ERROR (PID)`
Process ID is out of range.
— `RANGE ERROR (UVAR)`
Invalid utility variable number was specified.

`NG` No Good.

— `BAD PID`
The PID specified is for a process for which copies are not allowed.

`PF` Printout Follows. Followed by a `COPY:PID` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`COPY:ADDR`
`COPY:REG`
`COPY:UID`
`COPY:UVAR`
`DUMP:PID`
`LOAD:ADDR-A`
`LOAD:PMEM`
`LOAD:REG-A`
`LOAD:UVAR`
`OP:ST-PROC`
`OP:UMEM`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:REG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies data from computer registers to virtual addresses in main memory and in registers as an action associated with a breakpoint. Copies data from registers to computer Generic Access Package (GRASP) utility variables as either an immediate action or as an action associated with a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

Format 1 is executed as an action associated with a breakpoint.

Format 2 is executed as either an immediate action or as an action associated with a breakpoint.

## 2. FORMAT

[1] **COPY:REG** a[**,OFF** b][**,L** c]{**;ADDR** d|**;REG** f|**;UVAR=**e}[**;WORD**]**!**

[2] **COPY:REG** a[**,L** c]**;UVAR** e[**;WORD**]**!**

## 3. EXPLANATION OF MESSAGE

a — Specifies a register to be read as the source for the copy:

- AP — Argument pointer AP
- ATBBGR — Register used by the ATB miss routine to temporarily store the Bi-Directional Gating Register (BGR)
- ATBPSW — Register used by the ATB miss routine to temporarily store the Program Status Word (PSW) register
- ATBQ — Register used by the ATB miss routine to temporarily store the Q register
- ATBSAR — Register used by the ATB miss routine to temporarily store the Store Address Register (SAR) contents
- ATBSCR — Register used by the ATB miss routine to temporarily store the Store Control Register (SCR) contents

SEE PROPRIETARY NOTICE ON COVER PAGE

`ATBSDR` — Register used by the ATB miss routine to temporarily store the Store Data Register (SDR) contents

`BGR` — Bi-directional gating register

`CAR` — Channel address register

`CDR` — Channel data register

`ERC` — ER (error register) clear

`FP` — Frame pointer FP

`HG` — Reserved register HG

`HSRBGC` — Bi-directional gating control bits of the Hardware Status Register (HSR)

`HSR` — Hardware status register

`IM` — Interrupt mask register IM

`ISC` — IS (interrupt source) register clear

`ISS` — IS (interrupt source) register set

`PA` — Program address register

`PPR` — Pulse point register

`PSW` — Program status word

`R0` — General register R0

`R10` — Frame pointer FP

`R11` — Stack pointer SP

`R1` — General register R1

`R2` — General register R2

`R3` — General register R3

`R4` — General register R4

`R5` — General register R5

`R6` — General register R6

`R7` — General register R7

`R8` — General register R8

`R9` — Argument pointer AP

`RNULL` — Null register

`RTC` — Real time clock

`SBR0` — Segment base register SBR0

`SBR1` — Segment base register SBR1

SEE PROPRIETARY NOTICE ON COVER PAGE

`SBR2` — Segment base register SBR2

`SBR3` — Segment base register SBR3

`SBR4` — Segment base register SBR4

`SBR5` — Segment base register SBR5

`SBR6` — Segment base register SBR6

`SBR7` — Segment base register SBR7

`SCRATCH0` — JE group temp subgroup scratch register SCRATCH0

`SCRATCH1` — JE group temp subgroup scratch register SCRATCH1

`SDR` — Store data register

`SP` — Stack pointer SP

`SSRC` — SSR (system status register) clear

`SSRS` — SSR (system status register) set

`SYSBASE` — Beginning address of UNIX® RTR Operating System tab

`T0` — JE group temp subgroup scratch register T0

`T1` — JE group temp subgroup scratch register T1

`T2` — JE group temp subgroup scratch register T2

`T3` — JE group temp subgroup scratch register T3

`T4` — JE group temp subgroup scratch register T4

`T5` — JE group temp subgroup scratch register T5

`T6` — JE group temp subgroup scratch register T6

`T7` — JE group temp subgroup scratch register T7

`TIMERS` — Timing circuit

`TOPIS` — Interrupt stack pointer

`UINT0` — Error microinterrupt hander register UINT0

`UINT1` — Error microinterrupt hander register UINT1

`UINT2` — Error microinterrupt hander register UINT2

`UINT3` — Error microinterrupt hander register UINT3

`UINTER` — Shadow error register (uint_er) loaded during an error microinterrupt

`b` A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is specified. (Used as an action associated with a breakpoint.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`c` A single offset or list of up to five offsets. The length of the copy assumed to be in bytes unless the **WORD** option is specified. The maximum is 128 bytes or 32 words. The default for an omitted or zero length is 1.

`d` Specifies the destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

`e` Specifies a GRASP utility variable (`1-50`), in decimal, to be written as the destination copy. Utility variable values are reset to 0 at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

`f` Specifies the register to be written as the destination copy. (Used as an action associated with a breakpoint.) Valid register names are: `AP, ATBBGR, ATBPSW, ATBQ, ATBSAR, ATBSCR, ATBSDR, BGR, CAR, CDR, ERC, FP, HG, HSR, HSRBGC, IM, ISC, ISS, PA, PPR, PSW, R0, R1, R10, R11, R2, R3, R4, R5, R6, R7, R8, R9, RNULL, RTC, SBR0, SBR1, SBR2, SBR3, SBR4, SBR5, SBR6, SBR7, SCRATCH0, SCRATCH1, SDR, SP, SSRC, SSRS, SYSBASE, T0, T1, T2, T3, T4, T5, T6, T7, TIMERS, TOPIS, UINT0, UINT1, UINT2, UINT3, UINTER.`

**WORD** All addresses and lengths are in terms of words. If this option is omitted, values given are assumed to be in bytes.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. General syntax error or one of the following errors:

— `EXTRA KEYWORD (OFF)` Indirection not allowed except as action of a `WHEN`.
— `INCONSISTENT KEYWORDS (NL-OFF)` Negative length not allowed without `OFF`.
— `INVALID KEYWORD` Destination of `ADDR` or `REG` not valid outside of a `WHEN` action list.
— `RANGE ERROR (UVAR)` Invalid utility variable number was specified.
— `RANGE ERROR (L or NL)` Length specified is too long.

`IP` In Progress. The message has been added to the `WHEN` action list.

`NG` No Good.

— `BAD REG NAME`
A named register is not a valid source or destination.

`PF` Printout Follows. Followed by a `COPY:REG` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 303-028 *UNIX® RTR Operating System Assembly Language and Microcode, Programmer's Manual*, Volume 8

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
COPY:ADDR
COPY:PID
COPY:UID
COPY:UVAR
DUMP:REG-A
LOAD:ADDR-A
LOAD:REG-A
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:SPDISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies a specific partition, or a list of partitions, from one of the system disks to an active spare disk. This command is typically used for generating a backup copy of the software on a system disk. The system disk pair must be duplexed to use this input message.

## 2. FORMAT

```
COPY:SPDISK;SRC "a",DEST "b"!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname of a file that contains a list of partitions, or a special device file name of a partition, to be copied. See the *User Guidelines* in this document for definitions of full pathname and special device file name. |
| `b` | Filename for the corresponding list of destination partitions, or the special device filename for a destination partition. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:SPDISK` output message. |

## 5. REFERENCES

Output Message
`COPY:SPDISK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:T-EMERDMP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies data from the emergency dump partition on a disk to a magnetic tape.

**NOTE:** If the resulting tape is to be read on a UNIX® system, it must be read using the `dd` command.

## 2. FORMAT

**`COPY:TAPE:EMERDMP,TD`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Tape special device file name. See the *User Guidelines* in this document for definition and examples of tape device names. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:T-EMERDMP` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`CLR:EMERDMP`
`OP:EMERSTAT`
`OP:ST-FILESYS`

Output Messages
`COPY:T-EMERDMP`
`REPT:EMER-DUMP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:T-IN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**If a full pathname is specified on the `COPY:TAPE;OUT` command line, directory information is retained and the file will be placed in the same directory it was copied from, overwriting any existing version.**

## 1. PURPOSE

Copies files from a magnetic tape containing full or relative pathnames and header information, and places them in their respective directories. This command can also print a table of contents of the tape.

**NOTE:** If the tape to be read was written on a UNIX® system, it must have been written using the cpio message with the `-c` option.

## 2. FORMAT

**`COPY:TAPE:IN,TD`** `"a"[,`**`TOC`**`|,`**`BSDIR`** `"b"]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Tape special device file name. See the *User Guidelines* in this document for definitions and examples of tape device names.

**`TOC`** Table of contents. Prints a list of the files on the tape with their status information. No files are created.

`b` Pathname of the base directory into which the files on the tape will be copied. See the *User Guidelines* in this document for definitions of pathname and directory.

**NOTE:** If the relative path is specified on the `COPY:TAPE;OUT` command line, the default base directory is `/cft/shl/cmds`. Use the **`BSDIR`** option to specify an alternate base directory.

Remember, the **`BSDIR`** option does not apply if the full pathname was specified on the `COPY:TAPE;OUT` command line. Use the **`TOC`** option of **`COPY:TAPE;IN`** to determine how a file or list of files were copied to tape, that is whether copied by relative pathnames or by full pathnames.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `COPY:T-IN` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`COPY:T-OUT`

Output Messages
`COPY:T-IN`
`COPY:T-OUT`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:T-OUT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Use extreme caution when invoking this command with full pathnames. Reading a tape that contains full pathnames may destroy existing data.**

## 1. PURPOSE

Copies one or more files to a magnetic tape, along with full or relative pathnames and header (status) information.

Format 1 is used to copy one or more files with full pathnames. See the *User Guidelines* in this document for a definition of full pathnames.

Format 2 is used to copy one or more files with relative pathnames. See the *User Guidelines* in this document for a definition of relative pathnames.

**NOTE:** If the resulting tape is to be read on a UNIX® system, it must be read using the cpio command with the `-c` options.

## 2. FORMAT

[1] **`COPY:TAPE:OUT,TD`** `"a"{,`**`FN`** `"b"|,`**`FLIST`** `"c"}!`

[2] **`COPY:TAPE:OUT,TD`** `"a"{,`**`FN`** `"d"|,`**`FLIST`** `"e"},`**`BSDIR`** `"f"!`

## 3. EXPLANATION OF MESSAGE

`a` Tape special device file name. See the *User Guidelines* in this document for definitions and examples of tape device names.

`b` Full pathname of the single file to be written to the tape. See the *User Guidelines* in this document for a definition of full pathname.

`c` Pathname of a file that contains a list of full pathnames of the files to be written to the tape. Used if two or more files are to be written.

`d` Relative pathname of the single file to be written to the tape. Specify the base directory via the **`BSDIR`** option. See the *User Guidelines* in this document for a definition of relative pathname.

`e` Pathname of a file that contains a list of relative pathnames of the files to be written to the tape. Used if two or more files are to be written. Specify the base directory via the **`BSDIR`** option.

`f` Pathname of the base directory where the file to be copied to tape is located. Relative pathnames are relative to this directory. See the *User Guidelines* in this document for definitions of pathname and directory.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `COPY:T-OUT` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`COPY:T-IN`

Output Messages
`COPY:T-IN`
`COPY:T-OUT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:T-TEST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Writes the diagnostic test tape header block onto a magnetic tape. A demand diagnostic phase for the tape unit verifies the tape has this header block (in low density) before using the tape for testing.

## 2. FORMAT

**`COPY:TAPE:TEST,TD`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Tape special device file name. See *User Guidelines* in this document for definition and examples of tape device names. Select low density and rewind. The diagnostic phase will not accept the tape if the header block is written in high density. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `COPY:T-TEST` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Output Message
`COPY:T-TEST`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:T-TOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies a Tape-Only Program (TOP) file from disk to tape. A TOP file contains writable microcode and the Load Disk From Tape (LDFT) program used for a "deadstart." If the **COM** option is specified, the Very Large Main Memory (VLMM) TOP file and 3B21D TOP file are copied from disk to tape, strictly in that order. Otherwise, a hardware-platform-specific TOP file is copied. For example, if the current hardware platform is VLMM, `/etc/topfile64` or `/etc/topfile` is copied to tape.

## 2. FORMAT

**COPY:TAPE:TOP,TD** "a"[**,COM**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Tape special device file name. See the *User Guidelines* in this document for definition and examples of tape device names. |
| **COM** | Option used to create a common TOP tape which consists of both the VLMM TOP file and the 3B21D TOP file. |

**NOTE:** The input message with the **COM** option does not copy the Standard Main Memory (SMM) or Extended Main Memory (EMM) TOP file. If this option is not specified, the TOP file copied to tape will be the one for the current hardware platform. See the example in the Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the `COPY:T-TOP` output message. |

## 5. REFERENCES

Output Message
`COPY:T-TOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... COPY:UID
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Copies data from virtual addresses in main memory to computer Generic Access Package (GRASP) utility variables as an immediate action.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

## 2. FORMAT

**COPY:UID** a,**ADDR** b[,**OFF** c][,**L** d|,**NL** e];**UVAR** f[;**WORD**]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The utility ID of the process from which the source data will be copied. |
| b | The starting virtual address for the data in decimal, octal, or hexadecimal notation. |
| c | A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **WORD** option is specified. |
| d | The length of the copy in bytes unless the **WORD** option is specified. The maximum is 128 bytes or 32 words. The default is 1 byte or 1 word. |
| e | The operation will use the locations beginning at the given value lower than the calculated address and ending at the address. The locations are used in ascending order. |
| f | A GRASP utility variable (1–50), in decimal, to be written as the destination copy. Utility variable values are reset to zero at the end of a debugging session. |
| **WORD** | All addresses, offsets, and lengths are to be interpreted in words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. General syntax error or one of the following errors:

— `EXTRA KEYWORD (UID)`
UID is not valid in a `WHEN` action list.
— `EXTRA KEYWORD (UID)`
UID is invalid in a breakpoint.
— `INCONSISTENT KEYWORDS (NL-OFF)`
Negative length not allowed without `OFF`.
— `INVALID KEYWORD`
Destination of ADDR or REG not valid outside of a `WHEN` action list.
— `RANGE ERROR (UID)`
Utility ID is out of range.
— `RANGE ERROR (UVAR)`
Invalid utility variable number was specified.
— `RANGE ERROR (L` or `NL)`
Length specified is too long.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.

`NG` No Good.

— `BAD UID`
The UID specified is for a process for which copies are not allowed.

`PF` Printout Follows. Followed by the `COPY:UID` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`COPY:ADDR`
`COPY:PID`
`COPY:REG`
`COPY:UVAR`
`DUMP:UID`
`LOAD:UVAR`
`OP:UMEM`

Output Messages
`COPY:ADDR`
`COPY:PID`
`COPY:REG`
`COPY:UID`
`COPY:UVAR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . COPY:UPDATE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**

**The `NOLOCK` option should only be used as directed under the supervision of your technical support organization.**

## 1. PURPOSE

Copies Generic (`GEN`), Library (`LIB`), Office Data Assembler (`ODA`), Network Management (`NWM`), or Traffic and Plant Measurements (`TPM`), data from the normal or update file to tape.

## 2. FORMAT

**`COPY:UPDATE:`**`a b`**`,MT`** `c[`**`,NOLOCK`**`]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Type of tape to be written:

- `GEN` — Generic data to be copied to tape.
- `LIB` — Library data to be copied to tape.
- `ODA` — Office Data Assembler data to be copied to tape.
- `NWM` — Network Management data to be copied to tape.
- `TPM` — Traffic and Plant Measurements to be copied to tape.

`b` File to write from:

- `NORM` — Selects normal file.
- `UPD` — Selects update file.

`c` Tape unit number where tape is mounted (`0-1`).

**`NOLOCK`** Allows the **`COPY:UPDATE`** to proceed even if the System Audit Writable Stores (SAWS) are locked.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

`?I` Identification field contains an error.

— `COPY:UPDATE FAILED, NO 1BFILE SPECIFIED`
`NORM` or `UPD` not specified.

— `COPY:UPDATE FAILED, UNEXPECTED ID FIELD`
Invalid identification field.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `PF` | Printout Follows. The program is proceeding. |

## 5. REFERENCES

Output Message
`COPY:UPDATE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . COPY:UVAR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Copies data from a computer Generic Access Package (GRASP) in utility variable to virtual addresses in main memory and in registers as an action associated with a breakpoint. Copies data from another GRASP utility variable as an immediate action or as an action triggered by a breakpoint.

Indirect addressing may be specified. The first listed offset is added to the value of the source address and the result is used as a virtual address of a location in main memory. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of source locations. For example, a single offset with value 0 uses the virtual address found in the source for the location to be copied.

Format 1 is required by action to be triggered by a breakpoint.

Format 2 is either executed immediately or triggered by a breakpoint.

## 2. FORMAT

[1] **COPY:UVAR** a[**,OFF** b][**,L** c|**,NL** d]{**;ADDR** e|**;REG** f}[**;WORD**]**!**

[2] **COPY:UVAR** a[**,L** c|**,NL** d]**;UVAR** g[**;WORD**]**!**

## 3. EXPLANATION OF MESSAGE

a — A GRASP utility variable (1–50), in decimal, as the source for the copy. Utility variable values are reset to zero at the end of a debugging session.

b — A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **WORD** option is specified. (Used as an action associated with a breakpoint.)

c — The length of the copy in bytes unless the **WORD** option is specified. The maximum is 128 bytes or 32 words. The default is 1.

d — The operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order.

e — The destination virtual address for the data in decimal, octal, or hexadecimal notation. (Used as an action associated with a breakpoint.)

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` A GRASP utility variable (`1-50`), in decimal, to be written as the destination copy. Utility variable values are reset to zero at the end of a debugging session. (Can be used as an immediate action or associated with a breakpoint.)

`g` The register to be written as the destination of the copy. (Used as an action associated with a breakpoint.) Valid register names are:

| | | |
|---|---|---|
| `AP` | — | Argument Pointer (AP) |
| `ATBBGR` | — | Register used by the ATB miss routine to temporarily store the Bi-Directional Gating Register (BGR) |
| `ATBPSW` | — | Register used by the ATB miss routine to temporarily store the Program Status Word (PSW) register |
| `ATBQ` | — | Register used by the ATB miss routine to temporarily store the q register |
| `ATBSAR` | — | Register used by the ATB miss routine to temporarily store the Store Address Register (SAR) contents |
| `ATBSCR` | — | Register used by the ATB miss routine to temporarily store the Store Control Register (SCR) contents |
| `ATBSDR` | — | Register used by the ATB miss routine to temporarily store the Store Data Register (SDR) contents |
| `BGR` | — | Bi-directional gating register |
| `CAR` | — | Channel address register |
| `CDR` | — | Channel data register |
| `ERC` | — | Error Register (ER) clear |
| `FP` | — | Frame Pointer (FP) |
| `HG` | — | Reserved register HG |
| `HSRBGC` | — | Bi-directional gating control bits of the Hardware Status Register (HSR) |
| `HSR` | — | Hardware status register |
| `IM` | — | Interrupt Mask (IM) register |
| `ISC` | — | Interrupt Source (IS) register clear |
| `ISS` | — | IS register set |
| `PA` | — | Program address register |
| `PPR` | — | Pulse point register |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | | |
|---|---|---|
| PSW | — | Program status word |
| R0 | — | General register R0 |
| R10 | — | Frame pointer |
| R11 | — | Stack Pointer (SP) |
| R1 | — | General register R1 |
| R2 | — | General register R2 |
| R3 | — | General register R3 |
| R4 | — | General register R4 |
| R5 | — | General register R5 |
| R6 | — | General register R6 |
| R7 | — | General register R7 |
| R8 | — | General register R8 |
| R9 | — | Argument pointer |
| RNULL | — | Null register |
| RTC | — | Real time clock |
| SBR0 | — | Segment base register SBR0 |
| SBR1 | — | Segment base register SBR1 |
| SBR2 | — | Segment base register SBR2 |
| SBR3 | — | Segment base register SBR3 |
| SBR4 | — | Segment base register SBR4 |
| SBR5 | — | Segment base register SBR5 |
| SBR6 | — | Segment base register SBR6 |
| SBR7 | — | Segment base register SBR7 |
| SCRATCH0 | — | JE group temp subgroup scratch register SCRATCH0 |
| SCRATCH1 | — | JE group temp subgroup scratch register SCRATCH1 |
| SDR | — | Store data register |
| SP | — | Stack pointer |
| SSRC | — | System Status Register (SSR) clear |
| SSRS | — | SSR set |
| SYSBASE | — | Beginning address of UNIX® RTR Operating System tab |
| T0 | — | JE group temp subgroup scratch register T0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | | |
|---|---|---|
| `T1` | — | JE group temp subgroup scratch register T1 |
| `T2` | — | JE group temp subgroup scratch register T2 |
| `T3` | — | JE group temp subgroup scratch register T3 |
| `T4` | — | JE group temp subgroup scratch register T4 |
| `T5` | — | JE group temp subgroup scratch register T5 |
| `T6` | — | JE group temp subgroup scratch register T6 |
| `T7` | — | JE group temp subgroup scratch register T7 |
| `TIMERS` | — | Timing circuit |
| `TOPIS` | — | Interrupt stack pointer |
| `UINT0` | — | Error microinterrupt hander register UINT0 |
| `UINT1` | — | Error microinterrupt hander register UINT1 |
| `UINT2` | — | Error microinterrupt hander register UINT2 |
| `UINT3` | — | Error microinterrupt hander register UINT3 |
| `UINTER` | — | Shadow error register (`uint_er`) loaded during an error microinterrupt |

**`WORD`** — Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including addresses derived in address chains. If this option is omitted, values given are assumed to be in bytes.

## 4. SYSTEM RESPONSE

Identification field contains an error.

`?I` General syntax error or one of the following errors:

— `EXTRA KEYWORD (OFF)`
Indirection not allowed except as action of a `WHEN`.
— `INCONSISTENT KEYWORDS (NL-OFF)`
Negative length not allowed without `OFF`.
— `INVALID KEYWORD`
Destination of `ADDR` or `REG` not valid outside of a `WHEN` action list.
— `RANGE ERROR (UVAR)`
Invalid utility variable number was specified.
— `RANGE ERROR (L` or `NL)`
Length specified is too long.

`IP` In Progress. The message has been added to the `WHEN` action list.

`NG` No Good.

— `BAD REG NAME`
A named register is not a valid destination.

`PF` Printout Follows. Followed by a `COPY:UVAR` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

CIC Select Code 303-028 *UNIX® RTR Operating System Assembly Language and Microcode, Programmer's Manual*, Volume 8

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
DUMP:UVAR
LOAD:ADDR-A
LOAD:REG-A
LOAD:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DEACTV:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message deactivates the Data Consistency Check (DCC) capability. Further DCC tasks will not be allowed until another `ACTV:DCC` command is entered. As a result of this command, the APPDB SCRATCH partition `/dev/appdb2` will be unlocked, allowing non-DCC tasks (eg. `COPY:APPDB`) write access to the partition.

## 2. FORMAT

**`DEACTV:DCC,APP`** `a[,`**`SID`**` b]!`

## 3. EXPLANATION OF MESSAGE

`a` The name of the APPDB customer unit for which DCC is to be de-activated. Currently, only `IBGTT` is supported.

`b` A one to eight character alphanumeric, the "snapshot ID" of the DCC activation. If the specified SID argument does not match the "snapshot ID" recorded in the APPDB SCRATCH partition, the **`DEACTV:DCC`** command will fail.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
- `ALW:DCC`
- `ACTV:DCC`
- `COPY:APPDB`
- `INH:DCC`
- `OP:DCC`
- `START:DCC`
- `STOP:DCC`
- `VER:DCC`

Output Message
- `DEACTV:DCC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DEL:LOG
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Deletes the selected contents of a logfile and cleans corrupt entries from the file. If the filename is the only criterion entered, only corrupt entries are deleted. Otherwise, only entries in the logfile that meet all of the specified criteria are deleted.

## 2. FORMAT

```
DEL:LOG;LG "a"[:[DATE b[-c],][TIME d[-e],][KW "f",][ID g,][TYPE h]];
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the logfile. Any valid logfile name; for example, `ULARP`.

`b` Start date as six-digit format (`mmddyy`) or ten-digit format (`mmddyyhhmm`). For example, `100257` = October 2, 1957; `0102571000` = January 2, 1957, at 10:00 a.m.

`c` End date as six-digit format (`mmddyy`) or ten-digit format (`mmddyyhhmm`). The default is the start date. If supplied, this date must be in the same format (six or ten digits) as the start date.

`d` Start time in hours and minutes format (`hhmm`). For example, `0110` = 1:10 a.m.

`e` End time in hours and minutes format (`hhmm`). For example, `1530` = 3:30 p.m.
The default is the start time.

**NOTE:** When the six-digit date range is used in conjunction with a time range, the log entries will be deleted from start time to end time for each day in the range of start date through end date.
The ten-digit date allows the user to delete log entries from the start time on start date until end time on end date. Specifying the start time and end time with the ten-digit date range is invalid.

`f` A keyword that appears in all entries that are to be deleted.

`g` A decimal number (`0-9999`) which is used to link an item in a logfile with an entry in another file. The **`ID`** is filled in by the process that made the logfile entry.

SEE PROPRIETARY NOTICE ON COVER PAGE

`h` A decimal number (`0-9999`) that specifies the type of entry on a logfile. This **`TYPE`** is filled in by the process that made the logfile entry.

## 4. SYSTEM RESPONSE

`IP` In Progress.

`NG` No Good.

— `CANNOT ATTACH TO ECD` Could not attach to the Equipment Configuration Database (ECD).

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Message
`OP:LOG`

Output Messages
`DEL:LOG`
`OP:LOG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DEL:PAUTH
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Deletes a person Identity (**IDENT**) from the Personal Authority (**PAUTH**) database.

## 2. FORMAT

**DEL:PAUTH:IDENT** "a"!

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group that uses the password prefix and suffix, in one to eight letters and/or digits.

## 4. SYSTEM RESPONSE

NG — No Good.

— NON_EXISTENT PERSON IDENTITY
The given person identity does not exist in the personal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Personal authority information is inaccessible.

OK — Good. Personal authority deleted.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
Authority information is currently being updated.

## 5. REFERENCES

Input Messages
ADD:PAUTH
CHG:PAUTH
VFY:PAUTH

Output Message
VFY:PAUTH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DEL:PCGRP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Format 1 disassociates the Command Group (**COMGR**) from a personal Identity (**IDENT**), thus preventing a user from accessing this group of commands. The **IDENT** for the Personal Group (**PCGRP**) must already exist in the Personal Authority (PAUTH) database.

Format 2 disassociates a profile from a personal identity. It prevents a user from accessing this group of commands.

## 2. FORMAT

[1] **DEL:PCGRP:DATA,IDENT** "a",**COMGR** b;

[2] **DEL:PCGRP:IDENT** "a",**PROFL** "c";

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group in one to eight letters and/or digits.

b — Command group.

c — A profile name which has been previously created and assigned to this user. The name is one to eight letters and/or digits.

## 4. SYSTEM RESPONSE

NG — No Good.

— COMMAND GROUP NOT ASSIGNED TO THIS PERSON
The given command group was never assigned to this person identity.
— NON-EXISTENT PERSON IDENTITY
The given person identity does not exist in the personal authority administration.
— NON-EXISTENT PROFILE IDENTITY
Profile does not exist in the database.
— PASSWORD ENHANCEMENT NOT ACTIVATED
The **PROFL** option with this command is valid only for applications running with the password enhancement feature.
— PROFILE NOT ASSIGNED
Profile not assigned to the identity.
— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Personal authority information is inaccessible.

OK — Good. Command group deleted from database.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `AUTHORITY ADMINISTRATION UNDER UPDATE`
Authority information is currently being updated.

## 5. REFERENCES

Input Messages

`ADD:PAUTH`
`ADD:PCGRP`
`CHG:PAUTH`
`DEL:PAUTH`
`VFY:PAUTH`
`VFY:PCGRP`

Output Messages

`VFY:PAUTH`
`VFY:PCGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DEL:PROFL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Deletes an existing profile from the list of user profiles. A profile is a set of command groups. The profile is also deleted from any user to which it is assigned.

## 2. FORMAT

**DEL:PROFL:IDENT** "a"!

## 3. EXPLANATION OF MESSAGE

a — Identifying name of the profile to be deleted from the database. A maximum of eight characters may be used.

## 4. SYSTEM RESPONSE

NG — No Good.

— PASSWORD ENHANCEMENT NOT ACTIVATED
This command is valid only for applications running with the password enhancement feature enabled.
— PROFILE IDENTITY DOES NOT EXIST
— UNABLE TO ACCESS PROFILE ADMINISTRATION

OK — Good. Profile successfully deleted from the database.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
— PROFILE ADMINISTRATION UNDER UPDATE

## 5. REFERENCES

Input Messages
ADD:PCGRP
ADD:PROFL
CHG:PROFL
DEL:PCGRP
VFY:PCGRP
VFY:PROFL

Output Message
VFY:PROFL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DEL:TAUTH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Deletes a terminal identity from the Terminal Authority (**`TAUTH`**) database.

## 2. FORMAT

**`DEL:TAUTH:TERM`** `"a"!`

## 3. EXPLANATION OF MESSAGE

`a` Terminal identity in four characters, starting with `tty`.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `INVALID TERMINAL IDENTITY`
The given terminal identity is either not four characters in length or does not start with `tty`.

— `NON-EXISTENT TERMINAL IDENTITY`
The given terminal identity does not exist in the terminal authority administration.

— `UNABLE TO ACCESS AUTHORITY ADMINISTRATION`
Terminal authority information is inaccessible.

`OK` Good. Terminal identity deleted from the database.

`RL` Retry Later.

— `AUTHORITY ADMINISTRATION UNDER UPDATE`
Authority information is currently being updated.

## 5. REFERENCES

Input Messages
`ADD:TAUTH`
`VFY:TAUTH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DEL:TCGRP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Disassociates the Command Group (**COMGR**) from a terminal Identity (**TERM**), thus preventing a user from accessing this group of commands from that terminal. The **TERM** must already exist in the Terminal Authority (TAUTH) database.

## 2. FORMAT

[1] **DEL:TCGRP:TERM** "a",**COMGR** b;

[2] **DEL:TCGRP:TERM** "a",**PROFL** "c";

## 3. EXPLANATION OF MESSAGE

a — Terminal identity in four characters, starting with tty.

b — Command group.

c — A profile name which has been previously created and assigned to this terminal. The name is one to eight letters and/or digits.

## 4. SYSTEM RESPONSE

NG — No Good.

— COMMAND GROUP NOT ASSIGNED TO THIS TERMINAL
The given command group has not been assigned to this terminal identity.

— INVALID TERMINAL IDENTITY
The given terminal identity is either not four characters in length or does not start with tty.

— NON-EXISTENT PROFILE IDENTITY
Profile does not exist in the database.

— NON-EXISTENT TERMINAL IDENTITY
The given terminal identity does not exist in the terminal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Terminal authority information is inaccessible.

OK — Good. Command group deleted from the database.

RL — Retry Later.

— AUTHORITY ADMINISTRATION UNDER UPDATE
Authority information is currently being updated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ADD:TAUTH
ADD:TCGRP
DEL:TAUTH
VFY:TAUTH
VFY:TCGRP
```

Output Messages

```
VFY:TAUTH
VFY:TCGRP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:API
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B-APS
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Attached Processor Interface (**API**) unit. The **API** unit must be Out Of Service (OOS) and the API unit may only be removed or restored from the 1B processor. If the 1B processor is currently diagnosing the **API** unit, the 3B computer requested **API** diagnostics will be blocked until the 1B processor completes diagnosis of the **API** unit.

**NOTE:**
Do not use the **UCL** and **TLP** parameters together because the combination may produce an improper TLP listing.

## 2. FORMAT

**DGN:API** a[;[**RPT** b][,**RAW**][,**UCL**]][:**CU** c[,**TLP**][,**PH** d]]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number of the **API**. |
| b | Number of times (1-256) the diagnostic is repeated. Default =1. |
| **RAW** | Print the diagnostic results of every phase. Default will only print the first five failures of each failing phase. |
| **UCL** | Unconditionally execute the diagnostic with no early termination. The exception is a forced early termination |
| c | Off-line Control Unit (**CU**) required (0 or 1) as a helper unit when demand phase 15 is executed. |
| **TLP** | Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. |
| d | Specified phase number to be executed. This value may be a single decimal number or a range (for example, d-e). that will override this option. faulty equipment. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a DGN:API output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Message
`DGN:API`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:CU
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified computer Control Unit (**CU**) complex or a specified unit within the **CU** complex.

Format 1 diagnoses the specified **CU** complex.

Format 2 diagnoses the Central Control (**CC**) unit.

Format 3 diagnoses the specified Channel (**CH**).

Format 4 diagnoses the Cache Store Unit (**CSU**).

Format 5 diagnoses the specified Direct Memory Access (**DMA**) unit.

Format 6 diagnoses the specified Main Store Controller (**MASC**) unit.

Format 7 diagnoses the Store Address Translator (**SAT**) circuit pack.

Format 8 diagnoses the Utility Circuit (**UC**) circuit pack.

## 2. FORMAT

[1] **DGN:CU** a[;[**RAW**][,**UCL**][,**REX**|,**DEX**]][:**TLP**]!

[2] **DGN:CU** a,**CC 0**[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**]]!

[3] **DGN:CU** a,**CH** b[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**][,{**DFC**|**IOP**}f]]!

[4] **DGN:CU** a,**CSU 0**[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**]]!

[5] **DGN:CU** a,**DMA** b[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**CONT**][,**TLP**]]!

[6] **DGN:CU** a,**MASC** b[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**]]!

[7] **DGN:CU** a,**SAT 0**[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**]]!

SEE PROPRIETARY NOTICE ON COVER PAGE

[8] **DGN:CU** a,**UC 0**[;[**RPT** c][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** d[-e]] [,**TLP**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-1).

**RAW** — Print the diagnostic results of every phase. Default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override forced early terminations.

**REX** — Run routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Run demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

b — Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D.

c — Number of times diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**PH** — Protocol handler.

d — The number of the first phase to be executed.

e — The number of the last phase to be executed.

**TLP** — Executes the trouble locating procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is recommended that the **TLP** and **UCL** parameters not be specified together because it may produce an improper **TLP** listing.

f — Member number of the Disk File Controller (**DFC**) (0-7) or Input / Output Processor (**IOP**) (0-15) that is to be used as a helper unit. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

**CONT** — Include only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored. Format 5 is currently used by the **DMA**. If this parameter is not specified, the **DMA** controller and all channels connected to it are diagnosed.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.

— `INVALID DATA`
Not a valid value for the phase option.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.

— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:CU` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendix
`APP:MEM-NUM-D`

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
OP:DMQ
RMV:CU
RST:CU
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:CU
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:DCI
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Dual Serial Channel/Computer Interconnect (**DCI**).

## 2. FORMAT

**DGN:DCI** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times diagnostic is repeated (1-256). The default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override forced early terminations.

**REX** — Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — The number of the first phase to be executed.

d — The number of the last phase to be executed.

**TLP** — Executes the trouble locating procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.

— `INVALID DATA`
Not a valid value for the phase option.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.

— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:DCI` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:DCI`
`RST:DCI`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:DCI
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:DFC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Diagnoses the specified Disk File Controller (**DFC**).

**NOTE:** The Moving Head Disk (MHD) cannot be diagnosed if the **DFC** is not in service. Therefore, a controller and its associated disk units cannot be diagnosed with one input message.

## 2. FORMAT

**DGN:DFC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**CONT**][,**TLP**][,**CU** e]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-7).

b — Number of times diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override forced early terminations.

**REX** — Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — The number of the first phase to be executed.

d — The number of the last phase to be executed.

**CONT** — Includes only the specified unit (controller). Units attached to the specified unit will not be included. Default is diagnose **DFC** listed only.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The **TLP** and **UCL** parameters should not be used together because additional test results may adversely affect the **TLP** listing.

e — Member number of the Control Unit (**CU**) helper unit (0–1). When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be Out-Of-Service (OOS) and must be diagnosed as All Tests Passed (ATP) before it is used as a helper unit.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INCONSISTENT KEYWORD
The combination of keywords is not a valid combination.
— INVALID DATA
Not a valid value for the phase option.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for a keyword in the stated parameter block was not found.
— MISSING KEYWORD
A required keyword is missing from the input. Unit to diagnose must be specified.
— RANGE ERROR
Input is out of the valid range.

PF — Printout Follows. Followed by a DGN:DFC output message.

RL — Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:DFC`
`RST:DFC`
`STOP:DMQ`

Output Messages
`ANALY:TLPFILE-B`
`DGN:DFC`
`OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:DUIC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Direct User Interface Controller (**DUIC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **DUIC** can be diagnosed.

## 2. FORMAT

**DGN:DUIC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — Number of the phase to be executed, or the first number in a range of phases.

d — Specifies the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:DUIC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:DUIC`
`RST:DUIC`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:DUIC
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:HSDC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified High-Speed Synchronous Data Link Controller (**HSDC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **HSDC** can be diagnosed.

## 2. FORMAT

**DGN:HSDC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs Demand Exercise (**DEX**) phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the first phase to be executed.

d — Specifies the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:HSDC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`RMV:HSDC`
`RST:HSDC`
`RST:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:HSDC
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:IOP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Input/Output Processor (**IOP**).

**NOTE:** The peripheral controllers cannot be diagnosed if the **IOP** is not in service. Therefore, an **IOP** and its associated peripheral controllers cannot be diagnosed with one input message.

## 2. FORMAT

**DGN:IOP** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**CONT**][,**TLP**][,**CU** e]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–15).

b — Number of times diagnostic is repeated. (1–256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override forced early terminations.

**REX** — Runs routine exercise phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs demand exercise phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — The number of the first phase to be executed.

d — The number of the last phase to be executed.

**CONT** — Includes only the specified unit (controller). Units attached to the specified unit will not be included. Default is diagnose **IOP** given only.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The **TLP** and **UCL** parameters should not be used together because additional test results may adversely affect the **TLP** listing.

`e` Member number of the Control Unit (CU) helper unit (`0-1`). When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be Out-Of-Service (OOS) and must be diagnosed as All Tests Pass (ATP) before it is used as a helper unit.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `RANGE ERROR`
Input is out of the valid range.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

`PF` Printout Follows. Followed by a `DGN:IOP` output message.

`RL` Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:IOP`
`RST:IOP`
`STOP:DMQ`

Output Messages
`ANALY:TLPFILE-B`
`DGN:IOP`
`OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:LN
WORK CENTER.. MOC
GENERIC ..... 4AP15 and later
APPLICATION .. 4E,IMS
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Link Nodes (**LN**).

Four sequential system actions are performed in response to this input command.

1. The **LN** is removed from service following the rules for the RMV:LN input message.
2. If the resultant **LN** major state is any of OOS, GROW, OFL, or UNAV, an attempt is made to isolate the **LN** (for other major states, the diagnostic is aborted by DIAMON).
3. The specified (or default) diagnostic phases are run.
4. If the **LN** was in the active ring prior to the start of the diagnostics and was successfully isolated, then at the conclusion of the diagnostic execution an attempt is made to include the **LN** back into the active ring. Otherwise, the node is left in its original ring configuration state.

**NOTE:** The **LN** remains in the OOS, GROW, OFL, or UNAV state.

## 2. FORMAT

**DGN:LN**a b[;[**RPT** c][,**RAW**][,**UCL**]][:**PH** {d|d-d}[,**CU** e][,**TLP**|:**TLP**]]!

## 3. EXPLANATION OF MESSAGE

a — Group number (0-63).

b — Member number (1-15).

c — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early termination. **UCL** should also be specified if the diagnostic is arranged to terminate early.

**RAW** — Print the diagnostic results of every phase. The default is to print the results of the first five failures of each failing phase.

**UCL** — Unconditional execution - overrides early terminations.

**NOTE:** This option does not override a forced early termination.

d — Specifies the phase or phases to be executed. May be a single decimal number or a range separated by a dash. Default - All automatic phases.

SEE PROPRIETARY NOTICE ON COVER PAGE

`e` Off-line Control Unit (**CU**) required as a helper unit when demand phase 34 is specified, for either a Direct Link Node (DLN) or Ethernet® Interface Node (EIN) ring node (`0-1`). Default = All automatic phases.

**NOTE:** The helper **CU** must be out of service and All Tests Passed (ATP) before it can be used as a helper.

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **UCL** and **TLP** options must not be used together.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.

— `INVALID DATA`
Not a valid value for the phase option.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.

— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by an output message.

`RL` Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 256-090-182, *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures Section, Diagnostics User's Guide Section

Input Message

`CHG:SLK`

Output Messages

`DGN:AUDIT-RING`
`DGN:LN`
`RMV:LN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:MHD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Moving Head Disk (**MHD**).

**NOTE:** The Disk File Controller (DFC) must be in service before the **MHD** can be diagnosed.

## 2. FORMAT

**DGN:MHD** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow demand exercise phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs Demand Exercise (**DEX**) phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require craft interaction to be run even if the range of phases specified includes such a phase.

c — Number of the first phase to be executed.

d — Number of the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:MHD` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
OP:DMQ
RMV:MHD
RST:MHD
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:MHD
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:MT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Magnetic Tape (**MT**).

**NOTE:** The Disk File Controller (DFC) must be in service before the **MT** can be diagnosed.

## 2. FORMAT

**DGN:MT** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

b — Number of times the diagnostic is repeated (1–256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional (**UCL**) execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to **REX** and normal (automatic) phases. This option will not allow special **DEX** phases which require user interaction to run even if the range of phases specified includes such a phase.

c — Number of the first phase to be executed.

d — Number of the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit Controller (**CONT**). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD` 1
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD` 1
The combination of keywords is not a valid combination.
— `INVALID DATA` 1
Not a valid value for the phase option.
— `INVALID KEYWORD` 1
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD` 1
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD` 1
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA` 1
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD` 1
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR` 1
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:MT` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:MT`
`RST:MT`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:MT
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:MTC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Magnetic Tape Controller (**MTC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **MTC** can be diagnosed.

## 2. FORMAT

```
DGN:MTC a[;[RPT b][,RAW][,UCL][,REX|,DEX]][:[PH c[-d]][,TLP]
      [,CONT][,MT e]]!
```

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

b — Number of times the diagnostic is to be repeated (1–256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require craft interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the number of the first phase to be executed.

d — Specifies the last phase to be executed.

**NOTE:** Before phase 5 is executed, a diagnostic test tape with a write ring must be mounted on the specified Magnetic Tape (**MT**).

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together since it may produce an improper **TLP** listing.

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

e Member number of the magnetic tape device that is to be used as a helper unit (0–255). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. Member number of the **MT** device helper unit is required when demand phase 5 is executed.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INCONSISTENT KEYWORD
The combination of keywords is not a valid combination.
— INVALID DATA
Not a valid value for the phase option.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA-KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for a keyword in the stated parameter block was not found.
— MISSING KEYWORD
A required keyword is missing from the input. Unit to diagnose must be specified.
— RANGE ERROR
Input is out of the valid range.

PF Printout Follows. Followed by a DGN:MTC output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `OP:DMQ`
- `RMV:MTC`
- `RST:MTC`
- `STOP:DMQ`

Output Messages
- `ANALY:TLPFILE-B`
- `DGN:MTC`
- `OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:MTTYC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Maintenance Teletypewriter Controller (**MTTYC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **MTTYC** can be diagnosed.

## 2. FORMAT

**DGN:MTTYC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the first phase to be executed.

d — Specifies the last phase to be entered.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:MTTYC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
OP:DMQ
RMV:MTTYC
RST:MTTYC
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:MTTYC
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DGN:RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Diagnoses the specified Ring Peripheral Controller Node (**RPCN**).

**NOTE:** Do not use the **UCL** and **TLP** parameters together because the combination may produce an improper TLP listing.

Four sequential system actions are performed in response to this input command.

1. The RPCN is removed from service following the rules for the `RRMV:RPCN` input message.
2. If the resultant RPCN major state is any of OOS, GROW, OFL, or UNAV, an attempt is made to isolate the RPCN (for other major states, the diagnostic is aborted by `DIAMON`).
3. The specified (or default) diagnostic phases are run.
4. If the RPCN was in the active ring prior to the start of the diagnostics and has been successfully isolated, an attempt is made to include the RPCN back into the active ring at the conclusion of the diagnostic execution. Otherwise, the node is left in its original ring configuration state.

**NOTE:** The RPCN remains in the OOS, GROW, OFL, STBY, or UNAV state.

## 2. FORMAT

**DGN:RPCN**a **O**[;[**RPT** b][,**RAW**][,**UCL**]][:**PH** c[,**CU** d][,**TLP**]|:**TLP**]!

## 3. EXPLANATION OF MESSAGE

a — A Ring Node (RN) group number (`00-63`) with explicit leading zero for group numbers less than 10.

b — Number of times (`1-256`) the diagnostic is repeated. Default =`1`.

**NOTE:** This option does not override early termination. **UCL** should also be specified if the diagnostic is arranged to early terminate.

**RAW** — Prints the diagnostic results of every phase. Default - print the first five failures of each phase.

**UCL** — Unconditional execution - overrides early terminations.

**NOTE:** This option does not override a forced early termination.

SEE PROPRIETARY NOTICE ON COVER PAGE

`c` Specifies the phase or phases to be executed. It may be a single decimal number or a range (e.g., to execute phases 10 through 13, enter `'10-13'`). Default - All automatic phases.

`d` Off-line Control Unit (**`CU`**) required as a helper unit when demand phase 14 is specified (`0 or 1`).

**NOTE:** The helper **`CU`** must be out of service and All Tests Passed (ATP) before it can be used as a helper. Default - All automatic phases.

**`TLP`** Execute the Trouble Locating Procedure (**`TLP`**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.

— `INVALID DATA`
Not a valid value for the phase option.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.

— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by an output message.

`RL` Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 234-151-120, *Trouble Clearing and Maintenance Procedures* - Ring and Ring Node Maintenance Procedures Section, Diagnostics User's Guide Section

Input Messages

```
OP:DMQ
RMV:RPCN
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-RPCN
DGN:AUDIT-RING
DGN:RPCN
OP:DMQ
RMV:RPCN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:SCSDC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified scanner and Signal Distributor Controller (**SCSDC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **SCSDC** can be diagnosed.

## 2. FORMAT

**DGN:SCSDC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to **REX** and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the first phase to be executed.

d — Specifies the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:SCSDC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:SCSDC`
`RST:IOP`
`RST:SCSDC`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:SCSDC
OP:DMQ
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:SDLC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Synchronous Data Link Controller (**SDLC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **SDLC** can be diagnosed.

## 2. FORMAT

**DGN:SDLC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases which require user interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the first phase to be executed.

d — Specifies the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Diagnoses only the specified controller. Units attached to the specified controller will not be diagnosed.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:SDLC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:SDLC`
`RST:IOP`
`RST:SDLC`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:SDLC
OP:DMQ
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DGN:TTYC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Diagnoses the specified Teletypewriter Controller (**TTYC**).

**NOTE:** The Input/Output Processor (IOP) must be in service before the **TTYC** can be diagnosed.

## 2. FORMAT

**DGN:TTYC** a[;[**RPT** b][,**RAW**][,**UCL**][,**REX**|,**DEX**]][:[**PH** c[-d]][,**TLP**][,**CONT**]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

b — Number of times the diagnostic is to be repeated (1-256). Default is 1.

**NOTE:** This option does not override early terminations. **UCL** should also be specified if the diagnostic terminates.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**UCL** — Unconditional execution.

**NOTE:** This option does not override a forced early termination.

**REX** — Runs Routine Exercise (**REX**) phases in addition to the normal (automatic) phases. This option will not allow Demand Exercise (**DEX**) phases to be run even if the range of phases specified includes such a phase.

**DEX** — Runs **DEX** phases in addition to routine exercise and normal (automatic) phases. This option will not allow special demand exercise phases that require user interaction to be run even if the range of phases specified includes such a phase.

c — Specifies the first phase to be executed.

d — Specifies the last phase to be executed.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters cannot be used together because additional test results may adversely affect the **TLP** listing.

SEE PROPRIETARY NOTICE ON COVER PAGE

**CONT** Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.
— `INVALID DATA`
Not a valid value for the phase option.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR`
Input is out of the valid range.

`PF` Printout Follows. Followed by a `DGN:TTYC` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:DMQ`
`RMV:TTYC`
`RST:TTYC`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ANALY:TLPFILE-B
DGN:TTYC
OP:DMQ
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DISCONNECT:0
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Disconnects a 3B terminal from the output channel from an intelligent frame complex.

## 2. FORMAT

**DISCONNECT:**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Frame complex name. |
| b | Frame complex number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. Frame data link down or does not exist. |

## 5. REFERENCES

File Name
/coams/inscreen

Input Messages
CONNECT:0
SEND:0

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:ADDR-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of a specified range of virtual addresses in the computer main memory as an action associated with a breakpoint. The range is specified by two addresses or an address and a length. The length defaults to a value of 1.

If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the contents of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value zero uses the virtual address found in the location specified in the `DUMP:ADDR` input message for the dump location.

## 2. FORMAT

```
DUMP:ADDR {a-b|a[,OFF c][,L d|,NL e]}[;WORD] /
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Starting virtual address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the **`WORD`** option is used. |
| `b` | Ending virtual address of dump. Assumed to be a byte address unless the **`WORD`** option is used. |
| `c` | A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is used. |
| `d` | The length of the dump, assumed to be in bytes unless the **`WORD`** option is used. Maximum 128 bytes or 32 words. Default is 1, unless a range is explicitly specified. The actual range of addresses dumped will be rounded out to word address boundaries. |
| `e` | Indicator that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitation are the same as for the **`L`** option. |
| **`WORD`** | Indicates that all addresses, offsets, and lengths are to be interpreted as words, including addresses derived in address chains. If this option is omitted, they are assumed to be byte values. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INCONSISTENT DATA (ADDR)`
Address range must be in ascending order.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `MISSING KEYWORD`
PID or UID must be specified except in a `WHEN:` action list.
— `RANGE ERROR (L or NL)`
Length specified is too long or zero.

`IP` In Progress. The input message has been added to the `WHEN:` action list.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`DUMP:PID`
`DUMP:PMEM`
`DUMP:REG-A`
`DUMP:UID`
`WHEN:PID`
`WHEN:UID`

Output Message
`DUMP:ADDR-A`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . DUMP:ADDR-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**

## 1. PURPOSE

Dumps the contents of a specified address in the given node. This command is only allowed within a `WHEN:RUTIL` command <action-list>.

Dumps the contents at the specified address for the given length when the specified breakpoint fires.

## 2. FORMAT

**`DUMP:ADDR X'`a`,L` b`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Address to begin dump in hexadecimal. |
| b | Number of bytes to dump in decimal. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`LOAD:ADDR-B`
`WHEN:RUTIL`

Output Message
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message dumps the stored Application Integrity Monitor (**AIM**) Processor Recovery Messages (PRMs) to the Read Only Printer (ROP).

Dump the **AIM** PRMs stored in the **AIM** PAS buffer to the ROP. PRMs give a hexadecimal coded 16 digit report to help the user to interpret recovery operations.

## 2. FORMAT

**DUMP:AIM;PRMBUF!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Error was found while parsing message. No output will follow. |
| PF | Printout Follows. Request was received and understood by **AIM**. |
| RL | Retry Later. **AIM** cannot honor the request at the present time. No output will follow. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:BKTAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Displays the contents of the multi-volume Digital Audio Tape (DAT) logical volume headers and optionally provides an estimate of how full the tape is.

## 2. FORMAT

**`DUMP:BKTAPE;TD`** `"a"[`**`,TPSIZE`** `b]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Device filename of the DAT drive. See the *User Guidelines* in this document for definitions and examples of tape device names.

`b` Length in meters of the DAT mounted on the specified drive. The length is used to estimate how full the tape is. Valid lengths are 30 through 90 meters.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `DUMP:BKTAPE` output message.

## 5. REFERENCES

Input Messages
`COPY:BKDISK`
`COPY:BKTAPE`

Output Message
`DUMP:BKTAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:BWM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To dump a list of Broadcast Warning Messages (BWMs) applied to the 3B Attached Processor System.

## 2. FORMAT

**`DUMP:BWM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. `DUMP:BWM` output message will follow. |

## 5. REFERENCES

Output Message
`DUMP:BWM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:CACHE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of the offline cache into computer processor main memory. The portions of cache dumped are the ones which map to the kernel and interrupt stacks. The command will not be accepted if the other Control Unit (CU) is in the standby state.

The cache (1K bytes) is placed at virtual address 0x80000 for the interrupt stack portion and at virtual address 0x6a0000 for the kernel stack. In the case of the kernel stack, the address dumped to will not correspond to the actual start of the kernel stack. This offset is necessary to preserve the portions of the kernel stack which are not resident in the cache but which do map to the address range used for the cache kernel stack. Whether a particular stack entry is in cache or main memory is dependent upon whether the hardware is present and enabled, and the state of the ISTK bit in the PSW of the running process. The reconstruction of the kernel stack (both cache and main memory) is left to the user.

## 2. FORMAT

**`DUMP:CACHE!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Could not access or reserve the Unit Control Block (UCB) record of the mate CU, or the mate CU was not out of service. |
| `PF` | Printout Follows. Followed by a `DUMP:CACHE` output message. |

## 5. REFERENCES

Output Message
`DUMP:CACHE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:F-ALL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of an ASCII file.

## 2. FORMAT

**`DUMP:FILE:ALL,FN`** `"a"[,OPL b]!`

## 3. EXPLANATION OF MESSAGE

`a` Pathname of the file. See *User Guidelines* in this document for definitions of pathname and file.

**NOTE:** Dumps of directories and/or non-ASCII files may produce unpredictable output.

`b` Number of segments output, specified in decimal (`1-999`). Default is `10` segments. Each segment has a maximum size of 1000 bytes or 20 lines.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `DUMP:F-ALL` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`DUMP:F-PARTL`

Output Messages
`DUMP:F-ALL`
`DUMP:F-FORMAT`
`DUMP:F-PARTL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:F-FORMAT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Dumps the contents of a file in the specified format. If no format is given, the dump is printed in octal.

## 2. FORMAT

**DUMP:FILE:FORMAT,FN** "a"[,b][**,OPL** c]!

## 3. EXPLANATION OF MESSAGE

a — Pathname of the file. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, usr/a1/ssw/test means that /usr/a1/ssw/ represents the list of directory names and /test represents the file name.

b — Specifies the output format, default is octal:

- C — Interprets bytes in ASCII notation.
- D — Interprets words in decimal notation.
- O — Interprets words in octal notation.
- X — Interprets words in hexadecimal notation.

c — Number of segments output specified in decimal (1-999). Default is 10 segments. Each segment has a maximum size of 1000 bytes or 20 lines.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Followed by the DUMP:F-FORMAT output message.

## 5. REFERENCES

Display/Menu Page Name
CRAFT FM 01

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
DUMP:F-ALL
DUMP:F-PARTL

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:F-ALL
DUMP:F-FORMAT
DUMP:F-PARTL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:F-PARTL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Prints one or more lines of an ASCII file.

**NOTE:** Specifying a non-ASCII file may produce unpredictable output.

## 2. FORMAT

**DUMP:FILE:PARTL,FN** "a"**,LINE** b[-c][**,OPL** d]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the file. See *User Guidelines* in this document for the definition of a pathname. |
| b | Line number to be printed or first line of a range, specified in decimal. If the line number specified (limited to 1 through 131072 inclusive) is larger than the number of lines in the file, the last line of the file is assumed. |
| c | Last line number of a range (limited to 1 through 131072 inclusive). If larger then the number of lines in the file, the last line of the file is assumed. |
| d | Output is printed in segments to prevent a large dump from dominating the ROP. The **OPL** option specifies the decimal number of segments to output (1-999). Default is 10 segments. Each printed segment will contain up to 800 bytes, which includes formatting space and line numbering. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the DUMP:F-PARTL output message. |

## 5. REFERENCES

Display/Menu Page Name
CRAFT FM 01

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
DUMP:F-ALL
DUMP:F-FORMAT

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`DUMP:F-ALL`
`DUMP:F-FORMAT`
`DUMP:F-PARTL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:FSA
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Reads data from the 1B files of the 3B APS and prints the requested data in a compatible format.

## 2. FORMAT

**DUMP:FSA** a[**,L** b][**:FN** "c"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Octal file store address. |
| b | Decimal length of dump in words (1-128). Default = 1. |
| c | Pathname for the specific file. Default is the normfile. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| PF | Printout Follows. The program is proceeding. |

## 5. REFERENCES

Input Message
DUMP:MMA

Output Messages
DUMP:FSA
DUMP:MMA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:FSBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Print a table of overwrites accumulated with the `IN:FSBUF` command.

Use of the `IN:FSBUF` command accumulates a buffer of disk overwrites. **`DUMP:FSBUF`** prints a table of the overwrites.

## 2. FORMAT

**`DUMP:FSBUF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
- `CLR:FSBUF`
- `COPY:FSBUF`
- `DUMP:FSBUF`
- `IN:FSBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:KERN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of a specified range of virtual addresses in computer kernel as an immediate action. The range is specified by two addresses or an address and a length. The length defaults to a value of `1`.

If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the content of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in this input message for the dump location.

## 2. FORMAT

**`DUMP:KERN`** `{a-b|a[,OFF c][,L d|,NL e]}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Starting virtual byte address of the dump, in decimal, octal, or hexadecimal. |
| `b` | Ending virtual byte address of the dump. |
| `c` | A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. |
| `d` | The length of the dump, assumed to be in bytes (`1-128`). The default is `1`, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries. |
| `e` | Indicator that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option. |

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INCONSISTENT DATA (ADDR)`
Address range must be in ascending order.

— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `MISSING KEYWORD`
PID or UID must be specified except in a `WHEN:` action list.
— `RANGE ERROR (L` or `NL)`
Length specified is too long or zero.

| | |
|---|---|
| `IP` | In Progress. The message has been added to the `WHEN:` action list. |
| `PF` | Printout Follows. Followed by a `WHEN:` output message. |
| `RL` | Retry Later. The system is in an overload condition. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `DUMP:PID`
- `DUMP:PMEM`
- `DUMP:REG-A`
- `DUMP:UID`
- `WHEN:PID`
- `WHEN:UID`

Output Messages
- `DUMP:ADDR-A`
- `WHEN:PID`
- `WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . DUMP:MHD-BLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Do not input this request at the same time as another request for the same `MHD`, because errors due to resource limitations may occur.**

## 1. PURPOSE

Dumps the contents of a specified single disk block or a range of blocks, in hexadecimal. One disk block contains 512 bytes.

The Moving Head Disk (**`MHD`**) does not have to be in the active state for this command to work.

## 2. FORMAT

```
DUMP:MHD a;BLOCK b[-c][:DEST {ROP|"d"}]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Member number (`0-255`). |
| `b` | Disk block offset from the start of the disk, specified in decimal (`0-2147483646`). May be the first block of a range of blocks. Block 0 is the first block of a disk. |
| `c` | Last block of a range of blocks (`0-2147483646`). |
| **`DEST`** | Destination of the output. Default is the inputing Teletypewriter (TTY). |
| **`ROP`** | Receive-Only Printer (ROP). A maximum of five disk blocks can be directed to the ROP by a single input command. |
| `d` | Pathname of a file to receive the data. See *User Guidelines* in this document for the definition of pathname. There is no limit on the number of disk blocks that can be directed to a file by a single input command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `DUMP:MHD-BLK` output message. |

## 5. REFERENCES

Output Message
`DUMP:MHD-BLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:MHD-DEF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dump defect management information for a Moving Head Disk (**MHD**).

This command is used to read the defect tables from an **MHD**. The tables specify the location of media defects. This information is used by the **MHD**'s controller to map around defective areas on the media.

This command should only be used for disk drives that support defect management; otherwise, the command will abort.

The **MHD** does not have to be in the active state to execute this command.

If no options are specified, the Combined (**COMB**) defect table will be output.

## 2. FORMAT

**DUMP:MHD** a**;DEFECT[:FN** "b"|{**:[[COMB][,MFGR]]|ALL}]!**

## 3. EXPLANATION OF MESSAGE

**MHD** Identifies the **MHD** used in the message.

a **MHD** member number (0–255).

**FN** Indicates the user is specifying a file to which the **MFGR** defect table will be written.

For Storage Module Device (SMD) **MHD**, the file is formatted in a way that can be used as input to the LOAD:MHD commands.

For Small Computer System Interface (SCSI) **MHD**, the contents of the file is purely informational and cannot be used as input to the LOAD:MHD commands.

b Full pathname that specifies the file to be written.

**COMB** Requests the combined defect table.

For SMD **MHD**, this table represents the defect list currently being used by the **MHD**'s controller to map around defects. The **COMB** defect table can be updated by using the INIT:MHD command with the NEW option. The update copies the current **MFGR** defect table to the **COMB** defect table.

SEE PROPRIETARY NOTICE ON COVER PAGE

For SCSI **MHD**, this table represents the GROWN defect list and contains only those defects added by the user. This list, in conjunction with the PRIMARY defect list (see **MFGR** option), is used by the **MHD**'s controller to map around media defects.

**MFGR** Requests the manufacturer's defect table.

For SMD **MHD**, this table represents the original defects supplied by the disk drive vendor and defects added by the user. This table is used to update the **COMB** defect table.

For SCSI **MHD**, this table represents the PRIMARY defect list and contains only those defects supplied by the disk drive vendor. This list, in conjunction with the GROWN defect list (see **COMB** option), is used by the **MHD**'s controller to map around media defects.

**ALL** Requests both defect tables: **COMB** and **MFGR**.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `DUMP:MHD-DEF` output message.

## 5. REFERENCES

Practice 254-303-106 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System*
*System Maintenance Manual*

Input Messages
```
INIT:MHD
LOAD:MHD-DEFECT
LOAD:MHD-FIRM
```

Output Message
```
DUMP:MHD-DEF
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . DUMP:MHD-VTO
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Do not input this request at the same time as another** `DUMP:MHD` **or** `VFY:MHD` **request, because errors may occur.**

## 1. PURPOSE

Formats and prints the contents of a disk pack's Volume Table Of Contents (**`VTOC`**). The Moving Head Disk (MHD) does not have to be in the active state for this command to work.

## 2. FORMAT

**`DUMP:MHD`** `a`**`;VTOC`**`[`**`:SORT {B|P}`**`]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Member number (`0-255`). |
| **`B`** | Sort by ascending disk block addresses. Default. |
| **`P`** | Sort by ascending logical partition numbers. |

**NOTE:** Disk packs used in the UNIX® RTR operating system must have a **`VTOC`** starting at block number zero.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `DUMP:MHD-VTO` output message. |

## 5. REFERENCES

Input Message
`VFY:MHD`

Output Message
`DUMP:MHD-VTO`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:MMA
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Reads data from the 1B files of the 3B Attached Processor System (APS) and prints the requested data in a compatible format.

## 2. FORMAT

**DUMP:MMA** a[**,L** b][**:FN** "c"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Octal main memory address. |
| b | Decimal length of dump in words (1-128). Default is 1. |
| c | Pathname for the specific file. Default is the normfile. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| PF | Printout Follows. The program is proceeding. |

## 5. REFERENCES

Input Message
DUMP:FSA

Output Messages
DUMP:FSA
DUMP:MMA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:PBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Print a table of overwrites accumulated with the `IN:PBUF` command.

Use of the `IN:PBUF` command accumulates a buffer of physical memory overwrites. **`DUMP:PBUF`** prints a table of the overwrites.

## 2. FORMAT

**`DUMP:PBUF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by `REPT:DUMP-PBUF` output message.

## 5. REFERENCES

Input Messages
- `CLR:PBUF`
- `COPY:PBUF`
- `DUMP:PBUF`
- `IN:PBUF`

Output Message
- `REPT:DUMP-PBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:PID
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Dumps the contents of the specified range of virtual addresses in computer main memory in the address space of the process with the specified process identifier. This message cannot be used as an action associated with a breakpoint. The range is specified by two addresses or as one address and a length. The length defaults to a value of `1`.

If only one address is given, indirect addressing may be specified. In this case, the first offset listed is added to the value of the given address and the result is interpreted as another address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the **`DUMP:PID`** input message for the dump location.

## 2. FORMAT

**`DUMP:PID`** `a`**`,ADDR`** `{b-c|b[`**`,OFF`** `d][`**`,L`** `e|`**`,NL`** `f]}[`**`;WORD`**`]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Process ID of the target process. |
| `b` | Starting virtual address of the dump in decimal, octal, or hexadecimal notation. Assumed to be a byte address unless the **`WORD`** option is used. |
| `c` | Ending virtual address of the dump. Assumed to be a byte address unless the **`WORD`** option is used. |
| `d` | A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is used. |
| `e` | The length of the dump, assumed to be in bytes unless the **`WORD`** option is used. Maximum `128` bytes or `32` words. Default is `1`, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries. |
| `f` | Used to indicate that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option. |
| **`WORD`** | Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted, they are assumed to be byte values. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`
Command not allowed in a `WHEN` action list.

`?I` Identification field contains an error.

— `INCONSISTENT DATA (ADDR)`
Address range must be in ascending order.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `MISSING KEYWORD`
**`PID`** or UID must be specified except in a `WHEN` action list.
— `RANGE ERROR (L` or `NL)`
Length specified is too long or zero.

`NG` No Good. The **`PID`** is for a process for which dumps are not permitted.

`PF` Printout Follows. Followed by the `DUMP:PID` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`DUMP:ADDR-A`
`DUMP:PMEM`
`DUMP:REG-A`
`DUMP:UID`
`OP:ST-PROC`
`OP:UMEM`

Output Message
`DUMP:PID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:PMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of a specified range of physical addresses in computer main memory. The range is specified by two addresses or by one address and an optional byte length count. The default length is 4 bytes.

The output will contain formatted fullwords. If the addresses specified did not describe a set of fullwords, the addresses will be rounded out to fullword boundaries. For example, physical memory addresses X'4041-X'405D (in hexadecimal) would be treated as hexadecimal numbers X'4040-X'405F.

This message may be used either as an immediate command or in the action list of a `WHEN`.

## 2. FORMAT

**`DUMP:PMEM`** `{a-b|a[,L c|,NL d]}{/|!}`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Starting (if **`L`** is used) or ending (if **`NL`** is used) physical address dump in decimal, octal, or hexadecimal notation. Value will be rounded down to a fullword address. |
| `b` | Ending physical address for dump in decimal, octal, or hexadecimal notation. Value will be rounded up to the next fullword boundary. |
| `c` | Indicator that the ending address should be calculated by adding the byte length to the starting address and then rounding up to the next fullword boundary. |
| `d` | Byte length used to calculate the starting address. The byte length is subtracted from the ending address and then rounded down to a fullword boundary. The address is rounded up to the next fullword boundary and is used as the ending address. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error.<br>— `RANGE ERROR (L or NL)`<br>Length specified is too long or zero. |
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `PF` | Printout Follows. Followed by the `DUMP:PMEM` output message. |
| `RL` | Retry Later. The system is in an overload condition. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
DUMP:PID
DUMP:UID
WHEN:PID
WHEN:UID
```

Output Message

```
DUMP:PMEM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:REG-A
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Dumps the contents of one or more registers, either as an immediate action, or as an action associated with a breakpoint.

This message can also be used to dump an address range in main memory (by specifying a single register and offsets), but only if the message is part of an action list for a **WHEN:** message.

If offsets are specified, the first offset is added to the contents of the specified register and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the register for the memory dump location.

**NOTE:** Offsets can only be used if the **DUMP:REG-A** message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

## 2. FORMAT

**DUMP:REG** a[**,OFF** b][**,L** c|**,NL** d][**;WORD**]{**/**|**!**}

## 3. EXPLANATION OF MESSAGE

a — Single register name or a list of registers to be dumped. See *User Guidelines* in this document for instructions on entering a list of names. A maximum of five registers may be listed:

AP, ATBBGR, ATBPSW, ATBQ, ATBSAR, ATBSCR, ATBSDR, BGR, CDR, DSTBUS, ER, FP, HG, HM, HSR, IB, IM, IS, ONES, PA, PPR, PSW, R0, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, RTC, SAR, SBR0, SBR1, SBR2, SBR3, SBR4, SBR5, SBR6, SBR7, SCR, SCRATCH0, SCRATCH1, SDR, SIR, SM, SP, SRCBUS, SSR, SYSBASE, T0, T1, T2, T3, T4, T5, T6, T7, TIMERS, TOPIS, UINT0, UINT1, UINT2, UINT3, UINTER.

b — Offset. Omission of the keyword implies no indirect addressing. Offsets are only allowed if one register is specified. Offsets are in bytes unless the **WORD** option is used.

c — The length of the dump, in bytes unless the **WORD** option is used. The maximum is 128 bytes or 32 words for memory dumps and 4 bytes for register dumps. The default is 1 unless a range is explicitly specified.

SEE PROPRIETARY NOTICE ON COVER PAGE

The actual range of addresses to be dumped will be rounded out to word address boundaries.

`d` Indicator that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option.

**`WORD`** Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words, including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. May be followed by one of the following reasons:

— `EXTRA KEYWORD`
Indirection not allowed except as an action of a `WHEN:`.
— `INCONSISTENT DATA (REG LIST + OFF)`
No indirection permitted with more than one register listed.
— `INCONSISTENT KEYWORDS (NL-OFF)`
Negative length not allowed without `OFF`.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `INPUT ERROR (REG COUNT)`
Too many registers listed.
— `RANGE ERROR (L` or `NL)`
Length specified is too long or zero.

`IP` In Progress. The message has been added to the `WHEN:` action list.

`NG` No Good.

— `BAD REG NAME`

`PF` Printout Follows. Followed by the `DUMP:REG-A` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`DUMP:ADDR-A`
`DUMP:PID`
`DUMP:PMEM`
`DUMP:UID`
`OP:UMEM`
`WHEN:PID`
`WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
`DUMP:REG-A`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . DUMP:REG-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**

## 1. PURPOSE

Dumps the contents of the specified node Attached Processor register in the given node. This command is only allowed within a `WHEN:RUTIL` command <action-list>.

Dumps the contents of the given node Attached Processor register when the specified breakpoint fires.

## 2. FORMAT

**`DUMP:REG`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Name of the register to dump.

68000 and 68030 CPU's:

```
A0    A1    A2    A3    A4
A5    A6    A7    D0    D1
D2    D3    D4    D5    D6
D7    ISP   PC    SR    TRADR
USP
```

68030 CPU only:

```
CAAR      CACR      CCR    CRPH    CRPL
DFC       MMUSR     MSP    SFC     SRPH
SRPL      TC        TT1    TTO     VBR
VOFSET
```

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. |
| `NG` | No Good. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages
`LOAD:REG-B`
`WHEN:RUTIL`

Output Message
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:RNA
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Dumps the contents of a specified range of physical addresses from a node on the ring. Either the Node Processor (**NP**) or Attached Processor (**AP**) memory may be dumped. The range is specified by two addresses or by one address and a length. The length defaults to a value of 4 bytes.

## 2. FORMAT

**DUMP:RNA** a,[**NP**|**AP**|**APACI**|**APPDB**],**ADDR** {b-c|b[,**L** d]}[;**WORD**]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Ring Node Address (RNA) of the node to be dumped. |
| **NP** | Dump memory from the node processor of this node. |
| **AP** | Dump memory from the Attached Processor of this node. Only valid for Direct Link Nodes (DLNs). |
| **APACI** | Dump ACI translation memory from the Attached Processor of this node. Only valid for Direct Link Nodes (DLNs). |
| **APPDB** | Dump **APPDB** translation memory from the Attached Processor of this node. Only valid for Direct Link Nodes (DLNs). |
| b | Starting physical address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the **WORD** option is used. |
| c | Ending physical address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the **WORD** option is used. |
| d | The length of the dump, assumed to be in bytes unless the **WORD** option is used. The maximum is 128 (X'80) bytes or 32 words. The default is 4 bytes, unless a range is explicitly specified. All dumps will be rounded to 4-byte boundaries. |
| **WORD** | Indicates that all addresses, offsets and lengths are to be interpreted in terms of words. If omitted, all values are assumed to be in terms of bytes. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `BAD NP OR AP OR APACI OR APPDB`
The keywords **`NP`**, **`AP`**, **`APACI`** or **`APPDB`** were not present in the required position.

— `RANGE ERROR` (**`L`** or **`NL`**)
Length specified is too long or zero.

`PF` Printout Follows. Request was accepted and a `DUMP:RNA` output message will follow.

## 5. REFERENCES

Input Messages
- `DUMP:UID`
- `LOAD:RNA`
- `OP:NPMEM`

Output Messages
- `DUMP:RNA`
- `DUMP:UID`
- `LOAD:RNA`
- `OP:NPMEM`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . DUMP:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**

## 1. PURPOSE

Dumps the contents of memory at the given node.

Format 1 dumps the contents of memory at the address range given at the specified node.

Format 2 dumps the contents of memory from the given address for the specified length.

All addresses are to be provided in hexadecimal, e.g., X'FE3402.

All lengths are to be provided in decimal, e.g., 75.

An attempt will be made to dump the contents of the specified address at the given node. Currently a maximum length of 468 bytes is allowed for a single dump operation.

A formatted output of the node's memory contents will be printed.

## 2. FORMAT

[1] **DUMP:RUTIL** (a,b)**,AP;ADDR (X'**c**,X'**d**)!**

[2] **DUMP:RUTIL** (a,b)**,AP;ADDR X'**c**,{L|NL}** e[**;WORD**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0 – 63). |
| b | Member number (1 – 15). |
| c | The start address of the dump in hexadecimal. If **L** is given, then c is taken to be the beginning of address to dump. If **NL** is given, then c is the end address of the dump; the start address is calculated by end address minus total number of bytes to dump. |
| d | The end address of the dump in hexadecimal. |
| e | The length of the dump in decimal; if **WORD** is given, then e is the number of four-byte words to dump, otherwise e is the number of bytes to dump. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. |
| `NG` | No Good. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures

Input Message
`LOAD:RUTIL`

Output Message
`DUMP:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:SCP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To dump a list of Software Change Package (**SCP**) numbers applied to a selected 1B disk file.

## 2. FORMAT

**DUMP:SCP {NORMAL|UPDATE}[;CORR]!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **NORMAL** | Dumps a list of **SCP** numbers applied to the 1B normal disk file. |
| **UPDATE** | Dumps a list of **SCP** numbers applied to the 1B update disk file. |
| **CORR** | Used to remove "NO-TRACK" entries from the output dump. See corresponding DUMP:SCP output message. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| ?I | Identification field contains an error. |
| PF | Printout Follows. DUMP:SCP output message will follow. |
| RL | Retry Later. The data file is being updated. |

## 5. REFERENCES

Output Message
DUMP:SCP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:SMEAS
WORK CENTER.. MOC
GENERIC ..... 4AP14 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Dumps signaling system measurements from measurement history files. User may specify as many measurement names as the command will allow.

## 2. FORMAT

```
DUMP:SMEAS (a[,a]);HIST b;{SLK (c,d[,e,f])|NODE (c,d[,e,f])|CHN g[-g]|
      LS h[-h]|CLUSTER i[-i]}[:DEST j]!
```

## 3. EXPLANATION OF MESSAGE

`a` Measurement name in at most 12 characters. See tables following the Reference for the complete list of allowed names. These values will also be permitted:

- `ALL7LINK` — Outputs all nonzero link measurements for specified CCS7 links.
- `ALLCHANNEL` — Outputs all nonzero link measurements for specified channels.
- `ALLCLUSTER` — Outputs all nonzero link measurements for specified clusters.
- `ALLIUN` — Outputs all nonzero link measurements for specified IUNs.
- `ALLLINKSET` — Outputs all nonzero link measurements for specified linksets.
- `ALLOFFICE` — Outputs all nozero office measurements.
- `ALLPBXLINK` — Outputs all nonzero link measurements for specified PBX links.
- `ALLRPC` — Outputs all nonzero link measurements for specified RPCs.
- `FACPERF` — Outputs the following nonzero CCS7 link facility related measurements:
  CRCER, ERSEC, NCCLALOC, NCCMXOSY, NCCTOTRT, NCCTOTR, RABTER, and SEVERSEC

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `b` | Name of the history file. The history file name must agree with one of the names in the HFDT table. |
| | `C30M` — Current 30 minute data file. |
| | `CDAY` — Current day data file. |
| | `CHRM` — Current hour data file. |
| | `L15M` — Last 15 minute data file. |
| | `L30M` — Last 30 minute data file. |
| | `LDAY` — Last day data file. |
| | `LHRM` — Last hour data file. |
| | `LPM` — Last period measurement structure. |
| `c` | Starting group number (`0-63`). |
| `d` | Starting member number (`1-15`). |
| `e` | Ending group number (`0-63`). |
| `f` | Ending member number (`1-15`). |
| `g` | Starting and ending channel number. |
| `h` | Starting and ending link set number. |
| `i` | Starting and ending cluster number. |
| `j` | Destination class. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Practice 256-090-181, *CNI Operations Manual* -
Analog Signaling Link Operating Procedures Section,
Digital Signaling Link Operating Procedures Section,
D-Channel and Special Access Data Channel Signaling Link
Operating Procedures Section,
International Link Node Signaling Link
Operating Procedures Section,
Measurements, Reports, and Critical Events Section

Output Appendix
`APP:APPENDIX-10`

Input Message
`OP:OUTCLS`

Output Message
`DUMP:SMEAS`

SEE PROPRIETARY NOTICE ON COVER PAGE

**Measurements Recognized by the Command**

**IMS/CNI Office Measurements - Do Not Require Options (SLK, etc.)**

| | | | | |
|---|---|---|---|---|
| IMOFFDI | ABOFL | ABOFS | CUTOCUWDS | CUTOCUMSG |
| MRRING | BLKG0 | BLKG1 | SRNIAU | SRNIAUT |
| MRNIAU | MRNIAUT | RDWN | RDWNT | RGCNFG |
| RGCNFGT | RNIMN | RNIMNT | INIT0 | INIT1A |
| INIT1B | INITBT | INIT2 | INIT3 | INIT4 |
| INIT0T | INIT1AT | INIT1BT | INITBTT | INIT2T |
| INIT3T | INIT4T | COFFDIF | SPISP | SPISPT |
| SPISPPO | SPISPPOT | SPIA | SPIAT | SPIAPO |
| SPIAPOT | CLFSP | CLFSPT | CINIT0 | CINIT1 |
| CINIT2 | CINIT3 | CINIT4 | CINIT0T | CINIT1T |
| CINIT2T | CINIT3T | CINIT4T | NOCMG | NOCMGT |
| MRSBCO7 | MRSNTO7 | MRBADRTG | CLFA | CLFAT |
| SCR | RTGAUDFL | SCRERPRO | SCRERUA | SCRERUATY |
| SCRERUNE | SCRGTR | SCRLNN | SCRLSS | SCRNATL |
| SCSRTR | SCSRTX | SCSSTR | SCSSTX | SCUDSX |
| GTTPERFD | GTTUNBC | GTTUNNT | | |
| GTTUNBT | ORMSUOCT | TRMSUOCT | TSMSUOCT | ORIGMSUS |
| TRMDMSUS | THRSWMSU | MSINVSIO | ALSRO | ALSROT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Measurements Recognized by the Command**

**Measurements that Require NODE Option**

| | | | | |
|---|---|---|---|---|
| IMNPDIF | OOSCFG | OOSCFGT | OOSAU | OOSAUT |
| OOSMN | OOSMNT | CONFG | CONFGT | ARRATT |
| ARRFLR | ARREXR | RSTTRMT | BLK0 | BLK1 |
| RIPTER0 | RIPTER1 | NPPTER | SFPTER0 | SFPTER1 |
| IFBPTER0 | IFBPTER1 | RCOPTER0 | RCOPTER1 | PTERTE |
| WSMER0 | WSMER1 | IPSM0 | IPSM1 | WTFMTER0 |
| WTFMTER1 | RDFMTER0 | RDFMTER1 | IPFMTER0 | IPFMTER1 |
| RDINHER0 | RDINHER1 | RACER0 | RACER1 | BUFSW |
| INBOF | IDLE | PANICS | MRNRING | MRINTCH |
| WRRGQ0 | WRRGQ1 | WXRG0 | WXRG1 | MRRGQ0 |
| MRRGQ1 | MXRG0 | MXRG1 | ILLEGA | RRBOVFLW0 |
| RRBOVFLW1 | RRBOVFLW2 | RRBOVFLW3 | RRBOVFLW1T | RRBOVFLW2T |
| RRBOVFLW3T | IUNOVLD0 | IUNOVLD1 | IUNOVLD2 | RTMSGSRC |
| RTOCUWDS | RTOCUMSG | CUTORWDS | CUTORMSG | RPCBOF |
| DMAMISS | DMAFLT | PIOFLT | MINTRA | |
| TDPRCNG0 | TDPRCNG1 | TDPRCNG2 | | |
| DLNBASE | DLNGIMC | DLNBIMC | DLNGOMC | DLNBOMC |
| DLNGIBC | DLNBIBC | DLNGOBC | DLNBOBC | DLNTBSY |
| DLNBUSY | DLN6SDN | DLN6800 | DLN6NETBLK | DLN6SSP |
| DLN6FAIL | DLN10SDN | DLN10800 | DLN10SSP | DLN10NETBLK |
| DLN10FAIL | DLNCSIN | DLNCSOUT | DLNCFNIN | DLNCFNOUT |
| DLNUUIDROP | DLNATPDROP | | | |
| DSCHWDSSNT | DSCHWDSREC | WDSSNT | MSGSNT | WDSREC |
| MSGREC | RTY | UNRCMSGREC | PROTOERR | ETRANSERR |
| CNTOOS | DRTOOS | CNTMOOS | DRTMOOS | |
| DRPRRBOV2 | SBMEMERR | U0OVLD1 | U0OVLD2 | U0OVLD1T |
| U0OVLD2T | U1OVLD1 | U1OVLD2 | U1OVLD1T | U1OVLD2T |
| ULOVLD1 | ULOVLD2 | ULOVLD1T | ULOVLD2T | UROVLD1 |
| UROVLD2 | UROVLD1T | UROVLD2T | | |

**NOTE:** For 4E offices with SIN nodes, the ETRANSERR is used for the BUSERR measurement.

**Measurements that Require CHN Option**

| | | | | |
|---|---|---|---|---|
| RBOF | RBOFBLK | RINTCH | WBOFN | WBOFNL |
| WBOFO | | | | |

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**Measurements Recognized by the Command**

**Measurements that Require LS Option**

| | | | | |
|---|---|---|---|---|
| CLF | CLFT | LSMSUTRAN | LSMSURECD | LSOCTTRAN |
| LSOCTRECD | LSOCTRETRN | ALSR | ALSRT | |
| CMBCLF | CMBCLFT | | | |

**Measurements that Require CLUSTER Option**

RTESETUN RTESETUNT

**CCS7 Measurements that Require SLK Option**

| | | | | |
|---|---|---|---|---|
| L7DIF | L7ACOFE | L7ACONE | L7ACO | L7ACOTE |
| L7MCONE | L7MCOFE | L7FLD | L7FLDT | L7AFLT |
| L7MFLT | L7FLALIGN | SPI | SPIT | SPIPO |
| SPIPOT | L7EMR | L7EMRT | L7EMRPO | L7EMRPOT |
| L7LCON1X | L7LCON1XT | L7LCDIS1X | L7LCDIS1XT | L7LCON2X |
| L7LCON2XT | L7LCDIS2X | L7LCDIS2XT | L7LCON3X | L7LCON3XT |
| L7LCDIS3X | L7LCDIS3XT | NACRTE | L7POR | L7PORT |
| MGIAMXV0 | MGIAMRV0 | MGANSXV0 | MGANSRV0 | L6SUPXV0 |
| L6SUPRV0 | L6MGXV0 | L6MGRV0 | MGIAMXV1 | MGIAMRV1 |
| MGANSXV1 | MGANSRV1 | L6SUPXV1 | L6SUPRV1 | L6MGXV1 |
| L6MGRV1 | MGIAMXV2 | MGIAMRV2 | MGANSXV2 | MGANSRV2 |
| L6SUPXV2 | L6SUPRV2 | L6MGXV2 | L6MGRV2 | MGIAMXV3 |
| MGIAMRV3 | MGANSXV3 | MGANSRV3 | L6SUPXV3 | L6SUPRV3 |
| L6MGXV3 | L6MGRV3 | MGIAMXV4 | MGIAMRV4 | MGANSXV4 |
| MGANSRV4 | L6SUPXV4 | L6SUPRV4 | L6MGXV4 | L6MGRV4 |
| MGIAMXV5 | MGIAMRV5 | MGANSXV5 | MGANSRV5 | L6SUPXV5 |
| L6SUPRV5 | L6MGXV5 | L6MGRV5 | MGIAMXV6 | MGIAMRV6 |
| MGANSXV6 | MGANSRV6 | L6SUPXV6 | L6SUPRV6 | L6MGXV6 |
| L6MGRV6 | MGIAMXV7 | MGIAMRV7 | MGANSXV7 | MGANSRV7 |
| L6SUPXV7 | L6SUPRV7 | L6MGXV7 | L6MGRV7 | L7MGSX |
| L7MGSR | BYSX | BYSR | ERSEC | CRCER |
| NACR | BYRX | BYX | BYR | BYMSUX |
| BYMSUR | MGMSUX | MGMSUR | L7BOLR | L7BOLRT |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Measurements Recognized by the Command**

**CCS7 Measurements that Require SLK Option (Cont.)**

| | | | | |
|---|---|---|---|---|
| L7BOFRT | L7POX | L7POXT | L7XBFOC | |
| L7RBFOC | L7XBFLOOK | ERSECTE | CRCERTE | BYRXTE |
| SQL | UNVL | L7BYTO3B | DRPEMSG1 | DRPEMSG2 |
| DRPEMSG3 | DRP7MSG1 | DRP7MSG2 | DRP7MSG3 | L7MRPBC |
| L7MRPNT | MSG7LOOP | L7BADRTG | SC7R | L7RTGAUD |
| SC7RERPRO | SC7RERUA | SC7RERUATY | SC7RERUNE | SC7RGTR |
| SC7RLNN | SC7RLSS | SC7RNATL | SC7UDSX | L7LNKACTT |
| DCFLABN | DCFLABNT | DCFLXDA | DCFLXDAT | DCFLXER |
| DCFLXERT | DCFLXDC | DCFLXDCT | DCFLHWP | DCFLHWPT |
| DCFLSWP | DCFLSWPT | L7ORMSUOCT | L7TRMSUOCT | L7TSMSUOCT |
| L7ORIGMSUS | L7TRMDMSUS | L7THRSWMSU | L7MSINVSIO | MSUDISC0 |
| MSUDISC1 | MSUDISC2 | | | |
| OCCUPMSU | ZPEAKOCC | MSUSAMPL | LINKDLAY | TPROCOTG |
| COS7LCD_INV | COS7DCHN_OOS | COS7_UNE_RNA | COS7CRF_SRCM | |
| COS7ERR_SRCM | COS7RLC_SRCM | COS7DSD_SRCM | | |
| FORRX | FORRXBY | RABT | RABTER | |
| SEVERSEC | | | | |
| NCCLALOC | NCCMXOSY | NCCTOTR | NCCTOTRT | |
| NBSYLINK | DRBSYLNK | | | |

**Measurements Recognized by the Command**

**PBX Measurements that Require SLK Option**

| | | | | |
|---|---|---|---|---|
| LPDIF | LPFLDL0 | LPFLDL1 | LPFLDL2 | LPFLDL3 |
| LPFLDL4 | LPFLDL5 | LPFLDL6 | LPFLDL7 | LPFLDTL0 |
| LPFLDTL1 | LPFLDTL2 | LPFLDTL3 | LPFLDTL4 | LPFLDTL5 |
| LPFLDTL6 | LPFLDTL7 | LPAFLTL0 | LPAFLTL1 | LPAFLTL2 |
| LPAFLTL3 | LPAFLTL4 | LPAFLTL5 | LPAFLTL6 | LPAFLTL7 |
| LPMFLTL0 | LPMFLTL1 | LPMFLTL2 | LPMFLTL3 | LPMFLTL4 |
| LPMFLTL5 | LPMFLTL6 | LPMFLTL7 | LPTMPFLT0 | LPTMPFLT1 |
| LPTMPFLT2 | LPTMPFLT3 | LPTMPFLT4 | LPTMPFLT5 | LPTMPFLT6 |
| LPTMPFLT7 | LPLCONXT | LPLCONRT | LPLCONX | LPLCONR |
| LPTMPFL0 | LPTMPFL1 | LPTMPFL2 | LPTMPFL3 | LPTMPFL4 |
| LPTMPFL5 | LPTMPFL6 | LPTMPFL7 | DRPMGRG | DRPMGNP |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Measurements Recognized by the Command**

**PBX Measurements that Require SLK Option (Cont.)**

| | | | | |
|---|---|---|---|---|
| RJCTMG | RETMG | LKESTBL0 | LKESTBL1 | LKESTBL2 |
| LKESTBL3 | LKESTBL4 | LKESTBL5 | LKESTBL6 | LKESTBL7 |
| MGUNAL0 | MGUNAL1 | MGUNAL2 | MGUNAL3 | MGUNAL4 |
| MGUNAL5 | MGUNAL6 | MGUNAL7 | ERSECL0 | CRCERL0 |
| NACRL0 | BYRXL0 | BYXL0 | BYRL0 | MGMSUXL0 |
| MGMSURL0 | LPBOLRL0 | LPBOLRTL0 | LPBOFRL0 | LPBOFRTL0 |
| LPXBFOCL0 | LPRBFOCL0 | MGFMTERL0 | PROTEXRL0 | MGRUAL0 |
| MGRXL0 | Q931MGXL0 | Q931MGRL0 | XBFFULLL0 | XBFFULLTL0 |
| ERSECL1 | CRCERL1 | NACRL1 | BYRXL1 | BYXL1 |
| BYRL1 | MGMSUXL1 | MGMSURL1 | LPBOLRL1 | LPBOLRTL1 |
| LPBOFRL1 | LPBOFRTL1 | LPXBFOCL1 | LPRBFOCL1 | MGFMTERL1 |
| PROTEXRL1 | MGRUAL1 | MGRXL1 | Q931MGXL1 | Q931MGRL1 |
| XBFFULLL1 | XBFFULLTL1 | ERSECL2 | CRCERL2 | NACRL2 |
| BYRXL2 | BYXL2 | BYRL2 | MGMSUXL2 | MGMSURL2 |
| LPBOLRL2 | LPBOLRTL2 | LPBOFRL2 | LPBOFRTL2 | LPXBFOCL2 |
| LPRBFOCL2 | MGFMTERL2 | PROTEXRL2 | MGRUAL2 | MGRXL2 |
| Q931MGXL2 | Q931MGRL2 | XBFFULLL2 | XBFFULLTL2 | ERSECL3 |
| CRCERL3 | NACRL3 | BYRXL3 | BYXL3 | BYRL3 |
| MGMSUXL3 | MGMSURL3 | LPBOLRL3 | LPBOLRTL3 | LPBOFRL3 |
| LPBOFRTL3 | LPXBFOCL3 | LPRBFOCL3 | MGFMTERL3 | PROTEXRL3 |
| MGRUAL3 | MGRXL3 | Q931MGXL3 | Q931MGRL3 | XBFFULLL3 |
| XBFFULLTL3 | ERSECL4 | CRCERL4 | NACRL4 | BYRXL4 |
| BYXL4 | BYRL4 | MGMSUXL4 | MGMSURL4 | LPBOLRL4 |
| LPBOLRTL4 | LPBOFRL4 | LPBOFRTL4 | LPXBFOCL4 | LPRBFOCL4 |
| MGFMTERL4 | PROTEXRL4 | MGRUAL4 | MGRXL4 | Q931MGXL4 |
| Q931MGRL4 | XBFFULLL4 | XBFFULLTL4 | ERSECL5 | CRCERL5 |
| NACRL5 | BYRXL5 | BYXL5 | BYRL5 | MGMSUXL5 |
| MGMSURL5 | LPBOLRL5 | LPBOLRTL5 | LPBOFRL5 | LPBOFRTL5 |
| LPXBFOCL5 | LPRBFOCL5 | MGFMTERL5 | PROTEXRL5 | MGRUAL5 |
| MGRXL5 | Q931MGXL5 | Q931MGRL5 | XBFFULLL5 | XBFFULLTL5 |
| ERSECL6 | CRCERL6 | NACRL6 | BYRXL6 | BYXL6 |
| BYRL6 | MGMSUXL6 | MGMSURL6 | LPBOLRL6 | LPBOLRTL6 |
| LPBOFRL6 | LPBOFRTL6 | LPXBFOCL6 | LPRBFOCL6 | MGFMTERL6 |
| PROTEXRL6 | MGRUAL6 | MGRXL6 | Q931MGXL6 | Q931MGRL6 |
| XBFFULLL6 | XBFFULLTL6 | ERSECL7 | CRCERL7 | NACRL7 |
| BYRXL7 | BYXL7 | BYRL7 | MGMSUXL7 | MGMSURL7 |
| LPBOLRL7 | LPBOLRTL7 | LPBOFRL7 | LPBOFRTL7 | LPXBFOCL7 |
| LPRBFOCL7 | MGFMTERL7 | PROTEXRL7 | MGRUAL7 | MGRXL7 |
| Q931MGXL7 | Q931MGRL7 | XBFFULLL7 | XBFFULLTL7 | |
| COIREQL0 | COIREQL1 | COIREQL2 | COIREQL3 | |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Measurements Recognized by the Command**

**PBX Measurements that Require SLK Option (Cont.)**

| | | | |
|---|---|---|---|
| COIREQL4 | COIREQL5 | COIREQL6 | COIREQL7 |
| CODREQL0 | CODREQL1 | CODREQL2 | CODREQL3 |
| CODREQL4 | CODREQL5 | CODREQL6 | CODREQL7 |
| COREJRL0 | COREJRL1 | COREJRL2 | COREJRL3 |
| COREJRL4 | COREJRL5 | COREJRL6 | COREJRL7 |
| CODTTRL0 | CODTTRL1 | CODTTRL2 | CODTTRL3 |
| CODTTRL4 | CODTTRL5 | CODTTRL6 | CODTTRL7 |
| COMSGTL0 | COMSGTL1 | COMSGTL2 | COMSGTL3 |
| COMSGTL4 | COMSGTL5 | COMSGTL6 | COMSGTL7 |
| CODTRVL0 | CODTRVL1 | CODTRVL2 | CODTRVL3 |
| CODTRVL4 | CODTRVL5 | CODTRVL6 | CODTRVL7 |
| COMSGRL0 | COMSGRL1 | COMSGRL2 | COMSGRL3 |
| COMSGRL4 | COMSGRL5 | COMSGRL6 | COMSGRL7 |
| CODBLTL0 | CODBLTL1 | CODBLTL2 | CODBLTL3 |
| CODBLTL4 | CODBLTL5 | CODBLTL6 | CODBLTL7 |
| CODBLRL0 | CODBLRL1 | CODBLRL2 | CODBLRL3 |
| CODBLRL4 | CODBLRL5 | CODBLRL6 | CODBLRL7 |
| COINESTN | CODRESTN | COREJLEN | COREJRSN |
| COREJNUN | COREJUUN | CORLSLUN | CORLSNUN |
| CORLSREN | CORSTLUN | CORSTNON | CORSTREN |
| COACKTRN | COITTRMN | COERRTRN | CODT1BTN |
| CODT2BTN | CODT1BRN | CODT2BRN | CODT1TRN |
| CODT2TRN | CODT1RCN | CODT2RCN | COMSGTRN |
| COMSGRCN | COMBLTRN | COMBLRCN | COAPIGNN |
| CORLSPAN | CORMVPAN | COABNPRN | COAMIGNN |
| CORLSMAN | CORMVMAN | COABNMSN | COSNTYTN |
| COCNGSTN | COCNGENN | COCNGTMN | CODUMMYN |
| LPSPFAILT0 | LPSPFAILT1 | LPSPFAILT2 | LPSPFAILT3 |
| LPSPFAILT4 | LPSPFAILT5 | LPSPFAILT6 | LPSPFAILT7 |
| LPSPFAIL0 | LPSPFAIL1 | LPSPFAIL2 | LPSPFAIL3 |
| LPSPFAIL4 | LPSPFAIL5 | LPSPFAIL6 | LPSPFAIL7 |
| LPSWITCH0 | LPSWITCH1 | LPSWITCH2 | LPSWITCH3 |
| LPSWITCH4 | LPSWITCH5 | LPSWITCH6 | LPSWITCH7 |
| LPINSWITCH0 | LPINSWITCH1 | LPINSWITCH2 | LPINSWITCH3 |
| LPINSWITCH4 | LPINSWITCH5 | LPINSWITCH6 | LPINSWITCH7 |
| COUUIRJ0 | COUUIRJ1 | COUUIRJ2 | COUUIRJ3 |
| COUUIRJ4 | COUUIRJ5 | COUUIRJ6 | COUUIRJ7 |
| COUUIRJN | DCNCCVRJCNT | | |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:TAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To dump the header information for Attached Processor System (APS) generic tapes. This command is used to determine if the tape is an APS generic or database tape. For generic tapes (RT0), the sequence number is also printed if the tapes are part of a series.

## 2. FORMAT

**`DUMP:TAPE:HDR,TD "/dev/mta"8!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | The tape drive number `0` or `1`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. `DUMP:TAPE` output message will follow. |

## 5. REFERENCES

Output Message
`DUMP:TAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:TDAS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Dumps the Traffic Data Administration System (**TDAS**) measurement data from the **TDAS** data base stored on the 3B computer disk to 3B tape. This command is used as a tape backup for **TDAS** data collection in the event a collector is unable to access the data via a data link connection. The data may be put on tape in a 3B format common to all 3B architectures.

All **TDAS** related messages are recorded in the log file TDASLOG and may be accessed using the `OP:LOG;TDASLOG` command. To get **DUMP:TDAS** messages from the log, use the `OP:LOG;TDASLOG:KW DUMP!` command.

Format 1 is used to display a group of Measurement Classes (**MC**s) and a range of time.

Format 2 is used to display all data in the **TDAS** data base.

## 2. FORMAT

[1] **DUMP:TDAS,RANGE** a-a,**MC** {b [...b]|b-b}[;**AL**|;**CPIO**][,**RWD**|,**NRWD**] [,**DRIVE** c]!

[2] **DUMP:TDAS,ALL;**[**DRIVE** c]!

## 3. EXPLANATION OF MESSAGE

a — Range of data in 8-character formats to be dumped to tape for all MCs listed. 8-character format is `mmddyyhh`:

- `mm` — Month.
- `dd` — Day.
- `yy` — Year.
- `hh` — Hour.

b — MC number to be dumped. The option may specify a list or range of up to ten MC numbers to be dumped.

c — Tape drive number (`0` or `1`) for dump. If unspecified, default is MT 0.

**AL** — Dump in 1B format. If unspecified, dump will be in 3B format.

**CPIO** — Dump in 3B format. If unspecified, dump will be in 3B format.

**RWD** — Rewind tape after dump. If unspecified, tape will rewind after dump.

**NRWD** — Do not rewind tape after dump. If unspecified, tape will rewind after dump.

SEE PROPRIETARY NOTICE ON COVER PAGE

**ALL** All data in the **TDAS** data base is dumped. This option is only available for 3B format. Tape will rewind after the dump.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

`PF` Printout Follows. Followed by `DUMP-TDAS` output message and tape being written.

## 5. REFERENCES

File Name
`3bmeas`

Input Message
`OP:LOG`

Output Messages
`DUMP:TDAS`
`OP:LOG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... DUMP:UID
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Dumps the contents of a specified range of virtual addresses in computer main memory in the address space of the process with the specified utility identifier. This message cannot be used as an action associated with a breakpoint.

The range is specified by two addresses or by one address and a length. The length defaults to a value of `1`.

If only one address is given, indirect addressing may be specified. In this case, the first offset is added to the value of the given address and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the location specified in the `DUMP:UID` message for the dump location.

## 2. FORMAT

**`DUMP:UID`** `a`**`,ADDR`** `{b-c|b[`**`,OFF`** `d][`**`,L`** `e|`**`,NL`** `f]}[`**`;WORD`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Utility ID number of the target process. |
| `b` | Starting virtual address of the dump in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the **`WORD`** option is used. |
| `c` | Ending virtual address of dump. Assumed to be a byte address unless the **`WORD`** option is used. |
| `d` | Offset. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is used. |
| `e` | The length of the dump, in bytes unless the **`WORD`** option is used. The maximum is `128` bytes or `32` words. The default is `1`, unless a range is explicitly specified. The actual range of addresses to be dumped will be rounded out to word address boundaries. |
| `f` | Indicator that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option. |
| **`WORD`** | Indicates that all addresses, offsets, and lengths are to be interpreted in terms of words including addresses derived in address chains. If this option is omitted they are assumed to be byte values. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`
Message not allowed in a `WHEN` action list.

`?I` Identification field contains an error.

— `EXTRA KEYWORD (UID)`
**`UID`** is not valid in a `WHEN` action list.
— `INCONSISTENT DATA (ADDR)`
Address range must be in ascending order.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `RANGE ERROR (L` or `NL)`
Length specified is too long or zero.
— `RANGE ERROR (UID)`
Utility ID is out of range.

`NG` No Good. The **`UID`** is for a process for which dumps are not permitted.

`PF` Printout Follows. Followed by the `DUMP:UID` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `DUMP:ADDR-A`
- `DUMP:PID`
- `DUMP:PMEM`
- `DUMP:REG-A`
- `OP:UMEM`

Output Message
- `DUMP:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . DUMP:UVAR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of one or more computer Generic Access Package (GRASP) utility variables either as an immediate message or as an action associated with a breakpoint. Utility variables are used to store data temporarily.

This message can also be used to dump an address range in main memory (by specifying a single utility variable and offsets) but only if the message is part of the action list for a `WHEN:` message.

If offsets are specified, the first offset is added to the value of the contents of the utility variable and the result is interpreted as a virtual address. The number of offsets specified defines the length of the chain of virtual addresses to be accessed in this way before accessing the desired range of dump locations. For example, a single offset with value 0 uses the virtual address found in the utility variable for the dump location.

**NOTE:** Offsets can only be used if the `DUMP:UVAR` message is used as an action associated with a breakpoint, since that defines a process address space for memory addressing.

## 2. FORMAT

**`DUMP:UVAR`** `a[`**`,OFF`** `b][`**`,L`** `c|`**`,NL`** `d][`**`;WORD`**`]{`**`/`**`|`**`!`**`}`

## 3. EXPLANATION OF MESSAGE

`a` Utility variable(s) (`1-50`) to be dumped. See *User Guidelines* in this document for instructions on entering a list of variable numbers. A maximum of five utility variables may be listed.

`b` A single offset or list of up to five offsets. Omission of the keyword implies no indirect addressing. Offsets are in bytes unless the **`WORD`** option is used.

`c` The length of the dump, assumed to be in bytes unless the **`WORD`** option is used. The maximum is `128` bytes or `32` words for memory dumps, 4 bytes or 1 word for utility variable dumps. The default is `1` unless a range is explicitly specified. The actual range of addresses to be dumped is rounded out to word address boundaries.

`d` Used to indicate that the operation should use the locations beginning with the given value lower than the calculated address and ending at the address. The locations are used in ascending order. Usage and limitations are the same as for the **`L`** option.

SEE PROPRIETARY NOTICE ON COVER PAGE

**WORD** Indicates that all addresses, offsets, and lengths are to be interpreted as words including addresses derived in address chains. If this option is omitted they are assumed to be byte values.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `EXTRA KEYWORD (OFF)`
Indirection not allowed except as action of a `WHEN:`.
— `INCONSISTENT DATA (UVAR LIST + OFF)`
No indirection permitted with more than one utility variable listed.
— `INCONSISTENT KEYWORDS (NL-OFF)`
Negative length not allowed without `OFF`.
— `INPUT ERROR (OFF COUNT)`
Too many offsets listed.
— `INPUT ERROR (UVAR COUNT)`
Too many utility variables listed.
— `RANGE ERROR (L` or `NL)`
Length specified too long or zero.
— `RANGE ERROR (UVAR)`
Invalid utility variable number was specified.

`IP` In Progress. The message has been added to the `WHEN:` action list.

`PF` Printout Follows. Followed by the `DUMP:UVAR-A` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `DUMP:ADDR-A`
- `DUMP:PID`
- `DUMP:PMEM`
- `DUMP:REG-A`
- `DUMP:UID`
- `OP:UMEM`
- `WHEN:PID`
- `WHEN:UID`

Output Message
- `DUMP:UVAR-A`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . END:WHEN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Marks the end of a list of computer Generic Access Package (GRASP) messages to be performed when a specified breakpoint condition exists.

## 2. FORMAT

**`END:WHEN!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. Only allowed in a `WHEN` action list. |
| `?I` | Identification field contains an error.<br>— `PUNCTUATION ERROR`<br>Exclamation point was expected. |
| `PF` | Printout Follows. Followed by a `WHEN:` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`OP:UMEM`
`WHEN:PID`
`WHEN:UID`

Output Messages
`WHEN:PID`
`WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:CU
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that a computer Control Unit (**CU**) be exercised in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2, but also prints the command buffer contents being passed to the diagnostic driver.

Format 5 can only be used with main store diagnostic phase 95 or 96. It executes the main store diagnostic phase with user-supplied address range, refresh rate, number of failures to be collected, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time.

Format 6 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 6, first execute Format 1.

## 2. FORMAT

[1] **EX:CU** a,**CH=**b[;[**RAW**][,**UCL**]]:**PH** c[,**TLP**][,{**DFC**|**IOP**} d]!

[2] **EX:PAUSE;CU** a,**CH=**b:**ST** e!

[3] **EX:LOOP;CU** a,**CH=**b:**ST** f-g!

[4] **EX:STEP;CU** a:**ST** e !

[5] **EX:LDPARM;CU** a,**MASC** a[:[**SA** h][,**EA** i][,**REF** j][,**FNUM** k][,**PAT** l]
[,**WPA** m][,**TIME** n]]!

[6] **EX:STOP;CU** a,b!

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–1). |
| b | Unit type and member number of the subunit beneath the **CU**. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM–NUM–D. |
| **RAW** | Print all the diagnostic failures. Default is to print the first five failures. |
| **UCL** | Execute unconditionally.<br><br>**NOTE:** This option does not override forced early terminations. |
| c | Execute the specified phase<br><br>**NOTE:** The phase will not be executed until subsequent commands from Formats 2 through 5 are input. |
| **TLP** | Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.<br><br>**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing. |
| d | Member number of the Disk File Controller (**DFC**) (0–7), Input / Output Processor (**IOP**) (0–15) or Ring Peripheral Controller Node (RPCN) to be used as a helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or not available, the helper unit dependent tests are skipped. |
| e | Statement number that is the target of the action. This statement is not executed. |
| f | Lower statement boundary of an exercise loop. |
| g | Upper statement boundary of an exercise loop. |
| h | Starting address for the Main Store (MAS) exercise, in hexadecimal notation. Default is 0. |
| i | End address for the MAS exercise, in hexadecimal notation. Default is all equipped memory in controller under test. |
| j | Memory refresh rate in decimal.<br>For 3B20D, possible values are: 2, 4, 6, 8, 10, 12, 14, 16, 32, 36, 40, 44, 48, 52, 56, or 60 ms. Default is 4 ms.<br>For 3B21D, possible values are: 16, 18, 20, 22, 24, 26, 28, 30 ms. Default is 16 ms. |
| k | Number of failures for which data is to be collected. Default is 100. |
| l | 32-bit data pattern used in the MAS exercise (phase 95), in hexadecimal notation. Default is 0xffffffff. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`m` Number of words per memory array to copy from the online **`CU`**, in hexadecimal notation (phase 96). Default is all words in each array.

`n` Duration of time, in seconds, for which refresh data parity checks should be run to scan for errors in the Main Store Controller (**`MASC`**) under test (phase 96). Default = `34` seconds for TN14 MASAs, `68` seconds for TN28, TN56, TN2012 MASAs, `136` seconds for TN56 MASAs with either an extended main memory or very large main memory features, `136` seconds for TN2012 MASAs with an extended main memory feature, or `272` seconds for TN2012 MASAs with a very large main memory feature. This parameter is not used for 3B21D.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for the statement keyword was not found on the input line.
— `MISSING KEYWORD`
A required keyword is missing from the input.
— `RANGE ERROR`
Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by the `EX:CU` output message.

`RL` Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendix
`APP:MEM-NUM-D`

Input Messages
`DGN:CU`
`EX:LOOP`
`STOP:DMQ`

Output Messages
`ANALY:TLPFILE-B`
`DGN:CU`
`EX:CU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:DCI
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Dual Serial Channel/Computer Interconnect (**DCI**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:DCI** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;DCI** a:**ST** d!

[3] **EX:LOOP;DCI** a:**ST** e-f!

[4] **EX:STEP;DCI** a:**ST** d!

[5] **EX:STOP;DCI** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0-255). |
| **RAW** | Prints all the diagnostic failures. Default is the first five failures. |
| **UCL** | Executes unconditionally.<br>**NOTE:** This option does not override forced early terminations. |
| **PH** | Executes the specified phase. |
| b | Number of the phase to be executed. |

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 Formats 3 through 6 are input.

**TLP** Executes the trouble locating procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

d Statement number that is the target of the action. This statement is not executed.

e Lower statement boundary of an exercise loop.

f Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:DCI output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:DCI
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:DCI
EX:DCI
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:DFC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Exercises a Disk File Controller (**DFC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:DFC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**][,**CU** c]!

[2] **EX:PAUSE;DFC** a:**ST** d!

[3] **EX:LOOP;DFC** a:**ST** e-f!

[4] **EX:STEP;DFC** a:**ST** d!

[5] **EX:STOP;DFC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-7).

**RAW** — Prints all the diagnostic failures. Default is to print the first five failures.

**UCL** — Executes unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Executes the specified phase.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together as it may produce an improper **TLP** listing.

c (0–1) Member number of the CU helper unit. When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be Out-Of-Service (OOS) and must be diagnosed as All Tests Pass (ATP) before it is used as a helper unit.

d Statement number that is target of the action. This statement is not executed.

e Lower statement boundary of an exercise loop.

f Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `EX:DFC` output message. |
| `RL` | Retry Later. The system is in an overload condition. |

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
```
DGN:DFC
EX:LOOP
STOP:DMQ
```

Output Messages
```
ANALY:TLPFILE-B
DGN:DFC
EX:DFC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:DUIC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Direct User Interface Controller (**DUIC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:DUIC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**][,**CONT**]!

[2] **EX:PAUSE;DUIC** a:**ST** c!

[3] **EX:LOOP;DUIC** a:**ST** d-e!

[4] **EX:STEP;DUIC** a:**ST** c!

[5] **EX:STOP;DUIC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**RAW** — Prints all the diagnostic failures. Default is the first five failures.

**UCL** — Executes unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Number of the phase to be executed.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Lower statement boundary of an exercise loop.

e Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:DUIC output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:DUIC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:DUIC
EX:DUIC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:HSDC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a High-Speed Synchronous Datalink Controller (**HSDC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:HSDC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;HSDC** a:**ST** c!

[3] **EX:LOOP;HSDC** a:**ST** d-e!

[4] **EX:STEP;HSDC** a:**ST** c!

[5] **EX:STOP;HSDC** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0-255). |
| **RAW** | Prints all the diagnostic failures. Default is the first five failures. |
| **UCL** | Executes unconditionally.<br>**NOTE:** This option does not override forced early terminations. |
| **PH** | Executes the specified phase. |
| b | Number of the phase to be executed. |

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Lower statement boundary of an exercise loop.

e Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:HSDC output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:HSDC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:HSDC
EX:HSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:IOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Exercises an Input/Output Processor (**IOP**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:IOP** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**][,**CU** c]!

[2] **EX:PAUSE;IOP** a:**ST** d!

[3] **EX:LOOP;IOP** a:**ST** e-f!

[4] **EX:STEP;IOP** a:**ST** d!

[5] **EX:STOP;IOP** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-15). Number (0-1).

**RAW** — Prints all the diagnostic failures. Default is the first five failures.

**UCL** — Executes unconditionally.

**NOTE:** This option does not override forced early terminations.

**PH** — Executes the specified phase.

b — Number of the phase to be executed.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 Formats 3 through 6 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Member number of the CU helper unit (0–1). When a helper unit is not required, the specified helper unit is not used. When a helper unit is required but the specified unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be Out-Of-Service (OOS) and must be diagnosed as All Tests Pass (ATP) before it is used as a helper unit.

d Statement number that is the target of the action. This statement is not executed.

e Lower statement boundary of an exercise loop.

f Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `EX:IOP` output message. |
| `RL` | Retry Later. The system is in an overload condition. |

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:IOP`
- `EX:LOOP`
- `STOP:DMQ`

Output Messages
- `ANALY:TLPFILE-B`
- `DGN:IOP`
- `EX:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:LDPARM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Inputs user-supplied parameters to main store phases 95 and 96.

Can only be used with main store diagnostic phase 95 or 96. It executes the Main Store (MAS) diagnostic phase with user-supplied address range, refresh rate, number of failures to be collated, data pattern (phase 95), words per array to copy (phase 96), and refresh parity check time (phase 96).

**NOTE:** To use this input command, first invoke the interactive diagnostics. For example:

**EX:CU** a**,MASC** b**:PH** c**!**
Where:

a — Member number (0–1).

b — Member number of the Main Store Controller (**MASC**) beneath the Control Unit (**CU**) (0–1).

c — Executes the specified phase.

## 2. FORMAT

**EX:LDPARM;CU** a**,MASC** b[**:**[**SA** c][**,EA** d][**,REF** e][**,FNUM** f][**,PAT** g]
[**,WPA** h][**,TIME** i]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–1).

b — Member number of the Main Store Controller (**MASC**) beneath the Control Unit (**CU**) (0–1).

c — Starting address for the MAS exercise, in hexadecimal notation. Default is 0.

d — End address for the MAS exercise, in hexadecimal notation. Default is all equipped memory in controller under test.

e — Memory refresh rate used in the MAS exercise, in decimal. Default is 4 ms. Possible values are: 2, 4, 6, 8, 10, 12, 14, 16, 32, 36, 40, 44, 48, 52, 56, or 60 ms. Memory devices are guaranteed to work at a refresh rate of 4 ms or less when the memory device case temperature is between 0°C and 85°C.

f — Number of failures for which data is to be collected. Default is 100.

g — 32-bit data pattern used in the MAS exercise (phase 95), in hexadecimal notation. Default is 0xffffffff.

SEE PROPRIETARY NOTICE ON COVER PAGE

`h` Number of words per memory array to copy from the on-line **`CU`**, in hexadecimal notation (phase 96). Default is all words in each array.

`i` Duration of time, in seconds, for which refresh data parity checks should be run to scan for errors in the **`MASC`** under test (phase 96). Default is `34` seconds for TN14 MASAs, `68` seconds for TN28, TN56, TN2012 MASAs, `136` seconds for TN56 MASAs with either extended main memory or very large main memory features, `136` seconds for TN2012 MASAs with extended main memory feature, or `272` seconds for TN2012 MASAs with very large main memory feature.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for the statement keyword was not found on the input line.
— `MISSING KEYWORD`
A required keyword is missing from the input.
— `RANGE ERROR`
Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by the `EX:LDPARM` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:CU
EX:CU
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:CU
EX:CU
EX:LDPARM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:LN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Exercise a Link Node (**LN**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

Two sequential system actions are performed in response to the input command of Format 1.

1. The **LN** is removed from service following the rules for the `RMV:LN` input message.
2. If the resultant **LN** major state is either OOS, GROW, OFL, or UNAV, an attempt is made to isolate the **LN** (for other major states, the diagnostic is aborted by `DIAMON`). When the system is ready to accept subsequent interactive commands of Formats 2-5, it responds with an `EX-STARTED AT STATEMENT 1` output message.

Additional sequential system actions are then performed in response to the input commands of Formats 2-5.

1. The specified diagnostic phase is run.
2. If the **LN** was in the active ring prior to the start of the diagnostics and was successfully isolated, an attempt is made to include the **LN** back into the active ring at the conclusion of the diagnostic execution. Otherwise, the node is left in its original ring configuration state.

**NOTE:** The LN remains in the OOS, GROW, OFL, or UNAV state.

## 2. FORMAT

[1] **EX:LN**a b**:PH** c**!**

[2] **EX:PAUSE;LN**a b**:ST** d**!**

[3] **EX:LOOP;LN**a b**:ST** e-f**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[4] **EX:STEP;LN**a b**:ST** d**!**

[5] **EX:STOP;LN**a b**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | A Ring Node (RN) group number (00–63) with explicit leading zero for group numbers less than 10. |
| b | The nodes position in the RN group (1–15). |
| c | Specifies the number of the phase to be executed.<br><br>**NOTE:** The phase will not be executed until subsequent commands from Formats 2-5 are input. |
| d | Statement number that is the target of the action. This statement is not executed. |
| e–f | Statement boundaries for the loop command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. |
| NG | No Good. |
| PF | Printout Follows. |
| RL | Retry Later. |

## 5. REFERENCES

Practice 234-151-120, *Trouble Clearing and Maintenance Procedures* Diagnostics User's Guide Section

Input Messages
DGN:LN
EX:LOOP
STOP:DMQ

Output Messages
DGN:LN
EX:LN
EX:STARTED

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:LOOP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Performs a specified group of diagnostic tasks repeatedly.

Puts the diagnostic in a loop between the specified statement numbers.

**NOTE:** To use this input command, first invoke the interactive diagnostics. For example:

**EX:**a[,b]**;PH c!**
Where:

a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C.

b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D.

c — Executes the specified phase.

## 2. FORMAT

**EX:LOOP;**a[,b]**:ST** c-d**!**

## 3. EXPLANATION OF MESSAGE

a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C.

b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D.

d — Statement lower boundary of an exercise loop.

e — Statement upper boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for the statement keyword was not found on the input line.
— `MISSING KEYWORD`
A required keyword is missing from the input.
— `RANGE ERROR`
Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by the `EX:LOOP` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual,* Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Messages
`EX:CU`
`EX:DCI`
`EX:DFC`
`EX:DUIC`
`EX:HSDC`
`EX:IOP`
`EX:MHD`
`EX:MTC`
`EX:MTTYC`
`EX:PAUSE`
`EX:SCSDC`
`EX:SDLC`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
EX:STEP
EX:STOP
EX:TTYC
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
EX:LOOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:MHD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Moving Head Disk (**MHD**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:MHD** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;MHD** a:**ST** c!

[3] **EX:LOOP;MHD** a:**ST** d-e!

[4] **EX:STEP;MHD** a:**ST** c!

[5] **EX:STOP;MHD** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**RAW** — Print all the diagnostic failures. Default is the first five failures.

**UCL** — Execute unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Execute the specified phase.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing

c Statement number that is the target of the action. This statement is not executed.

d Lower statement boundary of an exercise loop.

e Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:MHD output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:MHD
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:MHD
EX:MHD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:MT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Magnetic Tape (**MT**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:MT** a[;[**RAW**][,**UCL**]]:**Ph** b[,**TLP**]!

[2] **EX:PAUSE;MT** a:**ST** c!

[3] **EX:LOOP;MT** a:**ST** d-e!

[4] **EX:STEP;MT** a:**ST** c!

[5] **EX:STOP;MT** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**RAW** — Print all diagnostic failures. Default is the first five failures.

**UCL** — Execute unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Execute the specified phase.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 or Formats 3 through 5 are input.

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, because it may produce an improper **TLP** listing.

`c` Statement number that is the target of the action. This statement is not executed.

`d` Lower statement boundary of an exercise loop.

`e` Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD` Duplicate or extraneous keywords were input.
— `INVALID KEYWORD` The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA` Data required for a keyword in the stated parameter block was not found.
— `MISSING KEYWORD` A required keyword is missing from the input. Unit to diagnose must be specified.
— `RANGE ERROR` Input is out of the valid range.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input. Unit to diagnose must be specified.

`PF` Printout Follows. Followed by `EX:MT` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:MT
EX:LOOP
```

Output Messages

```
ANALY:TLPFILE-B
DGN:MT
EX:MT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:MTC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Exercises a Magnetic Tape Controller (**MTC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 through 5, first execute Format 1.

## 2. FORMAT

[1] **EX:MTC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**][,**MT** c]!

[2] **EX:PAUSE;MTC** a:**ST** d!

[3] **EX:LOOP;MTC** a:**ST** e-f!

[4] **EX:STEP;MTC** a:**ST** e!

[5] **EX:STOP;MTC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

**RAW** — Print all the diagnostic failures. Default is to print the first five failures.

**UCL** — Execute unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Number of the phase to be executed.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

**TLP** Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Member number of the magnetic tape device that is to be used as a helper unit (0–255). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

d Statement number that is the target of the action. This statement is not executed.

e Lower statement boundary of an exercise loop.

f Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:MTC output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6
Diagnostics Programmer's Manual Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:MTC`
`EX:LOOP`
`STOP:DMQ`

Output Messages
`ANALY:TLPFILE-B`
`DGN:MTC`
`EX:MTC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:MTTYC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Maintenance Teletypewriter Controller (**MTTYC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 - 5, first execute Format 1.

## 2. FORMAT

[1] **EX:MTTYC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;MTTYC** a:**ST** c!

[3] **EX:LOOP;MTTYC** a:**ST** d-e!

[4] **EX:STEP;MTTYC** a:**ST** c!

[5] **EX:STOP;MTTYC** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0-255). |
| **RAW** | Print all the diagnostic failures. The default is to print the first five failures. |
| **UCL** | Execute unconditionally. |
| b | Executes the specified phase. |

**NOTE:** This option does not override forced early terminations.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together, as additional test results may adversely affect the **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Lower statement boundary of an exercise loop.

e Upper statement boundary of an exercise loop.

**4. SYSTEM RESPONSE**

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:MTTYC output message.

RL Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:MTTYC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:MTTYC
EX:MTTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:PAUSE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Runs to a specified point in a diagnostic command, and then stops.

Pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

**NOTE:** To use this input command, first invoke the interactive diagnostics. For example:

**EX:**a[,b]**;PH c!**
Where:

a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C.

b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D.

c — The phase specified.

## 2. FORMAT

**EX:PAUSE;**a[,b]**:ST c!**

## 3. EXPLANATION OF MESSAGE

a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C.

b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D.

c — Statement number that is the target of the action. This statement is not executed.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA`
Data required for the statement keyword was not found on the input line.
— `MISSING KEYWORD`
A required keyword is missing from the input.
— `RANGE ERROR`
Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by the `EX:PAUSE` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual,* Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Messages
`EX:CU`
`EX:DCI`
`EX:DFC`
`EX:DUIC`
`EX:HSDC`
`EX:IOP`
`EX:MHD`
`EX:MTC`
`EX:MTTYC`
`EX:SCSDC`
`EX:SDLC`
`EX:STEP`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
EX:TTYC
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
EX:PAUSE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Exercise a Ring Peripheral Controller Node (**RPCN**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2 but also dumps the command buffer contents being passed to the Interprocess Message Switch (IMS) driver. The contents are sent to the teletypewriter.

Format 5 stops the looping started by `EX:LOOP`.

Two sequential system actions are performed in response to the input command of Format 1.

1. The RPCN is removed from service following the rules for the `RMV:RPCN` input message.
2. If the resultant RPCN major state is any of OOS, GROW, OFL, or UNAV, an attempt is made to isolate the **RPCN** (for other major states, the diagnostic is aborted by `DIAMON`). When the system is ready to accept subsequent interactive commands of Formats 2-5, it responds with an `EX:STARTED` output message.

Additional sequential system actions are then performed in response to the input commands of Formats 2-5.

1. The specified diagnostic phase is run.
2. If the **RPCN** was in the active ring prior to the start of the diagnostics and was successfully isolated , an attempt is made to include the **RPCN** back into the active ring at the conclusion of the diagnostic execution. Otherwise, the node is left in its original ring configuration state.

**NOTE:** The **RPCN** remains in the OOS, GROW, OFL, or UNAV state.

## 2. FORMAT

[1] **EX:RPCN**a **O:PH** b[,c]!

[2] **EX:PAUSE;RPCN**a **O:ST** c!

SEE PROPRIETARY NOTICE ON COVER PAGE

[3] **EX:LOOP;RPCN**a **0:ST** e-f!

[4] **EX:STEP;RPCN**a **0:ST** d!

[5] **EX:STOP;RPCN**a **0!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | A Ring Node (RN) group number (00-63) with explicit leading zero for group numbers less than 10. |
| b | Specifies the number of the phase to be executed.<br><br>**NOTE:** The phase will not be executed until subsequent commands from Formats 2-5 are input. |
| c | Helper unit to be used with this diagnostic request. |
| d | Statement number that is the target of the action. This statement is not executed. |
| e-f | Statement boundaries for the loop command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. |
| NG | No Good. |
| PF | Printout Follows. |
| RL | Retry Later. |

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures*
Diagnostics User's Guide Section

Input Messages
DGN:RPCN
EX:LOOP
RMV:RPCN
STOP:DMQ

Output Messages
ANALY:TLPFILE-B
DGN:RPCN
EX:RPCN
EX:STARTED

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:SCSDC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Scanner And Signal Distributor Controller (**SCSDC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. This format is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 - 5, first execute Format 1.

## 2. FORMAT

[1] **EX:SCSDC** a[;[**RAW**][**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;SCSDC** a:**ST** c!

[3] **EX:LOOP;SCSDC** a:**ST** d-e!

[4] **EX:STEP;SCSDC** a:**ST** c!

[5] **EX:STOP;SCSDC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**RAW** — Print all the diagnostic failures. Default is the first five failures.

**UCL** — Execute unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Execute the specified phase.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Statement lower boundary of an exercise loop.

e Statement upper boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:SCSDC output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:SCSDC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:SCSDC
EX:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:SDLC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Exercises a Synchronous Data Link Controller (**SDLC**) in an interactive diagnostic mode.

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers. This format is similar to Format 2 but also prints the message buffer contents being passed to the diagnostic driver.

Format 4 steps the diagnostic and suspends at the specified statement number. This format is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use formats 2 - 5, first execute format 1.

## 2. FORMAT

[1] **EX:SDLC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;SDLC** a:**ST** c!

[3] **EX:LOOP;SDLC** a:**ST** d-e!

[4] **EX:STEP;SDLC** a:**ST** c!

[5] **EX:STOP;SDLC** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0-255). |
| **RAW** | Print all the diagnostic failures. Default is to print the first five failures. |
| **UCL** | Execute unconditionally.<br>**NOTE:** This option does not override forced early terminations. |
| b | Execute the specified phase. |

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Statement lower boundary of an exercise loop.

e Statement upper boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:SDLC output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:SDLC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:SDLC
EX:SDLC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EX:STEP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Steps through diagnostic commands.

Steps the diagnostic and suspends at the specified statement number. It is similar to the `EX:PAUSE` input command, but in the case of a `CU` diagnostic, it will also print the command buffer contents being passed to the diagnostic driver.

**NOTE:** To use this input command, first invoke the interactive diagnostics. For example:

**`EX:`**`a[,b]`**`;PH`** `e`**`!`**
Where `e` is the phase specified.

## 2. FORMAT

**`EX:STEP;`**`a[,b]`**`:ST`** `c`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`.

`b` Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`.

`c` Statement number that is the target of the action. This statement is not executed.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD` 1 Duplicate or extraneous keywords were input.
— `INVALID KEYWORD` 1 The keyword in the stated parameter position is not a valid keyword.
— `MISSING DATA` 1 Data required for the statement keyword was not found on the input line.
— `MISSING KEYWORD` 1 A required keyword is missing from the input.
— `RANGE ERROR` 1 Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD` 1 Duplicate or extraneous keywords were input.
— `INVALID KEYWORD` 1 The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD` 1 A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `EX:STEP` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual,* Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Messages
`EX:CU`
`EX:DCI`
`EX:DFC`
`EX:DUIC`
`EX:HSDC`
`EX:IOP`
`EX:MHD`
`EX:MTC`
`EX:MTTYC`
`EX:PAUSE`
`EX:SCSDC`
`EX:SDLC`
`EX:TTYC`
`STOP:DMQ`

Output Messages
`ANALY:TLPFILE-B`
`EX:STEP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:STOP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exits from the interactive diagnostics mode. This input message only stops the `EX:LOOP` command.

Stops the looping started by `EX:LOOP`.

**NOTE:** To use this input command, first invoke the interactive diagnostics and the `EX:LOOP` command. For example:

```
EX:a[,b];PH c!
EX:LOOP;a[,b]:ST d-e!
```

Where:

- a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`.
- b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`.
- c — Executes the specified phase.
- d — Statement lower boundary of an exercise loop.
- e — Statement upper boundary of an exercise loop.

## 2. FORMAT

```
EX:STOP;a[,b]!
```

## 3. EXPLANATION OF MESSAGE

a — Unit type and member number of the unit on which interactive diagnostics was started. Valid unit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`.

b — Unit type and member number of the subunit, if any. Valid subunit names and member numbers are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING DATA`
Data required for the statement keyword was not found on the input line.

— `MISSING KEYWORD`
A required keyword is missing from the input.

— `RANGE ERROR`
Not a valid value for the statement parameter.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons.

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `EX:STEP` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Messages
`EX:CU`
`EX:DCI`
`EX:DFC`
`EX:DUIC`
`EX:HSDC`
`EX:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
EX:LOOP
EX:MHD
EX:MTC
EX:MTTYC
EX:SCSDC
EX:SDLC
EX:TTYC
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
EX:STEP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EX:TTYC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Exercises a Teletypewriter Controller (**TTYC**).

Format 1 starts the interactive diagnostic mode.

Format 2 pauses or suspends the diagnostic execution at a specified statement number within a diagnostic phase.

Format 3 puts the diagnostic in a loop between the specified statement numbers.

Format 4 steps the diagnostic and suspends at the specified statement number. It is similar to Format 2.

Format 5 stops the looping started by `EX:LOOP`.

**NOTE:** To use Formats 2 - 5, first execute Format 1.

## 2. FORMAT

[1] **EX:TTYC** a[;[**RAW**][,**UCL**]]:**PH** b[,**TLP**]!

[2] **EX:PAUSE;TTYC** a:**ST** c!

[3] **EX:LOOP;TTYC** a:**ST** d-e!

[4] **EX:STEP;TTYC** a:**ST** c!

[5] **EX:STOP;TTYC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0-255).

**RAW** — Print all the diagnostic failures. Default is to print the first five failures.

**UCL** — Execute unconditionally.

**NOTE:** This option does not override forced early terminations.

b — Execute the specified phase.

**NOTE:** The phase will not be executed until subsequent messages from Formats 2 through 5 are input.

SEE PROPRIETARY NOTICE ON COVER PAGE

**TLP** Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** It is not recommended that the **TLP** and **UCL** parameters be specified together, as it may produce an improper **TLP** listing.

c Statement number that is the target of the action. This statement is not executed.

d Lower statement boundary of an exercise loop.

e Upper statement boundary of an exercise loop.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING DATA
Data required for the statement keyword was not found on the input line.
— MISSING KEYWORD
A required keyword is missing from the input.
— RANGE ERROR
Not a valid value for the statement parameter.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF Printout Follows. Followed by the EX:TTYC output message.

RL Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:TTYC
EX:LOOP
STOP:DMQ
```

Output Messages

```
ANALY:TLPFILE-B
DGN:TTYC
EX:TTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . EXC:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this message may cause service outage.**

## 1. PURPOSE

This message is used to tell **AIM** to perform some function. The function might involve a process or an internal **AIM** action.

Format 1 causes **AIM** to execute the action given.

Format 2 Causes **AIM** to attempt to initialize the process given. If given process is already running, this operation has no effect.

## 2. FORMAT

[1] **EXC:AIM;ACTION** "a"[**;UCL**]**!**

[2] **EXC:AIM;PROC** "b"**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Action to execute. The list of valid action names can be obtained by executing an OP:AIM;ACTION command. |
| **UCL** | Execute unconditionally. |
| b | Process to initialize. A list of all processes can be obtained by executing an OP:AIM;PROC command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Action or Process is already in progress. |
| NG | No Good. Illegal process or action name was given. Use OP:AIM;PROC or OP:AIM;ACTION command to determine proper names. |
| PF | Printout Follows. Request was received and understood by **AIM**. |
| RL | Retry Later. For processes, this indicates that the process is not in a stable state and therefore, **AIM** will not interfere. Try again later.<br><br>For actions, this indicates that the action is not runnable at the current time. Execute an OP:AIM;ACTION "a" command to determine if the action is runnable or not. The runnable decision may be overridden with the **UCL** option. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Message
`OP:AIM`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . EXC:E-PROC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.**

## 1. PURPOSE

Executes a task as either a kernel or supervisor process.

## 2. FORMAT

**`EXC:ENVIR:PROC,FN`** `"a"!`

## 3. EXPLANATION OF MESSAGE

`a` Pathname of the file to be executed. See *User Guidelines* in this document for a description of pathname.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `EXC:E-PROC` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-110 *DMERT Kernel and Basic Services Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`EXC:E-UPROC`
`OP:ST-PROC`

Output Messages
`EXC:E-PROC`
`REPT:PMGR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . EXC:E-UPROC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this message can cause unpredictable system damage or degradation. It should not be used without expert technical assistance unless it is part of a prescribed procedure.**

## 1. PURPOSE

Executes a task as a user process.

## 2. FORMAT

**`EXC:ENVIR:UPROC,FN`** `"a"[,`**`ARGS`** `b][,`**`BKG`**`][,`**`OPL`** `c]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname of the file to be executed. See the *User Guidelines* in this document for a description of pathnames. |
| `b` | A single argument or a list of up to six arguments for the user process. See the *User Guidelines* in this document for instructions on entering a list of arguments. Any argument containing lowercase letters or special characters must be enclosed in quotation marks. |
| **`BKG`** | Run the process in the background, freeing the terminal for further input messages. The default is foreground execution. |
| `c` | Number of segments to be output; specified in decimal. The default is `10` segments; maximum is `999`. Each segment has a maximum size of `1000` bytes or `20` lines. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `EXC:E-UPROC` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-110 *DMERT Kernel and Basic Services Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`EXC:E-PROC`
`OP:ST-PROC`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
`EXC:E-UPROC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EXC:LFS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Provides the capability to manually perform Link Fault Sectionalization (**LFS**) tests. This procedure is designed to sectionalize faults on SS7 link facilities equipped with 56k bps digital signal zero A (DS0-A) SS7 link interface.

The first field of this message is required. It specifies the signaling link on which **LFS** tests are to be performed.

## 2. FORMAT

[1] **EXC:LFS**(a,b):c[(d)]!

[2] **EXC:LFS**(a,b):,c[(d)]...[,c[(d)]]!

[3] **EXC:LFS**(a,b):,c[(d)]...[,c[(d)]][,**START** e][,**MON** f]
[,**PATL** {g|**X**'hhhhhhhh}][,**PATN** i][,**DUR**(j,k,l)][,**THR**(m,n)]
[,**NLS** o][,**NER** p][,**REPT** q]!

## 3. EXPLANATION OF MESSAGE

a — Link Group number (0-63).

b — Link Member number (1-15).

c — Unique loopback test component. Up to 11 different test components may be specified on the EXC:LFS command line. The designated loopback components are:

CSUL — Latching loopback test for channel service unit (CSU).

CSUN — Non-Latching loopback test for channel service unit (CSU).

DP01 — Latching loopback test for the 1st digital signal zero (DS0) data port relative to the initiating signaling point (SP).

DP02 — Latching loopback test for the 2nd DS0 data port relative to the initiating SP.

DP03 — Latching loopback test for the 3rd DS0 data port relative to the initiating SP.

DP49 — Latching loopback test for the 49th DS0 data port relative to the initiating SP.

DP50 — Latching loopback test for the 50th DS0 data port relative to the initiating SP.

SEE PROPRIETARY NOTICE ON COVER PAGE

`DSUL` — Latching loopback test for data service unit (DSU) data port.

`DSUN` — Non-latching loopback test for data service unit.

`LID0` — Latching loopback test for the local link interface DS0-A (LID0).

`NEI` — Latching loopback test for DS0 network element interface. (Loopback select code octet value = x1000001).

`OCUL` — Latching loopback test for office channel unit.

`OCUN` — Non-latching loopback test for office channel unit.

`REM` — Loopback test of a loopback that has been manually operated at the remote, far-end, link interface. This test will simply transmit the test pattern and verify the received bits at the local link interface. The loopback at the far-end link interface must be operated manually through craft interfaces to the far-end signaling point.

`RPT1` — Non-latching loopback test for the first 56K bps local loop regenerative repeater.

`RPT2` — Non-latching loopback test for the second 56K bps local loop regenerative repeater.

`d` A pre-set memory location number (`1-50`). It indicates an explicit reference to the set of user-defined test attributes which is held in the designated memory location. (Refer to the `SET:LFS` input message). The referenced test attribute is employed for testing the associated loopback component.

**`START`** Declares the test sequence progression for executing multiple loopback components.

`e` Test sequence progression specifier.

`FAR` — Start **`LFS`** test from the farthest specified loopback point to the nearest.

`NEAR` — Start **`LFS`** test from the nearest specified loopback point to the farthest. Default value.

**`MON`** Activates ON/OFF monitoring of intermediate test results.

`f` The frequency at which intermediate results should be reported:

`Hx` — Reports intermediate results every specified number of hours (`1-24`).

`LB` — Reports intermediate results each time testing of an individual loopback point finishes.

`Mx` — Reports intermediate results every specified number of minutes (`1-59`).

`OFF` — No intermediate results are reported. Default value.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** Results are reported as soon as individual tests are completed, regardless of the monitoring frequency requested. Therefore, it is suggested that the value specified for **DUR** duration should be greater than the value specified for the **MON** monitoring frequency parameter.

**PATL** Declares a latching test pattern for the designated latching loopback component(s). The indicated pattern overrides the customized default pattern(s) and/or the system default pattern for the current **EXC:LFS** command.

**NOTE:** Only seven of the eight bits in each octet transmitted on the DS0 link are used for test pattern data. The eighth bit is set to one (1) to indicate that the octet is not a network control code.

g Latching loopback test pattern:

511 — 511-bit pseudorandom test pattern.

2047 — 2047-bit pseudorandom test pattern.

PS1 — First pattern sensitive test pattern:
(100 octets of 11111111 followed by 100 octets of 0100000).

PS2 — Second pattern sensitive test pattern:
(100 octets of 01111110 followed by 100 octets of 01000000).

PS3 — Third pattern sensitive test pattern:
(continuous series of 00110010 octets).

PS4 — Fourth pattern sensitive test pattern:
(continuous series of 01000001).

hhhhhhhh Optional user-defined test pattern octet value for latching loopback test. Used only for PDS commands.

**PATN** Declares test pattern for non-latching loopback test component(s). The indicated pattern overrides the customized default pattern(s) and/or the system default pattern for the current **EXC:LFS** command.

i Specific test pattern for non-latching loopbacks. The system default test pattern is used only if the customized default test attribute is not explicitly referenced. The loopback test pattern system default value is 2047. Test pattern for non-latching loopbacks:

2047 — 2047-bit pseudorandom test pattern.

511 — 511-bit pseudorandom test pattern.

**DUR** Declares the test duration for each of the designated loopback components. The indicated test duration overrides the customized default duration(s) and/or the system default duration for the current **EXC:LFS** command.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** The minimum test duration must be 15 seconds and the maximum duration must be 48 hours. The system default duration is used only if the customized default test attribute is not explicitly referenced. Default duration is `DUR(0,0,15)`.

`j` Test duration at a loopback point hours (`0-48`).

`k` Test duration at a loopback point minutes. (`0-59`).

`l` Test duration at a loopback point seconds. (`0-59`).

**`THR`** Declares the error threshold type and the error threshold value for the designated loopback component(s). The indicated thresholds override the customized default thresholds and/or the system default thresholds for the current **`EXC:LFS`** command.

`m` The error threshold type:

`BER` — Bit Error Ratio.

`PEFS` — Percent Error Free Seconds.

`n` The error threshold value associated with the designated loopback component. Must be expressed in one of two formats depending on the error threshold type.

For `BER`, `n` must be expressed as a floating point number: `u.vE-w`
Where `u`, `v` and `w` are integer values in the range: (`0-9`). (e.g., 1.0E-6 represents 0.000001).

For `PEFS`, `n` must be a number in the range: (`10-100`). (e.g., 10, 20.5, 100, 100.0 ).

The system default thresholds are used only if the customized default test attributes are not explicitly referenced. The system default error threshold type and value depend on the test duration at the loopback component: If the test duration is less than 15 minutes then the threshold value defaults to `THR(BER,"1.0E-6")`; Otherwise, it defaults to `THR(PEFS,"99.5")`.

**`NLS`** Declares the maximum number of lost synchronization for each of the loopback components. The specified value overrides the customized default value and/or the system default value for the current **`EXC:LFS`** command.

`o` Maximum number of lost synchronization (slips) permitted at each loopback point (`0-999`). The system default value 1, is used only if customized default test attribute is not explicitly referenced.

**`NER`** Declares the number of consecutive errored bits for each of the designated loopback component(s). The indicated value overrides the customized default value and/or the system default value for the current **`EXC:LFS`** command.

SEE PROPRIETARY NOTICE ON COVER PAGE

`p` Number of consecutive errored bits to be injected in the bit stream of the designated test pattern (`0-6`). The system default value 0, is used only if a customized default test attribute is not explicitly specified.

**`REPT`** Declares the number of repetitions for the current **`EXC:LFS`** message.

`q` Number of repetitions of the **`EXC:LFS`** command (`0-99`). The default value is 0 (no repetition). The system defaults for the loopback test attributes are: `PATL 2047, PATN 2047, DUR(0,0,15), THR(BER,"1.0E-6"), NLS 1,NER 0.`
**NOTE:** All time parameters relate to a single repetition. Example: `(,DUR(0,1,2) ,MON M1).`

## 4. SYSTEM RESPONSE

For each loopback component:

1. Control codes are transmitted on the link to cause that component to loop its data path back.
2. Test data is transmitted and verified. Once the receiver initially synchronizes on the test data, bit errors, errored seconds, and lost synchronizations are counted and compared each second against specified thresholds to determine if the test should proceed.
3. When the test for the component is finished (successfully or not) control codes are transmitted to cause the component to release its loopback.

The following conditions will cause the **`LFS`** test sequence to terminate:

- Critical link restore.
- Critical node restore.
- Duration of the overall test sequence exceeds 48 hours.
- Error threshold exceeded.
- Initialization of OMAP.
- Response to input command `ABORT:LFS` or `STOP:LFS`.
- System initialization.

The following list describes the reasons for rejecting an **`LFS`** request. This list is by no means exhaustive:

- Composite clock failure.
- **`LFS`** test already in progress.
- LID0 hardware failure.
- Link not in proper state to execute **`LFS`**.
- Link not out of service.

SEE PROPRIETARY NOTICE ON COVER PAGE

- Local loopback currently operated.
- Manual near-end initiated **`LFS`** test in progress.
- Manual remote initiated **`LFS`** test in progress.
- Maximum **`LFS`** sessions exceeded; Retry later.
- Near-end not equipped with a DS0-A SS7 link interface.
- Network loopback currently operated.
- Overall test sequence exceeds 48 hours.
- Remote loopback currently operated.
- Remote loopback set in NEI mode.
- Remote loopback set in OCU mode.

## 5. REFERENCES

Input Message
`SET:LFS`

Output Messages
`EXC:LFS`
`REPT:LFS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EXC:LID0
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Provides the capability to query the status of the local Link Interface Digital signal zero A (**LID0**) network loopback device, and also to control the **LID0** remote loopback. For the remote loopback mode, the SS7 level 2 data received by the digital signal zero A (DS0-A) link interface is re-transmitted, looped back toward the network.

Format 1 configures the LID0 to operate or release the remote loopback. When used in the "operate" mode, it loops DS0-A bytes received from the link back onto the link.

Format 2 configures the network loopback device to respond to either Network Element Interface (NEI) or the Office Channel Unit (OCU) latching Loopback Select Code (LSC); and to reset the device (from NEI or OCU LSC code status) to an Idle (IDLE) status.

Format 3 queries the status of the **LID0** network loopback device. The information reported includes the current LSC value for the network loopback device, status of local loopback testing and facility Link Fault Sectionalization (LFS) testing. The queried information is reported in the **EXC:LID0** message.

Format 4 clears (releases) any active network loopback on the **LID0** card, should the network loopback currently be active (or because of previous receipt of a latching loopback sequence over the link). This command format is valid only after an **EXC:LID0** (option NEI) or **EXC:LID0** (option OCU) has been done for the link. Once the network loopback is cleared, the **LID0** is left in NEI or OCU mode as before.

The first field of this message is required. It specifies the **LID0** DS0-A link interface toward which the action is required.

## 2. FORMAT

[1] **EXC:LID0 (a,b):{OPERATE|RELEASE}!**

[2] **EXC:LID0 (a,b):{OCU|NEI|IDLE}!**

[3] **EXC:LID0 (a,b):STATUS!**

[4] **EXC:LID0 (a,b):CLEAR!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Link group number (0–63). |
| b | Link member number (1–15). |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. |
| `NG` | No Good. |
| `OK` | Good. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Messages
`EXC:LID0`
`REPT:LFS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EXC:MRVT
WORK CENTER.. MOC
GENERIC ..... 4AP12 Rel. 3 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Initiates the MTP Routing Verification Test (MRVT).

The requested test is run, and the report is written to the maintenance class and/or the standard output.

## 2. FORMAT

[1] **EXC:MRVT;PC** {a|b}[,**STPS** c][,**TRACE**][,**SRC** d]!

[2] **EXC:MRVT;PC** {a|b}[,**STPS** c][,**TRACE**][,**SRC** d][,**SS7**][,**ASTN**]!

## 3. EXPLANATION OF MESSAGE

a — The Point Code (**PC**) of the terminating node for the test. ANSI Standard - nnncccmmm:

nnn — Network identifier

ccc — Cluster identifier

mmm — Member identifier

**NOTE:** Non-local network Point Codes always use ANSI standard format.

b — The Point Code (**PC**) of the terminating node for the test. AT&T - nnnrrcmmm:

nnn — Network identifier

rr — Region identifier

c — Cluster identifier

mmm Member identifier

c — Maximum number of Signal Transfer Points (STPs) the **MRVT** is allowed to cross. Default is 2 for LEC networks and 4 for AT&T. The range for this parameter is 0-15, inclusive.

**TRACE** — If this keyword is present, traces of STPs crossed during the test will be included in the output if the test was a success or partial success. If a failure occurs, and this keyword is present, the **TRACE** will not appear; however, some error messages do contain a listing of point codes which is similar to the **TRACE**.

SEE PROPRIETARY NOTICE ON COVER PAGE

`d` The flag for a Symmetrical Route Check (**SRC**). When requested, this check ensures that the routing at all intermediate signaling points and at the terminator is symmetrical.

- `0` — The check is not done.
- `1` — The check is done. The default value is 1.

**SS7** This keyword is useful only for AT&T PCs. If it is present, the **SS7** routes to the destination are tested.

**ASTN** This keyword is useful only for AT&T PCs. If it is present, the **ASTN** routes to the destination are tested.

**NOTE:** **SS7** and **ASTN** can be present alone or in combination. If neither of them is present, the default is **SS7**.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Practice 256-090-187, *CNI Feature Description Manual* - MRVT Section

Input Message
```
CHG:MRVT
```

Output Messages
```
CHG:MRVT
EXC:MRVT
REPT:MRVR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . EXC:OFLBOOT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**

**Incorrect use of this command may interrupt operations of the system, or degrade its performance or availability.**

**Off-line boot requires a logical split of the system during which one CU and all its subunits will not be available.**

**Note that the boot signal generated in the off-line side will result in the yellow CRITICAL alarm indicator being lit. This is the expected behavior of the indicator in all bootstraps (including offline boot). The indicator will be cleared automatically within 30 seconds.**

## 1. PURPOSE

Initiates the off-line boot procedure. May be used to verify the integrity of boot files and data, or as the prelude for the side switch.

There are some restrictions the user must follow for this input message to execute successfully:

- The primary or secondary disk must be selected manually.
- Both Input/Output Processors (**IOP**s) 0 and 1 cannot be selected for the off-line side.
- There should be no Recent Change Verify (RCV) activities running.
- There should be no diagnostic activities running.
- The Maintenance Teletypewriter (MTTY) and Receive Only Printer (ROP) port selector switches must be in the AUTO position and the portswitch controller must be powered on.

## 2. FORMAT

```
EXC:OFLBOOT:[,TTY a][,APARM b][,INITLVL c][,IOP d [MAX]][,HDWCHK]
      [,SFTCHK][,ERRINT][,BROOT][,MINCONFIG][,UCL e][,MONITOR]
      [,RETROFIT][,OOS][,TRACE]!
```

## 3. EXPLANATION OF MESSAGE

a — Used as a pseudo ROP on the off-line side. All of the off-line side output directed to the ROP is sent to this **TTY** (0–254).

If the selected **TTY** is a UNIX system **TTY**, the output sent to it may be unformatted until someone logs in.

SEE PROPRIETARY NOTICE ON COVER PAGE

The default is no **TTY**; the off-line ROP output will not be sent to any output device.

**NOTE:** By selecting the Teletypewriter (**TTY**) option, the Input/Output Processor (**IOP**) associated with it is implicitly assigned to the off-line side.

b — The **APARM** option is used as an application parameter for the off-line side and is a single alphanumeric character. Equivalent to the function of poke 42 on the EAI page during normal boot.

The default is no **APARM** option set for off-line side.

c — The **INITLVL** option is used as the UNIX® RTR operating system bootstrap initialization level for the off-line side.

- 2 — The initial CU system configuration must be **ACT** or **STBY**. The **OOS** option will not override this requirement.
- 3 — Boot and load new Equipment Configuration Database (ECD).
- 4 — Boot and load new ECD and clear Protected Application Segment (PAS). Default.

**NOTE:** These levels apply to RTR initialization. Different applications may or may not support all of them.

d — The **IOP** will be removed from service in the on-line side and remain on the original off-line side until OFLBOOT is stopped (0–7). Side switching does not affect this assignment.

If **MAX** is specified, all of the devices under this **IOP** will be equipped and made available to the off-line side except the ROP, MTTY, and Switching Control Center (SCC). The ROP, MTTY, and SCC will be unequipped on the off-line side.

**NOTE:** Even with the SCC unequipped, it may perform a link switch. In this case, all EAI capabilities are functional.

If **MAX** is not specified, only peripheral controllers under this **IOP** will be equipped. Peripheral units under this **IOP** will not be equipped.

If the default option and **TTY** option are selected, only **TTY** will be equipped under this **IOP** in addition to the peripheral controllers.

If oflboot is a prelude to the software release transition procedure, this value has to be either 0 or –1.

The default is **IOP**d without **MAX**.

**HDWCHK** — Hardware checks will be inhibited for the off-line side. The default is allowed.

**SFTCHK** — Software checks will be inhibited for the off-line side. The default is allowed.

SEE PROPRIETARY NOTICE ON COVER PAGE

**ERRINT** Error interrupts will be inhibited for the off-line side. The default is allowed.

**BROOT** Backup partitions will be used for the off-line side.
The default is the primary partitions.
**NOTE:** If a side switch is done and then the oflboot procedure stopped, the system will be running on the backup partitions. A boot will be needed afterward to return to the primary (ROOT) partition.

**MINCONFIG** Minimum configuration database will be used for the off-line side. Any subsequent side switch will not be allowed.
The default is the full configuration database.

e Password. By selecting the **UCL** option some application prechecks will be overridden. The default enforces all prechecks.
**NOTE:** Application initiated aborts will be ignored. Because the **UCL** option inhibits system recovery actions, it should be used only in a software release transition procedure under technical guidance. Misuse can cause call processing downtime.

**NOTE:** Using the **UCL** option requires a password; to obtain it, seek technical assistance. The password value will change every time the **UCL** option is entered; thus, using the **UCL** option always requires contacting technical assistance.

**MONITOR** All off-line Processor Recovery Messages (PRMs) will be directed to the on-line ROP.
The default case will have only off-line PRMs up to Step 4 (KBOOT) directed to the on-line ROP.

**RETROFIT** Recovery strategy will be modified to accommodate the software release transition.
The default is normal recovery strategy.
**NOTE:** The **RETROFIT** option should be used only during a manual software release transition scenario. It has a strong impact during the side switch: allows the side switch to occur even if the switch precheck fails. Can result in a level 3 boot depending on the nature of switch precheck failure. Misuse of this option can cause call processing downtime.

**OOS** If specified, units selected for the off-line side may be initially Out of Service (**OOS**). The default requires those units to be ACT or STBY.

**TRACE** Should be used by authorized technical personnel only. It is for trouble shooting purposes, and will generate a significant amount of undocumented trace messages.
The default is no trace message generated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?E` | Error exists in the message but cannot be resolved to the proper field. |
| `?I` | Identification field contains an error. |
| `IP` | In Progress. |
| `NG` | No Good. |
| `RL` | Retry Later. Some activity is running, that is incompatible with `EXC:OFLBOOT`; for example, `rcvecd`. |

## 5. REFERENCES

Input Messages

`STOP:OFLBOOT`
`SW:OFLBOOT`

Output Messages

`EXC:OFLBOOT`
`REPT:OFLBOOT`
`STOP:OFLBOOT`
`SW:OFLBOOT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EXC:QCOPY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message allows the user to make on-line disk copies of the primary or backup filesystems on the 3B20D.

## 2. FORMAT

**EXC:QCOPY:[TOROOT|TOBROOT]!**

## 3. EXPLANATION OF MESSAGE

**TOROOT** To copy from backup filesystems to primary filesystems.

**TOBROOT** To copy from primary filesystems to backup filesystems.

## 4. SYSTEM RESPONSE

?D Data field contains an error. Illegal destination filesystem name. The valid values are **TOROOT** or **TOBROOT**.

PF Printout Follows. Message has been received and understood by **QCOPY**. **QCOPY** will perform internal checks to determine if the destination filesystem is not mounted. **QCOPY** then proceeds to perform the copy operation. First it places a system time stamp when it was invoked into `/etc/qcopy.journal`, and the displays at approximately every 30 seconds the number of bytes copied for the filesystem.

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... EXC:SRVT
WORK CENTER.. MOC
GENERIC ..... 4AP12 Rel. 4 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Requests initiation of the Signaling Connection Control Part (SCCP) Routing Verification Test (**SRVT**).

The requested test will be run, and the report written to the maintenance class and/or the standard output.

## 2. FORMAT

```
EXC:SRVT;TYPE a[,PLAN b,SCHEME c],DIGITS d[,CCC e][,TPC {f|g}]
      [,NTSP h][,TRACE][,MODE i]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Translation type, integer range 0 to 254. |
| b | The numbering plan from SCCP protocol. Can only be used if the number of **DIGITS** is 10. If **TYPE** = 252 or 253, then the numbering plan defaults to the North American numbering plan (NANP) - 0001. If **TYPE**=242, then this field is mandatory and should be NANP. |
| c | The encoding scheme from SCCP protocol. Can only be used if the number of **DIGITS** is 10. Default is binary coded decimal (BCD) even - 0010. |
| d | Digits in the global title, limited to 3, 6, 9, 10, or 12 digits (e.g., an 800 number). If **TYPE** is associated with Local Number Portability (LNP), then only 6 digits should be used. |
| e | Country code (11 - 9999). Can be used only if **TYPE**=253 and the number of **DIGITS** is 10. |
| **TPC** | Translation Point Code (**TPC**) to which the initiator should address and send an **SRVT** message. If not included, the default is chosen by CNI based on the translation type. CNI will send more than one **SRVT** message if more than one unique **TPC** is returned. |
| f | The **TPC**. ANSI Standard - nnncccmmm:<br>nnn — Network identifier<br>ccc — Cluster identifier<br>mmm — Member identifier<br><br>**NOTE:** Non-local network point codes always use ANSI standard format. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`g` The **TPC**. AT&T - `nnnrrcmmm`:

`nnn` — Network identifier

`rr` — Region identifier

`c` — Cluster identifier

`mmm` Member identifier

`h` Maximum number of Translation Signaling Points (TSPs) allowed to be crossed (`1-15`, default `1`).

**NOTE:** If **TYPE**=252, then this field should be specified with at least 2.

**TRACE** If this keyword is present, a list of TSPs crossed during the test will be included in the output. If this keyword is not present, a list of TSPs crossed will be included only when an error occurs and one or more TSPs had been crossed when the error occurred. No **TRACE** word will appear if not requested.

`i` The global title translation mode to be used. The default mode is to follow the feature bit settings of the GTT feature for the requested **TYPE**. In this mode, if the feature bit is turned off, then the GTT request will be sent to the STP. If the feature bit is turned on, then the GTT request will be checked first at the 4ESS™, and if not found, the request will be sent to the STP. There are four modes to override the default (override the feature bit):

`1` — Perform GTT according to the feature bit settings for the requested **TYPE**.

`2` — Perform GTT translation at the 2STP.

`3` — Perform GTT translation at the 4ESS™. If the translation is not at the 4ESS™, then the **SRVT** request will not be sent. However, if the **TYPE**=252, an **SRVT** request will be sent to OGTT.

`4` — Perform GTT at the 4ESS™. If the translation is not at the 4ESS™, then the **SRVT** request will be sent to the 2STP.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

`RL` Retry Later.

## 5. REFERENCES

Practice 256-090-187, *CNI Feature Description Manual* - MRVT Section

Input Messages
```
CHG:SRVT
OP:TPC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
CHG:SRVT
EXC:SRVT
OP:TPC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EXC:T1M
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E, CNI
TYPE . . . . . Input

## 1. PURPOSE

Allows the user to **START**/**STOP** test signals and payload loopback at the Universal Link Node (ULN).

When testing, keep in mind the master-slave relationship between the near-end and far-end ULNs. The master side provides the ULN clock signal. This clocking signal will be lost if a payload loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable.

On low-density, high-density, all-zeroes, and quasi-random signal testing, expect no permissible T1 error counts to increase. Check these counts by referring to the failed-seconds and similar measurements in the `OP:T1M` output message.

Two Variable Field Definitions in the `OP:T1M` output message are especially useful for checking T1 test signals: the 8-Bit Current Status of the T1 device field, and the extra data sent from the near-end ULN only, T1-specific field. They are printed out in conjunction with the `OP:T1M` input message when the `NEULN` and `RAW` options are specified.

If the attempt to start a far-end test is denied because the near-end and the far-end intrusive test statuses got out of agreement because of a temporary T1 facility failure, do the following:

Use the **EXC:T1M,...;STOP** command form to bring the near-end and far-end statuses into agreement, then restart/resume the intrusive testing.

## 2. FORMAT

**EXC:T1M,**a**,LN**b c;{**START**|**STOP**}!

## 3. EXPLANATION OF MESSAGE

a — Test type:

- `FEAZTST` — Far-End All Zero Test. This test, generated from the far-end ULN, determines the DS1 data stream's ability to carry an all-0's test signal with valid framing bits and CRC6 values.
- `FEDL` — Far-End Data/Payload Loopback. This DS1 data loopback is inserted in the far-end ULN toward the facility, to determine the DS1 data stream's ability to send and receive a DS1 signal.

SEE PROPRIETARY NOTICE ON COVER PAGE

`FEHDTST` — Far-End High Density Test. This test, generated from the far-end ULN, determines the DS1 data stream's ability to carry an all-1's test signal with valid framing bits and CRC6 values.

`FELDTST` — Far-End Low Density Test. This test, transmitted from the far-end ULN, determines the DS1 facility's ability to carry an 8-bit pattern (00000001) repeated across the DS1 bit stream, with valid F-bits overwriting the pattern.

`FELL` — Far End Line Loopback. This DS1 data loopback is inserted in the far-end ULN toward the facility, to determine the DS1 data stream's ability to receive a DS1 signal and loop it back unchanged. If the far-end is the master side, it provides the ULN clock signal. This clocking signal will be lost if a line loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable. Line loopback is a physical loopback and does not regenerate CRC or framing of the data. Also the ability to put data onto the path from the far-end is lost when a line loopback is active, therefore no far-end performance data can be collected across the T1 ESF data link during a line loopback activation by the other end.

`FEQRTST` — Far-End Quasi-Random Test. This test, generated from the far-end ULN, simulates live data and is used to check/stress the DS1 facility's ability to carry a quasi-random payload bit pattern. This test signal conforms to ANSI T1.403 standard and consists of a quasi-random payload bit sequence with valid framing bits and CRC6 values.

`FEYTST` — Far-End Yellow Test. This test, generated from the far-end ULN, determines the ability of the DS1 data stream's 4-K ESF data link to carry alternating octets of 1's and 0's.

`NEAZTST` — Near-End All Zero Test. This test, generated from the near-end ULN, determines the DS1 data stream's ability to carry an all-0's test signal with valid framing bits and CRC6 values.

`NEDL` — Near-End Data/Payload Loopback. This DS1 data loopback is inserted in the near-end ULN toward the facility, to determine the DS1 data stream's ability to send and receive a DS1 signal.

SEE PROPRIETARY NOTICE ON COVER PAGE

`NEHDTST` — Near-End High Density Test. This test, generated from the near-end ULN, determines the DS1 data stream's ability to carry an all-1's test signal with valid framing bits and CRC6 values.

`NELDTST` — Near-End Low Density Test. This test, generated from the near-end ULN, is used to check/stress the DS1 facility's ability to carry an 8-bit pattern (00000001) repeated across the DS1 bit stream, with valid F-bits overwriting the pattern.

`NELL` — Near End Line Loopback. This DS1 data loopback is inserted in the near-end ULN toward the facility, to determine the DS1 data stream's ability to receive a DS1 signal and loop it back unchanged. If the far-end is the master side, it provides the ULN clock signal. This clocking signal will be lost if a line loopback toward the facility is put on the master side. The data output by the test will therefore be free-running, and may become garbled and unusable. Line loopback is a physical loopback and does not regenerate CRC or framing of the data. Also the ability to put data onto the path from the near-end is lost when a line loopback is active, therefore no near-end performance data can be collected across the T1 ESF data link during a line loopback activation by the other end.

`NEQRTST` — Near-End Quasi-Random Test. This test, generated from the near-end ULN, simulates live data and is used to check/stress the DS1 facility's ability to carry a quasi-random payload bit pattern. This test signal conforms to ANSI T1.403 standard and consists of a quasi-random payload bit sequence with valid framing bits and CRC6 values.

`NEYTST` — Near-End Yellow Test. This test, generated from the near-end ULN, determines the ability of the DS1 data stream's 4-K ESF data link to carry alternating octets of 1's and 0's.

`b` The group number of the link node (`00 - 63`).

`c` The member number of the link node (`1-15`).

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. |

## 5. REFERENCES

MCRT Display Page:
`1110 EXC T1M POKE`

Practice 256-090-182, *CNI Maintenance Manual*, T1 Maintenance Procedures Section

Input Messages
`ATR:T1M`
`CLR:T1M`
`OP:T1M`
`SET:T1M`

Output Messages
`ATR:T1M`
`CLR:T1M`
`EXC:T1M`
`OP:T1M`
`SET:T1M`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . EXC:UCL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Causes the user shell to accept an input message that it previously rejected because it was not represented in the input message catalog database.

When operating in the full capability mode, the user shell will reject any input message that is not represented in the Input Message (IM) catalog database, with an error acknowledgement. Consequently, a missing or erroneous entry in the IM catalog will cause the user shell to reject the associated input message, even if it is typed correctly. If this should occur, the user can force the user shell to accept the message and attempt to execute it by entering the `EXC:UCL` command immediately following the error acknowledgement. This command affects only the message immediately preceding the rejected input message. It will not cause the user shell to re-execute a successful message or a message with a syntax error, and it has no effect on any subsequent message. If it is used to force the user shell to execute an invalid input message, the invalid message will be rejected by the program that processes it.

This command may be used only when the shell is operating in the full capability mode. It will be rejected if the shell is operating in the partial capability mode or limp mode.

## 2. FORMAT

**`EXC:UCL!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good. The command has been rejected for one of the following reasons:

— `'EXC:UCL' INVALID IN PART MODE`

— `CFTSHL CANNOT EXECUTE 'EXC:UCL' ITSELF`

— `NO PREVIOUS COMMAND AVAILABLE`

— `PREVIOUS COMMAND HAD A SYNTAX ERROR`

`OK` OK. Followed by the command to be executed, its acknowledgement, and any resulting output messages. Refer to the document page for the previous command.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . FLUSH:NVTREC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Produces a listing of matched Automatic Message Accounting (AMA) records selected by the checking process. This message will not be accepted if there is no active request being processed or there is no checking for matched records.

## 2. FORMAT

**`FLUSH:NVTREC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `NO DATA VALUES ALLOWED IN MESSAGE`
Reenter message and check format.

`RL` Retry Later.

— `NO NVT SESSION ACTIVE`
Retry later or supply a start message to initiate search session.

— `SESSION STARTING OR STOPPING`

`OK` Good.

— `FLUSHING IN PROGRESS`

## 5. REFERENCES

Input Messages
`START:NVTSESS`
`STOP:NVTSESS`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . FRMV:LN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

**WARNING**
**This command can cause signaling point isolation; isolating the office and interrupting CCS message processing, by removing the last LN of a set. Use it only when it is necessary to override the safety checks of the `RMV:LN` command.**
****READ PURPOSE CAREFULLY****

## 1. PURPOSE

Requests forced removal of the specified node from service, regardless of the state of the link, mate or of other nodes.

An attempt is made to remove the node from service if the node's major state is Active (ACT), the node is in the active ring segment, and the Interprocess Message Switch (IMS) subsystem is not initializing at a level higher than 1B. RPC nodes are an exception to this statement.

If successful, the Link Node (**`LN`**) major state is changed to Out Of Service (OOS) and the node itself is placed in the quarantine state.

When a node is manually removed, it becomes the responsibility of the user to restore the node to service.

This command does not use the Maintenance Input Request Administrator (MIRA) queue, so the `OP:DMQ` and `STOP:DMQ` commands do not apply to it and it may be executed ahead of previously entered commands in the MIRA queue.

Due to the nature of this command, Network Services Division (NSD) offices are required to confirm command execution. NSD offices will be prompted with a `ARE YOU SURE <Y/N>`? query. If an affirmative response (`Y` or `y`) is entered within 10 seconds, the command will be executed; otherwise, the command will not be executed.

## 2. FORMAT

**`FRMV:LN`**`a b!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | A Ring Node (RN) group number (`00 - 63`) with explicit leading zero for group numbers less than 10. |
| `b` | The node's position in the RN group (`1 - 15`). |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages

```
DGN:LN
RMV:LN
RST:LN
```

Output Messages

```
DGN:LN
FRMV:LN
RMV:LN
RST:LN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . IN:ACTOW
WORK CENTER . . MOC
GENERIC . . . . . 4AP21 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This should only be used as directed under the supervision of your technical support organization.**

## 1. PURPOSE

Manually enters the data for an overwrite in the active file.

Format 1 initiates the start of the overwrite process. **MERGE** option specifies that the overwrites are for the **MERGE** Identification (ID) only and must be file store addresses.

Format 2 implements main memory overwrites. The optional FSEG keyword is **MANDATORY** if the MMADR is in Windowed Store or in Segmented Memory. Format 2 cannot be used with Format 3 in the same overwrite process.

Format 3 implements file store overwrites. Format 3 cannot be used with Format 2 in the same overwrite process.

Format 4 updates hash sums and completes overwrite process.

Format 5 prints the contents of the overwrite buffer.

Format 6 aborts overwrite process without installing any overwrites. This command can be entered anytime during the overwrite process.

## 2. FORMAT

[1] **IN:ACTOW:START [MERGE]!**

[2] **IN:ACTOW [,FSEG f]:MMADR a,DATA b[,OLDDATA c]!**

[3] **IN:ACTOW:FSADR d,DATA b[,OLDDATA c]!**

[4] **IN:ACTOW:UPD[,HASHSUM e]!**

[5] **IN:ACTOW:DUMP!**

[6] **IN:ACTOW:ABORT!**

## 3. EXPLANATION OF MESSAGE

a — Absolute (up to 23 bit) main memory address at which overwrite is to start. Default data type is octal.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `b` | List of the data to overwrite in octal. The number of arguments given determines the number of words to be overwritten. If more than one word is to be overwritten, the list of numbers must be enclosed in parentheses and separated by commas. |
| `c` | If specified, this data will be compared to data currently in the system, and if a mismatch occurs, the message will be rejected. |
| `d` | Absolute (up to 25 bit) file store address at which overwrite is to start. Default data type is octal. |
| `e` | The computed hash sums over the buffer must match the supplied hash sums before the update will take place. |
| `f` | 1Bfile segment number in which the disk back-up data for the main memory address resides. Valid values are 0, 1, 2 or 3. The FSEG keyword followed by the file segment number is MANDATORY for main memory addresses that are backed up in file segment 1, 2 or 3 (i.e. windowed store or segmented memory). This field will default to file segment 0. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |
| `?I` | Input message error in id fields of the input message (i.e. after first colon and before the second colon). |
| `?D` | Input message error in the data fields of input message (i.e. after second colon). |

## 5. REFERENCES

Input Message
`IN:OSOW`

Output Message
`IN:ACTOW`
`IN:OSOW`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:DTIME
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Overrides the default computer Generic Access Package (GRASP) dynamic real-time limit with a specified limit until the specified clock time or the end of the debugging session, whichever occurs first.

## 2. FORMAT

**`IN:DTIME`** `a`**`;UNTIL`** `b`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Real time allowed to GRASP, specified in decimal (`1-10000`).

`b` Clock time when override will expire; specified as a 24-hour clock time (for example, 1535 is 3:35 p.m.).

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`
Not a valid action in a `WHEN` action list.

`?I` Identification field contains an error. General syntax error, or one of the following errors:

— `RANGE ERROR (DTIME)`
Dynamic time value is out of range.

— `RANGE ERROR (UNTIL)`
Invalid 24-hour clock time is specified.

`OK` Good. The request was received and has been processed.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Message
`OP:UMEM`

Output Message
`REPT:GRASP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . IN:F-APND
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Insertion of incorrect data may make the file unusable.**

## 1. PURPOSE

Appends one line of user-supplied text at a specified location in a regular ASCII file. Directory and special device files cannot be edited.

**NOTE:** All file editing should proceed from the highest numbered line toward the lowest numbered line; otherwise, multiple edits could cause errors.

## 2. FORMAT

```
IN:FILE:APND,FN "a",LINE b/ "c"!
```

## 3. EXPLANATION OF MESSAGE

`a` Full pathname that specifies the file. Upon successful completion of the edit, a file called `a.bk`, where `a` is the file name entered, will contain the data in file `a` prior to the edit. Should the edit be unsuccessful, the `a.bk` file will either contain the same data as the original file, or it will not exist. See *User Guidelines* in this document for a full description of pathnames.

`b` Number of the line at which the input is to be appended. If the line number specified is larger or smaller than the number of lines in the file, the new line will be appended at the end of the file. Entering zero as the line number will insert the line of text before the first line of the file. If the file does not exist, entering zero in the line number will create the file.

`c` User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement `IP`. The maximum length is 511 characters.

The text must be enclosed in quotation marks, otherwise data may be lost and misleading error messages printed.

## 4. SYSTEM RESPONSE

`IP` In Progress. The request was received and has been initiated.

`PF` Printout Follows. Followed by the `IN:F-APND` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-DEL
IN:F-REPL
```

Output Message

```
IN:F-APND
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . IN:F-DEL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**All existing data in the targeted lines of the file will be destroyed.**

## 1. PURPOSE

Deletes one or more lines from a regular ASCII file. Directory files and special device files cannot be edited.

**NOTE:** All file editing should proceed from the highest-numbered line toward the lowest-numbered line; otherwise multiple edits could cause errors.

## 2. FORMAT

```
IN:FILE:DEL,FN "a",LINE b[-c]!
```

## 3. EXPLANATION OF MESSAGE

`a` Full pathname of the file. Upon successful completion of the edit, a file called `a.bk`, where `a` is the filename entered, will contain the data in file `a` prior to the edit. Should the edit be unsuccessful, the `a.bk` file will either contain the same data as the original file, or it will not exist. See *User Guidelines* in this document for a description of pathnames.

`b` Number of the first (or only) line to be deleted. If the line number specified is larger than the number of lines in the file, the last line of the file is assumed.

`c` Last line number of a range of lines to be deleted. If the line number specified is out of the range, the last line of the file is assumed.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `IN:F-DEL` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`DUMP:F-ALL`
`DUMP:F-PARTL`
`IN:F-REPL`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
IN:F-REPL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . IN:F-REPL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**All existing data in the targeted lines of the file will be destroyed. Insertion of incorrect data may make the file unusable.**

## 1. PURPOSE

Replaces one or more lines of a regular ASCII file with one line of user-supplied text. Directory files and special device files cannot be edited.

**NOTE:** All file editing should proceed from the highest-numbered line toward the lowest-numbered line; otherwise, multiple edits could cause errors.

## 2. FORMAT

```
IN:FILE:REPL,FN "a",LINE b[-c]/ "d"!
```

## 3. EXPLANATION OF MESSAGE

`a` Full pathname of the file. Upon successful completion of the edit, a file called `a.bk`, where `a` is the file name entered, will contain the data in file `a` prior to the edit. Should the edit be unsuccessful, the `a.bk` file will either contain the same data as the original file, or it will not exist. See *User Guidelines* in this document for a description of pathnames.

`b` First or only line number of the lines to be replaced. If the line number specified is out of the range, the last line in the file will be replaced by the line `d`.

`c` Last line number of a range of lines to be replaced. If out of range, the last line of the file is assumed.

`d` User-supplied text. Entered on a separate line after entering the continuation character and receiving the acknowledgement *IP*. Terminated by the execution character. Maximum length is 511 characters.

The text must be enclosed in quotation marks; otherwise, data may be lost and misleading error messages printed.

## 4. SYSTEM RESPONSE

`IP` In Progress. The request was received and has been initiated.

`PF` Printout Follows. Followed by the `IN:F-REPL` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-DEL
```

Output Messages

```
DUMP:F-ALL
DUMP:F-PARTL
IN:F-APND
IN:F-DEL
IN:F-REPL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:FI-DIR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Creates a specified directory with read, write, and execute permissions for the owner, group and others (mode 777).

## 2. FORMAT

**`IN:FILESYS:DIR,FN "a"!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname of the directory to be created. See the *User Guidelines* in this document for definitions of pathname and directory. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `IN:FI-DIR` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`CLR:F-DIR`
`CLR:F-FILE`

Output Message
`IN:FI-DIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... IN:FSBUF
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Accumulates overwrites in a buffer that can later be used to overwrite 3B disk files.

## 2. FORMAT

[1] **IN:FSBUF:ADDR** a,**DATA** b,**OLDDATA** c!

[2] **IN:FSBUF:FN** "d",**OFFSET** e!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pfile virtual address to be overwritten. Must be aligned on a word boundary. |
| b | Full word of new data. |
| c | The expected old data. |
| d | The full pathname of the 3B disk file to be overwritten. |
| e | The offset into the 3B disk file where the virtual addressing starts. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |
| NG | No Good. |
| PF | Printout Follows. |

## 5. REFERENCES

Input Messages
CLR:FSBUF
COPY:FSBUF
DUMP:FSBUF

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . IN:OSOW
WORK CENTER . . MOC
GENERIC . . . . . 4AP21 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This should only be used as directed under the supervision of your technical support organization.**

## 1. PURPOSE

Manually enters the data for an overwrite in the inactive file.

Format 1 initiates the start of the overwrite process. **MERGE** option specifies that the overwrites are for the **MERGE** Identification (ID) only and must be file store addresses.

Format 2 implements main memory overwrites. The optional FSEG keyword is **MANDATORY** if the MMADR is in Windowed Store or in Segmented Memory. Format 2 cannot be used with Format 3 in the same overwrite process.

Format 3 implements file store overwrites. Format 3 cannot be used with Format 2 in the same overwrite process.

Format 4 updates hash sums and completes overwrite process.

Format 5 prints the contents of the overwrite buffer.

Format 6 aborts overwrite process without installing any overwrites. This command can be entered anytime during the overwrite process.

## 2. FORMAT

[1] **IN:OSOW:START [MERGE]!**

[2] **IN:OSOW [,FSEG** a**]:MMADR** b**,DATA** c**[,OLDDATA** d**]!**

[3] **IN:OSOW:FSADR** e**,DATA** c**[,OLDDATA** d**]!**

[4] **IN:OSOW:UPD[,HASHSUM** f**]!**

[5] **IN:OSOW:DUMP!**

[6] **IN:OSOW:ABORT!**

## 3. EXPLANATION OF MESSAGE

a — 1Bfile segment number in which the disk back-up data for the main memory address resides. Valid values are 0, 1, 2 or 3. The FSEG keyword followed by the file segment number is MANDATORY for

SEE PROPRIETARY NOTICE ON COVER PAGE

main memory addresses that are backed up in file segment 1, 2 or 3 (i.e. windowed store or segmented memory). This field will default to file segment 0.

`b` Absolute (up to 23 bit) main memory address at which overwrite is to start. Default data type is octal.

`c` List of the data to overwrite in octal. The number of arguments given determines the number of words to be overwritten. If more than one word is to be overwritten, the list of numbers must be enclosed in parentheses and separated by commas.

`d` If specified, this data will be compared to data currently in the system, and if a mismatch occurs, the message will be rejected.

`e` Absolute (up to 25 bit) file store address at which overwrite is to start. Default data type is octal.

`f` The computed hash sums over the buffer must match the supplied hash sums before the update will take place.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

`?I` Input message error in id fields of input message (i.e. after first colon and before the second colon).

`?D` Input message error in the data fields of the input message (i.e. after second colon).

## 5. REFERENCES

Input Message
`IN:ACTOW`

Output Messages
`IN:ACTOW`
`IN:OSOW`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... IN:PBUF
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Accumulate overwrites in a buffer that can be used to overwrite 3B physical memory.

Adds an entry to an overwrite buffer that is accumulated with successive usage of this command.

## 2. FORMAT

**IN:PBUF:{UID** a|**PID** b|**PMEM**|**KERN}**,**ADDR** c,**DATA** d[,**OLDDATA** e][,**L** f]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The Utility ID of the process to be overwritten. |
| b | The Process ID of the process to be overwritten. |
| **PMEM** | The address will be a physical address. |
| **KERN** | The address will be in the kernel's address space. |
| c | Address to be overwritten, corresponding to the overwrite type. Must be aligned on a word boundary. |
| d | Full word of new data. |
| e | Full word of old data. |
| f | Number of words. Default is 1. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |
| NG | No Good. |
| PF | Printout Follows. |

## 5. REFERENCES

Input Messages
CLR:PBUF
COPY:PBUF
DUMP:PBUF
IN:PBUF

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
REPT:IN-PBUF
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:REM-REPT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a report about the current status of the active file receiving process.

## 2. FORMAT

**`IN:REMOTE:REPT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The message was successfully invoked; the `REPT:IN-REM` output message will follow.

`RL` Retry Later.

— `BAD MEMORY ALLOCATION`
Request cannot be executed due to insufficient memory.

## 5. REFERENCES

Input Messages
- `IN:REM-START`
- `IN:REM-STOP`
- `UPD:CLR`
- `UPD:VFY`

Output Messages
- `IN:REM`
- `IN:REM-ERROR`
- `IN:REM-INIT`
- `IN:REM-START`
- `IN:REM-STOP`
- `UPD:CLR`
- `UPD:VFY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... IN:REM-START
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Puts the computer in the remote-file-receive mode. This message should be entered immediately before ordering delivery of Broadcast Warning Message (BWM) files from the Software Change Administration and Notification System (SCANS-2), so that the transaction ID displayed in the `IN:REM` output message can be supplied in the order to SCANS-2. BWMs must begin to arrive at the computer within 24 hours. Response messages are printed when they are initially received or when this time limit is reached.

## 2. FORMAT

**`IN:REMOTE:START`**`[,`**`BSDIR`** `"a"][,`**`BLOCKS`** `b][,`**`VLEV`** `c]!`

## 3. EXPLANATION OF MESSAGE

`a` Full pathname of the base directory into which the received files are stored. See *User Guidelines* in this document for definitions of pathname and directory. Default is `/etc/bwm`.

`b` Number of blocks. The base directory is checked to ensure that at least the given blocks of space are available. Default is `100`.

`c` Verbose level (`0-546048`). The only value that has any effect is `1`, which prints the version number of the file receive process. Default is `0`.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The message has been successfully invoked. Followed by an `IN:REM-INIT` output message.

`RL` Retry Later.

— `BAD MEMORY ALLOCATION`
Request cannot be executed due to insufficient memory.

## 5. REFERENCES

Input Messages
- `IN:REM-REPT`
- `IN:REM-STOP`
- `UPD:CLR`
- `UPD:VFY`

Output Messages
- `IN:REM-ERROR`
- `IN:REM-INIT`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
IN:REM-START
IN:REM-STOP
UPD:CLR
UPD:VFY
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:REM-STOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the input of update files be terminated from a remote source. If file transmission has begun, a session-disconnect message is sent to the remote end to notify the Software Change Administration and Notification System (SCANS-2) of the termination.

## 2. FORMAT

**`IN:REMOTE:STOP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The message has been successfully invoked. Followed by `IN:REM-STOP` or `IN:REM-ERROR` output message.

`RL` Retry Later.

— `BAD MEMORY ALLOCATION`
Request cannot be executed now due to insufficient memory.

## 5. REFERENCES

Input Messages
- `IN:REM-REPT`
- `IN:REM-START`
- `UPD:CLR`
- `UPD:VFY`

Output Messages
- `IN:REM-ERROR`
- `IN:REM-INIT`
- `IN:REM-START`
- `IN:REM-STOP`
- `UPD:CLR`
- `UPD:VFY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:TDAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Allows access to the Traffic Data Administration System (**TDAS**) measurement data base via a datalink connection. This command inserts a user ID into the data base that is examined when a **TDAS** datalink session is being established. This command may also be used to change a password of an existing user ID.

All **TDAS** related messages are recorded in the log file TDASLOG and may be accessed using `OP:LOG;TDASLOG`. To get **IN:TDAS** messages from the log, use the `OP:LOG;TDASLOG:KW IN!` input command.

## 2. FORMAT

**IN:TDAS;USER** a,**PASSWORD** b!

## 3. EXPLANATION OF MESSAGE

a — User ID. Any ASCII character may be entered:

- B — Traffic Data Concentrator Unit (TDCU).
- D — Machine Administration Center (MAC).
- E — AT&T Communications southern region collection.

b — Password for User ID. It may be up to five ASCII characters. If characters are not all capital letters or numbers, put password in "".

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| PF | Printout Follows. Followed by the `IN:TDAS` output message. |
| RL | Retry Later. **TDAS** audit is running. |

## 5. REFERENCES

File Name
3bmeas

Input Messages
CLR:TDAS
OP:LOG

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
CLR:TDAS
IN:TDAS
OP:LOG
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . IN:XFER
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the remote file transfer system be either started or stopped. The remote file transfer system resides in the 3B processor. When this system is running, files may be transferred between it and a specific support computer.

## 2. FORMAT

**IN:XFER:{START|STOP}!**

## 3. EXPLANATION OF MESSAGE

**START** Start the remote file transfer system. Once started, the system is active for one transaction, 24 hours, or until stopped, whichever occurs first.

**STOP** Stop the remote file transfer system.

## 4. SYSTEM RESPONSE

NG No Good.

— NOT ACTIVATED
System is not running.

— PREVIOUS PASSWORD HAS EXPIRED
System was previously started, but the 24-hour time limit expired without an attempt to use it.

OK Good. System has been stopped.

— PASSWD = a
System has been started. Report the password a to the support person who requested this command be entered.

— PASSWD = b, EXPIRES c
System is running. Report the password and the expiration time to the support person who requested this command be entered.

PF Printout Follows. An IN:XFER output message follows.

## 5. REFERENCES

Output Message
IN:XFER

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:ADB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message inhibits the Automated Database Backup (**ADB**) from running.

## 2. FORMAT

**INH:ADB,APP** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Customer name. Only IBGTT is currently supported. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |

## 5. REFERENCES

Input Messages
ALW:ADB
OP:ADB
START:ADB
STOP:ADB

Output Message
INH:ADB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message inhibits a process so that it will not be recreated.

## 2. FORMAT

**`INH:AIM;PROC`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Internal **`AIM`** child process name. A list of valid process names can be obtained by using the `OP:AIM;PROC` command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Invalid process name was given. Use `OP:AIM;PROC` command to get list of valid process names. |
| `PF` | Printout Follows. Request was received and understood by **`AIM`**. The process is now inhibited. |

## 5. REFERENCES

Input Message
`OP:AIM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AMA-AUTOST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Blocks (manually) the Automatic Message Accounting (**AMA**) tape writing operations.

## 2. FORMAT

**INH:AMA;AUTOST[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

## 4. SYSTEM RESPONSE

IP In Progress. The **AMA** monitor process has been called to manually block automatic **AMA** tape writing sessions. When the request is complete, the contents of the **AMA** control file will be output.

NG No Good. Data stream checks failed.

RL Retry Later. A message could not be sent to the **AMA** monitor process. Try again later. If the problem persists, refer to the **AMA** Task Oriented Procedures (TOPS) procedure for further resolution.

## 5. REFERENCES

Input Messages
ALW:AMA-AUTOST
OP:AMA-CNTLFIL
OP:AMA-STREAM

Output Messages
REPT:AMA-CONT
REPT:AMA-CONTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AMA-SESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Blocks all Automatic Message Accounting (**AMA**) sessions or prevents the writing of **AMA** tapes.

## 2. FORMAT

**INH:AMA;SESSION[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

## 4. SYSTEM RESPONSE

IP In Progress. All **AMA** teleprocessing sessions will be rejected if the teleprocessing option is in effect. No **AMA** tapes will be written or verified if the tape option is in effect. When the request is complete, the contents of the **AMA** control file will be output.

NG No Good. Data stream checks failed.

RL Retry Later. The **AMA** monitor process could not be invoked to process the request. If the problem persists, refer to the **AMA** Task Oriented Procedures (TOPS) procedure for further resolution.

## 5. REFERENCES

Input Messages
ALW:AMA-SESS
OP:AMA-CNTLFIL
OP:AMA-STREAM

Output Messages
REPT:AMA-CONT
REPT:AMA-CONTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:AMA-SSPUNAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To turn off the Bell Operating Company (BOC) Service Switching Point (SSP) unanswered Telco study indicator so the unanswered Telco **AMA** records will be generated. Note the Telco records are intra-LATA records.

The unanswered Telco BOC SSP **AMA** records are only generated when the study is turned on, therefore, this message will prevent the unanswered Telco **AMA** records from being generated.

## 2. FORMAT

```
INH:AMA:SSPUNAS!
```

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Once the SSP unanswered study indicator is turned off, a message is output indicating the study has been inhibited. |

## 5. REFERENCES

Input Messages
```
ALW:AMA-SSPUNAS
OP:AMA-SSPUNAS
```

Output Messages
```
INH:AMA-SSPUNAS
REPT:AMA-SSPUNAS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting audits may result in degradation of associated operating system resources.**

## 1. PURPOSE

Inhibits the routine execution of one or more audits that are controlled by the System Integrity Monitor (SIM). Entering the **`INH:AUD`** command sets one or more audit inhibits to the manually inhibited state. This state can be removed only by entering an `ALW:AUD` command. Every audit inhibit is removed by a phase 3 bootstrap.

Separate inhibit states are provided for:

- All audits. Entering the **`INH:AUD`** command with the **`ALL`** option turns off routine audit scheduling completely, but has no effect on the inhibit states of individual audits.
- Each audit identified by audit name and member number. When an audit is inhibited it is not scheduled to run routinely. However, if it is permitted to run manually, it may be run by entering an `AUD:` command.
- One instance of an audit may be inhibited while other instances are allowed to run routinely.

Audit inhibit states may be displayed by entering the `OP:AUD` command. The `REPT:AUDSTAT` output message periodically reports which audits are inhibited.

## 2. FORMAT

**`INH:AUD:`**`{`**`ALL`**`|a [b]|a c,`**`INS`** `d}!`

## 3. EXPLANATION OF MESSAGE

**`ALL`** Specifies all audits controlled by the SIM. Sets a master inhibit state which is independent of the inhibit states for individual audits.

`a` Audit name. Computer audit names can be found in the Input Member Numbers Appendix, `APP:MEM-NUM-B`.

**NOTE:** If `a` is specified without `b`, all members of the audit will be inhibited.

`b` Member number. May be specified as a single number or a list of numbers. (See the Input Member Numbers Appendix, `APP:MEM-NUM-B`.) See the *User Guidelines* in this document for instructions on entering lists of numbers.

SEE PROPRIETARY NOTICE ON COVER PAGE

`c` Single member number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-B`.)

`d` Instance name. See the System Audits chapter in the System Maintenance Manual.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, `APP:AUD`.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

PA-4C006-01 *System Audit Guide*

Input Appendixes
`APP:AUD`
`APP:MEM-NUM-B`

Input Messages
`ALW:AUD`
`OP:AUD`

Output Messages
`OP:AUD`
`INH:AUD`
`REPT:AUDSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:CONFLOG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Inhibits error logging on the **CONFLOG** error logfile for all specified computer units. Error logging does not occur for any unit beneath the unit specified.

## 2. FORMAT

**INH:CONFLOG;**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name, as specified in the Unit Control Block (UCB). Computer names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number, as specified in the unit control block. (See the Input Member Numbers Appendix, APP:MEM-NUM-C.) |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. Message syntax is invalid or the unit name or number does not exist in the Equipment Configuration Database (ECD). |
| OK | Good. Request accepted. |
| PF | Printout Follows. Followed by an INH:CONFLOG output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Appendix
APP:MEM-NUM-C

Input Message
ALW:CONFLOG

Output Message
INH:CONFLOG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message inhibits the Data Consistency Check (DCC) capability. Format 1 inhibits all customer units from using the **DCC** capability.

Format 2 inhibits only individual customer units from the **DCC** capability.

## 2. FORMAT

[1] **INH:DCC!**

[2] **INH:DCC,APP** a!

## 3. EXPLANATION OF MESSAGE

a — The name of the APPDB customer unit for which **DCC** is to be inhibited. Currently, IBGTT is the only **APP** keyword argument supported.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
- ACTV:DCC
- ALW:DCC
- DEACTV:DCC
- OP:DCC
- START:DCC
- STOP:DCC
- VER:DCC

Output Message
- INH:DCC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:DCNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Inhibits the routine and software execution of one or more audits for a particular D-Channel Node (DCN) or for all DCNs. Entering the **INH:DCNAUD** command sets one or more DCN audits in inhibited state. This state can be removed only by entering an ALW:DCNAUD input message.

Separate inhibit states are provided for:

- All audits. Entering the **INH:DCNAUD** input message with the **ALL** (all audits) option turns off routine and software audit scheduling completely. However, audits are permitted to run manually, and may be run by entering an AUD:DCNAUD command.
- Each audit. Identified by audit number. When an audit is inhibited it is not scheduled to run in routine and software mode. However, it is permitted to run manually, and may be run by entering an AUD:DCNAUD command.
- All DCN's. Entering the **INH:DCNAUD** input message with the **ALL** (all DCNs) option turns off routine and software audit scheduling completely for all DCNs. However, audits are permitted to run manually, and may be run by entering an AUD:DCNAUD command.
- Each DCN. Entering the **INH:DCNAUD** input message with **LN**b c option turns off routine and software audit scheduling completely for the requested DCN. However, audits are permitted to run manually, and may be run by entering an AUD:DCNAUD command.

Audit inhibit states may be displayed by entering the OP:DCNAUD input message. The REPT:DCNAUDSTAT output message periodically reports which audits are inhibited.

**NOTE:** If the request is for **ALL** DCNs, then the output from each node will be printed on a separate output message.

## 2. FORMAT

**INH:DCNAUD** {a|**ALL**};{**LN**b c|**ALL**}!

## 3. EXPLANATION OF MESSAGE

a DCN audit member number:
1 — Data Blocks audit.
2 — User Call Reference Value (CRV) Table audit.
3 — Network CRV Table audit.
4 — Channel ID Table audit.
5 — Idle Data Blocks List audit.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| **ALL** | All DCN audits. |
| b | DCN group number. |
| c | DCN member number. |
| **ALL** | All DCN nodes. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. |
| | — INVALID AUDIT<br>Invalid audit member number. |
| | — GRP/MEM OUT OF RANGE<br>Invalid group or member number. |
| NG | No Good. |
| | — DCNAP DOES NOT EXIST<br>The D-Channel Node Agent Process (DCNAP) process does not exist. |
| RL | Retry Later. |
| | — SEND MSG TO DCNAP FAIL<br>Send message to DCNAP process failed. |
| PF | Printout Follows. Followed by INH:DCNAUD output message. |

## 5. REFERENCES

Input Messages
- ALW:DCNAUD
- AUD:DCNAUD
- OP:DCNAUD

Output Messages
- ALW:DCNAUD
- INH:DCNAUD
- OP:DCNAUD

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:DLNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this command may jeopardize the database integrity which could lead to lost calls.**

## 1. PURPOSE

Inhibits application database audits.

## 2. FORMAT

**`INH:DLNAUD,APP {IBGTT|PCPGTT|ATP|ALL};AUD {REHASH|ALL}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`IBGTT`** | Inbound global title translation. |
| **`PCPGTT`** | Positive call processing global title translation. |
| **`ATP`** | AT&T Trigger Platform (ATP) data tables. |
| **`ALL`** | All application database audits or all audit types. |
| **`REHASH`** | Background hash of data. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The `INH:DLNAUD` output message follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages
`ALW:DLNAUD`
`OP:DLNAUD`

Output Messages
`ALW:DLNAUD`
`INH:DLNAUD`
`OP:DLNAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:DMQ-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting automatic maintenance requests may result in hardware units remaining Out-Of-Service (OOS) longer than necessary.**

## 1. PURPOSE

Inhibits the specified source of automatic maintenance requests. Any process that sends a restore, remove, or diagnose request to the computer maintenance input request administrator can be prevented from doing so for the amount of time specified. A reminder that a specific inhibit is in effect is output at the specified intervals.

**NOTE:** The automatic maintenance requests will remain inhibited until the appropriate `ALW:DMQ-A` or, in the case of Routine Exerciser (REX), an `ALW:REX` input message is issued.

## 2. FORMAT

**`INH:DMQ;SRC`** `a[`**`,TINH`** `b][`**`,AINH`** `c]!`

## 3. EXPLANATION OF MESSAGE

`a` Three-character computer source name:

- `ADP` — Automatic diagnostic process.
- `ALL` — Inhibits all automatic maintenance requests by changing the inhibited sources to ALL.
- `ARR` — Automatic ring recovery.
- `REX` — Routine exerciser.

`b` The amount of time, in minutes (`1 - 32767`), that the requests will be inhibited. The default is infinity. Specifying zero is the same as defaulting.

`c` Alarm interval in minutes (`1 - 32767`). Each time this period elapses, a `REPT:DMQ` output message will be printed, indicating the inhibit that is in effect. The default is five minutes.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `?E` | Error exists in the message but cannot be resolved to the proper field. |
| `?I` | Identification field contains an error. Followed by the parameter position and one of the following keywords:<br>— `EXTRA KEYWORD`<br>Duplicate or extraneous keywords were input.<br>— `INVALID DATA`<br>Not a valid value for the AINH or TINH value.<br>— `INVALID KEYWORD`<br>The keyword in the stated parameter position is not a valid keyword.<br>— `MISSING KEYWORD`<br>A required keyword is missing from the input. |
| `OK` | Good. Request accepted. |
| `RL` | Retry Later. The system is in an overload condition. |

## 5. REFERENCES

Input Messages

`ALW:DMQ-A`
`ALW:REX`
`OP:DMQ`

Output Messages

`INH:DMQ`
`OP:DMQ`
`REPT:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:DMQ-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Inhibiting automatic maintenance requests may result in hardware units remaining Out-Of-Service (OOS) longer than necessary.**

## 1. PURPOSE

Inhibits the specified source of diagnostic requests. Any process that sends a restore, remove, or diagnose request to the Maintenance Input Request Administrator (MIRA) can be prevented from doing so for the amount of time specified. A reminder that a specific inhibit is in effect is output at the specified intervals.

**NOTE:** The automatic maintenance requests will remain inhibited until the appropriate `ALW:DMQ-B` or, in the case of Routine Exercises (`REX`), an `ALW:REX` input message is issued.

## 2. FORMAT

**`INH:DMQ;SRC`** `a[`**`,TINH`** `b][`**`,AINH`** `c]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Three-character source name:

- `ADP` — Automatic diagnostic process.
- `ALL` — Inhibits all automatic maintenance requests by changing the inhibited sources to `ALL`.
- `ARR` — Automatic ring recovery.
  **NOTE:** For the `ARR` case, automatic unconditional restores are not inhibited.
- `CNR` — Critical Node Restore (End Isolated Segment/Begin Isolated Segment [EISO/BISO] restore).
- `ISR` — Interprocess Message Switch User Node (IUN) Soak Restore.
- `REX` — Routine exerciser.

`b` The amount of time, in minutes (`1-32767`), that the requests will be inhibited. The default is infinity. Specifying zero is the same as defaulting.

`c` Alarm interval in minutes (`1-32767`). Each time this period elapses, a `REPT:DMQ` output message will be printed, indicating the inhibit that is in effect. The default is five minutes.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following keywords:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID DATA`
Not a valid value for the AINH or TINH value.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`OK` Good. Request accepted.

`PF` Printout Follows.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Input Messages
`ALW:DMQ-B`
`ALW:REX`
`OP:DMQ`

Output Messages
`INH:DMQ`
`OP:DMQ`
`REPT:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:EAIINT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting EAI error interrupts can prevent the system from recovering automatically from hardware faults.**

## 1. PURPOSE

Inhibits the logging and processing of Emergency Action Interface (EAI) error interrupts from the 3B21D computer Control Unit (**CU**) specified in the identification field. If a **CU** is not specified with the input command, EAI error interrupts for both **CU**s are inhibited.

**NOTE:** The 3B20D/3B21D computer **CU**s do not have EAI error interrupts.

## 2. FORMAT

[1] **INH:EAIINT!**

[2] **INH:EAIINT;CU** a!

## 3. EXPLANATION OF MESSAGE

a — **CU** number (0–1).

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— INPUT ERROR

PF — Printout Follows. Followed by the INH:EAIINT output message.

## 5. REFERENCES

Input Messages
ALW:ERRCHK
INH:EAIINT
INH:ERRCHK

Output Messages
ALW:EAIINT
INH:EAIINT
OP:ERRCHK

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:ERRCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting hardware checks, software checks, and error interrupts can prevent the system from recovering automatically from hardware or software faults.**

## 1. PURPOSE

Inhibits the logging and processing of all computer error sources. This message causes the inhibit administrator to set the inhibit status to inhibited for all computer inhibit sources. These include HDWCHK, SFTCHK, EAIINT, ERRINT, and the ERRSRC pseudo-nodes representing the Control Unit (CU) complexes.

**NOTE:** The 3B20D/3B21D computer CUs do not have Emergency Action Interface (EAI) Error Interrupts (EAIINT).

## 2. FORMAT

**`INH:ERRCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `INH:ERRCHK` output message. |

## 5. REFERENCES

Input Messages
- `ALW:ERRCHK`
- `INH:EAIINT`
- `INH:ERRINT`
- `INH:ERRSRC`
- `INH:HDWCHK`
- `INH:SFTCHK`
- `OP:ERRCHK`

Output Messages
- `ALW:ERRCHK`
- `INH:ERRCHK`
- `OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:ERRINT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting error interrupts can prevent the system from recovering automatically from hardware faults.**

## 1. PURPOSE

Inhibits the logging and processing of error interrupts attached to the computer unit specified in the identification field. If a unit name is not specified, then error interrupts for all computer units are inhibited.

## 2. FORMAT

**`INH:ERRINT`**`[;{a b[,c d]}]!`

## 3. EXPLANATION OF MESSAGE

`a` Unit name. Computer unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`.

**NOTE:** Inhibiting a Control Unit (CU) in an active/standby duplex configuration inhibits both CUs since they must be kept in identical states.

`b` Unit number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-C`.)

`c` Subunit name. If Unit name is CU, subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`.

`d` Subunit number. (See the Input Member Numbers Appendix, `APP:MEM-NUM-D`.)

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INPUT ERROR`
Possibly indicates the unit name and number specified cannot be found in the database.

`NG` No Good.

— `UNEQUIPPED UNIT`
Indicates unit name and number specified was found in the database, but is unequipped.

`PF` Printout Follows. Followed by the `INH:ERRINT` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
- `APP:MEM-NUM-C`
- `APP:MEM-NUM-D`

Input Messages
- `ALW:ERRCHK`
- `INH:ERRCHK`
- `INH:ERRINT`

Output Messages
- `ALW:ERRINT`
- `INH:ERRINT`
- `OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:ERRSRC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Inhibits the logging and processing of errors specific to the pseudo-nodes representing the computer Control Unit (CU) communities. This message causes the inhibit administrator to set the inhibit status to inhibited for the CU pseudo-nodes.

## 2. FORMAT

**`INH:ERRSRC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `INH:ERRSRC` output message. |

## 5. REFERENCES

Input Messages
`ALW:ERRSRC`
`INH:ERRCHK`
`OP:ERRCHK`

Output Messages
`ALW:ERRSRC`
`INH:ERRSRC`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:F-UMOUNT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command can prevent the system from accessing needed files.**

## 1. PURPOSE

Inhibits the use of a previously mounted file system. It informs the system that the removable file system previously mounted is to be removed.

## 2. FORMAT

```
INH:FILESYS:UMOUNT,FN "a"!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Special device name of the file system to be unmounted. See *User Guidelines* in this document for definitions of special device name and pathname. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `INH:F-UMOUNT` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`ALW:F-MOUNT`
`OP:ST-FILESYS`

Output Messages
`INH:F-UMOUNT`
`OP:ST-FILESYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message inhibits the File Transfer and Activation (**FTA**) capability. Files cannot be transferred or activated via **FTA** when it is inhibited. **FTA** can be inhibited on a customer application basis.

Format 1 inhibits all customers from using the **FTA** capability.

Format 2 inhibits only individual customers from the **FTA** capability.

## 2. FORMAT

[1] **INH:FTA!**

[2] **INH:FTA,APP** a!

## 3. EXPLANATION OF MESSAGE

a — The name of the **FTA** customer for which **FTA** is to be inhibited. Either:

CORE
IBGTT
OBGTT (Refers to the PCP customer)

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
ALW:FTA
OP:FTA
START:FTA
STOP:FTA

Output Messages
ALW:FTA
INH:FTA
OP:FTA
START:FTA
STOP:FTA

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:HDWCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting hardware checks can prevent the system from recovering automatically from hardware faults in the active Control Unit (CU).**

## 1. PURPOSE

Sets the system status register such that a Control Unit (CU) switch is not implemented as a normal fault recovery action. This inhibits a switch to the standby computer control unit when a fault occurs in the active computer control unit.

## 2. FORMAT

```
INH:HDWCHK!
```

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `INH:HDWCHK` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`ALW:HDWCHK`
`INH:ERRCHK`
`OP:ERRCHK`

Output Messages
`ALW:HDWCHK`
`INH:HDWCHK`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:ICDR-SESSION
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Blocks all International Call Detail Recording (ICDR) teleprocessing sessions.

## 2. FORMAT

**`INH:ICDR;SESSION!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`IP` In Progress. All **`ICDR`** teleprocessing sessions will be rejected. When the request is complete, the contents of the **`ICDR`** control file will be output.

`RL` Retry Later. The **`ICDR`** monitor process could not be invoked to process the request. If the problem persists, refer to the ICDR TOPS procedure for further resolution.

## 5. REFERENCES

Input Messages
- `ALW:ICDR-SESSION`
- `OP:ICDR-CONTROL`
- `OP:ICDR-RECORD`

Output Messages
- `REPT:ICDR-CONT`
- `REPT:ICDR-CONTAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:IMSMEAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This message is used to administer and display the Interprocess Message Switch (IMS) measurements inhibit flag. If the IMS measurements inhibit flag is ON, the only IMS measurements which will be available are the IMS office measurements, the RPC node measurements, and the IMNPDIF, OOSCFG, OOSCFGT, OOSAU, OOSAUT, OOSMN, and OOSMNT IUN measurements.

## 2. FORMAT

**`INH:IMSMEAS:`**`a!`

## 3. EXPLANATION OF MESSAGE

`a` Request type:

- `OFF` — Turns the inhibit OFF, permitting collection and accumulation of all IMS measurements.
- `ON` — Turns the inhibit ON, prohibiting collection and accumulation of certain IMS measurements.
- `STATUS` — Displays the current status of the inhibit flag.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Output Message
`INH:IMSMEAS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... INH:PSLT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

This input message sets, resets or requests the status of the inhibit for the Periodic Signaling Link Test (**PSLT**). When the inhibit is ON for any particular link, periodic signaling link tests for that link are not done. When the inhibit is OFF periodic tests are run.

## 2. FORMAT

**INH:PSLT {ALL|DOM|INTL|(a,b)};c!**

## 3. EXPLANATION OF MESSAGE

a — Group number (0 - 63).

b — Member number (1 - 15).

c — Request type:

OFF — The **PSLT** is allowed.

ON — The **PSLT** is inhibited.

STATUS — Requests the status of the links that are inhibited.

## 4. SYSTEM RESPONSE

PF — Printout Follows. The system outputs a report for the requested link(s).

## 5. REFERENCES

Output Message
INH:PSLT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:RCV
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To administer and display the recent change inhibit flag.

## 2. FORMAT

**`INH:RCV:`**`a!`

## 3. EXPLANATION OF MESSAGE

`a` Inhibit command:

`OFF` — Permits recent change activity.

`ON` — Prohibits recent change activity.

`STATUS` — Displays the current status of the inhibit flag.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `INH:RCV` output message.

## 5. REFERENCES

Output Message
`INH:RCV`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:RCV-APPDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Invokes the "DLN Inhibit" feature and the GTT10D Recent Change inhibits.

Format 1 activates the "DLN Inhibit" feature, inhibiting recent changes to the Inbound GTT10D Database until the inhibit is turned "off" with the ALW:RCV-APPDB command or via the "DLN Inhibit" trigger in the GTT10D Recent Change software.

Format 2 activates the "non-DLN Inhibit" GTT10D RC inhibits. This inhibits specific customer recent changes (or ALL) to the GTT10D Database without invoking the emergency alarms associated with the "DLN Inhibit" feature. These inhibits are useful when making GTT10D Database backups, when initializing the database, or any time the user needs the database or a particular customer's database unit to be in a "quiescent state."

## 2. FORMAT

[1] **`INH:RCV:APPDB!`**

[2] **`INH:RCV:APPDB,APP a!`**

## 3. EXPLANATION OF MESSAGE

`a` Type:

`ALL` — For allowing all listed choices.

`ATP` — For allowing AT&T Trigger Platform (ATP) Recent Change

`IBGTT` — For allowing 800 and 900 service Recent Change

`PCPGTT` — For allowing PCP GTT service Recent Change

**NOTE:** When one GTT10D RC customer is inhibited, this has no effect on other GTT10D RC customers, unless the `ALL` keyword argument is used.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ALW:RCV-APPDB
COPY:APPDB
INIT:APPDB
OP:INH-APPDB
```

Output Messages

```
ALW:RCV-APPDB
INH:RCV-APPDB
OP:INH-APPDB
RC:MISC-FHT-FTA
REPT:INH-RCV-APPD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:REPORT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Administers and displays the reports inhibit flag. If the reports inhibit flag is `ON`, measurement reports are inhibited.

## 2. FORMAT

**`INH:REPORT:`**`a`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Displays the reports inhibit flag:

`ON` — Turns the inhibit `ON`, prohibiting measurement reports but allowing measurement collection. When the inhibit is `ON`, the message `MEASUREMENT REPORTS ARE INHIBITED` is output once every 30 minutes (approximately).

`OFF` — Turns the inhibit `OFF`, allowing measurement reports.

`STATUS` — Displays the current status of the inhibit flag.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Output Message
`INH:REPORT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:REX
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Inhibits Routine Exercise (**REX**) for one or more hardware communities by setting the **REX** temporary inhibit(s). A hardware community consists of a major device controller and its associated subdevices. If a hardware community has **REX** permanently inhibited, its **REX** temporary inhibit is not available.

## 2. FORMAT

**INH:REX:**{a[b]|**ALL**}**!**

## 3. EXPLANATION OF MESSAGE

a — Unit name of a major community controller. Applications may add additional major controllers which may be inhibited by this command. Computer controllers are:

- CU — Control unit.
- DCI — Dual serial channel/computer interconnect. Input/output processor.
- IOP — Input/output processor.

b — Unit number. (See the Input Member Numbers Appendix, APP:MEM-NUM-C.) If not specified, then all controllers with the specified unit name are inhibited.

**ALL** — Set the temporary **REX** inhibits for all major community controllers that are not permanently inhibited from **REX**.

## 4. SYSTEM RESPONSE

OK — Good. **REX** is temporarily inhibited for the unit specified, or for at least one of the units specified.

NG — No Good. **REX** is permanently inhibited for the unit specified, or for all the units specified.

?D — Data field contains an error.

PF — Printout Follows. Followed by the INH:REX output message.

RL — Retry Later. The database manager or a database record could not be opened, try again at a later time. If this persists, seek technical assistance.

## 5. REFERENCES

Input Appendix
APP:MEM-NUM-C

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:DMQ-A
ALW:REX
INH:DMQ-A
OP:DMQ
OP:REXINH
```

Output Messages

```
INH:REX
OP:DMQ
OP:REXINH
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:REX-RPCD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Inhibit Routine Exercises (**REX**) of **RPCD** (Direct Link Nodes) nodes.

## 2. FORMAT

**INH:REX:RPCD**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (1–15). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Usually invalid unit name. |
| OK | Good. Routine exercises are inhibited for the **RPCD** specified. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-220, *System Diagnostic - Description*, 3B20D/3B21D Processor Section

Input Messages
ALW:REX
ALW:REX-RPCD
OP:REXINH

Output Messages
OP:DMQ
OP:REXINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:REX-RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Inhibit Routine Exercises (**REX**) of RPCN nodes.

## 2. FORMAT

**INH:REX:RPCN**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (0). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Usually invalid unit name. |
| OK | Good. Routine exercises are inhibited for the RPCN specified. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046, *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-220, *System Diagnostic - Description*, 3B20D/3B21D Processor Section

Input Messages
ALW:REX
ALW:REX-RPCN
OP:REXINH

Output Messages
OP:DMQ
OP:REXINH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:RMV
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This message is used to administer and display the link removal inhibit flag.

## 2. FORMAT

**INH:RMV:**a**!**

## 3. EXPLANATION OF MESSAGE

a — Displays the link removal inhibit flag:

- OFF — Turns the inhibit OFF, permitting link removal for diagnostics.
- ON — Turns the inhibit ON, prohibiting link removal for diagnostics after link failure.
- STATUS — Displays the current status of the inhibit flag.

## 4. SYSTEM RESPONSE

See Explanation of Message.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual*
Analog Signaling Link Operating Procedures Section
Digital Signaling Link Operating Procedures Section

Output Message
INH:RMV

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

Inhibits the specified RGRASP breakpoint(s). Format 1 inhibits all breakpoints in the specified node.

Format 2 inhibits a specific breakpoint in the specified node.

An attempt will be made to inhibit the specified breakpoint in the specified node. The user will be informed about the result of this operation.

The specified breakpoint(s) will remain inhibited (disabled) until enabled via the `ALW:RUTIL` input command or removed by the `CLR:RUTIL` input command.

## 2. FORMAT

[1] **`INH:RUTIL(a,b),AP!`**

[2] **`INH:RUTILFLAG(a,b),AP;BP c!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0 - 63`). |
| `b` | Member number (`1 - 15`). |
| `c` | The specific breakpoint to be inhibited. |

## 4. SYSTEM RESPONSE

See Purpose.

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures Section

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
ALW:RUTIL
CLR:RUTIL
OP:RUTIL
WHEN:RUTIL
```

Output Message

```
INH:RUTIL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... INH:SCSD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Inhibits reporting of transitions of a Scanner And Signal Distributor (**SCSD**) scan point. Scan points can be identified by physical location (as in Format 1) or by logical address (as in Format 2).

## 2. FORMAT

[1] **INH:SCSD;UNIT** a:**PT**{b|(b,b[,b,b,b,b,b,b...])}!

[2] **INH:SCSD;GRPN** "c",**DUPID** d:**PT**{e|(e,e[e,e,e,e])}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number of the **SCSD** unit (0–16). |
| b | Physical scan point number on an **SCSD** (0–47). |
| c | Name of the logical **SCSD** group. Examples are: FANACU0, FANACU1, PDF0, PRSWCU0, PRSWCU1, PRSWIOP0, PRSWIOP1, PRSWDFC0, PRSWDFC1, PRSWMHD0, PRSWMHD1, PTSWROP, PTSWMCR |
| d | Duplex point ID (0–1). |
| e | Number of a point within a logical group (0–5). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. **SCSD** administrator process is not active; no communication with **SCSD** points is possible. |
| PF | Printout Follows. Followed by the INH:SCSD output message. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-110 *DMERT Kernel and Basic Services Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
ALW:SCSD
OP:SCSD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
INH:SCSD
RCVRY:SCSDC
REPT:FAN
REPT:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INH:SFTCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Inhibiting software checks can prevent the system from recovering automatically from software faults, data corruption, or overload conditions.**

## 1. PURPOSE

Inhibits the use of system initialization when handling computer software errors.

## 2. FORMAT

**`INH:SFTCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `INH:SFTCHK` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`ALW:SFTCHK`
`INH:ERRCHK`
`OP:ERRCHK`

Output Messages
`ALW:SFTCHK`
`INH:SFTCHK`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:SLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This input message (obsolete for Common Network Interface [CNI] and Interprocess Message Switch [IMS]) sets, resets or requests the status of the alarm inhibit flag of a Signaling Link (**SLK**).

The alarm inhibit flag is conditioned in accordance with the input request for the specified **SLK** or the current status of the flag is reported.

Within the confines of CNI or IMS there is no "action" taken one way or the other with regard to this flag. The original purpose for this flag has never been implemented and is not used by any application. This command is considered obsolete by CNI and IMS.

## 2. FORMAT

**INH:SLK**(a,b);c!

## 3. EXPLANATION OF MESSAGE

a — Group number (0–63).

b — Member number (1–15).

c — Request type:

- ON — The alarm inhibit flag is turned ON.
- OFF — The alarm inhibit flag is turned OFF.
- STATUS — Requests the status of the alarm inhibit flag for the corresponding signaling link.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual* -
Analog Signaling Link Operating Procedures Section
Digital Signaling Link Operating Procedures Section

Input Message
REPT:SLK-INHALM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
INH:SLK
REPT:SLK-INHALM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:TRACE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

This command, along with `ALW:TRACE`, forms the basic on/off mechanism for trace. Once this command is issued, trace will do nothing (except consume a certain amount of fixed overhead) until the `ALW:TRACE` command is issued. A copy of the trace parameter settings is retained so that the user can reactivate trace without having to input the parameters again. If desired, the parameters may be changed before reactivation via `SET:TRACE`.

The TRACE craft process **`INH:TRACE`**:

1. Joins the terminate class associated with **`TRACE`** process `tdcp.p`. The craft process will be aborted whenever `tdcp.p` is aborted by its owner, which may be either Interprocess Message Switch (IMS) or an application.
2. Zeroes the user-detail-flag structure and the global trace-activity flag in the 3B.
3. Sends a zeroed Local Trace Control Block structures to all Node Processors (NPs).
   **NOTE:** The IMS driver process must be running before trace updates can be sent to the NPs.

## 2. FORMAT

**`INH:TRACE!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`ALW:TRACE`
`OP:TRACE`
`SET:TRACE`

Output Messages
`ALW:TRACE`
`INH:TRACE`
`OP:TRACE`
`REPT:TRACE`
`SET:TRACE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:TRAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

The `INH:TRAP` command allows an active trap to be temporarily suspended.

## 2. FORMAT

**`INH:TRAP;`**`{a|(a,...)|`**`ALL`**`}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Trap identification number specified as a single id or a list of ids (`0-126`). |
| **`ALL`** | All trap identification numbers. |

## 4. SYSTEM RESPONSE

Traps will be inhibited at the nodes for the specified identification numbers. The appropriate diagnostic/error messages will be printed. The amount of time a trap is suspended will not be included in the duration of the trap.

## 5. REFERENCES

Input Message
`SET:TRAP`

Output Message
`INH:TRAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Causes the computer Generic Access Package (GRASP) transfer trace to stop monitoring the flow of execution. The transfer trace goes into the `STOPPED` state with successful completion of the message. This message can be called as an immediate action, or it can be used in the action list of a `WHEN`.

## 2. FORMAT

**`INH:UMEM`**`{/|!}`

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `NG` | No Good. No trace is defined. |
| `PF` | Printout Follows. Followed by an `INH:UMEM` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `ALW:UMEM`
- `INIT:UMEM`
- `OP:UMEM`
- `OP:UTIL`
- `WHEN:PID`
- `WHEN:UID`

Output Messages
- `INH:UMEM`
- `OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Disables (but leaves defined) all computer Generic Access Package (GRASP) breakpoints. Inhibits the associated actions normally executed when the breakpoint conditions occur.

## 2. FORMAT

**`INH:UTIL`**`{!|/}`

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `NG` | No Good. No GRASP breakpoints are currently defined. |
| `PF` | Printout Follows. Followed by an `INH:UTIL` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `ALW:UTIL`
- `INH:UTILFLAG`
- `OP:UTIL`
- `OP:UMEM`
- `WHEN:PID`
- `WHEN:UID`

Output Messages
- `INH:UTIL`
- `OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INH:UTILFLAG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Disables (but leaves defined) a specific computer Generic Access Package (GRASP) breakpoint. Inhibits the associated actions that normally are executed when the breakpoint condition occurs. Within a `WHEN` action list, the identifier **`ME`** can be used to refer to the breakpoint being defined, since the breakpoint number has not yet been assigned.

## 2. FORMAT

**`INH:UTILFLAG`** `{a|`**`ME`**`}{!|`**`/`**`}`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Numeric identifier (one or more decimal digits) of the breakpoint to be disabled. |
| **`ME`** | Used within a `WHEN` action list to refer to the breakpoint being defined. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `NG` | No Good. Identifier does not correspond to a currently defined breakpoint. |
| `PF` | Printout Follows. Followed by an `INH:UTILFLAG` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`ALW:UTILFLAG`
`INH:UTIL`
`OP:UTIL`
`OP:UMEM`
`WHEN:PID`
`WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
INH:UTILFLAG
OP:UTIL
WHEN:PID
WHEN:UID
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:APDRV
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Causes the Attached Processor Driver (**APDRV**) process to go through the requested level of initialization. Because this input message may result in both Attached Processor Interface (API) units being reconfigured, it should be used ONLY when a condition exists requiring that the **APDRV** process be restarted.

## 2. FORMAT

**INIT:APDRV:{DATAI|APII|FPI}!**

## 3. EXPLANATION OF MESSAGE

**DATAI** **APDRV** DATA Initialization.
This is the lowest level of **APDRV** initialization. This level of initialization will abort in-progress diagnostics and audits and detach and reattach the APIs to interrupts. **APDRV** error codes `X'1a0` and `X'1a1` will report that each API was detached and attached from/to interrupts. DATAI initialization will not have any effect on the APIs nor in-progress DMA jobs. The APIs will not be removed from service not reconfigured.

**APII** **APDRV** API+DATA Initialization.
This is the next highest level of **APDRV** initialization. This level of initialization will abort in-progress diagnostics and audits and initialize the API hardware. As a result, both API units will be reconfigured. This will result in a Base Level Maintenance (BLM) report at the 1B Processor for each API. Normal system operation will be achieved.

**FPI** **APDRV** Full Process Initialization.
This is the highest level of **APDRV** initialization. This level of initialization will abort in-progress diagnostics and audits, initializes the API hardware, initializes all **APDRV** buffers, and reopens the 1B files on the 3B20D disks. As with **APII** initialization, this level of initialization will result in both APIs being removed from service and BLM reports at the 1B Processor for each API.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

— `EXTRA DATA`
Extra data for keyword in data field.

— `EXTRA KEYWORD`
Extra keyword in data field.

— `INVALID KEYWORD`
Invalid keyword in data field.

— `MISSING KEYWORD`
Missing keyword in data field.

`?I` Identification field contains an error.

— `EXTRA KEYWORD ID1`
Extra keyword in 1st identification field.

— `EXTRA KEYWORD ID2`
Extra keyword in 2nd identification field.

— `EXTRA KEYWORD ID3`
Extra keyword in 3rd identification field.

`OK` Good. APDRV initialization requested.

## 5. REFERENCES

Output Messages
`REPT:APDRV-ERR`
`REPT:APDRV-INIT`
`REPT:API-ERR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:APPDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This message should be used with discretion. A loss of service may result from improper use.**

## 1. PURPOSE

This input message initializes the application database. The application database resides in special device file `dev/appdb0`. The database is pumped to Direct Link Node (DLN) nodes and is used for call processing services. This command resets the database to an initial state. The database will contain NO call processing (customer) information. This message should only be used for new start database applications or for extreme database corruption. If database reasonableness checks pass, then the SID keyword must be supplied.

Since the **`APPDB`** database file being initialized should be quiescent (not changing), the user should make sure that the proper inhibits are placed on the database if the database being initialized is the ACTIVE (/dev/appdb0) database.

The **`SID`** keyword and argument are only required if the partition to be initialized is the ACTIVE partition and the ACTIVE partition currently contains a valid database format (either "old" or "new" formats.)

## 2. FORMAT

**`INIT:APPDB`**`[,SID a];[`**`OLD`**`|`**`ACT`**`|`**`SHADOW`**`|`**`SCRATCH`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Password, based on the day of the month. See support personnel for the specific value. |
| **`OLD`** | The ACTIVE (`dev/appdb0` partition is initialized with the "old" format.) |
| **`ACT`** | The ACTIVE (`dev/appdb0` partition is initialized with the "new" format.) |
| **`SHADOW`** | The backup (`dev/appdb1` partition is initialized with the "new" format.) |
| **`SCRATCH`** | The scratch pad (`dev/appdb2` partition is initialized with the "new" format.) |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. `INIT:APPDB` output message will follow. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
INH:DLNAUD
INH:RCV-APPDB
VER:GTT
VER:MEMORY
```

Output Message

```
INIT:APPDB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:ATPCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input command removes and restores the ATP ring nodes sequentially in a non-service affecting manner. It is useful for applying field updates to the ATP nodes. Before this input message can be used, both ATP nodes must be in-service with one node in the ACTIVE state and one node in the STANDBY state.

## 2. FORMAT

**`INIT:ATPCM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `ATPCM CANNOT PROCESS REQUEST`
**`ATPCM`** internal error prevents request from being processed.

— `ATPCM DOES NOT EXIST`
The kernel process **`ATPCM`** is not running.

— `OST CALL`
Operating system trap call to **`ATPCM`** failed.

`PF` Printout Follows. Followed by `SW:ATP` output message.

`RL` Retry Later.

— `ATP NODE 0 IS NOT ACT/STBY`
One of the ATP nodes (node 0) is not in the ACTIVE or STANDBY state. One ATP node must be ACTIVE and the other STANDBY state in order for this input command to succeed.

— `ATP NODE 1 IS NOT ACT/STBY`
One of the ATP nodes (node 1) is not in the ACTIVE or STANDBY state. One ATP node must be ACTIVE and the other STANDBY state in order for this input command to succeed.

— `ATP NODES NOT ACT/STBY`
The ATP nodes are not in the ACTIVE and STANDBY states. One ATP node must be ACTIVE and the other STANDBY state in order for this input command to succeed.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `RING INITIALIZATION IN PROGRESS`
Cannot process request because CNI ring initialization is in progress.

— `UNKNOWN RESPONSE FROM ATPCM`
**`ATPCM`** responded improperly.

## 5. REFERENCES

Output Message
`INIT:ATPCM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:CIFMT
WORK CENTER . . MOC
GENERIC . . . . . 4AP20 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Initializes the Call Irregularity Formatter Daemon (CIFmt) Process. This action sends a message to the CIFmt daemon to terminate itself. It will then be restarted by the UNIX® Level Automatic Restart Process (ULARP) in the 3B21D complex.

## 2. FORMAT

**`INIT:CIFMT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`OK` Good. Indicates a successful attempt to initialize the Call Irregularity Formatter Daemon (CIFmt).

`RL` Retry Later. Indicates a failed attempt to initialize the Call Irregularity Formatter Daemon (CIFmt). All error conditions require technical assistance to be resolved as stated in the message sent to the ROP.

## 5. REFERENCES

None

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:DLNCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this input message may result in loss of service (calls).**

## 1. PURPOSE

Initializes and starts message transport for the API-DLN stream, or completely repumps each equipped Direct Link Node (DLN).

Format 1 initializes the API-DLN data stream in a particular direction, either 1B outgoing, 1B incoming or both directions. If the direction is not specified, direction will be defaulted to BOTH.

Format 2 completely repumps all DLN nodes in the Common Network Interface (CNI) ring. It is used when applying a Broadcast Warning Message (BWM) that changes DLN operational software.

Format 3 pumps the application database to the standby DLN nodes. It is used when converting the database from one form to another (e.g., from a GTT type to a GTT Restructure type).

## 2. FORMAT

[1] **`INIT:DLNCM,STREAM`**`[;a]`**`!`**

[2] **`INIT:DLNCM,PUMP,ALL,GEN`**`[,WTIME b]`**`!`**

[3] **`INIT:DLNCM,PUMP,STBY,APPDB`**`[,WTIME b]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Direction:

`BOTH` — Both directions.

`ONEAIN` — 1B incoming.

`ONEAOUT` — 1B outgoing.

`b` Decimal number of seconds to soak the configuration (default of `30` seconds).

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`NG` No Good.

— `DLNCM CANNOT PROCESS REQUEST`
Bad parameter passed to **`DLNCM`**.
— `OST CALL`
Operating system trap call to **`DLNCM`** failed.
— `UNKNOWN RESPONSE FROM DLNCM`
**`DLNCM`** responded invalidly.

`PF` Printout Follows. Followed by an `INIT:DLNCM` output message.

`RL` Retry Later.

— `CANNOT COMMUNICATE TO DLNCM` Cannot send request to **`DLNCM`**.
— `CNI PHASE/INIT TRAFFIC SEQ IN PROGRESS`
CNI phase and/or start traffic sequence in progress.
— `DLNCM DOES NOT EXIST`
The **`DLNCM`** process does not exist.
— `LOST COMM TO 1A`
Lost 1B communication.
— `NO TCBs AVAILABLE`
No task control blocks available to service request.
— `RING INITIALIZATION IN PROGRESS`
Ring initialization has started.
— `STREAM/DLN CONFIG IN PROGRESS`
API-DLN stream and/or DLNs are being configured.

## 5. REFERENCES

Output Message
`INIT:DLNCM`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:DMS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this input message with the "HIGH" and "MEDIUM" options may result in losing DMS recent change orders. This could have grave system side effects.**

## 1. PURPOSE

Initialize RING Data Management System (DMS) files.

## 2. FORMAT

**`INIT:DMS`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` **`DMS`** initialization type:

- `HIGH` All running **`DMS`** processes are killed. All **`DMS`** orders are removed. User file is recreated.
- `LOW` All running **`DMS`** processes are killed.
- `MEDIUM` All running **`DMS`** processes are killed. All **`DMS`** orders are removed.

## 4. SYSTEM RESPONSE

`OK` Good. The **`DMS`** initialization is complete.

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:GTT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Using of this command in the field may cause severe overload on the UGT NCP and loss of calls. Seek technical assistance before using this option**.

## 1. PURPOSE

Delete the entire Global Title Translation (GTT) table in a single or all the Direct Link Nodes (DLNs), then purge the DLN process in the DLN for self provisioned GTT. This command is only supported for the Translation Type (TT) 252 - Self Provisioning GTT.

## 2. FORMAT

**INIT:GTT**[**,RNA** a]**:TT** b**,ALL!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Ring Node address of the DLN to be flushed; valid entries are 0x0 - 0x3ff. |
| b | Translation Type; valid option is 252. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |

## 5. REFERENCES

Output Message
INIT:GTT

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:LN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

**WARNING**
**This command can cause signaling point isolation; isolating the office and interrupting CCS message processing, by removing the last LN of a set.**
****READ PURPOSE CAREFULLY****

## 1. PURPOSE

Requests force removal from service and restart of the specified node, regardless of the state of the link and of other nodes. Restart consists of initializing the software in the node without pumping it from the 3B20D/3B21D. A successful restart returns the node to service.

If the node (except RPC) major state is Active (ACT), the node (except RPC) is in the active ring segment, the Interprocess Message Switch (IMS) subsystem is not initializing at a level higher than 1B, and the software in the node is designed to be restartable, then an attempt is made to remove the node (except RPC) from service and restart it.

The removal changes the major state to Out Of Service (OOS). The restart changes the major state to Initiate (INIT) only if the node has an attached processor. If successful, the restart changes the major state to ACT.

If the restart fails, the major state is changed to OOS and the user becomes responsible for restoring the node to service.

This command does not use the Maintenance Input Request Administrator (MIRA) queue, so the `OP:DMQ` and `STOP:DMQ` commands do not apply to it and it may be executed ahead of previously entered commands in the MIRA queue.

## 2. FORMAT

**`INIT:LN`**`a b!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | A Ring Node (RN) group number (`00-63`) with explicit leading zero for group numbers less than 10. |
| `b` | The node's position in the RN group (`1-15`). |

## 4. SYSTEM RESPONSE

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 256-090-182, *CNI Maintenance Manual*, Maintenance Description Section, Diagnostics User's Guide Section

Input Messages

```
DGN:LN
FRMV:LN
OP:DMQ
RMV:LN
RST:LN
STOP:DMQ
```

Output Messages

```
DGN:LN
FRMV:LN
INIT:LN
RMV:LN
RST:LN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Any existing data on the targeted disk tracks will be destroyed.**

## 1. PURPOSE

Formats all or specific disk tracks of the disk pack with initialized sectors.

**NOTE:** New disk packs have no sectors and must be formatted before being used.

For Storage Module Device Moving Head Disk (SMD MHDs), disk tracks are formatted a section at a time under the control of the format command.

For small computer system interface moving head disk (SCSI MHDs), the entire disk is formatted by the SCSI drive's embedded controller.

It may take up to 30 minutes to format a complete disk pack.

## 2. FORMAT

**INIT:MHD** a[**;VFY**][**:TRACK** b[**-**c]|**NEW**]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**VFY** — This option will invoke the verify procedure.

For SMD MHDs, the verify procedure is performed immediately after each section of the disk is formatted.

For SCSI MHDs, the entire disk is formatted, then the verify procedure is performed.

**NOTE:** A VFY:MHD output message will not result if this option is selected.

b — For SMD MHDs, specifies the track number to be formatted (and verified). The track number may be a single track number or the first track number in the range. The range of valid track numbers is 0 to 17604. Track numbers are given in decimal notation.

For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

SEE PROPRIETARY NOTICE ON COVER PAGE

**c** For SMD MHDs, specifies the last track number of a range (`0-17064`) to be formatted (and verified).

For SCSI MHDs, this option is not valid because specific tracks cannot be formatted.

**NEW** For SMD MHDs, build defect management maps using the manufacturer's defect table. The result is a new working (`COMBINED`) defect map.

The **NEW** option must be used if a new disk pack is being formatted and defect management is supported for the drive size.

For SCSI MHDs, this option is not valid since the `PRIMARY` manufacturer's defect table cannot be altered. New defects can only be added to the `GROWING` defect table.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an `INIT:MHD` output message.

## 5. REFERENCES

Display/Menu Page Name
`DISK FILE SYSTEM ACCESS`

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`VFY:MHD`

Output Messages
`INIT:MHD`
`VFY:MHD`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . INIT:RING
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**

**This message should be used with discretion since loss of service may result. Initialization levels 0 and 1 can escalate to a higher level either internally or because of requesting another initialization at the same level before the first initialization has completed. `MINMODE` level leaves the ring nonfunctional and requires an `INIT:RING 4` to clear it.**

## 1. PURPOSE

This input message is used to request a Common Network Interface (CNI) only initialization at a specified level. The selected level may be level 0 (audit level), 1 (recovery level), 2 (full process init without database), 3 (full process init with database), 4 (full init) or minmode (level 4 without links).

## 2. FORMAT

```
INIT:RING {0|1|2|3|4[;MINMODE]}!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **0** | Audit level initialization. Results in running of CNI and Interprocess Message Switch (IMS) audits. If a critical audit fails, a level 0 may escalate to a level 1 which can escalate to a level 3. |
| **1** | Recovery level initialization. Results in restarting IMS driver (`imsdrv`). All IMS buffers are flushed, and IMS channels are closed. Can escalate to a level 3. |
| **2** | Full process initialization. The CNI/IMS system processes are created from disk. Ring nodes are audited. |
| **3** | Full process initialization. The CNI/IMS system processes are created from disk. Ring nodes are audited. All CNI data reread from disk. |
| **4** | Full initialization. All processes are recreated and nodes are pumped. |
| **4;MINMODE** | Special initialization ring is NOT functional. Requires an **`INIT:RING 4`** to clear. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Request was unsuccessful because an invalid level was requested or the CNI feature has not been activated. Valid levels are **0**, **1**, **2**, **3** and **4**. |
| PF | Printout Follows. Initialization request was accepted and an output message will follow. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `RL` | Retry Later. The CNI system is currently undergoing initialization at a higher level and cannot honor user request. |

## 5. REFERENCES

None.

ID . . . . . INIT:RTM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message initializes the Real Time Monitor (**RTM**).

This message initializes the **RTM**. It tells the **RTM** to reconnect to the port, and reinitialize important variables.

## 2. FORMAT

**INIT:RTM!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. The RTkernel process must exist for **INIT:RTM** to work correctly. The NG response indicates that the RTkernel process does not exist, and no initialization can be done. |
| OK | Good. Request was received and understood by (**RTM**). Initialization will take place. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:UC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Informs the computer Generic Access Package (GRASP) that a working utility circuit has been installed so that GRASP will again accept trace and hardware breakpoint definitions, reset the utility circuit if an error occurred, or end the GRASP session.

## 2. FORMAT

**`INIT:UC`**`[;`**`END`**`][;`**`UCL`**`]!`

## 3. EXPLANATION OF MESSAGE

**`END`** End the GRASP session and cause GRASP to terminate if no traces or breakpoints are set. Using **`END`** with **`UCL`** will cause GRASP to terminate even if traces or breakpoints are set.

**`UCL`** Perform the initialization unconditionally (even if no error has been detected).

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD` Not a valid action in a `WHEN` action list.

`?I` Identification field contains an error.

`NG` No Good. One of the following errors:

— `STATE ERROR`
The circuit is already initialized, or a trace or breakpoint is defined when trying to end GRASP.

— `UC IS FUNCTIONAL`
No failure had been detected.

— `UC WOULD NOT INITIALIZE`
The circuit still would not respond. Hardware breakpoint and trace definitions will continue to be rejected.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message

```
OP:UMEM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . INIT:ULARP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Initializes the UNIX® Level Automatic Restart Process (ULARP). This action restarts any ULARP controlled process that is not executing. It will also start any UNIX® level process that has had a record added to the Equipment Configuration Database (ECD) and is not yet executing.

## 2. FORMAT

**`INIT:ULARP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Indicates an attempt to initialize ULARP. Error information is output in the form of processor recovery messages and `REPT:ULARP` output messages. |
| `PF` | Printout Follows. Followed by an `INIT:ULARP` output message. |

## 5. REFERENCES

CIC Select Code 303-007 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Processor Recovery Messages User's Guide*

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`OP:ULARP-COM`
`OP:ULARP-PROC`

Output Messages
`INIT:ULARP`
`OP:ULARP-COM`
`OP:ULARP-PROC`
`REPT:ULARP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... INIT:UMEM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Specifies the definition of a computer Generic Access Package (GRASP) trace to be set up. The trace enters the `NEW` state with the successful completion of the command.

## 2. FORMAT

```
INIT:UMEM[,{UID a|PID b}][,ADDR {c-d|c[,L e|NL f]}][,STORE g]
      [,STKADD h[,STKSZ i]][,STOP FULL][[,COND j][,j][,j]][;WORD]!
```

## 3. EXPLANATION OF MESSAGE

`a` Utility ID number of the target process.

`b` Process ID number of the target process.

`c` Starting byte address of the range to which tracing will be restricted. Ending byte address of the range. If the `NL` option is used, then the bracket (`[`) ending byte address of the range.

`d` Ending byte address of the range to which tracing will be restricted. When specifying `UID`, `TRANSFER`, `DATA`, or `TRANDATA` traces, the address range can be arbitrary. When specifying `FUNCTION`, `FUNCPAR`, or `DATAFUNC` traces, however, the starting and ending addresses must be of a form where the leftmost hexadecimal digits of both are equal, and the rightmost digits of the starting address are all `0` and the rightmost digits of the ending address are `F`. For example, `0x123000 - 0x123FFF` or `0x10000 - 0x1FFFF`.

`e` Length of the range of addresses to which tracing will be restricted. Default is four bytes unless a range is explicitly stated.

`f` Length of the range of addresses to which tracing will be restricted where the starting address is calculated as `ADDR -f + 1`.

`g` Information to be stored:

`DATA` — Data accesses for the specified address or range of addresses will be stored.

`DATAFUNC` — Both information for data history traces over a specified address range and function calls with parameters passed are stored. As with `FUNCPAR`, a stack start address and a stack size may be specified.

`FUNCPAR` — Function calls and parameters passed for the function will be stored. A stack start address and a stack size may also be specified with this trace type. The `ADDR` keyword cannot be used when `STORE` is `FUNCPAR`.

SEE PROPRIETARY NOTICE ON COVER PAGE

FUNCTION — Both function call and return instructions will be stored with the address of the instruction and the address branched to.

TRANDATA — Information for both data history trace and transfer trace will be stored.

TRANSFER — Both changes in utility IDs and branches will be stored. This is the default if the STORE option is not specified.

UID — Store only changes in utility IDs will be stored. This gives a longer history but less detail.

h — The stack start address for the process being traced. This is an optional input that can only be specified if STORE is FUNCPAR or STORE is DATAFUNC. Default is H'6A0000.

i — The size of the user stack specified with the stack start address. Default is H'10000. If a stack address and stack size are specified, they must specify an address range as described in a previous variable. For example, the default stack address is 0x6A0000 and stack size is 0x1000. This specifies an address range of 0x6A0000 through 0x6A0FFF. A function with parameters trace uses two triggers.

**FULL** — The transfer trace will stop collecting data and will enter the STOPPED state when the memory is filled with data. Without this option, the trace will continue to collect data, overwriting the oldest data, until stopped by an INH:UMEM input message.

j — Match condition to inhibit a running trace. GRASP cannot trace across an initialization, nor control the dual access utility circuit in an off-line Control Unit (CU). The possible conditions are:

E — to match on external input via the AM backplane
M — to match on a Maintenance Reset Function (MRF)
S — to match on a stop-and-switch.

**WORD** — Interpact all addresses and lengths in terms of words. If this option is omitted, they are assumed to be byte values.

## 4. SYSTEM RESPONSE

NG — No Good. Includes one of the following:

— STATE ERROR
A trace is already defined.
— UCERR
The utility circuit is unavailable.

PF — Printout Follows. Followed by an INIT:UMEM output message.

RL — Retry Later. The system is in an overload condition, or wait for previous OP:UMEM or OP:UMEM;MCH input command to complete.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-302-837 *Lucent Technologies 3B20D/3B21D Model 2 and Model 3 Computers Common System Growth and Retrofit*

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
ALW:UMEM
CLR:UMEM
INH:UMEM
OP:ST-PROC
OP:UMEM
OP:UTIL
```

Output Messages

```
INH:UMEM
INIT:UMEM
OP:UTIL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LKC:SLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Allows the user to request a link check test procedure, establish or release a link check loopback or request the status of a link check procedure in progress.

## 2. FORMAT

**LKC:SLK** (a,b,c,d);e[(f,g)]!

## 3. EXPLANATION OF MESSAGE

a — Group number (0–63).

b — Member number (1–15). Circuit pack and port numbers are required to specify a particular link on a multi-link node. (Multi-link nodes include: DCHN and SADC). (These numbers are always 0 for ILN.)

c — Circuit Pack number (0–1).

d — Port number (0–3).

e — Requested link check procedure:

CLRL — Requests that a link check loopback be released.

LCHK — Starts a link check test for the length of time specified. A default time of 5 minutes will be assumed if no time limit is specified.

**NOTE:** A link check loopback must be established at the far end of the link, using SETL, before performing a LCHK.

LCKI — Starts a link check internal test.

SETL — Requests that a link check loopback be established.

STAT — Requests the current status of a link check procedure.

STOP — Terminates a link check test that is in progress. It will also release a link check loopback if one has been established.

f — Optional time limit (in seconds) for link check test procedure. Minimum 5 seconds for DCHN & SADC. Minimum 50 seconds for ILN. Maximum 48 hours (172800).

g — Optional time interval (in minutes) between periodic measurement reports for ILN only. Minimum 5 minutes, but not greater than the value set for the previous time limit for the link check test procedure.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

The requested link check procedure is executed and results returned to the user upon completion. The only exception to this normal procedure is if Common Network Interface (CNI) experiences an initialization of any level; in those cases, the initialization effectively aborts a link check in-progress or clears a remote loopback.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* Procedures Section

Practice 256-090-121 *CNI Operations Manual*
Digital Signaling Link Operating Procedures Section Digital Signaling Link Test Procedures Section D-Channel and International Link Node Signaling Link Test Procedures Section

Practice 256-090-122 *CNI Maintenance Manual* Ring and Ring Node Maintenance Procedures Section

Output Message
`REPT:LKC-SLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:ADDR-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Loads a computer virtual address with specified data as an action associated with a breakpoint.

## 2. FORMAT

**LOAD:ADDR** a[**,OFF** b][**,L** c][**;WORD**]**:D** d/

## 3. EXPLANATION OF MESSAGE

`a` The starting virtual address for the data in octal, hexadecimal, or decimal notation. Assumed to be a byte address unless the `WORD` option is used. The address must be in a segment which is not write-protected. Note that text segments are usually write-protected.

`b` Single offset or list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the `WORD` option is used.

`c` The length of the load, assumed to be bytes unless the `WORD` option is used. The range is `1-20` bytes or `1-5` words. The default for an omitted or zero length is 1. The specified length must agree with the data explained in the following variables.

**`WORD`** Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

`d` One or more numbers representing data to be loaded. If more than one number is given, all but the last are assumed to represent four bytes of data. The last or only number is taken to represent the number of bytes of data (up to four) needed to make the data list correspond to the length of the load.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INCONSISTENT DATA (L + D)`
Length and amount of data specified do not agree.

— `MISSING KEYWORD`
Utility Identification (UID) or Process Identification (PID) is required except in a `WHEN` action list.

— `RANGE ERROR (L)`
Length too long.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `IP` | In Progress. The message has been added to the `WHEN` action list. |
| `RL` | Retry Later. The system is in an overload condition. |

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
WHEN:PID
WHEN:UID
```

Output Messages

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG-B
LOAD:UVAR-B
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:ADDR-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

This command is only allowed within a `WHEN:RUTIL` command <action-list>.

Loads the address in the given node with the specified data. Loads the contents at the address with the given data when the specified breakpoint fires.

Currently the maximum data size allowed for loading is 32 bytes or eight four-byte words. There must be a one-to-one correspondence between the length of the data to be written and the data to be loaded. if there are three bytes of data to be written, there must be three data entries. Similarly if there are five words to be written, there must be five data entries specified.

## 2. FORMAT

```
LOAD:ADDR X'a[,OFF b],{L|NL} c[;WORD]:D (X'd,X'e,...)!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Address to begin loading data, in hexadecimal. |
| `b` | The offset from the address to begin loading data, in decimal. |
| **`L`** | Use the number of bytes specified (or four-byte words) as the beginning address to dump. |
| **`NL`** | Use the number of bytes specified (or four-byte words) as the end address of the dump (the start address is calculated by end address minus total number of bytes to dump). |
| `c` | The number of bytes, or four-byte words, if **`WORD`** is used, to load in decimal. |
| `d,e` | One or more data items to be loaded in hexadecimal. |

## 4. SYSTEM RESPONSE

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`LOAD:ADDR-A`
`WHEN:RUTIL`

Output Message

`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:APPTAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Reloads some non-hashed file-store-only data from archive tape.

## 2. FORMAT

**LOAD:APPTAPE:**a,**MT** b[,**FN** "c"]!

## 3. EXPLANATION OF MESSAGE

a — Data to be loaded:

ERAP — Loads the Error Analysis Program (ERAP) data.

LTS — Loads the Long Term Storage (LTS) data.

ODIL — Loads the Office Dependent Initial List (ODIL) subset of the LTS data.

TOSL — Loads the Trunk Out-of-Service List (TOSL) data.

b — The tape unit (0|1) where the archive tape is mounted.

c — Optionally, the full, absolute path name of the destination /dev/1afile or /dev/spec file. If no path is specified, the NORM 1BFILE will be used.

## 4. SYSTEM RESPONSE

117, CANNOT ACCESS c
Contact your technical support organization.

119, UNIX SEEK FAILURE ON c
Contact your technical support organization.

121, ID2FS MAP READ FAILURE
Contact your technical support organization.

123, UNIX SEEK FAILURE ON ID2FS MAP
Contact your technical support organization.

125, NO READ ACCESS ON c
Contact your technical support organization.

127, NO WRITE ACCESS TO TAPE DRIVE
Contact your technical support organization.

131, CANNOT WRITE HEADER TO TAPE
Contact your technical support organization.

SEE PROPRIETARY NOTICE ON COVER PAGE

`133, UNIX SEEK FAILURE ON SRC FILE STARTING ADDRESS`
Contact your technical support organization.

`135, UNIX SEEK FAILURE ON DEST FILE STARTING ADDRESS`
Contact your technical support organization.

`137, READ FROM SRC FILE FAILED`
Contact your technical support organization.

`139, WRITE TO DEST FILE FAILED`
Contact your technical support organization.

`NG` No Good.

— `LOAD:APPTAPE ABORTED, CANNOT OPEN c`
The destination 1BFILE cannot be accessed. Check the path name spelling if the **`FN`** option was used. Otherwise, seek technical assistance from your support organization.

`OK` Good.

`PF` Printout Follows. Followed by output message `VER:APPTAPE`.

`RL` Retry Later. This command may be issued only in the time window from 2 minutes to 11 minutes after the quarter hour.

## 5. REFERENCES

Input Messages
- `COPY:APPTAPE`
- `VER:APPTAPE`

Output Messages
- `COPY:APPTAPE`
- `LOAD:APPTAPE`
- `VER:APPTAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:BYTE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

Loads the address in the given node with the specified data. This command is only allowed within a `WHEN:RUTIL` command <action-list>.

Loads the contents at the address with the given data when the specified breakpoint fires. The data provided must be a byte value. (e.g., `X'OA`, `X'7F`)

## 2. FORMAT

**`LOAD:BYTE X'`a`:D X'`b`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Address to load data in hexadecimal. |
| b | Data value to load in hexadecimal. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`DUMP:ADDR-A`
`DUMP:ADDR-B`
`WHEN:RUTIL`

Output Message
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DFC-PUMP
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Download the pumpcode to Small Computer System Interface Disk File Controller (SCSI DFC). The control of SCSI Host Adaptor (HA) (DFC) will be transferred from firmware to pumpcode after the pumpcode is successfully downloaded. The command can also be used to request the computer disk driver to automatically perform the whole pump procedure. Furthermore, the integrity of the pumpcode stored as a disk file can be verified using this command.

## 2. FORMAT

[1] **`LOAD:DFC`** `a`**`;PUMP[:FN`** `"b"`**`[,CHECKSUM]]!`**

[2] **`LOAD:DFC`** `a`**`;PUMP :FN`** `"b"` **`,FU!`**

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

`b` Full pathname that specifies the file containing pumpcode to be downloaded into SCSI HA (DFC) or to be checked for the integrity of its data. The specified file name will be ignored when the downloading is to be done automatically by the disk driver; since the driver will use the information stored in the DFC's UCB record to build the pumpcode file name. The file specified in the UCB record must exist in the directory `/dfc`, and the file name derived from the UCB record has the format `xyz`, where `x` is the 4-alphanumeric characters packcode value (i.e., `u214`) stored in the packcode field of the UCB, `y` is the 2-digit value stored in the issue field of the UCB, and `y` is the 2-digit value stored in the version field of the specified DFC's UCB. An example of a typical pumpcode file name is `u21471`; the pumpcode version implied by this filename is 7, the pumpcode issue is 1, and the packcode number is `u214`.

**`CHECKSUM`** When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur.

**`FU`** This option is normally used in a software update messages file. It says that if the DFC does not exist or if the DFC is not a UN373 or if the DFC is not active, the command will successfully complete without doing anything to the DFC. This is done to minimize human intervention while making a change to a DFC pumpfile.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `LOAD:DFC` output message. |

## 5. REFERENCES

Input Message
`LOAD:DFC-RAM`

Output Messages
`LOAD:DFC-PUMP`
`REPT:DFC-PUMP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:DFC-RAM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Load a specified pumpcode file into the Small Computer System Interface (SCSI) Disk File Controller's (DFC's) Random Access Memory (RAM) area. The message can also be used to verify the integrity of a pump file.

## 2. FORMAT

**LOAD:DFC** a**;RAM:FN** "b"[**,CHECKSUM**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |
| b | Full pathname that specifies the file containing pumpcode to be downloaded into SCSI DFC's RAM. |
| **CHECKSUM** | When this option is used the integrity of the pumpcode contained in the specified file will be verified; no downloading will occur. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a LOAD:DFC–RAM output message. |

## 5. REFERENCES

Display/Menu Page Name
DISK FILE SYSTEM ACCESS

Input Message
LOAD:DFC–PUMP

Output Message
LOAD:DFC–RAM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:GULP
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Automatically loads the overwrite file in the inactive file.

## 2. FORMAT

**`LOAD:GULP:GENERIC`** `"a"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Path of the overwrite file to be read. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. |

## 5. REFERENCES

Output Message
`LOAD:GULP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:MHD-DEFECT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this message can degrade system performance and result in disk data mutilation. This message should not be used without expert technical assistance.**

## 1. PURPOSE

Loads new defect location data onto a Moving Head Disk (MHD). The data is used to map around defective areas on the disk media.

For a Storage Module Device (SMD) MHD, the defect specification file data replaces the Manufacturer's (MFGR) defect table

For a Small Computer System Interface (SCSI) MHD, the defect specification file data is added to the Combined (COMB) defect table.

**NOTE:** For SCSI disks, after new defect blocks are loaded, all the previous information about the bad blocks (defects) become invalid. For example, bad logical block number 3 is not physically the same block after being loaded. It is now a good block number 3. Therefore, only new defect(s) detected since the previous `LOAD:MHD` message should be included in the specification file used for loading new defects into the "Combined" defect table.

## 2. FORMAT

```
LOAD:MHD a;DEFECT:FN "b"!
```

## 3. EXPLANATION OF MESSAGE

`a` MHD member number.

`b` Full pathname of the defect specification file.

— For SCSI disks, the file contains one line for each disk block number to be reassigned. The entries must be created in increasing block number order. All the specified block numbers will be re-assigned by the disk drive's embedded controller.

— An empty (zero length) specification file results in an empty defect table being written to the disk.

SEE PROPRIETARY NOTICE ON COVER PAGE

— For SMD disks, the file contains one line for each defect. The format of each line is as follows:

```
CYL    HEAD    SECTOR
___    ____    ______
|      |       |
|      |       |___ Sector Number (decimal)
|      |
|      |_____________ Head Number (decimal)
|
|______________________ Cylinder Number (decimal)
```

The entries must be created in increasing cylinder number order, and in increasing head number order when on the same cylinder. The sector number is optional.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `LOAD:MHD-DEF` output message.

## 5. REFERENCES

Input Messages
- `DUMP:MHD-DEF`
- `INIT:MHD`

Output Message
- `LOAD:MHD-DEF`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:MHD-FIRM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This command will format the MHD. All existing data on the disk drive will be destroyed.**

## 1. PURPOSE

Loads vendor-unique, executable microcode and/or control information into the control memory of a Small Computer System Interface (SCSI) Moving Head Disk (MHD). The downloaded code will be effective after successful completion of this message.

## 2. FORMAT

```
LOAD:MHD a:FIRMWARE,FN "b"!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | MHD member number (`0-255`). |
| `b` | Full pathname of the firmware data specification file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `LOAD:MHD-FIRM` output message. |

## 5. REFERENCES

Output Message
`LOAD:MHD-FIRM`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:PMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This message overwrites data in the memory of the Central Processor (CP) or Administrative Module (AM). It should not be used without expert technical assistance.**

## 1. PURPOSE

Loads a physical byte address with specified data as an immediate operation or as a Generic Access Package (GRASP) breakpoint action.

## 2. FORMAT

**LOAD:PMEM** a[**,L** b][**;WORD**]**:D** c{**/**|**!**}

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Starting physical byte address of the location in main memory where the load is to be done. |
| b | The length of the load is assumed to be in bytes unless the WORD option is used. The range is 1 - 20 bytes or 1 - 5 words. The length must be a multiple of 4 and must agree with the amount of data. |
| **WORD** | Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values. |
| c | One or more numbers representing data to be loaded. If more than one number is given, each is assumed to represent four bytes of data. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error.<br>— INCONSISTENT DATA (L + D)<br>Length and amount of data specified do not agree.<br>— RANGE ERROR (L)<br>Length too long. |
| IP | In Progress. The message has been added to the WHEN action list. |
| PF | Printout Follows. Followed by a LOAD:PMEM output message. |
| RL | Retry Later. The system is in an overload condition, or wait for previous OP:UMEM or OP:UMEM;MCH input command to complete. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
DUMP:PMEM
LOAD:ADDR-A
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Messages

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG-B
LOAD:UVAR-B
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:REG-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Loads a register with specified data as a breakpoint action.

## 2. FORMAT

**LOAD:REG** a[**,OFF** b][**,L** c][**;WORD**]**:D** d**/**

## 3. EXPLANATION OF MESSAGE

a — The name of the register to be written:

- AP — Argument pointer.
- ATBBGR — Register used by the ATB miss routine to temporarily store the bi-directional gating register.
- ATBPSW — Register used by the ATB miss routine to temporarily store the Program Status Word (PSW) register.
- ATBQ — Register used by the ATB miss routine to temporarily store the q register.
- ATBSAR — Register used by the ATB miss routine to temporarily store the Store Address Register (SAR) contents.
- ATBSCR — Register used by the ATB miss routine to temporarily store the Store Control Register (SCR) contents.
- ATBSDR — Register used by the ATB miss routine to temporarily store the Store Data Register (SDR) contents.
- BGR —Bi-directional gating register.
- CAR —Channel address register.
- CDR —Channel data register.
- ERC —Error register clear.
- FP — Frame pointer.
- HG — Reserved register HG.
- HSRBGC — Bi-directional gating control bits of the hardware status register.
- HSR —Hardware status register.
- IM — Interrupt mask register IM.
- ISC —Interrupt source register clear.

SEE PROPRIETARY NOTICE ON COVER PAGE

`ISS` —IS register set.

`PA` — Program address register.

`PPR` —Pulse point register.

`PSW` —Program status word.

`R0` — General register R0.

`R10` —Frame pointer (FP).

`R11` —Stack Pointer (SP).

`R1` — General register R1.

`R2` — General register R2.

`R3` — General register R3.

`R4` — General register R4.

`R5` — General register R5.

`R6` — General register R6.

`R7` — General register R7.

`R8` — General register R8.

`R9` — Argument Pointer (AP).

`RNULL` — Null register.

`RTC` —Real time clock.

`SBR0` — Segment base register SBR0.

`SBR1` — Segment base register SBR1.

`SBR2` — Segment base register SBR2.

`SBR3` — Segment base register SBR3.

`SBR4` — Segment base register SBR4.

`SBR5` — Segment base register SBR5.

`SBR6` — Segment base register SBR6.

`SBR7` — Segment base register SBR7.

`SCRATCH0` — JE group temp subgroup scratch register SCRATCH0.

`SCRATCH1` — JE group temp subgroup scratch register SCRATCH1.

`SDR` —Store data register.

`SP` — Stack pointer.

`SSRC` — System status register clear.

`SSRS` — System status register set.

`SYSBASE` — Beginning address of UNIX® RTR Operating System tab.

SEE PROPRIETARY NOTICE ON COVER PAGE

`T0` — JE group temp subgroup scratch register T0.

`T1` — JE group temp subgroup scratch register T1.

`T2` — JE group temp subgroup scratch register T2.

`T3` — JE group temp subgroup scratch register T3.

`T4` — JE group temp subgroup scratch register T4.

`T5` — JE group temp subgroup scratch register T5.

`T6` — JE group temp subgroup scratch register T6.

`T7` — JE group temp subgroup scratch register T7.

`TIMERS` — Timing circuit.

`TOPIS` — Interrupt stack pointer.

`UINT0` — Error microinterrupt hander register UINT0.

`UINT1` — Error microinterrupt hander register UINT1.

`UINT2` — Error microinterrupt hander register UINT2.

`UINT3` — Error microinterrupt hander register UINT3.

`UINTER` — Shadow error register (uint_er) loaded during an error microinterrupt.

`b` Single offset or a list of up to five offsets. Omission of the keywords implies no indirect addressing. Offsets are bytes unless the **`WORD`** option is used.

`c` The length of the load, assumed to be bytes unless the **`WORD`** option is used. The range is 1 - 4 bytes, and the default for an omitted or zero length is 4. The specified length must agree with the data as explained in the following variables.

**`WORD`** Indicates that lengths are to be interpreted in terms of words. If this option is omitted, lengths are assumed to be byte values.

`d` The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length `d`.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `INCONSISTENT DATA (L + D)`
Length and amount of data specified do not agree.

— `RANGE ERROR (L)`
Length too long.

`IP` In Progress. The message has been added to the `WHEN` action list.

`NG` No Good.

— `BAD REG NAME`

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `LOAD:REG` output message. |
| `RL` | Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Messages

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG-B
LOAD:UVAR-B
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:REG-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

This command is only allowed within a `WHEN:RUTIL` command <action-list>. Loads a node Attached Processor register with the given data when the specified breakpoint fires.

## 2. FORMAT

**`LOAD:REG`** `a:D X'b!`

## 3. EXPLANATION OF MESSAGE

`a` Name of the register to load. Valid node Attached Processor register names:

68000 and 68030 CPU's:

```
A0    A1   A2   A3
A4    A5   A6   A7
D0    D1   D2   D3
D4    D5   D6   D7
ISP   SR   PC   TRADR
USP
```

68030 CPU only:

```
DFC     MMUSR     MSP       SFC
SRPH    SRPL      TC        TT0
TT1     VBR       VOFSET    CAAR
CACR    CCR       CRPH      CRPL
```

`b` Data value to load in hexadecimal (a maximum of four bytes).

## 4. SYSTEM RESPONSE

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`DUMP:REG-A`
`DUMP:REG-B`
`WHEN:RUTIL`

Output Message

`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:RNA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
****READ PURPOSE CAREFULLY****

## 1. PURPOSE

Loads a node on the ring at a specified byte address with specified data as an immediate operation. This command overwrites data in the memory of the node. Either the Node Processor (NP) or the Attached Processor (AP) memory may be overwritten. This command should not be used without expert technical assistance.

## 2. FORMAT

**LOAD:RNA** a,[**NP**|**AP**|**APACI**|**APPDB**],**ADDR** b[,**L** c][;**WORD**]:**D** d!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Ring Node Address (RNA) of the node to be dumped. |
| **NP** | Dump memory from the Node Processor of this node. |
| **AP** | Dump memory from the Attached Processor of this node; only valid for Direct Link Nodes (DLN). |
| **APACI** | Dump ACI translation memory from the Attached Processor of this node; only valid for DLN. |
| **APPDB** | Dump **APPDB** translation memory from the Attached Processor of this node; only valid for DLNs. |
| b | Starting physical address of the load in decimal, binary, octal, or hexadecimal notation. Assumed to be a byte address unless the **WORD** option is used. |
| c | The length of the load, assumed to be in bytes unless the **WORD** option is used. The maximum is 128 (x'80) bytes or 32 words. The default is 4 bytes, unless a range is explicitly specified. All dumps will be rounded to 4-byte boundaries. |
| **WORD** | Indicates that all addresses, offsets and lengths are to be interpreted in terms of words. If omitted, all values are assumed to be in terms of bytes. |
| d | One or more numbers representing data to be loaded. If more than one number is given, each is assumed to represent 4 bytes of data. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `BAD` **`NP`** `OR` **`AP`** `OR` **`APACI`** `OR` **`APPDB`**
The keywords **`NP`** or **`AP`** or **`APACI`** or **`APPDB`** were not present in the required position.

— `RANGE ERROR` (**`L`** OR **`NL`**)
Length specified is too long or zero.

`PF` Printout Follows. Request was accepted and a `LOAD:RNA` output message will follow.

## 5. REFERENCES

Input Messages
- `DUMP:RNA`
- `DUMP:UID`
- `OP:NPMEM`

Output Messages
- `DUMP:RNA`
- `DUMP:UID`
- `LOAD:RNA`
- `OP:NPMEM`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID ..... LOAD:RUTIL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

Loads the contents of the specified address at the given node with the given data. Currently the maximum data size allowed for loading is 128 bytes or 32 four-byte words.

There must be a one-to-one correspondence between the length of the data to be written and the data provided in `e, f`: if there are three `bytes` of data to be written, there must be three data entries. Similarly, if there are five `words` to be written, there must be five data entries specified.

## 2. FORMAT

**`LOAD:RUTIL`**`(a,b)`**`,AP;ADDR X'`**`c`**`,{L|NL}`** `d[`**`:WORD]:D (X'`**`e`**`,X'`**`f,...`**`)!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0 – 63`). |
| `b` | Member number (`1 – 15`). |
| `c` | The start address of the load in hexadecimal. |
| **`L`** | Use the start address of the load as the beginning address to dump. |
| **`NL`** | Use the start address of the load as the end address of the dump (the start address is calculated by end address minus total number of bytes to dump). |
| `d` | The length of the load in bytes. if **`WORD`** is specified, then it is the number of four-byte words to load. |
| `e,f` | One or more data items to be loaded in hexadecimal; in PDS format, a comma separated list. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures Section

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Message
`DUMP:RUTIL`

Output Message
`LOAD:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:SHORT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

This command is only allowed within a `WHEN:RUTIL` command <action-list>.

Loads the contents at the address in the given node with the given data when the specified breakpoint fires.

## 2. FORMAT

**`LOAD:SHORT X'`a`:D X'`b`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Address to load data in hexadecimal. The address provided is expected to be an even address (e.g., `X'FE3402`). |
| b | Data value to load in hexadecimal. The data provided is expected to be a two-byte value (e.g., `X'0001, X'ABCD`). |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`DUMP:ADDR-A`
`DUMP:ADDR-B`
`WHEN:RUTIL`

Output Message
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... LOAD:TLP
WORK CENTER.. MOC
GENERIC ..... 4AP18 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Loads the Trouble Locating Procedure (**TLP**) to disk.

## 2. FORMAT

**LOAD:TLP:GEN** "a",**mt** b!

## 3. EXPLANATION OF MESSAGE

a — Tape generic release information contained in the tape header. The VER:UPDATE input command can be used to display the tape header information.

b — Magnetic tape number (0–1).

## 4. SYSTEM RESPONSE

?D — Data field contains an error.

— /tlp PARTITION IS NOT MOUNTED
The **TLP** partition was not found in the mount table.
— /tlp PARTITION COULD NOT CHANGE PERMISSIONS
The read/write permissions were not changed for the **TLP** partition.
— FAILED TO READ MOUNT TABLE
Unable to read the mount table.

?E — Error exists in the message but cannot be resolved to the proper field.

— THIS IS NOT A TLP (SR) TAPE
This tape is not an Software Release (SR) tape.
— THIS IS NOT A TLP TAPE
This tape is not a **TLP** tape.
— 1B and TLP GENERICS DO NOT MATCH
The generic from the tape does not match the generic from the command line.
— AUDIT.D MISSING FROM TLP TAPE
The AUDIT.D file was not part of the **TLP** tapes content.
— TAPE TO DISK FILE NAME MISMATCH FOUND
Either a file was missing from the tape or was not found in the **TLP** node.
— TAPE TO DISK FILE SIZE MISMATCH FOUND
An error has occurred were the file size on the tape does not equal what is on disk.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error.

— `KEY WORD GEN MISSING`
The keyword **`GEN`** was not part of the input command.
— `GENERIC MISSING`
The generic was not part of the input command. Double quotation marks are required.
— `KEY WORD MT MISSING`
The keyword **`MT`** was not part of the input command.
— `TAPE DEVICE NUMBER 0/1 MISSING`
Tape unit number `0` or `1` was not part of the input command.
— `TAPE DRIVE pathname DOES NOT EXIST`
The Tape Unit (TU) is not a valid device for this machine.
— `TAPE DRIVE pathname ACCESS PROBLEMS`
The selected TU is not on-line.
— `READ FAILURE ON TAPES HEADER FILE - /dev/device`
The tapes header file was not read.
— `TU device DOES NOT EXIST`
The **`TLP`** partition does not exist.
— `COULD NOT CHANGE DIRECTORY TO pathname`
The change directory command failed to move to the **`TLP`** node.

`CPIO FAILED TO COMPLETE /TLP PARTITION` — A failure from the `cpio` command.

`PF` Printout Follows. The program is proceeding, followed by a `LOAD:TLP` output message.

`REPT: APTLP FAILED TO COMPLETE /TLP PARTITION` — A failure occurred while the `cpio` command was executing causing the system command to fail.

## 5. REFERENCES

Input Message
`VER:UPDATE`

Output Messages
`LOAD:TLP`
`VER:UPDATE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

The **LOAD:UPDATE** family of messages perform various operations during a retrofit or update procedure. Each of these messages is detailed in its own input document message, in addition to the information provided in this overview.

Formats 1-3 initiate retrofits or updates, as specified by the first data field.

Format 4 is used to continue a generic retrofit when the system requests an Office Data Assembler (**ODA**) tape.

Format 5 is used to continue a generic retrofit or **ODA** update when the system requests an Network Management (**NWM**) tape.

Format 6 is used in place of format 4 or 5 to terminate a retrofit/update before completion.

Format 7 is used in place of format 5 to skip loading an **NWM** tape during a generic retrofit or **ODA** update.

Format 8 is used to determine the differences between the normal and update 1B files.

Format 9 is used to map dynamic information from the normal 1B file to the update 1B file.

Format 10 starts the System Reinitialization (SR) process.

## 2. FORMAT

[1] **LOAD:UPDATE:GEN** "a",**MT** b[,**NEW**]!

[2] **LOAD:UPDATE:ODA** "c",**MT** b!

[3] **LOAD:UPDATE:NWM UPD,MT** b!

[4] **LOAD:UPDATE:CONT** "c",**MT** b!

[5] **LOAD:UPDATE:CONT NWM,MT** b!

[6] **LOAD:UPDATE:ABORT!**

[7] **LOAD:UPDATE:SKIP!**

[8] **LOAD:UPDATE:DIFF!**

[9] **LOAD:UPDATE:MAP!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[10] **LOAD:UPDATE:SR [FILE0|FILE1],MT** b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The generic identification string output by the VER:UPDATE message for a generic tape. This field must be enclosed in quotes. |
| b | The tape unit number (0 \| 1) where the tape is mounted. |
| **NEW** | Used to indicate that this is a new office, and there is no dynamic data to be mapped from the normal 1B file. |
| c | The six character **ODA** Identification (ID) formed by combining the base and control fields output by the VER:UPDATE message. The BASE field must be 4 characters long. Spaces must be used after the BASE number if it is not 4 characters long. The CONTROL field must be 2 characters long. A space must be inserted after the CONTROL number if it is not 2 characters long. These two fields must be enclosed in quotes (").  |
| **UPD** | Indicates the Network Management update is to be applied to the update 1B file. |
| **FILE0** | This indicates 1afile0 will be used for the SR. This is also, the default option. |
| **FILE1** | This indicates 1afile1 will be used for the SR. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Unexpected keyword in the data field of the command. |
| ?I | Identification field contains an error. |
| PF | Printout Follows. The program is proceeding. |

## 5. REFERENCES

Input Messages

LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-DIFF
LOAD:UPDATE-GEN
LOAD:UPDATE-MAP
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SR
VER:UPDATE

Output Messages

LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-DIFF
LOAD:UPDATE-GEN

SEE PROPRIETARY NOTICE ON COVER PAGE

```
LOAD:UPDATE-MAP
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SR
VER:UPDATE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-ABORT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

The `LOAD:UPDATE-ABORT` command terminates a retrofit or update procedure before completion. This command is given in response to

`GENERIC COMPLETE - READY FOR ODA`

or

`ODA COMPLETE - READY FOR NWM`

during a retrofit/update to terminate the retrofit process.

## 2. FORMAT

**`LOAD:UPDATE:ABORT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by output message `LOAD:UPDATE-ABORT`. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages

```
LOAD:UPDATE
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-ODA
VER:UPDATE
```

Output Messages

```
LOAD:UPDATE
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-ODA
VER:UPDATE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... LOAD:UPDATE-CONT
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

The `LOAD:UPDATE:CONT` commands are given to continue a retrofit or update procedure.

Format 1 is used to continue a generic retrofit when the system requests an Office Data Assembler (ODA) tape.

Format 2 is used to continue a generic retrofit or ODA update when the system requests a Network Management (**`NWM`**) tape.

After loading a generic retrofit tape, the system will output

```
GENERIC COMPLETE - READY FOR ODA.
```

When the ODA tape has been mounted, Format 1 is used to continue with the retrofit.

After loading an ODA tape, the system will output

```
ODA COMPLETE - READY FOR NWM.
```

When the NWM tape has been mounted, Format 2 is used to continue with the retrofit.

## 2. FORMAT

[1] **`LOAD:UPDATE:CONT`** `"a"`**`,MT`** `b!`

[2] **`LOAD:UPDATE:CONT NWM,MT`** `b!`

## 3. EXPLANATION OF MESSAGE

`a` The ODA Identification (ID) is the four-character BASE and two-character CONTROL values reported by the `VER:UPDATE` command. These two fields are combined into a single six character string enclosed in quotation marks (`"`). Space characters, if any, are significant and must be included in the correct place. For example: `LOAD:UPDATE:CONT "CHGO99",MT 0`

`b` Tape unit number(`0|1`) where the tape is mounted.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error.

`PF` Printout Follows. Followed by output message `LOAD:UPDATE:CONT`.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| RL | Retry later. |

## 5. REFERENCES

Input Messages

LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-GEN
LOAD:UPDATE-ODA
VER:UPDATE

Output Messages

LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-ODA
VER:UPDATE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-DIFF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Determines the differences for generic and HASH data between the NORMAL and UPDATE 1B files.

## 2. FORMAT

**`LOAD:UPDATE:DIFF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by `LOAD:UPDATE-DIFF` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Message
`LOAD:UPDATE`

Output Message
`LOAD:UPDATE-DIFF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... LOAD:UPDATE-GEN
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Initiates the Generic (**GEN**) retrofit process.

## 2. FORMAT

**LOAD:UPDATE:GEN** "a",**MT** b[,**NEW**]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The generic identification string reported by the VER:UPDATE command; for example, 4E<23>5A.08. This argument must be enclosed in quotation marks (").|
| b | Tape unit number (0\|1) where the tape is mounted. |
| **NEW** | Indicates that this is a new office, and that no dynamic data is to be copied from the normal file to the update file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by LOAD:UPDATE-GEN output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Messages
LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-MAP
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SKIP
VER:UPDATE

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-MAP
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SKIP
VER:UPDATE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-MAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

The `LOAD:UPDATE-MAP` command maps (copies) dynamic data from the normal 1B File to the update 1B file.

## 2. FORMAT

**`LOAD:UPDATE:MAP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by output message `LOAD:UPDATE-MAP`. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Message
`LOAD:UPDATE-MAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-NWM
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Initiates a Network Management (**NWM**) update.

## 2. FORMAT

**LOAD:UPDATE:NWM UPD,MT** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **UPD** | Apply updates to update 1B file. |
| a | Tape unit number (0 \| 1) where the update tape is mounted. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. The program is proceeding. Followed by a LOAD:UPDATE-NWM output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Messages
- LOAD:UPDATE
- LOAD:UPDATE-GEN
- LOAD:UPDATE-MAP
- LOAD:UPDATE-ODA
- VER:UPDATE

Output Messages
- LOAD:UPDATE
- LOAD:UPDATE-GEN
- LOAD:UPDATE-MAP
- LOAD:UPDATE-NWM
- LOAD:UPDATE-ODA
- VER:UPDATE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-ODA
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Initiates an Office Data Assembler (**ODA**) update procedure.

## 2. FORMAT

**LOAD:UPDATE:ODA** "a",**MT** b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The six character **ODA** Identification (ID) formed by combining the base and control fields output by the VER:UPDATE message. The BASE field must be 4 characters long. Spaces must be used after the BASE number if it is not 4 characters long. The CONTROL field must be 2 characters long. A space must be inserted after the CONTROL number if it is not 2 characters long. These two fields must be enclosed in quotes (").|
| b | Tape unit number (0\|1) where the tape is mounted. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by LOAD:UPDATE-ODA output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Messages
- LOAD:UPDATE-ABORT
- LOAD:UPDATE-CONT
- LOAD:UPDATE-GEN
- LOAD:UPDATE-NWM
- LOAD:UPDATE-SKIP
- VER:UPDATE

Output Messages
- LOAD:UPDATE-ABORT
- LOAD:UPDATE-CONT
- LOAD:UPDATE-GEN
- LOAD:UPDATE-NWM
- LOAD:UPDATE-ODA
- LOAD:UPDATE-SKIP
- VER:UPDATE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-SKIP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

After the loading of the ODA tape during a retrofit or ODA update, this command is used to skip loading a Network Management tape; allowing the procedure to continue.

## 2. FORMAT

**`LOAD:UPDATE:SKIP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by `LOAD:UPDATE-SKIP` output message:

— `LOADING NWM TAPE SKIPPED`

## 5. REFERENCES

Input Messages

```
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-ODA
VER:UPDATE
```

Output Messages

```
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SKIP
VER:UPDATE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UPDATE-SR
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Starts the System Reinitialization (SR) process.

## 2. FORMAT

**`LOAD:UPDATE:SR [FILE0|FILE1],MT a!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`FILE0`** | This indicates 1afile0 will be used for the SR. This is also, the default option. |
| **`FILE1`** | This indicates 1afile1 will be used for the SR. |
| `a` | The tape unit number (`0|1`) where the update tape is mounted. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. The program is proceeding. Followed by a `LOAD:UPDATE-SR` output message. |

## 5. REFERENCES

Input Messages

```
LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SKIP
VER:UPDATE
```

Output Messages

```
LOAD:UPDATE
LOAD:UPDATE-ABORT
LOAD:UPDATE-CONT
LOAD:UPDATE-GEN
LOAD:UPDATE-NWM
LOAD:UPDATE-ODA
LOAD:UPDATE-SKIP
LOAD:UPDATE-SR
VER:UPDATE
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . LOAD:UVAR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Loads Generic Access Package (GRASP) utility variable with specified data as an immediate operation or as an action associated with a breakpoint.

## 2. FORMAT

**LOAD:UVAR** a[**,L** b][**;WORD**]**:D** c{**/**|**!**}

## 3. EXPLANATION OF MESSAGE

a — Specifies a GRASP utility variable (1 - 50), in decimal. Utility variable values are reset to 0 at the end of every debugging session.

b — The length of the load, assumed to be bytes unless the **WORD** option is used. The range is 1 - 4 bytes, and the default for an omitted or zero length is 4. The specified length must agree with the data as explained in the following variables.

**WORD** — Indication that addresses and lengths are to be interpreted in terms of words. If this option is omitted, addresses and lengths are assumed to be byte values.

c — The data to be loaded. It is taken to represent the number of bytes of data (up to 4) needed to make the data list correspond to the length b.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— INCONSISTENT DATA (L + D)
Length and amount of data specified do not agree.
— RANGE ERROR (L)
Length too long.
— RANGE ERROR (UVAR)
Invalid utility variable was specified.

IP — In Progress. The message has been added to the WHEN action list.

PF — Printout Follows. Followed by a LOAD:UVAR output message.

RL — Retry Later. The system is in an overload condition, or wait for previous OP:UMEM or OP:UMEM;MCH input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
COPY:ADDR
COPY:PID
COPY:REG
COPY:UID
COPY:UVAR
OP:UMEM
WHEN:PID
WHEN:UID
```

Output Messages

```
LOAD:ADDR
LOAD:PMEM
LOAD:REG-B
LOAD:UVAR-B
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . LOAD:WORD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

This command is only allowed within a `WHEN:RUTIL` command <action-list>. Loads the contents at the address in the given node with the given data when the specified breakpoint fires.

## 2. FORMAT

**`LOAD:WORD X'`**`a`**`:D X'`**`b`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Address to load data in hexadecimal. The address provided is expected to be on a four-byte boundary. |
| `b` | Data value to load in hexadecimal. The data provided is expected to be a four-byte value (e.g., `X'00000001, X'ABCDEF55`). |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`DUMP:ADDR-A`
`DUMP:ADDR-B`
`WHEN:RUTIL`

Output Message
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . MON:SLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This input message may be used to turn the link monitor on or off. In addition it may be used to determine the status of the monitor for the specified link(s). When the monitor is on, events associated with signaling links will trigger reports that are not normally output. Turning the monitor off inhibits new events from generating output.

Event masks are available for each link. The event mask is used to describe the link related stimuli for which output is desired. Multi-link nodes, such as the D-Channel (DCHN) and Special Access Data Channel (SADC) nodes, have an individual mask for each link and can be monitored on a per link basis. Events associated with T1 Facility Access (T1FA) state management are monitored on a per node basis.

When monitors are turned on, 3B computer stimuli for links or nodes, and/or internal state changes will be reported. This may cause large amounts of output; therefore, some caution should be exercised when requesting this feature. There is a system enforced limit of ten (10) active monitors; i.e., monitors turned on at any given time. Output `APP:APPENDIX-10`, shows in detail which stimuli are associated with the mask values.

Format 1 starts the link monitor. Either a single link (per link based messages) or a single node (per node based messages) may be specified.

Format 2 stops the link monitor for the specified link or node, or **`ALL`** links and nodes.

Format 3 is a request for the status of either all monitors or status of the monitor for a specific link or node.

## 2. FORMAT

[1] **`MON:SLK`**`(a,b[,c,d])`**`;ON`** `[X'e]`**`!`**

[2] **`MON:SLK`**`{(a,b[,c,d])|`**`ALL`**`}`**`;OFF!`**

[3] **`MON:SLK`**`{(a,b[,c,d])|`**`ALL`**`}`**`;STATUS!`**

## 3. EXPLANATION OF MESSAGE

`a` Group number (`0-63`).

`b` Member number (`1-15`).

Circuit pack and port numbers are required to specify a particular link on a multi-link node. (Multi-link nodes include: DCHN and SADC)

SEE PROPRIETARY NOTICE ON COVER PAGE

To monitor a single T1FA, the circuit pack and port number arguments described here must select an equipped link on the T1FA Control Node (TCN) selected by the group number and member number arguments.

`c` Circuit pack number (`0-1`).

`d` Port number (`0-3`).

`e` Events mask.

The default value is `4cde7f`. Event masks for more specific needs may be formed by "oring" the following hexadecimal values.

`00001` — Ring node events.

`00002` — CCS6 link failure events.

`00004` — CCS7 link failure events.

`00008` — CCS6 link restoral events.

`00010` — CCS7 link restoral events.

`00020` — CCS6 network messages (except TFx).

`00040` — CCS7 network messages (except TFx).

`00080` — CCS6 TFx events.

`00100` — CCS7 TFx events.

`00200` — Self loop link detection.

`00400` — Manual out-of-service events.

`00800` — Test and audit events.

`01000` — PBX link failure events.

`02000` — PBX link reports from node.

`04000` — PBX link restoral events.

`08000` — Direct Link Node (DLN) user response events.

`10000` — Internal link state changes.

`20000` — Link Status Signal Units (LSSU) link Out-Of-Service (OOS) reports.

`40000` — Changeover events.

`80000` — Changeback events.

`100000` — Receipt of T1FA messages from the T1FA Control Node (TCN) and resulting internal state changes for the associated T1FA.

`400000` — Digital Signal Zero A (DSO-A) facility events (including control/data codes received).

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual* -
Analog Signaling Link Operating Procedures Section Digital Signaling Link Operating Procedures Section D-channel and Special Access Data Channel International Link Node Signaling Link Operating Procedures Section Signaling Link Operating Procedures Section

Practice 256-090-122 *CNI Maintenance Manual* -
Analog Signaling Link Maintenance Procedures Section Digital Signaling Link Maintenance Procedures Section D-channel and Special Access Data Channel International Link Node Signaling Link Maintenance Procedures Section Signaling Link Maintenance Procedures Section

Output Appendix
`APP:APPENDIX-10`

Output Messages
`MON:SLK`
`REPT:MON-SLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

# 4ESS™/APS Input/Output Message Error Reporting Form

Use this form to report errors and make suggestions for improving the contents of the manual or quarterly release. If an error relates to a specific message, please write your comments on a TTY output or a photocopy of the message documentation and attach it to this form.

Manual: Input ☐ Output ☐

Generic: _____ Issue: _____

Quarterly Release (If applicable) :_____

Message ID(s): _____

Comments: _____

_____

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# 4ESS™/APS Input/Output Message Manual Comment Form

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| | Excellent | Good | Fair | Poor |
|---|---|---|---|---|
| Ease of Use | | | | |
| Accuracy | | | | |
| Completeness | | | | |
| Organization | | | | |
| Appearance | | | | |
| Writing | | | | |
| Clarity | | | | |
| Front Matter | | | | |

1. How did you use this document? (Circle one.)
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   If YES how?_____
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   _____

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# 4ESS™/APS Switch

## Input Messages

## Volume 2

## OP - WHEN

IM-4A001-01
Issue 9.4.1
July 2002

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**VOLUME 2 ALPHABETICAL INDEX**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:ABD | OP:ABD | 4AP17 | 9.1 |
| OP:ACT | OP:ACT | 4AP12 | 9.0 |
| OP:ADB,APP IBGTT | OP:ADB | 4AP12 | 9.0 |
| OP:AIM | OP:AIM | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-CNTLFIL | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-CONFIG | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-DISK | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-MAPS | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-PTRS | 4AP12 | 9.0 |
| OP:AMA;RC | OP:AMA-RC | 4AP14 | 9.0 |
| OP:AMA:RECSRCH | OP:AMA-RECSRCH | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-SESSION | 4AP12 | 9.0 |
| OP:AMA:SRCH | OP:AMA-SRCH | 4AP12 | 9.0 |
| OP:AMA:SSPUNAS | OP:AMA-SSPUNAS | 4AP12 | 9.1 |
| OP:AMA;STATUS | OP:AMA-STAT | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-STREAM | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-SUMMARY | 4AP12 | 9.0 |
| OP:AMA | OP:AMA-TELE | 4AP12 | 9.0 |
| OP:APPFILE | OP:APPFILE | 4AP16 | 9.0 |
| OP:APPLOAD | OP:APPLOAD | 4AP16 | 9.0 |
| OP:ATPCM | OP:ATPCM | 4AP13 | 9.0 |
| OP:AUD | OP:AUD | 4AP12 | 9.0 |
| OP:AUDERR | OP:AUDERR | 4AP12 | 9.0 |
| OP:C7NET | OP:C7NET-A | 4AP12 | 9.0 |
| OP:C7NET | OP:C7NET-B | 4AP14 | 9.1 |
| OP:CFGSTAT | OP:CFGSTAT | 4AP12 | 9.0 |
| OP:CFT | OP:CFT | 4AP18 | 9.3 |
| OP:CLK | OP:CLK | 4AP12 | 9.0 |
| OP:DCC | OP:DCC | 4AP12 | 9.0 |
| OP:DCNAUD | OP:DCNAUD | 4AP14 | 9.0 |
| OP:DCNAUDERR | OP:DCNAUDERR | 4AP14 | 9.0 |
| OP:DFC INFO | OP:DFC-INFO | 4AP12 | 9.0 |
| OP:DFCELOG | OP:DFCELOG | 4AP12 | 9.0 |
| OP:DLNAUD | OP:DLNAUD | 4AP13 | 9.0 |
| OP:DLNCM | OP:DLNCM | 4AP12 | 9.0 |
| OP:DLNESC | OP:DLNESC | 4AP12 | 9.0 |
| OP:DMQ | OP:DMQ | 4AP12 | 9.0 |
| OP:DMSORDERS | OP:DMSORDERS | 4AP12 | 9.0 |
| OP:DNHRMEAS | OP:DNHRMEAS | 4AP12 | 9.0 |
| OP:EMERSTAT | OP:EMERSTAT | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:ERRCHK | OP:ERRCHK | 4AP12 | 9.0 |
| OP:FNAME | OP:FNAME | 4AP12 | 9.1 |
| OP:FTA | OP:FTA | 4AP12 | 9.0 |
| OP:FTF | OP:FTF | 4AP12 | 9.0 |
| OP:GEN | OP:G-READLOG | 4AP12 | 9.0 |
| OP:GROW | OP:GROW | 4AP12 | 9.0 |
| OP:ICDR;CONFIG | OP:ICDR-CONFIG | 4AP12 | 9.0 |
| OP:ICDR;CONTROLFILE | OP:ICDR-CONTROL | 4AP12 | 9.0 |
| OP:ICDR;DISK | OP:ICDR-DISK | 4AP12 | 9.0 |
| OP:ICDR;MAPS | OP:ICDR-MAPS | 4AP12 | 9.0 |
| OP:ICDR;RECORDING | OP:ICDR-RECORD | 4AP12 | 9.0 |
| OP:ICDR;SESSION | OP:ICDR-SESSION | 4AP12 | 9.0 |
| OP:ICDR;TELEPROCESSING | OP:ICDR-TELE | 4AP12 | 9.0 |
| OP:INH:APPDB | OP:INH-APPDB | 4AP12 | 9.0 |
| OP:INIT | OP:INIT | 4AP12 | 9.0 |
| OP:IODRV | OP:IODRV | 4AP12 | 9.0 |
| OP:IOP-INFO | OP:IOP-INFO | 4AP17 | 9.3 |
| OP:LFS | OP:LFS | 4AP12 | 9.0 |
| OP:LIBUF | OP:LIBUF | 4AP12 | 9.0 |
| OP:LNSTAT | OP:LNSTAT | 4AP12 | 9.0 |
| OP:LOG | OP:LOG | 4AP12 | 9.0 |
| OP:MEMERRS | OP:MEMERRS | 4AP12 | 9.0 |
| OP:MHD INFO | OP:MHD-INFO | 4AP12 | 9.0 |
| OP:MT INFO | OP:MT-INFO | 4AP12 | 9.0 |
| OP:NODES | OP:NODES | 4AP16 | 9.1 |
| OP:NPMEM | OP:NPMEM | 4AP12 | 9.0 |
| OP:OFL | OP:OFL | 4AP12 | 9.0 |
| OP:OMDB | OP:OMDB | 4AP13 | 9.0 |
| OP:OOS | OP:OOS | 4AP12 | 9.0 |
| OP:OUTCLS | OP:OUTCLS | 4AP12 | 9.0 |
| OP:PERFMEAS | OP:PERFMEAS | 4AP12 | 9.0 |
| OP:PERFRPT | OP:PERFRPT | 4AP12 | 9.0 |
| OP:PLNTSUM | OP:PLNTSUM | 4AP12 | 9.0 |
| OP:PMCR | OP:PMCR | 4AP12 | 9.0 |
| OP:RCAS | OP:RCAS | 4AP13 | 9.0 |
| OP:REXINH | OP:REXINH | 4AP12 | 9.0 |
| OP:RING | OP:RING | 4AP12 | 9.0 |
| OP:RTM | OP:RTM | 4AP12 | 9.0 |
| OP:RUTIL | OP:RUTIL | 4AP12 | 9.0 |
| OP:SCHD | OP:SCHD | 4AP12 | 9.0 |
| OP:SCSD | OP:SCSD | 4AP12 | 9.0 |
| OP:SDC | OP:SDC | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| OP:SLK | OP:SLK | 4AP12 | 9.1 |
| OP:SMR | OP:SMR | 4AP15 | 9.0 |
| OP:SNAT | OP:SNAT | 4AP12 | 9.0 |
| OP:STATUS:DISKUSE | OP:ST-DISKUSE | 4AP12 | 9.0 |
| OP:STATUS:FILESYS | OP:ST-FILESYS | 4AP12 | 9.0 |
| OP:STATUS:FREEDISK | OP:ST-FRDISK | 4AP12 | 9.0 |
| OP:STATUS:LISTDIR | OP:ST-LSTDIR | 4AP12 | 9.0 |
| OP:STATUS:NSC | OP:ST-NSC | 4AP12 | 9.0 |
| OP:STATUS:PORTS | OP:ST-PORTS | 4AP12 | 9.0 |
| OP:STATUS:PROCESS | OP:ST-PROC | 4AP12 | 9.0 |
| OP:STATUS:SUM | OP:ST-SUM | 4AP12 | 9.0 |
| OP:STBY | OP:STBY | 4AP12 | 9.0 |
| OP:T1M | OP:T1M | 4AP15 | 9.0 |
| OP:TPC | OP:TPC | 4AP12 | 9.0 |
| OP:TRACE | OP:TRACE | 4AP12 | 9.0 |
| OP:TRAP | OP:TRAP | 4AP12 | 9.0 |
| OP:TSC | OP:TSC | 4AP12 | 9.0 |
| OP:ULARP:COMMAND | OP:ULARP-COM | 4AP12 | 9.0 |
| OP:ULARP:EXECSEQ | OP:ULARP-EXEC | 4AP12 | 9.0 |
| OP:ULARP:PROCESS | OP:ULARP-PROC | 4AP12 | 9.0 |
| OP:UMEM | OP:UMEM | 4AP12 | 9.0 |
| OP:UNAV | OP:UNAV | 4AP12 | 9.0 |
| OP:UNEQIP | OP:UNEQIP | 4AP12 | 9.0 |
| OP:UPD | OP:UPD | 4AP13 | 9.0 |
| OP:UTIL | OP:UTIL | 4AP12 | 9.0 |
| OP:VERSION | OP:VERSION | 4AP13 | 9.0 |
| OP:VTOP | OP:VTOP | 4AP12 | 9.0 |
| ORD:SCSD | ORD:SCSD | 4AP12 | 9.0 |
| PUMP:ATP | PUMP:ATP | 4AP13 | 9.0 |
| RC:GTT | RC:GTT | 4AP12 | 9.0 |
| RC:MISC;FHT,FTA | RC:MISC-FHT-FTA | 4AP12 | 9.0 |
| RC:PCP;CHG | RC:PCP-CHG | 4AP12 | 9.0 |
| RCV:DMTECD RC | RCV:DMTE-RC | 4AP12 | 9.1 |
| RCV:DMTECD VFY | RCV:DMTE-VFY | 4AP12 | 9.0 |
| RCV:DMTSG RC | RCV:DMTS-RC | 4AP12 | 9.1 |
| RCV:DMTSG VFY | RCV:DMTS-VFY | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| RCV:MENU:BROWSE | RCV:M-BROWSE | 4AP12 | 9.0 |
| RCV:MENU:COMPAREDB | RCV:M-CMPRDB | 4AP18 | 9.3 |
| RCV:MENU:CREATEECD | RCV:M-CREATEECD | 4AP12 | 9.0 |
| RCV:MENU:CREATESG | RCV:M-CREATESG | 4AP12 | 9.0 |
| RCV:MENU:EVOL | RCV:M-EVOL | 4AP12 | 9.0 |
| RCV:MENU:FDIFF | RCV:M-FDIFF | 4AP12 | 9.0 |
| RCV:MENU:KEYCMP | RCV:M-KEYCMP | 4AP12 | 9.0 |
| RCV:MENU:KEYCOMM | RCV:M-KEYCOMM | 4AP12 | 9.0 |
| RCV:MENU:KEYS | RCV:M-KEYS | 4AP12 | 9.0 |
| RCV:MENU:LOADF3B | RCV:M-LOADF3B | 4AP12 | 9.0 |
| RCV:MENU:NEWDB | RCV:M-NEWDB | 4AP18 | 9.3 |
| RCV:MENU:PRINTDB | RCV:M-PRINTDB | 4AP12 | 9.0 |
| RCV:MENU:PRINTFRM | RCV:M-PRINTFRM | 4AP12 | 9.0 |
| RCV:MENU:RCVECD | RCV:M-RCVECD | 4AP12 | 9.0 |
| RCV:MENU:RCVSG | RCV:M-RCVSG | 4AP12 | 9.0 |
| RCV:MENU:TRANSGEN | RCV:M-TRANSGEN | 4AP12 | 9.0 |
| RCV:MENU:TREEBLD | RCV:M-TREEBLD | 4AP12 | 9.0 |
| RCV:MENU:VFYDFLT | RCV:M-VFYDFLT | 4AP12 | 9.0 |
| REKEY:SLK | REKEY:SLK | 4AP12 | 9.0 |
| REPT:SLK INHALM | REPT:SLK-INHALM | 4AP12 | 9.0 |
| RFT:ABORT | RFT:ABORT | 4AP12 | 9.0 |
| RFT:BEGINPOST | RFT:BEGINPOST | 4AP12 | 9.0 |
| RFT:FDUMP | RFT:FDUMP | 4AP12 | 9.0 |
| RFT:PRINT | RFT:PRINT | 4AP12 | 9.0 |
| RMV:CU | RMV:CU | 4AP12 | 9.0 |
| RMV:DCI | RMV:DCI | 4AP12 | 9.0 |
| RMV:DFC | RMV:DFC | 4AP12 | 9.0 |
| RMV:DUI | RMV:DUI | 4AP12 | 9.0 |
| RMV:DUIC | RMV:DUIC | 4AP12 | 9.0 |
| RMV:HSD | RMV:HSD | 4AP12 | 9.0 |
| RMV:HSDC | RMV:HSDC | 4AP12 | 9.0 |
| RMV:IOP | RMV:IOP | 4AP12 | 9.0 |
| RMV:LN | RMV:LN | 4AP12 | 9.0 |
| RMV:MHD | RMV:MHD | 4AP12 | 9.0 |
| RMV:MT | RMV:MT | 4AP12 | 9.0 |
| RMV:MTC | RMV:MTC | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| RMV:MTTY | RMV:MTTY | 4AP12 | 9.0 |
| RMV:MTTYC | RMV:MTTYC | 4AP12 | 9.0 |
| RMV:ROP | RMV:ROP | 4AP12 | 9.0 |
| RMV:RPCN | RMV:RPCN | 4AP12 | 9.0 |
| RMV:SBUS | RMV:SBUS | 4AP12 | 9.0 |
| RMV:SCC | RMV:SCC | 4AP12 | 9.0 |
| RMV:SCSDC | RMV:SCSDC | 4AP12 | 9.0 |
| RMV:SDL | RMV:SDL | 4AP12 | 9.0 |
| RMV:SDLC | RMV:SDLC | 4AP12 | 9.0 |
| RMV:TTY | RMV:TTY | 4AP12 | 9.0 |
| RMV:TTYC | RMV:TTYC | 4AP12 | 9.0 |
| RNM:PSSWD | RNM:PSSWD | 4AP12 | 9.0 |
| RST:CU | RST:CU | 4AP12 | 9.0 |
| RST:DCI | RST:DCI | 4AP12 | 9.0 |
| RST:DFC | RST:DFC | 4AP12 | 9.0 |
| RST:DUI | RST:DUI | 4AP12 | 9.0 |
| RST:DUIC | RST:DUIC | 4AP12 | 9.0 |
| RST:EAI | RST:EAI | 4AP12 | 9.0 |
| RST:HSD | RST:HSD | 4AP12 | 9.0 |
| RST:HSDC | RST:HSDC | 4AP12 | 9.0 |
| RST:IOP | RST:IOP | 4AP12 | 9.0 |
| RST:LN | RST:LN | 4AP12 | 9.0 |
| RST:MHD | RST:MHD | 4AP12 | 9.0 |
| RST:MT | RST:MT | 4AP12 | 9.0 |
| RST:MTC | RST:MTC | 4AP12 | 9.0 |
| RST:MTTY | RST:MTTY | 4AP12 | 9.0 |
| RST:MTTYC | RST:MTTYC | 4AP12 | 9.0 |
| RST:ROP | RST:ROP | 4AP12 | 9.0 |
| RST:RPCN | RST:RPCN | 4AP12 | 9.0 |
| RST:SBUS | RST:SBUS | 4AP12 | 9.0 |
| RST:SCC | RST:SCC | 4AP12 | 9.0 |
| RST:SCSDC | RST:SCSDC | 4AP12 | 9.0 |
| RST:SDL | RST:SDL | 4AP12 | 9.0 |
| RST:SDLC | RST:SDLC | 4AP12 | 9.0 |
| RST:TTY | RST:TTY | 4AP12 | 9.0 |
| RST:TTYC | RST:TTYC | 4AP12 | 9.0 |
| SEND:0 | SEND:0 | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| SET:AMA | SET:AMA-CONFIG | 4AP12 | 9.0 |
| SET:AMA;CONTROL | SET:AMA-CONTROL | 4AP12 | 9.0 |
| SET:AMA;RC | SET:AMA-RC | 4AP14 | 9.0 |
| SET:AMA | SET:AMA-RECMODE | 4AP12 | 9.0 |
| SET:AMA | SET:AMA-STREAM | 4AP12 | 9.0 |
| SET:CLK | SET:CLK | 4AP12 | 9.0 |
| SET:DLNAP | SET:DLNAP | 4AP12 | 9.0 |
| SET:DLNPANIC | SET:DLNPANIC | 4AP12 | 9.0 |
| SET:ICDR;CONFIG | SET:ICDR-CONFIG | 4AP12 | 9.0 |
| SET:ICDR;CONTROL | SET:ICDR-CONTROL | 4AP12 | 9.0 |
| SET:ICDR;RECORDING | SET:ICDR-RECORD | 4AP12 | 9.0 |
| SET:IODRV | SET:IODRV | 4AP12 | 9.0 |
| SET:LFS | SET:LFS | 4AP12 | 9.0 |
| SET:T1M | SET:T1M | 4AP15 | 9.0 |
| SET:TRACE | SET:TRACE | 4AP12 | 9.0 |
| SET:TRAP | SET:TRAP | 4AP12 | 9.0 |
| SET:TSC | SET:TSC | 4AP12 | 9.0 |
| START:ADB,APP IBGTT | START:ADB | 4AP12 | 9.0 |
| START:CRCUPD | START:CRCUPD | 4AP13 | 9.0 |
| START:DADC | START:DADC | 4AP12 | 9.0 |
| START:DCC | START:DCC | 4AP12R4 | 9.1 |
| START:DLNCM,STREAM | START:DLNCM | 4AP12 | 9.0 |
| START:EVENTSESS | START:EVENTSESS | 4AP12 | 9.0 |
| START:FTA | START:FTA | 4AP12 | 9.0 |
| START:NVTSESS | START:NVTSESS | 4AP14 | 9.0 |
| START:PING | START:PING | 4AP14 | 9.0 |
| START:RCBUFGET | START:RCBUFGET | 4AP13 | 9.0 |
| START:RCBUFPUT | START:RCBUFPUT | 4AP13 | 9.0 |
| STOP:ADB,APP IBGTT | STOP:ADB | 4AP12 | 9.0 |
| STOP:AIM;PROC | STOP:AIM | 4AP12 | 9.0 |
| STOP:AMATAPE | STOP:AMATAPE | 4AP12 | 9.0 |
| STOP:ATPAUD | STOP:ATPAUD | 4AP13 | 9.0 |
| STOP:ATPCM | STOP:ATPCM | 4AP13 | 9.0 |
| STOP:AUD | STOP:AUD | 4AP12 | 9.0 |
| STOP:BKDISK | STOP:BKDISK | 4AP12 | 9.0 |
| STOP:CMPR MHD | STOP:CMPR-MHD | 4AP12 | 9.0 |
| STOP:COPY DIFF | STOP:COPY-DIFF | 4AP12 | 9.0 |
| STOP:DADC | STOP:DADC | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| STOP:DCC | STOP:DCC | 4AP12 | 9.0 |
| STOP:DCI | STOP:DCI | 4AP12 | 9.0 |
| STOP:DCNAUD | STOP:DCNAUD | 4AP14 | 9.0 |
| STOP:DLNCM,STREAM | STOP:DLNCM | 4AP12 | 9.0 |
| STOP:DMQ | STOP:DMQ | 4AP12 | 9.0 |
| STOP:EXC ANY | STOP:E-ANY | 4AP12 | 9.0 |
| STOP:EXC:USER | STOP:E-USER | 4AP12 | 9.0 |
| STOP:EVENTSESS | STOP:EVENTSESS | 4AP12 | 9.0 |
| STOP:FTA | STOP:FTA | 4AP12 | 9.0 |
| STOP:GEN | STOP:GEN | 4AP12 | 9.0 |
| STOP:LFS | STOP:LFS | 4AP12 | 9.0 |
| STOP:NVTSESS | STOP:NVTSESS | 4AP12 | 9.0 |
| STOP:OFLBOOT | STOP:OFLBOOT | 4AP12 | 9.0 |
| STOP:RCBUFGET | STOP:RCBUFGET | 4AP13 | 9.0 |
| STOP:RCBUFPUT | STOP:RCBUFPUT | 4AP13 | 9.0 |
| STOP:TRAP | STOP:TRAP | 4AP12 | 9.1 |
| STOP:UPD | STOP:UPD | 4AP13 | 9.0 |
| SW:ATP | SW:ATP | 4AP13 | 9.0 |
| SW:CLOCK | SW:CLOCK | 4AP12 | 9.0 |
| SW:CU | SW:CU | 4AP12 | 9.0 |
| SW:DLN | SW:DLN | 4AP12 | 9.0 |
| SW:OFLBOOT | SW:OFLBOOT | 4AP12 | 9.0 |
| SW:PORTSW | SW:PORTSW | 4AP12 | 9.0 |
| UPD:APPDL | UPD:APPDL | 4AP16R2 | 9.1 |
| UPD:APPL | UPD:APPL | 4AP12 | 9.0 |
| UPD:APPLY:BYTER | UPD:APPLY-BYTER | 4AP13 | 9.0 |
| UPD:APPLY:FILER | UPD:APPLY-FILER | 4AP13 | 9.0 |
| UPD:APPLY:FUNCR | UPD:APPLY-FUNCR | 4AP13 | 9.0 |
| UPD:APPLY:UNIXCMD | UPD:APPLY-UNIX | 4AP13 | 9.0 |
| UPD:AUTO | UPD:AUTO | 4AP13 | 9.0 |
| UPD:AUTOCHK | UPD:AUTOCHK | 4AP13 | 9.0 |
| UPD:AUTOPROFILE | UPD:AUTOPROFILE | 4AP13 | 9.0 |
| UPD:AUTOSCHED | UPD:AUTOSCHED | 4AP13 | 9.0 |
| UPD:BKOUT | UPD:BKOUT | 4AP13 | 9.0 |
| UPD:BLDBOOT | UPD:BLDBOOT | 4AP13 | 9.0 |
| UPD:BLOCK | UPD:BLOCK | 4AP13 | 9.0 |
| UPD:BOLO | UPD:BOLO | 4AP13 | 9.0 |
| UPD:BWMNIO | UPD:BWMNIO | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| UPD:CHG:APPLY | UPD:CHG-APPLY | 4AP13 | 9.0 |
| UPD:CHG:BKOUT | UPD:CHG-BKOUT | 4AP13 | 9.0 |
| UPD:CHG:INST | UPD:CHG-INST | 4AP13 | 9.0 |
| UPD:CHG:SKTM | UPD:CHG-SKTM | 4AP13 | 9.0 |
| UPD:CLR | UPD:CLR | 4AP13 | 9.0 |
| UPD:CLRBWM | UPD:CLRBWM | 4AP13 | 9.0 |
| UPD:CSCANS:REPORT | UPD:CSCANS-REPT | 4AP13 | 9.0 |
| UPD:CSCANS:STOP | UPD:CSCANS-STOP | 4AP13 | 9.0 |
| UPD:DCHN | UPD:DCHN | 4AP13 | 9.0 |
| UPD:DISPLAY | UPD:DISPLAY | 4AP13 | 9.0 |
| UPD:DISPLYUPD | UPD:DISPLYUPD | 4AP13 | 9.0 |
| UPD:EXALL | UPD:EXALL | 4AP13 | 9.0 |
| UPD:EXNXT | UPD:EXNXT | 4AP13 | 9.0 |
| UPD:EXPAND | UPD:EXPAND | 4AP13 | 9.0 |
| UPD:FLASH | UPD:FLASH | 4AP12 | 9.0 |
| UPD:FLASH DFC | UPD:FLASH-DFC | 4AP12 | 9.0 |
| UPD:FTRC | UPD:FTRC | 4AP12 | 9.0 |
| UPD:GEN APPLPROC | UPD:G-APPLPROC | 4AP12 | 9.0 |
| UPD:GEN;BKOUT | UPD:G-BKOUT | 4AP12 | 9.0 |
| UPD:GEN COMMIT | UPD:G-COMMIT | 4AP12 | 9.0 |
| UPD:GEN CONTINUE | UPD:G-CONT | 4AP12 | 9.0 |
| UPD:GEN;ENTER | UPD:G-ENTER | 4AP12 | 9.0 |
| UPD:GEN PROCEED | UPD:G-PROCD | 4AP12 | 9.0 |
| UPD:GEN RESTORE | UPD:G-RESTR | 4AP12 | 9.0 |
| UPD:GENP | UPD:GENP | 4AP13 | 9.0 |
| UPD:INITPW | UPD:INITPW | 4AP13 | 9.0 |
| UPD:NXTWNDW | UPD:NXTWNDW | 4AP13 | 9.0 |
| UPD:OFC | UPD:OFC | 4AP13 | 9.0 |
| UPD:OMDB | UPD:OMDB | 4AP12 | 9.0 |
| UPD:OMIT | UPD:OMIT | 4AP12 through 4AP13 | 9.0 |
| UPD PERM | UPD:PERM | 4AP12 through 4AP13 | 9.0 |
| UPD:PRINT | UPD:PRINT | 4AP13 | 9.0 |
| UPD:PRINT:BWMFILE | UPD:PRINT-BWM | 4AP13 | 9.0 |
| UPD:PRINT:SKTM | UPD:PRINT-SKTM | 4AP13 | 9.0 |
| UPD:PRVWNDW | UPD:PRVWNDW | 4AP13 | 9.0 |
| UPD:RCVRY | UPD:RCVRY | 4AP13 | 9.0 |
| UPD:REBOOT | UPD:REBOOT | 4AP13 | 9.0 |
| UPD RECLAIM | UPD:RECLAIM | 4AP12 through 4AP13 | 9.0 |
| UPD:RECOVERY | UPD:RECOVERY | 4AP13 | 9.0 |
| UPD:REDUCE | UPD:REDUCE | 4AP13 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**

| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| UPD:RESET | UPD:RESET | 4AP13 | 9.0 |
| UPD:SCP | UPD:SCP | 4AP12 | 9.0 |
| UPD:START:EASYBWM | UPD:START-EASY | 4AP13 | 9.0 |
| UPD:STOP:EXC | UPD:STOP-EXC | 4AP13 | 9.0 |
| UPD:STOP:SOAK | UPD:STOP-SOAK | 4AP13 | 9.0 |
| UPD:UPDCON | UPD:UPDCON | 4AP13 | 9.0 |
| UPD:UPDDSPLY | UPD:UPDDSPLY | 4AP13 | 9.0 |
| UPD:UPNAME | UPD:UPNAME | 4AP13 | 9.0 |
| UPD:VERSION | UPD:VERSION | 4AP13 | 9.0 |
| UPD:VFY | UPD:VFY | 4AP13 | 9.0 |
| UPD:VFYBWM | UPD:VFYBWM | 4AP13 | 9.0 |
| UPD:VFYCON | UPD:VFYCON | 4AP13 | 9.0 |
| UPD:XTSI | UPD:XTSI | 4AP15 | 9.0 |
| VER:AMATAPE | VER:AMATAPE | 4AP12 | 9.0 |
| VER:APPFILE | VER:APPFILE | 4AP16 | 9.0 |
| VER:APPTAPE | VER:APPTAPE | 4AP16 | 9.0 |
| VER:ATP;ATV | VER:ATP-ATV | 4AP13R4 | 9.1 |
| VER:ATP;FEATURE | VER:ATP-FEATURE | 4AP13 | 9.1 |
| VER:ATP;RESTRICT | VER:ATP-RESTRICT | 4AP16 | 9.1 |
| VER:ATP:STOP | VER:ATP-STOP | 4AP13 | 9.0 |
| VER:ATP;TRIGGER | VER:ATP-TRIGGER | 4AP13 | 9.1 |
| VER:COAMS | VER:COAMS | 4AP12 | 9.0 |
| VER:DCC | VER:DCC | 4AP12 | 9.0 |
| VER:DGA | VER:DGA | 4AP16 | 9.1 |
| VER:GT6TRAN | VER:GT6TRAN | 4AP12 | 9.0 |
| VER:GTT | VER:GTT | 4AP12 | 9.0 |
| VER:GTT:CRCHK | VER:GTT-CRCHK | 4AP12 only | 9.0 |
| VER:GTT:FEXPN | VER:GTT-FEXPN | 4AP12 only | 9.0 |
| VER:LVFILE | VER:LVFILE | 4AP16 | 9.1 |
| VER:MEMORY | VER:MEMORY | 4AP13 | 9.1 |
| VER:PCP | VER:PCP | 4AP12 | 9.0 |
| VER:SD:NID | VER:SD-NID | 4AP15 | 9.0 |
| VER:SD:NULLPARM | VER:SD-NULLPARM | 4AP15 | 9.0 |
| VER:SD;OLI | VER:SD-OLI | 4AP16 | 9.0 |
| VER:UPDATE | VER:UPDATE | 4AP16 | 9.0 |
| VFY:FILE | VFY:FILE | 4AP12 | 9.0 |
| VFY:MHD | VFY:MHD | 4AP12 | 9.0 |
| VFY:PAUTH | VFY:PAUTH | 4AP12 | 9.0 |

SEE PROPRIETARY NOTICE ON COVER PAGE

**Volume 2 Alphabetical Index (Continued)**


| MESSAGE NAME | MESSAGE ID | START GENERIC | ISSUE |
|---|---|---|---|
| VFY:PCGRP | VFY:PCGRP | 4AP12 | 9.0 |
| VFY:PROFL | VFY:PROFL | 4AP12 | 9.0 |
| VFY:TAPE | VFY:TAPE | 4AP12 | 9.0 |
| VFY:TAUTH | VFY:TAUTH | 4AP12 | 9.0 |
| VFY:TCGRP | VFY:TCGRP | 4AP12 | 9.0 |
| WHEN:COND | WHEN:COND | 4AP12 | 9.0 |
| WHEN:PID | WHEN:PID | 4AP12 | 9.0 |
| WHEN:RUTIL | WHEN:RUTIL | 4AP12 | 9.0 |
| WHEN:UID | WHEN:UID | 4AP12 | 9.0 |
| APPENDIX AUDIT | APP:AUD | 4AP12 | 9.0 |
| APPENDIX MEMBER NUMBERS A | APP:MEM-NUM-A | 4AP13 | 9.0 |
| APPENDIX MEMBER NUMBERS B | APP:MEM-NUM-B | 4AP12 | 9.0 |
| APPENDIX MEMBER NUMBERS C | APP:MEM-NUM-C | 4AP12 | 9.0 |
| APPENDIX MEMBER NUMBERS D | APP:MEM-NUM-D | 4AP12 | 9.0 |


SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ABD
WORK CENTER . . MOC
GENERIC . . . . . 4AP17 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Provides a list of all available Alternate Boot Disk units on the switch. Information within the list will identify whether or not the unit may be used as a boot disk and if so, the date when the unit was last updated. An optional format allows the craft to obtain this information for a specific unit.

**NOTE**: Only data from the primary partitions is used to determine if a unit is a valid boot disk. No checking is done on the backup partitions.

## 2. FORMAT

**`OP:ABD`**`[ a]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit number. See Input Member Numbers Appendix, `APP:MEM-NUM-C`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `?V` | Verb field contains an error. |
| `PF` | Printout Follows. Followed by an `OP:ABD` output message. |

## 5. REFERENCES

Appendix
`APP:MEM-NUM-C`

Output Message
`OP:ABD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ACT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Provides a list of all currently active computer hardware units. An optional format provides a list of all active units of a particular type.

## 2. FORMAT

**OP:ACT**[:{a[ b][,c d]}]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name. Computer unit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| c | Subunit name, If unit name is CU, computer Control Unit (CU) subunit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| d | Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by the OP:ACT output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Appendixes
APP:MEM-NUM-C
APP:MEM-NUM-D

Input Message
OP:CFGSTAT

Output Messages
OP:ACT
OP:CFGSTAT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ADB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints out information about the Automated Database Backup (ADB).

Format 1 returns the current permission for execution of ADB.

Format 2 returns the result of the last iteration of ADB.

## 2. FORMAT

[1] **`OP:ADB,APP a,PERM!`**

[2] **`OP:ADB,APP a,LOG!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Customer name (only `IBGTT` is currently supported). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Requested information will be output. |

## 5. REFERENCES

Input Messages
- `ALW:ADB`
- `INH:ADB`
- `START:ADB`
- `STOP:ADB`

Output Messages
- `OP:ADB-LOG`
- `OP:ADB-PERM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests Application Integrity Monitor (AIM) process to print status information to the Read Only Printer (ROP).

Format 1 outputs a status report on all active events, actions, and processes.

Format 2 outputs a status report on all active events or the status of one specific event.

Format 3 outputs a status report on all actions or the status of one specific action.

Format 4 outputs a status report on all AIM child processes or the status of one specific child process.

## 2. FORMAT

[1] **OP:AIM;ALL!**

[2] **OP:AIM;EVENT** ["a"]**!**

[3] **OP:AIM;ACTION** ["b"]**!**

[4] **OP:AIM;PROC** ["c"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Event name. See Table 1 for a list of AIM events. |
| b | Action name. See Table 2 for a list of AIM actions. |
| c | Process Name. See Table 3 for a list of AIM processes. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Error was found while parsing message. No output will follow. |
| PF | Printout Follows. Request was received and understood by AIM. |
| RL | Retry Later. AIM cannot honor the request at the present time. This is caused either by overload or by the fact that the AIMSTUB process is not running. No output will follow. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 1
AIM EVENT DEFINITIONS

| Event | Event Definition |
|---|---|
| badidx | Internal error; an out-of-range index was used. |
| monfai | Process repetitive monitoring failed. |
| schdfl | Could not schedule a task. |
| towait | Timed out while waiting for event. |
| badafle | No aimfile.d exists or it is corrupt. |
| badevnt | Internal error; task received unexpected event. |
| tskfail | Task failed to complete. |
| msgbuf | UNIX® RTR mesg buffer overload. |
| memlow | UNIX® RTR memory (mod 0) overload. |
| swaplow | UNIX® RTR swap space overload. |
| sdelow | UNIX® RTR SDE overload. |
| dctlow | UNIX® RTR DCTE overload. |
| mem1low | UNIX® RTR memory (mod 1) overload. |
| klock | UNIX® RTR kernel lockout detected. |
| teovld | UNIX® RTR timed event overload. |
| suovld | UNIX® RTR supervisor/user overload. |
| fmgovld | UNIX® RTR file manager overload. |
| dfcovld | UNIX® RTR disk driver overload. |
| iopboot | UNIX® RTR IOP bootstrapped due to overload. |
| iopovld | UNIX® RTR IOP overload. |
| dlopovl | UNIX® RTR data link output overload. |
| dlinovl | UNIX® RTR data link input overload. |
| sopovld | UNIX® RTR Spooler Output overload. |
| eailvl0 | Mapped to 42-0-50. |
| eailvl1 | Mapped to 42-1-50. |
| eailvl2 | Mapped to 42-2-50. |
| eailvl3 | Mapped to 42-3-50. |
| eailvl4 | Mapped to 42-4-50. |
| eailvl5 | Mapped to 42-5-50. |
| eailvl6 | Mapped to 42-6-50. |
| eailvl7 | Mapped to 42-7-50. |
| eailvl8 | Mapped to 42-8-50. |
| eailvl9 | Mapped to 42-9-50 |
| reqrtr0 | AIM child requested UNIX® RTR Phase 50. |
| reqrtr1 | AIM child requested UNIX® RTR Phase 51. |
| reqrtr2 | AIM child requested UNIX® RTR Phase 52. |
| reqrtr3 | AIM child requested UNIX® RTR Phase 53. |
| amarbuf | AMA receive buffer load pointer movement timeout. |
| no1acom | Loss of 1B Communications. |

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 1 (cont'd)
AIM EVENT DEFINITIONS

| Event | Event Definition |
|---|---|
| nostrea | Loss of dln stream. |
| noidle | No idle time for ?? minutes. |
| fmgrrt | File Manager Real-Time overload detected. |
| ioprt | IODRV Real-Time overload detected. |
| amarfbu | AMA receive buffer load pointer movement timeout. |
| amafbuf | AMA receive buffer unload pointer movement timeout. |
| amasbuf | AMA SDS buffer load pointer movement timeout. |
| amasdbu | AMA SDS buffer unload pointer movement timeout. |
| nodrv | Cannot run APDRV. |

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 2
AIM ACTION DEFINITIONS

| Action | Action Definition |
|---|---|
| init0 | AIM runs this action on UNIX® RTR Phase 50. |
| init1 | AIM runs this action on UNIX® RTR Phase 51. |
| init2 | AIM runs this action on UNIX® RTR Phase 52. |
| init3 | AIM runs this action on UNIX® RTR Phase 53. |
| init4 | AIM runs this action on UNIX® RTR Phase 54. |
| minboot | Starts APDRV, CNI/IMS. |
| phase0 | Execute UNIX® RTR Phase 50. |
| phase1 | Execute UNIX® RTR Phase 51. |
| phase2 | Execute UNIX® RTR Phase 52. |
| phase3 | Execute UNIX® RTR Phase 53. |
| stopaim | Stop AIM utility processes. |
| stopnsc | Stop Network Services Complex processes. |
| stopnm | Stop Nemos processes. |
| stopcft | Stop craft processes. |
| zampas | Zero AMA PAS segments. |
| zapama | Stop AMA processes, zero AMA PAS, and restart AMA. |
| stopama | Stop AMA processes. |
| runaim | Run AIM utility processes. |
| runnsc | Run Network Services Complex processes. |
| runnm | Run Nemos processes. |
| runcft | Run craft processes. |
| runama | Run AMA processes. |
| boot | Common task run by all bootstrap levels. |
| trace | Execute an interrupt stack dump to PAS. |
| pdboot | Enable PANIC DUMP and have it phase system. |
| pdenabl | Enable PANIC DUMP for next phase (but no phase called). |
| rstama | Restart AMA processes. |
| rstnsc | Restart Network Services Complex processes. |
| rstnm | Restart Nemos processes. |
| rstunix | Kill off all UNIX® processes (system-wide). |
| rstaim | Restart AIM utility processes. |
| rstcft | Restart craft processes. |

SEE PROPRIETARY NOTICE ON COVER PAGE

TABLE 3
AIM PROCESS DEFINITIONS

| Process | Process Definition |
|---|---|
| aimstub | aim: AIM UNIX® agent. |
| apdrv | minboot: API device driver interface. |
| rusdhou | craft: measurements. |
| ovldcnt | craft: |
| rtkern | aim: |
| recovda | aim: panic dump handler. |
| nscosm | coams: nsc_to_osm process. |
| lnkmon | coams: link monitor process. |
| hustat | coams: |
| indir | coams: input director. |
| nm5min | nemos: 5 min session. |
| nm30sec | nemos: 30 sec session. |
| nmdmd | nemos: demand session. |
| nmecho | nemos: echo session. |
| nmcntl | nemos: control process. |
| iras | iras: IRrcv1a process. |
| rexwarn | craft: |
| apsmeas | craft: 1B measurements. |
| aplupd | craft: |
| arp | craft: alarm retire process. |
| apsdup | craft: 135 page. |
| arts | craft: 1106,1107 page (and others). |
| ammonin | ama: ICDR tape/tele monitor. |
| ammonoc | ama: OC stream tape/tele monitor. |
| ammonic | ama: IC stream tape/tele monitor. |
| amdwin | ama: ICDR disk writer. |
| amdwoc | ama: OC stream disk writer. |
| amdwic | ama: IC stream disk writer. |
| amforma | ama: formatter process. |
| aminit | ama: file system initialization process. |
| amarcvr | ama: receiver process. |
| dlncm | ring: DLN manager. |
| ringini | ring: RInginit/RIngmon. |
| ksdump | aim: istack dump process. |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-CNTLFIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Obtains the current state of the Automatic Message Accounting (AMA) control file.

## 2. FORMAT

**OP:AMA;CONTROLFILE[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if AMA data goes to the operating company revenue accounting office data stream.

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, if the stream is not specified, information on both streams will be output.

## 4. SYSTEM RESPONSE

NG No Good. Data stream checks failed.

PF Printout Follows. Followed by output message REPT:AMA-CONTL.

RL Retry Later. Message could not be sent to the AMA monitor process. Try again later. If the problem persists, refer to the AMA TOPS procedure for further resolution.

## 5. REFERENCES

Input Messages
- ALW:AMA-AUTOST
- ALW:AMA-SESS
- INH:AMA-AUTOST
- INH:AMA-SESS
- OP:AMA-STREAM
- SET:AMA-CONTROL

Output Messages
- REPT:AMA-CONT
- REPT:AMA-CONTL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-CONFIG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Displays the current status of the Automatic Message Accounting (AMA) configuration files.

## 2. FORMAT

**`OP:AMA;CONFIG[:OC|:IC|:DF|:DM]!`**

## 3. EXPLANATION OF MESSAGE

**`OC`** Used if AMA data goes to the operating company revenue accounting office data stream.

**`IC`** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**`DF`** Used for the Deferred Formatting data stream.

**`DM`** Used for the Disk Mode data stream.

**NOTE:** The stream does not have to be specified. However, for a dual data stream office, if the stream is not specified, information on each data stream that is defined will be output.

## 4. SYSTEM RESPONSE

`NG` No Good. Data stream checks failed. Followed by explanation.

`PF` Printout Follows. State of the configuration files will be output.

`RL` Retry Later. Process could not attach to a Protected Application Segment (PAS), or message could not be sent to monitor processes.

## 5. REFERENCES

Input Message
`SET:AMA-CONFIG`

Output Message
`REPT:AMA-CONFIG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-DISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests current Automatic Message Accounting (AMA) or Call Detail Recording Platform's (CDRP) Disk Mode disk space occupancy data. For revenue accounting office data streams, the output message generated by this request displays the current amount of disk space occupied by primary AMA records. For the Deferred Formatting data stream, the output message generated by this request displays the current amount of disk space occupied by raw billing data.

## 2. FORMAT

**OP:AMA;DISK[:OC|:IC|:DF|:DM]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if AMA data goes to the operating company revenue account office data stream.

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**DF** Used for the Deferred Formatting data stream.

**DM** Used for the Disk Mode data stream.

**NOTE:** The stream does not have to be specified. However, for a dual data stream office, if the stream is not specified, information on each data stream that is defined will be output.

## 4. SYSTEM RESPONSE

NG No Good. Data stream checks failed. Followed by explanation.

PF Printout Follows. Followed by REPT:AMA-D-SUM output message.

RL Retry Later. Status cannot be obtained. If the problem persists, refer to the AMA TOPS procedures for further resolution.

## 5. REFERENCES

Input Message
OP:AMA-STREAM

Output Message
REPT:AMA-D-SUM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-MAPS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Displays the current status of the Automatic Message Accounting (AMA) disk maps.

## 2. FORMAT

**OP:AMA;MAPS[:OC|:IC|:DF|:DM]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if AMA data goes to the operating company revenue accounting office data stream.

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**DF** Used to output Deferred Formatting disk maps.

**DM** Used to output Disk Mode disk maps.

**NOTE:** If this is a multiple data stream office, and the stream indicator is not specified, information on all defined streams is output.

## 4. SYSTEM RESPONSE

NG No Good. Data stream checks failed. Followed by an explanation.

PF Printout Follows. Requested information will be output.

RL Retry Later. Could not attach to protected application segment (PAS).

## 5. REFERENCES

Output Message
REPT:AMA-D-MAPS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-PTRS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints out the information of Automatic Message Accounting (AMA) pointers.

The information includes the load and unload pointers of the receive buffer, the number of recording registers, the offsets into the SDS buffers, the current event limit for formatting AMA/ICDR records, deferred formatting status information, and deferred formatting buffer information.

## 2. FORMAT

**`OP:AMA;PTRS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-RC
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message does a dump of the current values of all the Recent Changeable (**RC**) parameters for Ethernet® Interface Node (EIN) and Call Detail Recording Platform (CDRP).

## 2. FORMAT

**OP:AMA;RC!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |
| RL | Retry Later. |

## 5. REFERENCES

Input Message
SET:AMA-RC

Output Message
REPT:RECENT-CHANG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:AMA-RECSRCH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Searches Automatic Message Accounting (AMA) data for a given structure code or call code and prints out the formatted AMA record with that code.

## 2. FORMAT

**OP:AMA:RECSRCH,AMA**[ a],{**SC** b|**CC** c},**SBLK** d,**EBLK** e!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Number of the partition to search through. Default = partition /dev/ama is searched. |
| b | Number of the structure code to search for. |
| c | Number of the call code to search for. |
| d | Indicates the AMA disk block to start search. Disk block number is relative to start of partition. Ex: SBLK 1 is one block into AMA partition. |
| e | Indicates that the next number is the AMA disk block to end search. Again, disk block number is relative to start of partition. Examples:<br><br>OP:AMA:RECSRCH,AMA 1,SC 1063,SBLK 6,EBLK 201! Finds and prints all occurrences of structure code 1063 in AMA partition 1 that are in blocks 6 to 201. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |
| ?I | Identification field contains an error. |
| PF | Printout Follows. Printout of either formatted records or error message if failure. |

## 5. REFERENCES

Output Message
OP:AMA-RECSRCH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-SESSION
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Obtains the status of the current or most recent Automatic Message Accounting (AMA) tape or teleprocessing session.

## 2. FORMAT

**OP:AMA;SESSION[:OC|:IC]!**

## 3. EXPLANATION OF MESSAGE

**OC** Used if AMA data goes to the operating company revenue accounting office data stream.

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, if the stream is not specified, information on both streams will be output.

## 4. SYSTEM RESPONSE

NG No Good. Data stream checks failed.

PF Printout Follows. Followed by a REPT:AMA-TELE-SE output message if the AMA teleprocessing option is in effect or a REPT:AMA-TA-SE output message if the tape option is in effect. If any invalid data was encountered while processing the input message, an audit printout will follow.

RL Retry Later. Message could not be sent to the appropriate process. If the problem persists, refer to the AMA TOPS procedure for further resolution.

## 5. REFERENCES

Input Message
OP:AMA-STREAM

Output Messages
REPT:AMA-TA-SE
REPT:AMA-TELE-SE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:AMA-SRCH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Searches Automatic Message Accounting (AMA) data for a given sequence number and prints out disk block where the number is found.

Examples:

`OP:AMA:SRCH,AMA 1,DFC 0,SEQ 1201,ALL!` Computes where sequence number 1201 maps to on the disk and partition specified. If number is not found where it maps to, find all occurrences of sequence number 1201 in partition `/dev/ama1 dfc 0` within 10 disk blocks of where the number maps to.

`OP:AMA:SRCH,AMA,DFC 1,SEQ 100,RADIUS 20!` Find first occurrence of sequence number 100 in partition `/dev/ama dfc 1` within 20 disk blocks of where number maps to, if the number is not found where it should be.

## 2. FORMAT

**OP:AMA:SRCH,AMA**[ a]**,DFC** b**,SEQ** c[**,RADIUS** d][**,ALL**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Indicates that the next number is the number of the partition to search through. Default = partition `/dev/ama` is searched. |
| b | Indicates that the next number is the Disk File Controller number which will indicate which of the duplexed disks, that contain the specified partition, to search. |
| c | Indicates that the next number is the sequence number to search for. |
| d | Indicates that the next number is the number of disk blocks around the location where the sequence number should be that the routine should search for the key. If this number is not specified, the default is 10 disk blocks. |
| **ALL** | Indicates that the routine should search for all keys that match within the search radius if the key is not found where it should be. If this keyword is not present, the routine stops on the first occurrence of the key. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Printout of either correct physical address or error message if could not convert. |

## 5. REFERENCES

Output Message
`OP:AMA-SRCH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-SSPUNAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To output the status of the BOC Service Switching Point (SSP) unanswered Telco study indicator. Note the Telco records are intra-LATA records.

This message is used to determine whether the unanswered Telco BOC SSP study is inhibited (turned off) or allowed (turned on).

## 2. FORMAT

**`OP:AMA:SSPUNAS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. A message is output indicating whether the study is inhibited or allowed. |

## 5. REFERENCES

Input Messages
`ALW:AMA-SSPUNAS`
`INH:AMA-SSPUNAS`

Output Message
`REPT:AMA-SSPUNAS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-STAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints out the information in the Automatic Message Accounting (AMA) status table in Protected Application Segment (PAS), receive buffer, and disk mode receive buffer pointers.

Prints out AMA status table, disk mode field, receive buffer load pointer, disk mode receive buffer load, unload and processed pointers, receive buffer and disk mode receive buffer occupancy.

## 2. FORMAT

**`OP:AMA;STATUS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. |
| `RL` | Retry Later. Process could not attach to a PAS, or cannot create a temp file. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-STREAM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Indicates whether the office is a dual or a single data stream Automatic Message Accounting (AMA) office.

## 2. FORMAT

**`OP:AMA;STREAM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by `REPT:AMA-STREAM` output message. |
| `RL` | Retry Later. The process could not attach itself to a Protected Application Segment (PAS). |

## 5. REFERENCES

Input Message
`SET:AMA-STREAM`

Output Message
`REPT:AMA-STREAM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-SUMMARY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Print out the Automatic Message Accounting (AMA) summary report.

Depending on the option defined in the control file, the AMA tape and/or teleprocessing summary reports are printed for OC and/or IC stream, and the Call Detail Recording Platform (CDRP) reports are printed for DM stream.

## 2. FORMAT

```
OP:AMA;SUMMARY!
```

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Explanation follows. |
| `PF` | Printout Follows. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AMA-TELE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests Automatic Message Accounting (AMA) teleprocessing summary data that has been accumulated so far today.

## 2. FORMAT

**`OP:AMA;TELEPROCESSING[:OC|:IC]!`**

## 3. EXPLANATION OF MESSAGE

**`OC`** Used if AMA data goes to the operating company revenue accounting office data stream.

**`IC`** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **`IC`** or **`OC`**. However, for a dual data stream office, information on both streams will be output if the stream is not specified.

## 4. SYSTEM RESPONSE

`NG` No Good. Tape option is in effect or data stream checks failed.

`PF` Printout Follows. Followed by a `REPT:AMA-TELE-SU` output message if the teleprocessing option is in effect. If any invalid data was encountered while processing the input message; an audit printout will follow.

`RL` Retry Later. The message could not be sent. If the problem persists, refer to the AMA TOPS procedure for further resolution.

## 5. REFERENCES

Input Message
`OP:AMA-STREAM`

Output Message
`REPT:AMA-TELE-SU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:APPFILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Validates the consistency of information in the MERGE maps and outputs a memory map of the 1BFILE that is sorted by ID tag and File Store address. If no file is specified, the NORMAL 1B FILE is mapped.

## 2. FORMAT

**OP:APPFILE**[ a]!

## 3. EXPLANATION OF MESSAGE

a — Designates which 1B FILE to map:

- NORM — Map the current NORMAL file.
- SPEC00 — Map MHD 0 /dev/1afile0.
- SPEC01 — Map MHD 0 /dev/1afile1.
- SPEC10 — Map MHD 1 /dev/1afile0.
- SPEC11 — Map MHD 1 /dev/1afile1.
- UPD — Map the current UPDATE file.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error. Error specifying the 1B FILE to be analyzed.

PF — Printout Follows. The program is proceeding.

## 5. REFERENCES

Input Message
VER:APPFILE

Output Message
OP:APPFILE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:APPLOAD
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints out the 4ESS™ generic issue, the office name, and the date and time the Office Data (ODA) was last written in the specified 1B file.

## 2. FORMAT

**`OP:APPLOAD`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Designates which 1B File to display:

- `NORM` — Display the current NORMAL file.
- `UPD` — Display the current UPDATE file.
- `SPEC00` — Display MHD 0 /dev/1afile0.
- `SPEC01` — Display MHD 0 /dev/1afile1.
- `SPEC10` — Display MHD 1 /dev/1afile0.
- `SPEC11` — Display MHD 1 /dev/1afile1.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. Error specifying the 1B File to be analyzed.

`PF` Printout Follows. The program is proceeding.

## 5. REFERENCES

Output Message
`OP:APPLOAD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ATPCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message requests the **ATPCM** kernel process to report status of **ATPCM** tasks, **ATPCM** Interprocess Message Switch (IMS) channels, or ATP node Real Time Executive (RTX) process information.

## 2. FORMAT

**OP:ATPCM,**a!

## 3. EXPLANATION OF MESSAGE

a — Report the status of **ATPCM** tasks, **ATPCM** IMS channels, or ATP node RTX process information:

- IMSCHAN — **ATPCM** IMS channels.
- PROCS — ATP node RTX processes.
- TASKS — **ATPCM** tasks.

## 4. SYSTEM RESPONSE

NG — No Good.

— BAD OST CALL
Operating system trap call to **ATPCM** failed.

— ATPCM UNKNOWN REQUEST
**ATPCM** received an unknown request.

PF — Printout Follows. Followed by OP:ATPCM output message.

RL — Retry Later.

— ATPCM IS NOT RUNNING
The kernel process **ATPCM** is not running.

— RING INITIALIZATION IN PROGRESS
Cannot process request because CNI ring initialization is in progress.

— UNKNOWN RESPONSE FROM ATPCM
Unknown response from **ATPCM**.

— UNABLE TO OPEN TMP FILE
Unable to open temporary file for output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Messages

`OP:ATPCM-TASKS`
`OP:ATPCM-IMSCHN`
`OP:ATPCM-PROCS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reports the status of one or more audits controlled by the System Integrity Monitor (SIM). The report may be requested for:

- All audit control records.
- All running audits.
- All members associated with a specific audit.
- Selected members associated with a specific audit.

## 2. FORMAT

**OP:AUD:{ALL|RUN|a[ b]|a c,INS "d"}!**

## 3. EXPLANATION OF MESSAGE

**ALL** Specifies all audits controlled by SIM.

**RUN** Restricts the report to include only information for running audits.

a Audit name. Computer audit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-B.

If a is specified without b, all members of the audit will be reported.

b Member number. See the Input Member Numbers Appendix, APP:MEM-NUM-B. May be specified as a single number or a list of numbers. See the *User Guidelines* in this document for instructions on entering lists of numbers.

c Single member number. See the Input Member Numbers Appendix, APP:MEM-NUM-B.

d Instance name.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
APP:AUD
APP:MEM-NUM-B

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Appendixes

`APP:AUD-A`
`APP:AUD-B`
`APP:AUD-C`
`APP:AUD-D`

Input Messages

`ALW:AUD`
`INH:AUD`
`STOP:AUD`

Output Message

`OP:AUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:AUDERR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reports the error counts of one or more audits controlled by the System Integrity Monitor (SIM). The report may be requested for:

- All audits controlled by SIM.
- All members of a specific audit.
- Selected members of a specific audit.
- A specific instance of a specific member of a specific audit.

## 2. FORMAT

**OP:AUDERR:{ALL**|a[ b]|a c,**INS** d}!

## 3. EXPLANATION OF MESSAGE

a — Audit name. Computer audit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-B.

If a is specified without b, all members of the audit will be reported.

b — Member number. See the Input Member Numbers Appendix, APP:MEM-NUM-B. May be specified as a single number or a list of numbers. See the *User Guidelines* in this document for instructions on entering a list of numbers.

c — Single member number. See the Input Member Numbers Appendix, APP:MEM-NUM-B.

d — Instance name.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
APP:AUD
APP:MEM-NUM-B

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Appendixes

```
APP:AUD-A
APP:AUD-B
APP:AUD-C
APP:AUD-D
```

Input Message

```
OP:AUD
```

Output Messages

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
OP:AUDERR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:C7NET-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message is used to request the routing on the Common Network Interface (CNI) ring or link set information.

Format [1] prints subsystem information.

Format [2] prints the subsystem states for a PC.

Format [3] prints the global title translation table.

Format [4] prints routing indicators for both ADJ STPS.

Format [5] prints the permanent relations.

Format [6] prints the broadcast list.

Format [7] prints link set data.

Format [8] prints routing information.

Format [9] prints specific routing:

— If no **NID** is entered, then the local network is used.

— **RE** is only used in offices that use non-ANSI standard point codes.

— In offices that use non-ANSI standard point codes, if **CLU** is used, then **RE** must be used.

— For **MEM** to be used, then **CLU** must be specified also.

Format [10] prints long routing information.

Format [11] prints the local point code.

Format [12] prints the options available.

Format [13] prints the routing status for international pointcodes.

Format [14] prints out incore and disk CNI office data.

Format [15] prints out the SLID to RNA table.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

[1] **OP:C7NET;SSINFO** a!

[2] **OP:C7NET;SSSTATES** b!

[3] **OP:C7NET;GTXTAB!**

[4] **OP:C7NET;RIND!**

[5] **OP:C7NET;RELATE!**

[6] **OP:C7NET;BRDCST!**

[7] **OP:C7NET;LNKSET** c!

[8] **OP:C7NET;ROUTING!**

[9] **OP:C7NET;ROUTING:**[**NID** d][,][**RE** e][,][**CLU** f][,][**MEM** g]!

[10] **OP:C7NET;LROUTING!**

[11] **OP:C7NET;LPC!**

[12] **OP:C7NET;OPTIONS!**

[13] **OP:C7NET;INTL!**

[14] **OP:C7NET;OFFICE!**

[15] **OP:C7NET;SLIDTAB!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Subsystem number. |
| b | Point code (e.g. "254254077"). |
| c | Link set. |
| d | Network identifier. |
| e | Region number. |
| f | Cluster number. |
| g | Member number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Messages

`OP:C7NET-A`
`OP:C7NET-B`

SEE PROPRIETARY NOTICE ON COVER PAGE

**CAUTION**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . OP:C7NET-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**CAUTION**
**This command with the `DEBUGON` option may clutter up the Read Only Printer (ROP) with messages. Use under the direction of your customer support group.**

## 1. PURPOSE

**`OP:C7NET`** provides a means for printing a formatted display of the routing data in the 3B20D/3B21D computer and the peripheral nodes. These following tables are printed: network , cluster and member tables (both local and nonlocal), the paging tables, loadshare tables, linkset tables and mtprst table. C7NET will also print subsystem information from the appropriate Signal Connection Control Part (SCCP) tables. This tool is very useful for monitoring the status of signaling points in the field and can also be used in the CNI development labs for testing the Common Channel Signaling System 7 (CCS7) network management and SCCP management code that updates the various tables.

This tool was derived from the existing C7DEMO, PRDEMO, and SCCPDEMO tools which requires a UNIX® terminal in order to be executed. These tools are not suitable for use in a field environment and **`C7NET`** was developed to provide the same capabilities (and more) with a standard PDS craft command interface on a Maintenance Cathode Ray Terminal (MCRT).

Situations in which the derived **`C7NET`** tool has been used in the past: (as C7DEMO)

C7DEMO was used to verify functional correctness of CCS7 traffic management code after performance improvements and load sharing enhancements were made for CNI 2.0.

Format 1, **`PRTE`** option prints all the current routing data and any abnormal member routing data. This includes all point codes that do not have normal routing status (such as TFX or congestion) and all point codes that are a part of the test network.

Format 2, **`PNID`** option prints the network identifier data. For all networks that are assigned, the network level information will be printed.

Format 3, **`PRN`** option prints the cluster and member routing data for a particular network identifier.

Format 4, **`PREG`** option prints all cluster level data and any abnormal member level data in this region.

Format 5, **`PCLU`** option prints the local or nonlocal cluster routing data. If the cluster routing type is Populated Cluster (POPCLU), then any exceptional or static members will also be printed.

SEE PROPRIETARY NOTICE ON COVER PAGE

Format 6, **PMEM** option prints the local or nonlocal member routing data. The region variable is used only when the ANSI point code format is not being used. Note that this command should not be used to print data for an unpopulated cluster. Use the print cluster command, **PCLU**, to print the data for a Signal Transfer Point (STP).

Format 7, **PIDX** option prints the indexing information in the paging tables for a particular point code.

Format 8, **PIDXPA** option prints the entry in the cNpage_access table indicated by index.

Format 9, **PIDXMEM** option prints the member level routing data indicated by index.

Format 10, **PFL** option prints the free list for the particular table and the length of elements to be displayed.

Format 11, **PFRNG** optionx prints a range of integers, each representing marked free elements for the particular table.

Format 12, **PLS** option prints linkset information about the RNAs that are actively being used for routing per linkset.

Format 13, **STATES** option gives the status of subsystems for a given point code.

Format 14, **DEBUGON** option turns on the SCCP debug flag.

Format 15, **DEBUGOFF** option turns off the SCCP debug flag.

Format 16, **RIND** option prints out point codes of the two adjacent STPs, and will indicate which local subsystems are marked as receiving backup traffic from each of these adjacent STPs.

Format 17, **BRDCST** option prints all point codes which are contained in the SCCP broadcast list.

Format 18, **GTXTAB** option prints the contents of the cH7gtxtab table, which is a structure that is used when determining what translator to use for a global title translated message.

Format 19, **SSINFO** option prints out data about the given local subsystem.

Format 20, **LOCPC** option prints the local point code.

Format 21, **RELATE** option prints all point codes which are contained in the SCCP permanent relations list.

Format 22, **ILOCPC** option prints the international local point code.

Format 23, **PIPC** option prints international/CCITT7 point code data for the point code specified. The point code given must be in decimal.

SEE PROPRIETARY NOTICE ON COVER PAGE

Format 24, **PAIPC** option prints all international/CCITT7 point code data.

Format 25, **ABNORMAL** option prints the status of SS7 signaling routes that have members that are unavailable, restricted, congested, or subsystems that are prohibited.

Format 26, **PMTP** option prints timer status for the MTP Signaling Point Restart procedure.

**2. FORMAT**

[1] **OP:C7NET;PRTE**[**,NODE**(a,b)][**;DEST** c]**!**

[2] **OP:C7NET;PNID**[**,NODE**(a,b)][**;DEST** c]**!**

[3] **OP:C7NET;PRN** d[**,NODE**(a,b)][**;DEST** c]**!**

[4] **OP:C7NET;PREG** e[**,NODE**(a,b)][**;DEST** c]**!**

[5] **OP:C7NET;PCLU**(d,[e,]f)[**,NODE**(a,b)][**;DEST** c]**!**

[6] **OP:C7NET;PMEM**(d,[e,]f,g)[**,NODE**(a,b)][**;DEST** c]**!**

[7] **OP:C7NET;PIDX**(d,[e,],f,g)[**,NODE**(a,b)][**;DEST** c]**!**

[8] **OP:C7NET;PIDXPA** h[**,NODE**(a,b)][**;DEST** c]**!**

[9] **OP:C7NET;PIDXMEM** h[**,NODE**(a,b)][**;DEST** c]**!**

[10] **OP:C7NET;PFL**(i,j)[**,NODE**(a,b)][**;DEST** c]**!**

[11] **OP:C7NET;PFRNG**(i,k,l)[**,NODE**(a,b)][**;DEST** c]**!**

[12] **OP:C7NET;PLS** m[**,NODE**(a,b)][**;DEST** c]**!**

[13] **OP:C7NET;STATES**(d,[e,]f,g)[**,NODE**(a,b)][**;DEST** c]**!**

[14] **OP:C7NET;DEBUGON**[**,NODE**(a,b)][**;DEST** c]**!**

[15] **OP:C7NET:DEBUGOFF**[**,NODE**(a,b)][**;DEST** c]**!**

[16] **OP:C7NET;RIND**[**,NODE**(a,b)][**;DEST** c]**!**

[17] **OP:C7NET;BRDCST**[**,NODE**(a,b)][**;DEST** c]**!**

[18] **OP:C7NET;GTXTAB**[**,NODE**(a,b)][**;DEST** c]**!**

[19] **OP:C7NET;SSINFO** n[**,NODE**(a,b)][**;DEST** c]**!**

[20] **OP:C7NET;LOCPC**[**,NODE**(a,b)][**;DEST** c]**!**

[21] **OP:C7NET;RELATE**[**,NODE**(a,b)][**;DEST** c]**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[22] **OP:C7NET;ILOCPC**[**,NODE(**a,b**)**][**;DEST** c]**!**

[23] **OP:C7NET;PIPC** o[**,NODE(**a,b**)**][**;DEST** c]**!**

[24] **OP:C7NET;PAIPC**[**,NODE(**a,b**)**][**;DEST** c]**!**

[25] **OP:C7NET;ABNORMAL**[**,NODE(**a,b**)**][**;DEST** c]**!**

[26] **OP:C7NET;PMTP**[**,NODE(**a,b**)**][**;DEST** c]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **NODE** | Allows the user to print the routing data from either the 3B20D/3B21D computer or a peripheral node (SRN, DLN, DCHN). |
| a | Group number for the node. |
| b | Member number for the node. |
| **DEST** | Allows the user to specify the printing destination. |
| c | Printing destination. |
| d | Network identifier. |
| e | Region number. |
| f | Cluster number. |
| g | Member number. |
| h | Index. |
| i | Table name: |
| | pa=>cNpage_access — Local network (0-127) |
| | npa=>cNpage_access — Nonlocal networks (0-255) |
| | mem=>cNmember — Local network (0-2047) |
| | nmem=>cNmember — Nonlocal network (0-2047) |
| j | Length of elements. |
| k | Starting index: |
| | 0-127 for pa=>cNpage_access |
| | 0-255 for npa=>cNpage_access |
| | 0-2047 for nmem=>cNmember |
| l | Ending index: |
| | 0-127 for pa=>cNpage_access |
| | 0-255 for npa=>cNpage_access |
| | 0-2047 for nmem=>cNmember |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `m` | Linkset number. |
| `n` | Subsystem number. |
| `o` | Point code. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Practice 256-090-187, *CNI Feature Description Manual* - Message Transfer Part (MTP) Restart Section.

Output Message
`OP:C7NET-B`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CFGSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests output of configuration status information for computer hardware units. This request may optionally be constructed to output the status of a single unit, a list of units with a specified name and maintenance state, a list of all units with a particular maintenance state, or a list of all sub-devices of a specified complex.

## 2. FORMAT

**OP:CFGSTAT**[;a][:{b[ c][,d e]}]!

## 3. EXPLANATION OF MESSAGE

a — One of the following maintenance state definitions:

ACT — Active

GROW — Being grown

INIT — Initializing

OFL — Off-line

OOS — Out-of-service

STBY — Standby

UNAV — Unavailable

UNEQIP — Unequipped

If specified, then only units in that maintenance state specified will be listed.

b — Unit name. Computer unit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C.

c — Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C.

d — Subunit name. If unit name is CU, computer Control Unit (CU) subunit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D.

e — Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:CFGSTAT` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Appendixes

```
APP:MEM-NUM-C
APP:MEM-NUM-D
```

Input Messages

```
OP:ACT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP
```

Output Messages

```
OP:ACT
OP:CFGSTAT
OP:GROW
OP:INIT
OP:OFL
OP:OOS
OP:STBY
OP:UNAV
OP:UNEQIP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CFT
WORK CENTER . . MOC
GENERIC . . . . . 4AP18 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To monitor the 3B realtime usage and request an `REPT:RTM-STATUS` output message when the 3B idle time drops below a specified level. When the 3B comes up, the feature is activated and the activation level for the 3B idle time is set to 10%. Therefore, every 5 minutes the 3B idle time is checked and if the idle time drops below 10%, an `REPT:RTM-STATUS` output message is requested. The `REPT:RTM-STATUS` output message prints out to the Read Only Printer (ROP) a list of all the running processes and their realtime usage.

The **`OP:CFT`** command allows the user to turn this feature `ON` or `OFF` and to change the activation level to any percentage from 1 to 100.

## 2. FORMAT

[1] **`OP:CFT,RTM {ON|OFF}!`**

[2] **`OP:CFT,PCT`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`RTM`** | Realtime Monitor (**`RTM`**). |
| **`ON`** | Turn the **`RTM`** feature on. |
| **`OFF`** | Turn the **`RTM`** feature off. |
| `a` | A Percentage (**`PCT`**) used to specify the activation level that will trigger the `REPT:RTM-STATUS` output request (`1-100`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Message
`REPT:RTM-STATUS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:CLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reports the current date and time.

## 2. FORMAT

**`OP:CLK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:CLK` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Input Message
`SET:CLK`

Output Messages
`OP:CLK`
`SET:CLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints the inhibit status and the activation status of the Data Consistency Check (DCC) capability. The command requests the activation status only for the particular customer unit specified. Format 1 prints the DCC status of all customer units using the DCC capability. Format 2 prints the DCC status of only the individual customer unit specified in the **APP** keyword argument.

## 2. FORMAT

[1] **OP:DCC!**

[2] **OP:DCC,APP** a!

## 3. EXPLANATION OF MESSAGE

a — The name of the APPDB customer unit for which DCC status is to be printed. Currently, IBGTT is the only **APP** keyword argument supported.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
- ACTV:DCC
- ALW:DCC
- DEACTV:DCC
- INH:DCC
- START:DCC
- STOP:DCC
- VER:DCC

Output Message
- OP:DCC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DCNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Reports the status of D-Channel Node (DCN) audits.

## 2. FORMAT

**OP:DCNAUD** {a|**ALL**}**;LN**b c**!**

## 3. EXPLANATION OF MESSAGE

a — DCN audit member number:

1 — Data Blocks audit.

2 — User Call Reference Value (CRV) Table audit.

3 — Network CRV Table audit.

4 — Channel ID Table audit.

5 — Idle Data Blocks List audit.

**ALL** — All DCN audits.

b — DCN group number.

c — DCN member number.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— INVALID AUDIT
Invalid audit member number.

— GRP/MEM OUT OF RANGE
Invalid group or member number.

NG — No Good.

— DCNAP DOES NOT EXIST
The DCNAP process does not exist.

PF — Printout Follows. Followed by OP:DCNAUD output message. Send message to DCNAP process failed.

RL — Retry Later.

— SEND MSG TO DCNAP FAIL

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`ALW:DCNAUD`
`INH:DCNAUD`
`STOP:DCNAUD`

Output Message

`OP:DCNAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DCNAUDERR
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Reports the error counts of one or more audits and number of times the audits have been scheduled for particular D-Channel Node (DCN).

## 2. FORMAT

**`OP:DCNAUDERR`** `{a|`**`ALL`**`};`**`LN`**`b c!`

## 3. EXPLANATION OF MESSAGE

`a` DCN audit member number:

- `1` — Data Blocks audit.
- `2` — User Call Reference Value (CRV) Table audit.
- `3` — Network CRV Table audit.
- `4` — Channel ID Table audit.
- `5` — Idle Data Blocks List audit.

**`ALL`** All DCN audits.

`b` DCN group number.

`c` DCN member number.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error.

— `?INVALID AUDIT`
Invalid audit member number.

— `GRP/MEM OUT OF RANGE`
Invalid group or member number.

`NG` No Good.

— `DCNAP DOES NOT EXIST`
The `DCNAP` process does not exist.

`PF` Printout Follows. Followed by `OP:DCNAUDERR` output message.

`RL` Retry Later.

— `SEND MSG TO DCNAP FAIL`
Send message to `DCNAP` process failed.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`AUD:DCNAUD`
`OP:DCNAUD`

Output Messages

`AUD:DCNAUD`
`OP:DCNAUD`
`OP:DCNAUDERR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DFC-INFO
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the following information regarding the specified Disk File Controller (**DFC**) and equipped sub-devices.

**NOTE:** The format and content of the output will vary depending on the **DFC** and equipped sub-device types.

- **DFC** major status
- **DFC** microcode (firmware/pumpcode) version
- Small Computer System Interface (SCSI) Bus (SBUS) member number, device ID, and major status
- Sub-device information:
  - — Unit name and member number
  - — Device type
  - — Device ID
  - — Physical port
  - — Major status
  - — Number of tracks
  - — Validity of the Volume Table Of Contents (VTOC)
  - — Usability
  - — Unit reserved
  - — Unit essential
  - — Unit's mate
  - — Equipage sizes and compatibility
  - — Product identification
  - — Device firmware revision level
  - — Serial number

## 2. FORMAT

**OP:DFC** a;**INFO!**

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | **DFC** member number (0–255). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the OP:DFC–INFO output message. |

## 5. REFERENCES

Input Messages
OP:MHD–INFO
OP:MT–INFO

Output Message
OP:DFC–INFO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:DFCELOG
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Prints and formats Enhanced Information Report (EIR) entries of the disk driver logfile. See `REPT:DFCE` and `REPT:DFCI` output messages for EIR report. If no options are specified, all EIR entries of type 2 are formatted and printed. Otherwise, the EIR entries in the logfile that meet all the selection criteria are printed.

The **DATE**, **TIME**, **ID**, and **TYPE** options are matched with information contained in the User Control String (UCS) which the spooler adds as a prefix to each message before storing it in the logfile. The UCS is not part of the **OP:DFCELOG** output. If the **DATE** option is specified in a long format (ten digits), the **TIME** option is illegal. If the **DATE** option is specified in a short format (six digits), and the **TIME** option is given, an intersection between the **DATE** and **TIME** options is taken. If the **TYPE** option is not specified, the `OP:DFCELOG` message searches for type 2222 in the UCS string. The Keyword (**KW**) option matches on information contained in the text of the EIR message. The unit number in the Moving Head Disk (**MHD**) and Magnetic Tape (**MT**) option is mapped into the **MHD** or **MT ID** plug or **ID** switch number contained in the text of the EIR message. The **CCODE** option is matched with the completion code contained in the text of the EIR message.

## 2. FORMAT

```
OP:DFCELOG:[{MHD a|MT a}[,CCODE b]][,DATE c[-d]][,TIME e[-f]]
      [,KW "g"][,ID h][,TYPE i][,LIMIT j][,CLASS k|,DEVICE "l"]
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | **MHD** or Small Computer System Interface (SCSI) **MT** member number. |
| b | Completion code in hexadecimal; for example, `x'00ff`. The size of the SCSI EIR completion code is two hexadecimal digits. Therefore, only the two least significant digits are meaningful. |
| c | Start date in month, day, and year format (`mmddyy`); for example, `090188` is September 1, 1988. Or in month, day, year, hour, and minute format (`mmddyyhhmm`); for example, `0901881030` is September 1,1988, at 10:30 a.m. |
| d | End date (`mmddyy`) or (`mmddyyhhmm`); for example, `090188` is September 1, 1988. Or `0901881030` is September 1, 1988, at 10:30 a.m. Default is `start date`. If given, this parameter must be in the same format (six or ten digits) as the start date. |
| e | Start time in hours and minutes (`hhmm`); for example, `0110` is 1:10 a.m. Default time is current time. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `f` | End time in hours and minutes (`hhmm`); for example, `1530` is 3:30 p.m. Default time is start time. |
| `g` | A keyword that appears in all EIR entries that are to be reported (up to 39 characters). |
| `h` | An optional 4-digit decimal numeral which is used to link an item in a logfile with an entry in another file. The **`ID`** is filled in by the process which made the logfile entry; for example, `1234`. |
| `i` | An optional four-digit decimal numeral which specifies the type of entry on a logfile. The type is filled in by the process which made the logfile entry; for example, `1234`. Default is `2222`. |
| `j` | Specifies the maximum number of output entries. Default is `200`. Will report output complete if limit is reached. |
| `k` | Location to which output should be routed:<br>`R` — Receive-Only Printer (ROP). Default.<br>`T` — Terminal and ROP. |
| `l` | A specific device to which output should be routed (up to nine characters). This device cannot be a logfile. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. |
| `PF` | Printout Follows. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`OP:DFCELOG`
`REPT:DFCE`
`REPT:DFCI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DLNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of inhibit or allowed application database audits. Requests the status of application database audits.

## 2. FORMAT

**`OP:DLNAUD,APP {ALL|ATP|IBGTT|PCPGTT}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`ALL`** | All application database audits. |
| **`ATP`** | AT&T Trigger Platform (**`ATP`**) data tables. |
| **`IBGTT`** | Inbound global title translation. |
| **`PCPGTT`** | Positive call processing global title translation. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Message accepted and `OP:DLNAUD` output message follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages
`ALW:DLNAUD`
`INH:DLNAUD`

Output Messages
`ALW:DLNAUD`
`INH:DLNAUD`
`OP:DLNAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DLNCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests **DLNCM** to report status of stream, Direct Link Node (DLN) configuration, **DLNCM** tasks, **DLNCM** IMS channels or **DLNCM** binkmap.

## 2. FORMAT

**OP:DLNCM,**a**!**

## 3. EXPLANATION OF MESSAGE

a — Report the status of the stream, **DLNCM** tasks, DLN configuration, IMS channels, or bink map. Possible values:

- BINKMAP — **DLNCM** bink map.
- DLNMAP — DLN configuration map.
- IMSCHAN — **DLNCM** IMS channels.
- STREAM — API-DLN stream.
- TASKS — **DLNCM** tasks.

## 4. SYSTEM RESPONSE

NG — No Good.

— UNKNOWN RESPONSE FROM **DLNCM**
**DLNCM** responded invalidly.

— OST CALL
Operating system trap call to **DLNCM** failed.

— **DLNCM** CANNOT PROCESS REQUEST
Bad parameter passed to **DLNCM**.

PF — Printout Follows. Followed by OP-DLNCM-STREAM output message.

RL — Retry Later.

— UNABLE TO OPEN FILE /tmp/'a'
Unable to open file /tmp/'a' for output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Messages

`OP:DLNCM-BINKMP`
`OP:DLNCM-DLNMAP`
`OP:DLNCM-IMSCHN`
`OP:DLNCM-STREAM`
`OP:DLNCM-TASKS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DLNESC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests Direct Link Node (DLN) recovery escalation parameters.

This command will output the current "DLN Recovery Escalation parameters" (i.e., the number of DLN initializations performed since the last diagnostic and the time designation of the last diagnostic activity) for ALL DLNs.

See the `OP:DLNESC` output message document for details on the output resulting from this command.

## 2. FORMAT

**`OP:DLNESC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Message accepted and `OP:DLNESC` output message follows.

`RL` Retry Later.

— `CANNOT ATTACH TO ECD`
System conditions do not allow this process to read the Equipment Configuration Database (retry later).

— `CANNOT GET DLN STATUS`
DLN Driver not responding to DLN status requests by this process, probably initializing (retry later or recover DLNCM).

— `DLNCM DOES NOT EXIST`
DLN Driver does not exist, probably initializing (retry later or recover DLNCM).

— `UNABLE TO OPEN TMP FILE`
System conditions do not allow this process to create a temp file for spooling output (retry later).

## 5. REFERENCES

Input Message
`CLR:DLNESC`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
CLR:DLNESC
OP:DLNESC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DMQ
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of the queue from the computer maintenance input request administrator. This queue contains the status of all requests currently executed by the diagnostic control structure, including restore/remove requests, and the automatic maintenance request sources presently inhibited.

## 2. FORMAT

**`OP:DMQ!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and the following reason:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`PF` Printout Follows. Followed by the `OP:DMQ` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual*, Volume 6

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message
`STOP:DMQ`

Output Message
`OP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . OP:DMSORDERS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this input message with the ALL option may result in a large output message.**

## 1. PURPOSE

Queries the RING Data Management System (DMS) to get a summary of the existing orders. It scans the DMS order status file for orders of the specified type.

## 2. FORMAT

**`OP:DMSORDERS`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` DMS order type:

- `ACTFAILED` — DMS orders that have failed activation. See the DMS error log for failure reasons.
- `ACTIVATED` — DMS orders that exist in core and on disk.
- `INCORE` — DMS orders that exist incore only and has not been backed up on disk. Orders in this state can be lost during RING initializations 3 or 4.
- `PENDING` — Orders not in any other state are in this state.
- `ALL` — All DMS orders.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by `OP:DMSORDERS` output message.

## 5. REFERENCES

Output Message
`OP:DMSORDERS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:DNHRMEAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests a Dynamic Non-Hierarchical Routing (DNHR) node-to-node measurement report for between 1 to 10 Toll Terminating Switches (TTSs).

All TDAS related messages are recorded in the log file TDASLOG and may be accessed using the command `OP:LOG;TDASLOG` (see the `OP:LOG` OUTPut message). To get DNHR measurement messages, use the `OP:LOG;TDASLOG:KW DNHR` command.

## 2. FORMAT

**`OP:DNHRMEAS,TTS:`**`a[ ...a]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Toll terminating switch number of which DNHR measurements are needed. Up to 10 TTS numbers may be entered. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. `REPT:DNHRMEAS` output message will follow. |

## 5. REFERENCES

Output Messages
`OP:LOG`
`REPT:DNHRMEAS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:EMERSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of the emergency dump partition on the disk: full or empty. If it is full, information is provided about the data that was written into the partition.

## 2. FORMAT

**`OP:EMERSTAT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:EMERSTAT` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`CLR:EMERDMP`
`COPY:T-EMERDMP`

Output Messages
`OP:EMERSTAT`
`REPT:EMER-DUMP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ERRCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all inhibited computer error conditions, including EAIINT, ERRINT, ERRSRC, HDWCHK, and SFTCHK.

**NOTE:** The 3B20D/3B21D computer Control Units (CUs) do not have Emergency Action Interface (EAI) Error Interrupts (EAIINT).

## 2. FORMAT

**`OP:ERRCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:ERRCHK` output message. |

## 5. REFERENCES

Input Messages
`ALW:ERRCHK`
`INH:ERRCHK`

Output Messages
`ALW:ERRCHK`
`INH:ERRCHK`
`OP:ERRCHK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:FNAME
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Reports the full pathname of a file in a mounted file system. This command, used to analyze data produced by the FSBLK and FSLINK file system audits, provides pathnames based on the entry of inode or block numbers.

## 2. FORMAT

**OP:FNAME:FN** "a",{**INODE**|**BLOCK**} b[-c]!

## 3. EXPLANATION OF MESSAGE

a — The full pathname of the file system. See *User Guidelines* in this document for description of pathnames. Note that quotation marks are required.

b — Inode or block number; or the lower limit of a range (0-546048) of inode or block numbers.
**NOTE:** If an **INODE** number is specified, the minimum value is 2.

c — The upper limit of a range of inode or block number of a range (0-546048).

## 4. SYSTEM RESPONSE

?D — Data field contains an error.

— INCONSISTENT DATA 1
The greater value must be equal to or larger than the lower value in the range.
— INVALID CHARACTER 1
The first or only range value is not an integer.
— INVALID CHARACTER 2
The last range value is not an integer.
— INVALID KEYWORD 1
FN must be the first keyword.
— INVALID KEYWORD 2
**INODE** or **BLOCK** must be the second keyword.
— MISSING DATA 1
No file system name given.
— MISSING DATA 2
No inode or block number given.
— MISSING KEYWORD 1
FN must appear after FNAME.
— MISSING KEYWORD 2
Either **INODE** or **BLOCK** must be entered.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `RANGE ERROR 1, a`
File system requested does not exist. `a` is the value entered.
— `RANGE ERROR 4`
Either the lower or only **`INODE`** value is less than two or the greater or only **`INODE`** value is larger than the maximum allowed in the file system.
— `RANGE ERROR 5`
The greater or only **`BLOCK`** value is larger than the maximum allowed in the file system.
— `RANGE ERROR 6`
The lower or only **`BLOCK`** value is less than the minimum allowed in the file system.

`RL` Retry Later. `RL` responses will only appear if the input message catalog is not active.

— `CANNOT CHANGE DIRECTORY TO /dev`
Unable to change working directory to `/dev`.
— `CANNOT FIND FILE SYSTEM`
Unable to find the first directory of the mounted file system.
— `CANNOT OPEN FILE SYSTEM`
Cannot open the file system at its mount point.
— `CANNOT READ SUPERBLOCK`
Unable to read the superblock for the file system.
— `CANNOT SEEK TO SUPERBLOCK`
Unable to seek to the file system's superblock.
— `MOUNT TABLE ERROR`
Unable to obtain the mount table from the file manager.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`AUD:FSBLK`
`AUD:FSLINK`

Output Messages
`AUD:FSBLK`
`AUD:FSLINK`
`OP:FNAME`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints the inhibit status and the activation status of the File Transfer and Activation (**FTA**) capability. The command requests the activation status only for the particular customer application or for all customer applications using the **FTA** capability.

Format 1 prints the **FTA** status of all customer applications using the **FTA** capability.
Format 2 prints the **FTA** status of only the individual customer applications specified in the **APP** keyword argument.

## 2. FORMAT

[1] **OP:FTA!**

[2] **OP:FTA,APP** a!

## 3. EXPLANATION OF MESSAGE

a — The name of the **FTA** customer unit for which **FTA** status is to be printed:

CORE

IBGTT

OBGTT — Refers to the PCP customer.

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
ALW:FTA
INH:FTA
START:FTA
STOP:FTA

Output Messages
ALW:FTA
INH:FTA
OP:FTA
START:FTA
STOP:FTA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:FTF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Outputs a listing of all the File Transfer and Activation (FTA) command and response files for the specified FTA customer application along with each file's "status" (i.e., "OPEN", "ACTIVATING", or "STOPPED".)

## 2. FORMAT

**`OP:FTF,APP`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` The name of the **`FTF`** customer unit for which **`FTF`** status is to be printed:

`CORE`

`IBGTT`

`OBGTT` — Refers to the PCP customer.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
- `ALW:FTA`
- `INH:FTA`
- `START:FTA`
- `STOP:FTA`

Output Messages
- `ALW:FTA`
- `INH:FTA`
- `OP:FTF`
- `START:FTA`
- `STOP:FTA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:G-READLOG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests output of the 3B20D/3B21D computer system update event log. This is used if problems occur while updating the system to determine the current state of affairs.

## 2. FORMAT

**`OP:GEN;READLOG!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `NG` | No Good. Process not initiated. |
| `PF` | Printout Follows. Followed by the `OP:G-READLOG` output message. |

## 5. REFERENCES

Practice 254-341-240 *DMERT Operating System Field Update Facilities Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

Output Messages
- `OP:G-READLOG`
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:GROW
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Provides a list of all computer hardware units currently in the growth maintenance state. This format provides a list of all growth units of a particular type.

## 2. FORMAT

**OP:GROW**[:{a[ b][,c d]}]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name. Unit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| c | Subunit name. If unit name is Control Unit (CU) subunit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| d | Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by the OP:GROW output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Appendixes
APP:MEM-NUM-C
APP:MEM-NUM-D

Input Message
OP:CFGSTAT

Output Messages
OP:CFGSTAT
OP:GROW

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-CONFIG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Displays the current status of the International Call Detail Recording (**ICDR**) configuration file.

## 2. FORMAT

**OP:ICDR;CONFIG!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. State of the **ICDR** configuration file will be output. |
| RL | Retry Later. A message could not be sent to the **ICDR** monitor process. If the problem persists, refer to the ICDR TOPS procedures for further resolution. |

## 5. REFERENCES

Input Message
SET:ICDR-CONFIG

Output Message
REPT:ICDR-CONFIG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-CONTROL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Obtains the current state of the International Call Detail Recording (ICDR) control file.

## 2. FORMAT

**`OP:ICDR;CONTROLFILE!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `REPT:ICDR-CONT` output message. |
| `RL` | Retry Later. Message could not be sent to the **`ICDR`** monitor process. If the problem persists, refer to the **`ICDR`** TOPS procedure for further resolution. |

## 5. REFERENCES

Input Messages
- `ALW:ICDR-SESSION`
- `INH:ICDR-SESSION`
- `OP:ICDR-RECORD`
- `SET:ICDR-CONTROL`

Output Messages
- `REPT:ICDR-CONT`
- `REPT:ICDR-CONTAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-DISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests current International Call Detail Recording (**ICDR**) disk space occupancy data. The output message generated by this request displays the current amount of disk space occupied by primary **ICDR** records.

## 2. FORMAT

**OP:ICDR;DISK!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a REPT:ICDR-DISK-SU output message. |
| RL | Retry Later. Status cannot be obtained. If the problem persists, refer to the **ICDR** TOPS procedures for further resolution. |

## 5. REFERENCES

Input Message
OP:ICDR-RECORD

Output Message
REPT:ICDR-DISK-SU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-MAPS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Obtains the current status of the International Call Detail Recording (**ICDR**) disk maps.

## 2. FORMAT

**OP:ICDR;MAPS!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. State of **ICDR** disk maps will be output. |
| RL | Retry Later. Status cannot be obtained. If the problem persists, refer to the **ICDR** TOPS procedures for further resolution. |

## 5. REFERENCES

Input Message
OP:ICDR-RECORD

Output Message
REPT:ICDR-DISK

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-RECORD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Indicates whether 3B computer International Call Detail Recording (**ICDR**) recording is turned on in this office.

## 2. FORMAT

**OP:ICDR;RECORDING!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a REPT:ICDR-RECORD output message. |
| RL | Retry Later. The process could not attach itself to a Protected Application Segment (PAS). If the problem persists, refer to the **ICDR** TOPS procedures for further resolution. |

## 5. REFERENCES

Output Message
REPT:ICDR-RECORD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-SESSION
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Obtains the status of the current or most recent International Call Detail Recording (**ICDR**) teleprocessing session.

## 2. FORMAT

**OP:ICDR;SESSION!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a REPT:ICDR-TELE-SE output message. If any invalid data was encountered while processing the input message, an audit printout will follow. |
| RL | Retry Later. Message could not be sent to the appropriate process. Repeat the message later. If the problem persists, refer to the **ICDR** TOPS procedure for further resolution. |

## 5. REFERENCES

Input Message
OP:ICDR-RECORD

Output Messages
REPT:ICDR-CONTAUD
REPT:ICDR-TELE-SE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ICDR-TELE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests International Call Detail Recording (**ICDR**) teleprocessing summary data that has been accumulated so far today.

## 2. FORMAT

**OP:ICDR;TELEPROCESSING!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a REPT:ICDR-TELE-SU output message. If any invalid data was encountered while processing the input message; an audit printout will follow. |
| RL | Retry Later. Message could not be sent. If the problem persists, refer to the **ICDR** TOPS procedure for further resolution. |

## 5. REFERENCES

Input Message
OP:ICDR-RECORD

Output Messages
REPT:ICDR-CONTAUD
REPT:ICDR-TELE-SU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:INH-APPDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Outputs the status of all GTT10D RCV Inhibits (including the "DLN Inhibit" feature status).

## 2. FORMAT

**`OP:INH:APPDB!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Message accepted and an `OP:INH-APPDB` output message will follow. |

## 5. REFERENCES

Input Messages
- `ALW:RCV-APPDB`
- `INH:RCV-APPDB`

Output Messages
- `ALW:DLNAUD`
- `INH:DLNAUD`
- `OP:DLNAUD`
- `OP:INH-APPDB`
- `REPT:INH-RCV-APPD`
- `RC:MISC-FHT-FTA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:INIT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Provides a list of all currently initializing computer hardware units. This format provides a list of all initializing units of a particular type.

## 2. FORMAT

**`OP:INIT`**`[:{a[ b][,c d]}]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit name. Unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `b` | Unit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `c` | Subunit name. If unit name is Control Unit (`CU`) subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |
| `d` | Allowed member numbers. See the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:INIT` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Message
`OP:CFGSTAT`

Output Messages
`OP:CFGSTAT`
`OP:INIT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IODRV
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reports the current options set for the Input/Output Processor (IOP) driver messages.

**NOTE:** If none of the options is specified, this message will report all of the severity level option settings, the handler identification option setting, and the class option settings that are turned on, and whether **MSGSAVE** is ON or OFF.

## 2. FORMAT

**OP:IODRV**[;[**LVL**][,**ID**][,**CLASS**][,**MSGSAVE**]]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **LVL** | Report the severity level option setting. |
| **ID** | Report the handler identification option setting. |
| **CLASS** | Report the class option setting. |
| **MSGSAVE** | Report whether or not IOP error messages are being saved in the IODRVLOG logfile. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Process not initiated. |
| PF | Printout Follows. Followed by the OP:IODRV output message. |

## 5. REFERENCES

Output Message
OP:IODRV

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:IOP-INFO
WORK CENTER . . MOC
GENERIC . . . . . 4AP17 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Outputs the following informations about the specified IOP.

| | |
|---|---|
| `U_name` | The name of the unit represented by this ucb. |
| `Unit #` | A ucb marked unique is one whose corresponding physical device has a unique name. |
| `U_mv` | Diagnostics use it to determine the pack type. |
| `State` | This field gives the major device status. |
| `PackCode` | Pack name. |
| `Versions` | Microcode version. |
| `Ver_From` | Microcode version is read from, either from ECD or RAM. |

## 2. FORMAT

**`OP:IOP`** `a`**`;INFO!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | `IOP` member number. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:IOP-INFO` output message. |

## 5. REFERENCES

Output Message
`OP:IOP-INFO`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:LFS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

This message allows the user to obtain the intermediate results of an active Link Fault Sectionalization (**LFS**) test that is initiated from the near-end, without interrupting the tests in progress. A variation of this message reports customized loopback test attributes for the loopback components.

## 2. FORMAT

**OP:LFS** {**ALL**|(a,b[,c,d])|**DEFAULTS**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **ALL** | Reports intermediate results of **ALL** links for which **LFS** tests are in progress. |
| a | Link group number (0–63). |
| b | Link member number (1–15). |
| c | End group number for a range of links for which **LFS** tests are in progress (0–63). |
| d | End member number for a range of links for which **LFS** tests are in progress (0–15). |
| **DEFAULTS** | Reports the current default test attributes for the different loopback components types. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The requested **LFS** information is sent to the Maintenance Terminal (MCRT) and the Receive Only Printer (ROP). |

## 5. REFERENCES

Input Messages
EXC:LFS
SET:LFS

Output Messages
EXC:LFS
OP:LFS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:LIBUF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests output of link interface buffers from CCS7 nodes.

The first field of this message is required. It specifies the link and type of buffer to be reported.

The second field of this message is optional. It specifies when the buffer is to be reported.

The last field of the message is also optional. It specifies the index of the stored dump to be reported.

## 2. FORMAT

[1] **OP:LIBUF(**a,b,**T):**[c],[**NUM** d]**!**

[2] **OP:LIBUF(**a,b,**R):**[e],[**NUM** d]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (1–15). |
| **T** | Transmit buffer. |
| **R** | Receive buffer. |
| c | Condition when buffer is to be reported: |
| | OL1 — Overload Level 1. Default. |
| | OL2 — Overload Level 2. |
| | OL3 — Overload Level 3. |
| | OF — Overflow. |
| d | Index of stored dump (1–10). Default = the first stored dump. |
| e | Condition when buffer is to be reported: |
| | OL1 — Overload Level 1. Default. |
| | OF — Overflow. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Message
`COPY:LIBUF`

Output Message
`OP:LIBUF`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:LNSTAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This command requests that a snapshot of certain key link node (link interface and node processor) status and data information be output. The requested data is described in the `OP:LNSTAT` output message. The requested data is intended to aid in troubleshooting and analyzing link node problems. This command is valid only for Signaling System 7 (SS7) links.

The Destination class field of the message may be used to direct the output to a specified output class. The 'destination number to output device' cross reference can be found by use of the `OP:OUTCLS` input message. If a destination is not specified, the output is directed to the requester as well as the Maintenance Read-Only Printer (MROP) and the Switching Control Center System (SCCS).

If the input message is accepted (noted by the `PF` ack), a request for data message is sent from the 3B computer to the link node. The link node sends the requested data back to the 3B computer where it gets processed and output.

## 2. FORMAT

**`OP:LNSTAT`**`(a,b)[`**`;DEST`** `c]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0 - 63`). |
| `b` | Member number (`0 - 15`). |
| `c` | Destination class (`0 - 255`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The request was not accepted, reason |
| `PF` | Printout Follows. An output message will follow. to follow. |
| `RL` | Retry Later. The **`OP:LNSTAT`** command cannot execute at this time, reason to follow. |

## 5. REFERENCES

Output Message
`OP:LNSTAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:LOG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the selected contents of a logfile be printed. The default maximum number of entries printed is 200, unless the **LIMIT** option is specified. If the logfile is the only criterion entered, the first 200 entries of the logfile are printed. Otherwise, only the entries in the logfile that meet all of the selection criteria are printed. (Unless the **LIMIT** option is specified as one of the criteria, the first 200 entries that match all the selection criteria are printed).

The entire output report is always routed to the Receive only Printer (ROP). The amount of data output routed to the terminal is determined by the command line options selected and the size of the data output. When the **CLASS** option is set to T, the entire output report is routed to the terminal as well as the ROP. When the **CLASS** option is set to R, the entire output report is routed to the ROP, and only the COMPLETED message is routed to the terminal.

**NOTE:** The COMPLETED message also contains the last non-full segment, if it exists, of the output report. In other words, if the data output fills n complete segments (where n is an integer greater than or equal to 1), then the COMPLETED message (and no output data) is printed at the terminal.

When the **DEVICE** option is set to a valid device, the entire output report is routed to the specified device as well as the ROP with nothing being output to the terminal.

**NOTE:** Having a large amount of data output to a terminal may take several minutes to complete and could give the appearance that subsequent input commands are not being processed. Output from the subsequent commands will be printed once output from **OP:LOG** has completed.

The **DATE**, **TIME**, **ID**, and **TYPE** options are matched with information contained in the user control string which the spooler adds as a prefix to each message before storing it in the logfile. The user control string is not part of the OP:LOG output. The keyword (**KW**) option matches on the text of each message.

**NOTE:** When the six-digit date range is used in conjunction with a time range, the log entries will be output from start time to end time for each day in the range of start date through end date.
The ten-digit date allows the user to output log entries from the start time on start date until end time on end date. Specifying the start time and end time with the ten-digit date range is invalid.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

```
OP:LOG;LG "a"[:[DATE b[-c],][TIME d[-e],][KW "f",][ID g,][TYPE h,]
      [LIMIT i,][,CLASS j|,DEVICE "k"][,FN "l"]]!
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the logfile. Any valid logfile name; for example, `ULARP`.

`b` Start date as six-digit format (`mmddyy`) or ten-digit format (`mmddyyhhmm`). For example, `100257` is October 2, 1957; `0102571000` is January 2, 1957, at 10:00 a.m. Default is first date in logfile.

`c` End date as six-digit format (`mmddyy`) or ten-digit format (`mmddyyhhmm`). For example, `100257` is October 2, 1957. `0103570800` is January 3, 1957, at 8:00 a.m. Default is start date if specified; otherwise, last date in logfile.

`d` Start time in hour and minutes format (`hhmm`). For example, `0110` is 1:10 a.m. Default is `0000`.

`e` End time in hours and minutes (`hhmm`). For example, `1530` is 3:30 p.m. Default is start time. Upper boundary is `2359`.

`f` A keyword that appears in all entries that are to be reported.

`g` An optional decimal number (`0 - 9999`) that is used to link an item in a logfile with an entry in another file. The **`ID`** is filled in by the process that made the logfile entry.

`h` An optional decimal number (`0 - 9999`) which specifies the type of entry in a logfile. The **`TYPE`** is filled in by the process that made the logfile entry.

`i` The maximum number of output entries needed. Default is `200`. `OP:LOG` will report output complete if this limit is reached.

`j` Location to which output should be routed:

- `R` — Receive-only printer. Default.
- `T` — Terminal and ROP.

`k` A specific device to which output should be routed. This device should not be a logfile device.

`l` The name of a file to be created in `/fmt` to which logfile output should be routed. This option will direct logfile output to the specified file; all status messages are routed to the location to which the output should be routed or the specific device to which output should be routed, (depending on other options used) and the logfile.

The specified filename must not exceed 14 characters, must not contain parent or current directory references (`/../` or `/./`), and must not be an existing file in `/fmt`.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `IP` | In Progress. |
| `RL` | Retry Later. Could not attach to the Equipment Configuration Database (ECD). |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message
`DEL:LOG`

Output Messages
`DEL:LOG`
`OP:LOG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MEMERRS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reports an interpreted version of the selected MEMLOG entries. The MEMLOG file entries with the specified date(s) will be output in a tabulated format.

## 2. FORMAT

**`OP:MEMERRS:DATE`** `a[-b]!`

## 3. EXPLANATION OF MESSAGE

`a` Starting date in the form {`yy`|`mmyy`|`mmddyy`} where `yy` is year number, `mm` is month number, and `dd` is day number. For example `0594` is May 1994, `94` is 1994, or `052794` is May 27, 1994.

`b` Ending date in the form {`yy`|`mmyy`|`mmddyy`} If there is no date given for the ending date, only those entries with the starting date will be output.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `NOT AVAILABLE ON HW PLATFORM`
Interpreted version of `MEMLOG` entries are not available on 3B21D CU hardware platform.

`PF` Printout Follows. Followed by the `OP:MEMERRS` output message.

`RL` Retry Later. Unable to open output file.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`OP:MEMERRS`
`REPT:CU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MHD-INFO
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the following information regarding the specified Moving Head Disk (**MHD**):

- Unit name and number of Disk File Controller (DFC)
- Unit name and number of the Small Computer System Interface (SCSI) Bus (SBUS) on which the specified **MHD** is connected
- Device ID
- Physical port
- Major status
- Equipage
- Number of tracks
- Validity of the Volume Table Of Contents (VTOC)
- Unit reserved
- Usability
- Unit essential
- Unit's mate

## 2. FORMAT

**OP:MHD** a**:INFO!**

## 3. EXPLANATION OF MESSAGE

a **MHD** member number.

## 4. SYSTEM RESPONSE

PF Printout Follows. Followed by the OP:MHD-INFO output message.

## 5. REFERENCES

Input Messages
OP:DFC-INFO
OP:MHD-INFO

Output Message
OP:MHD-INFO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:MT-INFO
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the following information regarding the specified Small Computer System Interface (SCSI) Magnetic Tape (**MT**) device.

- Disk File Controller (DFC) member number and major status
- DFC microcode (firmware/pumpcode) version
- SCSI Bus (SBUS) member number, device ID, and major status
- Unit name and member number
- Device type
- Device ID
- Major status
- Unit reserved
- Device firmware revision level

## 2. FORMAT

**OP:MT** a**;INFO!**

## 3. EXPLANATION OF MESSAGE

a **MT** member number (0–255).

## 4. SYSTEM RESPONSE

PF Printout Follows. Followed by the OP:MT–INFO output message.

## 5. REFERENCES

Input Message
OP:DFC–INFO

Output Message
OP:MT–INFO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:NODES
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message is used to request the status of the nodes and links for the Common Network Interface (CNI) ring.

Format 1 lists the status of the nodes for a given office. In addition to the CNI status of the node, the state of each link is given and other pertinent information depending upon the node type and what is defined in the database. If the MAJOR state is unequipped (UNEQ), no other data is given for that node.

Format 2 lists only data for the node type requested.

Format 3 compares the node software to the 3B version of the software for the specific node type requested.

Format 4 compares the node software to the 3B version of the software for all node types in the office.

## 2. FORMAT

[1] **OP:NODES!**

[2] **OP:NODES;**a**!**

[3] **OP:NODES;**a**,AUDTS!**

[4] **OP:NODES;ALL,AUDTS!**

## 3. EXPLANATION OF MESSAGE

a — Node type: **ATP**, **CCS7**, **CIT7**, **DCHN**, **DLN**, **EIN**, **HSAL**, **SADC**, and **SIN**.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Request was accepted and an output message will follow.

## 5. REFERENCES

Output Message
OP:NODES

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . OP:NPMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

**WARNING**
**When the UCL option is specified, there is a risk of causing RING TRANSPORT ERRORS. This option is intended for use only in emergency situations where a node is marked faulty but believed to be otherwise.**

## 1. PURPOSE

The `OP:NPMEM` command allows the user to read specified memory or port locations from a Node Processor (NP) or Attached Processor (AP) and send the output to a file or the Read Only Printer (ROP) or both. Data that is sent to a file is appended to any data that may remain in that file from previous calls to `OP:NPMEM`.

All desired data should be retrieved from the node processor before attempting to read memory back from an inactive attached processor since the read of the attached processor memory can destroy memory addresses X'80000 to x'90000 in the NP. Also, data that is retrieved from memory locations X'60000 to X'7FFFF of an inactive node processor with a 922 SSI board on the active ring may be changed during the retrieval and therefore incorrect data may be returned.

The `OP:NPMEM` output message and node memory or port data will be output. The memory or port specified is uploaded and the `OP:NPMEM` output message is generated. The data read will be segmented in 464 bytes or less. Each segment read will be blocked in 464 bytes or less for ROP dumps. Each block will be read in one time interval thus providing a static view of the block of memory.

Directory "`/etc/log/`" will be used as the default directory for file placement when the **`FILE`** , **`FILEROP`** , **`RAW3B`** or **`RAW80`** argument is used to the **`NPMEM`** keyword. Users can, however, direct the output file when produced to any directory deemed appropriate by creating the file "`npmempath`" in directory "`/cmp/ims/npfile/`". The `npmempath` file can then contain the path to the directory where the file is to be placed. If the `npmempath` file is used, it should be deleted after all desired data collection is complete.

All files created and directories where files are placed from the use of the **`OP:NPMEM`** command are the user's responsibility to maintain.

When the argument to the **`NPMEM`** keyword is omitted, the **`OP:NPMEM`** command will default to **`ROP`**.

## 2. FORMAT

```
OP:NPMEM [ROP|FILE|FILEROP|RAW3B|RAW80]{,RPCNa 0|,LNa b}
      {;MADDR|;BPORT|;APADDR} c{;NBYTES|;NPORTS} d
      [:{WTIME e|UCL|WTIME e,UCL}]!
```

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

**ROP** Argument to keyword **NPMEM** which will cause the output to be printed at the ROP.

**FILE** Argument to keyword **NPMEM** which will cause the output to be placed in a file.

**NOTE:** When this argument is specified, the input message doesn't echo on the read only printer.

**FILEROP** Argument to keyword **NPMEM** which will cause the output to be printed at the read only printer and placed in a file.

**RAW3B** Argument to keyword **NPMEM** which will cause the output to be placed in a file.

**NOTE:** When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of a 3B or Motorola 68000 family of processors.

**RAW80** Argument to keyword **NPMEM** which will cause the output to be placed in a file.

**NOTE:** When this argument is specified, the content of the file will have both binary and ASCII data with the byte ordering for the binary portion being like that of an Intel 80 family of processors.

**RPCN** Ring Peripheral Controller Node (RPCN) request. When the **FILE** or **FILEROP** is used as an argument to the **NPMEM** keyword, the file produced will be named with the `D.RPCNx_y` convention. When the **RAW3B** or **RAW80** is used as an argument to the **NPMEM** keyword, the file produced will be named with the `DR.RPCNx_y` convention.

**NOTE:** Although it is planned to be able to read memory and ports at an OOS RPC node, this capability is not currently available.

`a` A Ring Node (RN) group number (`00-63`) with explicit leading zero for group numbers less than 10.

**LN** Link Node request. When the **FILE** or **FILEROP** is used as an argument to the **NPMEM** keyword, the file produced will be named with the `D.LNx_y` convention. When the **RAW3B** or **RAW80** is used as an argument to the **NPMEM** keyword, the file produced will be named with the `DR.LNx_y` convention.

`b` The nodes position in the RN group (`0-15`).

**MADDR** Node processor memory request.

**BPORT** Node processor byte port request.

SEE PROPRIETARY NOTICE ON COVER PAGE

**APADDR** Attached processor memory request. In order for this request to be honored, the node must have an attached processor. In addition, nodes that are active must have the _AP_MTCE channel open and must be able to handle an AP read request message.

c Start address for memory or port to be dumped. For a node processor memory or port request, the start address is specified as a twenty-bit address: 16-bit virtual address (bits 0-15) plus a 4-bit segment (bits 16-19) for memory dumps, and a 'don't care' segment for port dumps. For attached processor memory dumps, the start address is specified as a 32-bit physical address when the node is not in the ACTIVE state, and a 32-bit virtual address for ACTIVE nodes.

**NBYTES** Keyword that specifies a memory dump.

**NPORTS** Keyword that specifies a port dump.

d Number of consecutive bytes to dump. The total number of bytes that can be obtained is 63488 for attached processors that are not active. A node in an isolated segment of the ring can only dump a maximum of 432 bytes for the **ROP** option. If these restrictions are satisfied, a request can obtain from 1 to 1024 bytes for **ROP** and from 1 to the total memory size available in the node for **FILE**, **FILEROP**, **RAW3B** or **RAW80**.

**WTIME** Waiting time allowed for this command.

e Wait time limit for the duration of the data dump specified in minutes. Range (1-60). When specified wait time expires, this command will be terminated. The default value for the wait time is 3 minutes.

**UCL** Unconditional request. When reading from a non-active, unisolated ring node, ignore certain safety checks that would normally prohibit reading.

## 4. SYSTEM RESPONSE

PF Printout Follows.

## 5. REFERENCES

Output Message
OP:NPMEM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OFL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all currently off-line computer hardware units. This format provides a list of all off-line units of a particular type.

## 2. FORMAT

**`OP:OFL`**`[:{a[ b][,c d]}]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit name. Unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `b` | Unit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `c` | Subunit name, If unit name is Control unit (CU) subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |
| `d` | Subunit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:OFL` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Message
`OP:CFGSTAT`

Output Messages
`OP:CFGSTAT`
`OP:OFL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OMDB
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Output the message text, message class, and alarm level from an Output Message Data Base (**OMDB**) entry for the given key or keys.

## 2. FORMAT

**OP:OMDB;**a**;KEY=**b**!**

## 3. EXPLANATION OF MESSAGE

a — Copy of output message database to access:

ACT — Active **OMDB**.
DISK — **OMDB** disk file.

b — Message key or list of keys (0–16377).

## 4. SYSTEM RESPONSE

NG — No Good.

— INVALID KEY
A message key is not within the valid range.
— INVALID OMDB COPY
DISK or ACT not entered for **OMDB** copy to access.
— SYNTAX ERROR
Command is not in the correct format.
— TOO MANY KEYS
Maximum of 32 keys are allowed per command.

PF — Printout Follows. Followed by the OP:OMDB output message.

## 5. REFERENCES

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Messages
ACTV:OMDB
UPD:OMDB

Output Message
OP:OMDB

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OOS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all currently Out-Of-Service (OOS) computer hardware units. This format provides a list of all out-of-service units of a particular type.

## 2. FORMAT

**OP:OOS**[:{a[ b][,c d]}]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name. Unit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| c | Subunit name, If unit name is Control unit (CU) subunit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| d | Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by the OP:OOS output message. |
| RL | Retry Later. |

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

Input Appendixes
APP:MEM-NUM-C
APP:MEM-NUM-D

Input Message
OP:CFGSTAT

Output Messages
OP:CFGSTAT
OP:OOS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:OUTCLS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests the display of one or all of the output classes available in the Equipment Configuration Database (ECD) and the device(s) assigned to these output classes.

If a single output class is requested, the devices assigned to that output class are displayed. If `ALL` output classes are requested, the devices assigned to all output classes in the ECD are displayed. If a destination is requested, the output message will be sent to the specified output class. Otherwise, the output message will be directed to the MTTY.

## 2. FORMAT

**`OP:OUTCLS`** `{a|`**`ALL`**`}[;`**`DEST`** `b]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Output class: (`0 - 255`). |
| **`ALL`** | All output classes. |
| `b` | Destination class: (`0 - 255`). |

## 4. SYSTEM RESPONSE

See Purpose.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual* - Measurement Output Control Table Section

Output Appendix
`APP:APPENDIX-09`

Output Message
`OP:OUTCLS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:PERFMEAS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Monitors the performance of the system. Measurements are taken by the system at the interval and length specified in this message.

## 2. FORMAT

**OP:PERFMEAS,INT** a**,LENGTH** b;{c[,c][,c]|**ALL**}!

## 3. EXPLANATION OF MESSAGE

a — Length of the interval between measurements (000–999), in seconds.

b — Length of the measurement (0000–9999), in seconds.

c — Type of measurement requested:

- API — Measure Attached Processor Interface (API) disk usage.
- REALTIME — Measure kernel level execution times.
- SYSTEM — Measure main memory and disk memory usage.

**NOTE:** Any combination of API, REALTIME and SYSTEM, may be used.

**ALL** — Measures REALTIME, SYSTEM, and API times and usage.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

PF — Printout Follows. Performance measurement will be executed. The output message REPT:RUSDKERN prints if the performance measurements have started or completed.

## 5. REFERENCES

File Name
3bmeas

Input Message
OP:PERFRPT

Output Messages
REPT:RUSDG
REPT:RUSDKERN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PERFRPT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Dumps the performance data created by input message `OP:PERFMEAS` onto tape.

## 2. FORMAT

**`OP:PERFRPT,TAPE`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Tape drive (`0 - 1`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Tape write will be executed. |

## 5. REFERENCES

File Name
`3bmeas`

Input Message
`OP:PERFMEAS`

Output Messages
`REPT:RUSDG`
`REPT:RUSDKERN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:PLNTSUM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Outputs 3B computer plant measurements, which are collected once every hour. Information is collected for the last hour, day-to-hour, or daily intervals. This message specifies the report to be output.

## 2. FORMAT

**OP:PLNTSUM,{DAY|DTH|HR}!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **DAY** | Daily report. |
| **DTH** | Day-to-hour report. |
| **HR** | Last hour report. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| ?I | Identification field contains an error. |
| NG | No Good. Unable to initiate plant measurement process. |
| PF | Printout Follows. Followed by plant measurements report. |

## 5. REFERENCES

File Name
3bmeas

Output Messages
REPT:PM-CNTL
REPT:PM-REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:PMCR
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests the various plant measurements common reports, detailing system performance statistics. By default, the data collected for the previous hour is reported every hour and the data collected for the previous day is reported at midnight.

Each of the three formats (for **STAT**, **RET**, and **DEM**) has its own distinct purpose:

## 2. FORMAT

[1] **OP:PMCR:TYPE STAT**[**,HOURLY**|**,DAILY** a|**,NOHOURLY**|**,NODAILY**]**!**

[2] **OP:PMCR:TYPE RET,INTVL** b**,FORM** c**!**

[3] **OP:PMCR:TYPE DEM,FORM** c**!**

## 3. EXPLANATION OF MESSAGE

**STAT** Status report. Indicates whether the hourly and/or daily scheduled reports will be output. This form is also used to enable/disable printing of the daily/hourly reports, or to change the hour when the daily report is output.

**HOURLY** Set the option for hourly reports to be output every hour. Use only with **STAT** format.

a The hour (0–23), where default is 0 (midnight). Use only with **STAT** format.

**NOHOURLY** Sets the option for hourly reports not to be output. Use only with **STAT** format.

**NODAILY** Sets the option for daily reports not to be output. Use only with **STAT** format.

**RET** Retained report. Outputs a report of the previous daily or hourly data, depending on the interval entered. Requesting a daily retained report should not be attempted until after a scheduled daily report has been generated. Requesting an hourly retained report should not be attempted until after a scheduled hourly report has been generated.

b Report interval:

DAILY — Outputs the data from the previous day.

HOURLY — Outputs the data from the previous hour;

SEE PROPRIETARY NOTICE ON COVER PAGE

**c** Report form:

1 — Form 1 outputs system and equipment performance.

2 — Form 2 outputs more detailed equipment performance.

**DEM** Demand report. Outputs a report of up-to-the-hour data collected for the next daily report (as determined by the **STAT** format - default is midnight). Demand reports should not be attempted until at least one hour after a valid scheduled daily report has been generated.

## 4. SYSTEM RESPONSE

PF Printout Follows. Followed by the REPT:OP-PMCR output message.

## 5. REFERENCES

Output Messages
OP:PMCR
REPT:OP-PMCR

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RCAS
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message requests the **RCAS** kernel process to report status of **RCAS** tasks, **RCAS** meas, or **RCAS** files.

## 2. FORMAT

**OP:RCAS,**a**!**

## 3. EXPLANATION OF MESSAGE

a — Report the status of **RCAS** tasks, **RCAS** meas, or **RCAS** files:

FILES — **RCAS** files.

MEAS — **RCAS** meas.

TASKS — **RCAS** tasks.

## 4. SYSTEM RESPONSE

NG — No Good.

— BAD OST CALL
Operating system trap call to **RCAS** failed.

— RCAS UNKNOWN REQUEST
**RCAS** received an unknown request.

PF — Printout Follows. Followed by OP:RCAS output message.

RL — Retry Later.

— RCAS IS NOT RUNNING
The kernel process **RCAS** is not running.

— UNABLE TO OPEN TMP FILE
Unable to open temporary file for output message.

— UNKNOWN RESPONSE FROM RCAS
Unknown response from **RCAS**.

## 5. REFERENCES

Output Messages
OP:RCAS-FILES
OP:RCAS-MEAS
OP:RCAS-TASKS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:REXINH
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of routine exercise inhibits.

Reports computer hardware communities and application hardware communities that have routine exercises temporarily inhibited by means of the `INH:REX` input message, and reports if routine exercises are temporarily inhibited by means of the `INH:DMQ-A` input message. The specific Diagnostic Maintenance Queue (DMQ) inhibits may be verified by using the `OP:DMQ` input message.

With the **`PERM`** option, reports computer hardware communities and application hardware communities that have routine exercises permanently inhibited by a field in the Equipment Configuration Database (ECD).

## 2. FORMAT

**`OP:REXINH[:PERM]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`PERM`** | Requests a list of permanent routine exercise inhibits. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:REXINH` output message. |
| `RL` | Retry Later. Cannot read ECD Unit Control Block (UCB) records. |

## 5. REFERENCES

Input Messages
- `ALW:DMQ-A`
- `ALW:REX`
- `INH:DMQ-A`
- `INH:REX`
- `OP:DMQ`

Output Messages
- `OP:DMQ`
- `OP:REXINH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:RING
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,IMS
TYPE ..... Input

## 1. PURPOSE

The **OP:RING** command provides the ability to obtain status or generic information about a particular node, a group of nodes, or all nodes on a particular group. The default of this command (no options entered) provides status information on the ring, i.e., the same as if **;SUM** were entered.

Format 1 obtains status information.

Format 2 obtains generic information.

## 2. FORMAT

[1] **OP:RING**[**,RPCN**a **0**|**,LN**a b|**,GRP** a][**;SUM**|**;DETD**[ **ALL**]]**!**

[2] **OP:RING**{**,RPCN**a **0**|**,LN**a b}**;GEN!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **RPCN** | Ring peripheral controller node. |
| **LN** | Link node request. |
| a | A Ring Node (RN) group number (00–63) with explicit leading zero for group numbers less than 10. |
| b | The node's position in the RN group (1–15). |
| **SUM** | Requests status information on the ring. Default value. |
| **DETD** | Requests detailed status of the ring. (Only equipped IUN nodes are printed.) |
| **ALL** | Requests detailed status of the ring. (All IUN nodes are printed.) |
| **GEN** | Requests generic information. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The OP:RING output message will be output. |

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* - Diagnostics User's Guide Section

Output Message
OP:RING

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:RTM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message outputs the real time usage of all processes in the Dispatcher Control Table (DCT).

The real time usage for each process with an entry in the DCT is listed. The real time usage is reported in percentages. Detailed summaries of short and long term usage, kernel, supervisor, and user usage, and number of DCT entries sampled follows the list of individual processes.

## 2. FORMAT

**`OP:RTM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The RTkernel process must exist for **`OP:RTM`** to work correctly. The `NG` response indicates that the RTkernel process does not exist, and no output will follow. |
| `PF` | Printout Follows. Request was received and understood by **`RTM`**. |
| `RL` | Retry Later. **`OP:RTM`** has been executed recently, and has not completed. **`RTM`** cannot honor the request at the present time. No output will follow. |

## 5. REFERENCES

Output Message
`REPT:RTM-STATUS`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . OP:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

Requests the current status of the specified RGRASP breakpoint(s) at the given node.

Format 1 outputs the status of all breakpoints in the specified node.

Format 2 outputs the status of a specific breakpoint in the specified node.

An attempt will be made to output the status of the specified breakpoint in the specified node. The user will be informed about the result of this operation.

## 2. FORMAT

[1] **`OP:RUTIL(`**`a,b`**`),AP!`**

[2] **`OP:RUTILFLAG(`**`a,b`**`),AP;BP c!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Group number (`0 - 63`). |
| `b` | Member number (`1 - 15`). |
| `c` | The specific breakpoint to be output. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-122 *CNI Maintenance Manual* - Ring and Ring Node Maintenance Procedures Section

Input Messages
`ALW:RUTIL`
`CLR:RUTIL`
`INH:RUTIL`
`WHEN:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message
`OP:RUTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SCHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This message is used to display information about all of the reports available in the Measurement Output Control (MOC) Schedule (**SCHD**) table.

If a destination is requested, the output message will be sent to the specified output class. Otherwise the output message will be directed to the input device.

## 2. FORMAT

**OP:SCHD**[;**DEST** a]!

## 3. EXPLANATION OF MESSAGE

a Destination class (0–255).

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual*- Measurement Output Control Table Section

Input Message
OP:OUTCLS

Output Message
OP:SCHD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SCSD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the inhibit status and the state of Scanner And Signal Distributor (**SCSD**) scan points. This can be a logical group of scan points or all the scan points on an **SCSD**. Scan points can be identified by physical location using the **SCSD** unit number or by the logical group name. If a logical group is duplexed, the states of both logical groups (dupid 0 and dupid 1) are output.

## 2. FORMAT

[1] **OP:SCSD;UNIT** a!

[2] **OP:SCSD;GRPN** "b"!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number of the **SCSD** unit (0–16). |
| b | Name of the logical **SCSD** group. Examples are: FANACU0, FANACU1, PDF0, PRSWCU0, PRSWCU1, PRSWDFC0, PRSWDFC1, PRSWIOP0, PRSWIOP1, PRSWMHD0, PRSWMHD1, PTSWMCR, PTSWROP |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. **SCSD** administrator process is not active; no communication with **SCSD** points is possible. |
| PF | Printout Follows. Followed by the OP:SCSD output message. |
| RL | Retry Later. |

## 5. REFERENCES

CIC Select Code 304-035 *SCSD User's Guide*

Practice 254-301-110 *Input-Output Processor Peripheral Controllers Description and Theory of Operation Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
ALW:SCSD
INH:SCSD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
OP:SCSD
RCVRY:SCSDC
REPT:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SDC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This command causes the 3B-based Service Degrading Condition (**SDC**) list to be printed. This command has a similar purpose to the `OP:SDC` command on the 1B, except only 3B-based devices are on the **SDC** list. A device is put on the **SDC** list if that device is causing a loss of service for the office.

For the 3B, the service degrading conditions are defined as follows.

1. Ring initialization in progress.
2. Ring is in quiet mode.
3. DLN input stream is not active.
4. DLN output stream is not active.
5. API input stream is not active.
6. API output stream is not active.
7. An office with two DLNs has both DLNs not active.
8. An office with greater than two DLNs has at least three DLNs not active.
9. A domestic CCS7 linkset has 50% or fewer active links.
10. An international CCITT7 linkset is 100% not active.
11. A simplex D-Channel or SADC link is not active.
12. Both D-Channels failed in a D-Channel backup.

The output will give the condition for items 1-6 and will give the affected Ring Node Addresses (RNA) for items 7-12. For items 11 and 12, failures are put on the **SDC** list only if the cause is internal equipment.

## 2. FORMAT

**`OP:SDC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. `OP:SDC` output message will follow.

## 5. REFERENCES

Output Message
`OP:SDC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:SLK
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Requests output of link status information.

For the PBX node, use Format 1.

For the CCS7 node equipped with LID0, use Format 2.

For other nodes, use Format 3.

The first field of this message is required. It specifies the range of links to be reported. Note that if a report is requested for a multi-link node via its group and member numbers, without using the **LINK** option, a status report will be generated for every link on the node. Currently supported multi-link nodes: D-Channel (DCHN) and Special Access Data Channel (SADC).

By use of the second field of this message, the link report may be limited to links in the specified Major and/or Minor state, and/or links of a given link type, or a single link of a multi-link node.

The third field of the message is used to request more detailed information for each link specified in the report.

The last field of this message may be used to direct the output to a specified output class.

## 2. FORMAT

[1] **OP:SLK{ALL|(a,b[,c,d])}[;[LINK(e,f)][,STATE** g[ h]][,**TYPE** i]
[;[**ABNORMAL**][,**CODES**][,**FIX**][,**RAW**][,**ROUTING**]][:**DEST** j]!

[2] **OP:SLK{ALL|(a,b[,c,d])};[STATE** g[ h][ k]][,**TYPE** i];[**ABNORMAL**]
[,**CODES**][,**FIX**][,**RAW**][,**ROUTING**][:**DEST** j]!

[3] **OP:SLK{ALL|(a,b[,c,d])};[STATE** g[ h]][,**TYPE** i];[**ABNORMAL**]
[,**CODES**][,**FIX**][,**RAW**][,**ROUTING**][:**DEST** j]!

## 3. EXPLANATION OF MESSAGE

**ALL** Report status of all links. If only a select range of links is desired, use the group-member number designation.

a Group number (0–63).

SEE PROPRIETARY NOTICE ON COVER PAGE

`b` Member number (`1-15`).

`c` End group number for a range of **`SLKs`**.

`d` End member number for a range of **`SLKs`**.

`e` Circuit Pack of a multi-link node for the **`LINK`** option. (`0` or `1`.)

`f` Port number on the Circuit Pack of a multi-link node for the **`LINK`** option. (`0-3`.)

`g` Either a Major or Minor state:

- `AVL` — Available.
- `GROW` — Unavailable Grow.
- `IS` — Available In Service.
- `MOOS` — Available Manual Out-Of-Service.
- `NOTIS` — Output all links in the major state of Available whose minor state is NOT In-Service (IS).
- `OOS` — Available Out-Of-Service.
- `STBY` — Standby.
- `TEST` — Unavailable Test.
- `UNA` — Unavailable.
- `UNE` — Unequipped.

`h` A Minor state:

- `FLFS` — Local LFS ran and failed. This state is only meaningful when the first state given is `MOOS` or `TEST`. The LID0 board must also be equipped.
- `GROW` — Unavailable Grow.
- `IS` — Available In Service.
- `MLFS` — Local LFS is running. This state is only meaningful when the first state given is `MOOS` or `TEST`. The LID0 board must also be equipped.
- `MOOS` — Available Manual Out-Of-Service.
- `NLFS` — LFS not running. This state is only meaningful when the first state given is `MOOS` or `TEST`. The LID0 board must also be equipped.
- `OOS` — Available Out-Of-Service.
- `STBY` — Standby.
- `TEST` — Unavailable Test.
- `RLFS` — Remote LFS is running. This state is only meaningful when the first state given is `MOOS` or `TEST`. The LID0 board must also be equipped.

SEE PROPRIETARY NOTICE ON COVER PAGE

`i` **TYPE** of link:

- `A` — A links
- `B` — B links
- `C` — C links
- `D` — D links
- `D7` — Domestic System 7 links
- `DCHN` — DCHN links
- `DLN` — Direct Link Node
- `E` — E links
- `INTL` — INTERNATIONAL links
- `S6` — System 6 links
- `SADC` — SADC links
- `W` — World links

**ABNORMAL** Output a detailed report including the link's abnormal conditions. This is a shortened form of the **RAW** option. If both options are selected on the input request, only the **RAW** option will be honored.

**CODES** Output a detailed report including the link failure codes. This is a shortened form of the **RAW** option. **CODES** is intended to be used by itself, therefore if it appears on the command line with any other of these options, the other options will be ignored.

**FIX** Output a detailed report including the link configuration data.

**RAW** Output a detailed report of the dynamic link information.

**ROUTING** Output a detailed report including some routing information.

`j` Destination class (`0 - 255`).
The "destination number to output device" cross reference can be found in Output `APP:APPENDIX-09`, or by use of the `OP:OUTCLS` input message. If a destination is not specified, the output returns to the requester only.

`k` Subminor state of the CCS7 link:

- `FLFS` — Local LFS ran and failed. This state is only meaningful when the second state given is `MOOS` or `TEST`. The LID0 board must also be equipped.
- `MLFS` — Local LFS is running. This state is only meaningful when the second state given is `MOOS` or `TEST`. The LID0 board must also be equipped.
- `NLFS` — LFS not running. This state is only meaningful when the second state given is `MOOS` or `TEST`. The LID0 board must also be equipped.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RLFS` — Remote LFS is running. This state is only meaningful when the second state given is `MOOS` or `TEST`. The LID0 board must also be equipped.

## 4. SYSTEM RESPONSE

`NG` No Good. The request conflicts with the current system or equipment status.

`PF` Printout Follows.

## 5. REFERENCES

Practice 234-100-121, (non-AT&T) - *CNI Operations Manual,*
Practice 234-100-121AC, (AT&T only)- *CNI Operations Manual,*
Analog Signaling Link Operating Procedures Section Analog Signaling Link Test Procedures Section Digital Signaling Link Operating Procedures Section Digital Signaling Link Test Procedures Section International Link Node Signaling Link Operating Procedures Section D-Channel and International Link Node Signaling Link Test Procedures Section

Output Appendix
`APP:APPENDIX-09`

Input Message
`OP:OUTCLS`

Output Message
`OP:SLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:SMR
WORK CENTER.. MOC
GENERIC ..... 4AP15 Rel. 2 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Requests a measurement report.

If the maximum number of allowed reports is not already running, the requested report generator will be created. The report results will be directed to the destination specified in the input command or to the input device if no destination is specified. If the **LINK** option is used for a recognized report generator, the report results for the specified link node(s) will be output.

## 2. FORMAT

**OP:SMR** a[**;LINK(**c,d[,e,f]**)**][**;DEST** b]**!**

## 3. EXPLANATION OF MESSAGE

a — The name of the requested report. This should be at most 16 characters long. The report name must agree with one of the names in the Schedule (SCHD) table.

b — Destination class (0–255). The destination classes are those defined in the ECD classdef form.

c — The starting link group number. The **LINK** option is only recognized by NOCS5DMD and CNI's four nonfixed format report generators.

d — The starting link member number. The **LINK** option is only recognized by NOCS5DMD and CNI's four nonfixed format report generators.

e — The ending link group number. The **LINK** option is only recognized by NOCS5DMD and CNI's four nonfixed format report generators.

f — The ending link member number. The **LINK** option is only recognized by NOCS5DMD and CNI's four nonfixed format report generators.

## 4. SYSTEM RESPONSE

PF — Printout Follows. If the maximum number of allowed reports is not already running, the requested report generator will be created. The report results will be directed to the destination specified in the input command or to the input device if no destination is specified. If the **LINK** option is used for a recognized report generator, the report results for the specified link node(s) will be output.

RL — Retry Later.

— REPORTS FULL
No report will be generated.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 234-100-121, (non-AT&T) - *CNI Operations Manual*,
Practice 234-100-121AC, (AT&T only)- *CNI Operations Manual*,
Measurements, Reports, and Critical Events Section

Input Message
`OP:OUTCLS`

Output Message
`OP:SMR`

REPORT NAMES PROVIDED IN CNI DEFAULT SCHD TABLE

| | | | |
|---|---|---|---|
| A30MPR30 | ASEPRLDAY | ASNPR2HR | NFLPMEX |
| AMPRCDAY | ASNPR1CDAY | ASNPR2LDAY | RINGEXLPM |
| AMPRHR | ASNPR1HR | DS1SR24HR | |
| AMPRLDAY | ASNPR1LDAY | NFDISK | |
| ASEPRCDAY | ASNPR215 | NFDISKEX | |
| ASEPRHR | ASNPR2CDAY | NFLPM | |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:SNAT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This message requests the current view of the Common Channel Signaling (CCS) network time.

The destination number to output device Signal Transfer Point (STP) cross reference can be found by using the `OP:OUTCLS` input message.

## 2. FORMAT

**`OP:SNAT`**`[;`**`DEST`** `a]!`

## 3. EXPLANATION OF MESSAGE

`a` Destination class (`0-255`).

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 234-100-121, (non-AT&T) - *CNI Operations Manual*,
Practice 234-100-121AC, (AT&T only)- *CNI Operations Manual*,
Measurements, Reports, and Critical Events Section

Input Message
`OP:OUTCLS`

Output Message
`OP:SNAT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:ST-DISKUSE
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests the number of blocks contained in all files and directories within each specified directory or filename. This process is repeated for all directories that descend from the specified directories. The block count includes the indirect blocks of the file.

**NOTE:** The default for **`TOTAL`** and **`EACH`** is to generate an entry for each directory only. One of these variables must be used when a file is specified as **`FN`**.

## 2. FORMAT

```
OP:STATUS:DISKUSE,FN "a",{TOTAL|EACH}[,OPL b]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file. See the *User Guidelines* in this document for definitions of pathname, directory, and file. |
| **`TOTAL`** | Print the total number of blocks in the directory or file. |
| **`EACH`** | Print an entry for each file. |
| `b` | Number of segments to be output (specified in decimal). Default is `10` segments. Each segment has a maximum size of 1000 bytes or 20 lines. This option is not needed when **`TOTAL`** is used. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:ST-DISKUSE` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`OP:ST-LSTDIR`
`OP:ST-SUM`

Output Messages
`OP:ST-DISKUSE`
`OP:ST-LSTDIR`
`OP:ST-SUM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ST-FILESYS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests information about all of the mounted file systems.

## 2. FORMAT

**`OP:STATUS:FILESYS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:ST-FILESYS` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`ALW:F-MOUNT`
`INH:F-UMOUNT`

Output Message
`OP:ST-FILESYS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ST-FRDISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the number of free blocks and free inodes available for on-line file systems. If the file system is unspecified, the free space on all the mounted file systems is listed.

## 2. FORMAT

**`OP:STATUS:FREEDISK`**`[,FN "a"]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Full pathname of the file system. See *User Guidelines* in this document for definitions of pathname and file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:ST-FRDISK` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`ALW:F-MOUNT`
`OP:ST-FILESYS`

Output Messages
`OP:ST-FILESYS`
`OP:ST-FRDISK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:ST-LSTDIR
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests the contents of a specific directory or file.

## 2. FORMAT

**`OP:STATUS:LISTDIR,FN`** `"a"[,OPL b]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the directory or file. See *User Guidelines* in this document for definitions of pathname, directory and file. |
| `b` | Number of segments to be output, specified in decimal. Default is `10` segments; maximum is `999`. Each segment has a maximum size of 1000 bytes or 20 lines. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:ST-LSTDIR` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Message
`ALW:F-ACCESS`

Output Message
`OP:ST-LSTDIR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ST-NSC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Prints the status list of all equipped Network Services Complexes (**`NSC`**s).

## 2. FORMAT

**`OP:STATUS:NSC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by `OP:ST-NSC` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Message
`OP:ST-NSC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ST-PORTS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of each connected computer message port.

## 2. FORMAT

**`OP:STATUS:PORTS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:ST-PORTS` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Output Message
`OP:ST-PORTS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ST-PROC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of active processes by specific class.

## 2. FORMAT

**`OP:STATUS:PROCESS,{ALLTERMS|ALLKERNS|ALL|PATH}[,OPL a]!`**

## 3. EXPLANATION OF MESSAGE

**`ALLTERMS`** Report detailed operational status of all processes associated with terminals. Pathname lengths are consistent with the PS(2G) command using the `-l` option.

**`ALLKERNS`** Report detailed operational status of all kernel processes. Also prints the parent pid.

**`ALL`** Same as **`ALLTERMS`**, plus process group leaders; that is, all non-kernel level processes. Pathname lengths are consistent with the PS(2G) command using the `-l` option.

**`PATH`** Report full pathnames and invoking process arguments with process identifiers and possible terminal suffixes of all non-kernel level processes. Also prints the parent pid.

`a` Number of segments to be output, specified in decimal. Default is `10` segments; maximum is `999`. Each segment has a maximum size of 1000 bytes or approximately 12 lines.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:ST-PROC` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`STOP:E-ANY`
`STOP:E-USER`

Output Message
`OP:ST-PROC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:ST-SUM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests a 16-bit checksum for a specified file, and prints the number of blocks in the file. This message is typically used to look for bad spots on a disk or to confirm that a file sent via a transmission line has been completely received.

## 2. FORMAT

**`OP:STATUS:SUM,FN`** `"a"[,`**`ALT`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file. See *User Guidelines* in this document for definitions of pathname and file. |
| **`ALT`** | Use the alternate check sum algorithm. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:ST-SUM` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Practice 254-341-100 *File System Software Subsystem Description 3B20D/3B21D Computer*

Input Messages
`OP:ST-DISKUSE`
`OP:ST-LSTDIR`

Output Messages
`OP:ST-DISKUSE`
`OP:ST-LSTDIR`
`OP:ST-SUM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:STBY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all standby computer hardware units. This format provides a list of all standby units of a particular type.

## 2. FORMAT

**OP:STBY**[:{a[ b][,c d]}]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name. Unit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| c | Subunit name. If unit name is Control unit (CU) subunit names are listed in the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| d | Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. |
| PF | Printout Follows. Followed by the OP:STBY output message. |
| RL | Retry Later. |

## 5. REFERENCES

Input Appendixes
APP:MEM-NUM-C
APP:MEM-NUM-D

Input Message
OP:CFGSTAT

Output Messages
OP:CFGSTAT
OP:STBY

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:T1M
WORK CENTER.. MOC
GENERIC ..... 4AP15 Rel. 2 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

This command is used to collect/display T1 status and performance measurements data of the Universal Link Nodes (ULNs) and Network Channel Office Equipment (NCOE).

Two variable fields definitions in the `OP:T1M` output message are especially useful for checking T1 test signals: the 8-Bit Current Status Of The T1 Device1, variable-field definition; and the Extra Data Sent From the Near-End ULN Only, T1-Specific, variable-field definition. They are printed out in conjunction with the `OP:T1M:RAW` input command when the `NEULN` and `RAW` options are specified.

## 2. FORMAT

[1] **OP:T1M,ST,LN**a b**;NEULN[:RAW]!**

[2] **OP:T1M,ST,LN**a b;{**NEULN**|**FEULN**|c}**!**

[3] **OP:T1M,ST,LN**a b;c [**E**|**F**]**!**

[4] **OP:T1M,PD,LN**a b**;NEULN[;T1HR**|**;T24HR][:RAW]!**

[5] **OP:T1M,PD,LN**a b**;NEULN[;START** d**,CURR][:RAW]!**

[6] **OP:T1M,PD,LN**a b**;NEULN[;START** d**,END** e**][:RAW]!**

[7] **OP:T1M,PD,LN**a b**;FEULN[;T1HR**|**;T24HR]!**

[8] **OP:T1M,PD,LN**a b**;FEULN[;START** d**,CURR]!**

[9] **OP:T1M,PD,LN**a b**;FEULN[;START** d**,END** e**]!**

[10] **OP:T1M,PD,LN**a b;c [**E**|**F**][**;T1HR**|**;T24HR**]**!**

[11] **OP:T1M,PD,LN**a b;c [**E**|**F**][**;START** d**,CURR**]**!**

[12] **OP:T1M,PD,LN**a b;c [**E**|**F**][**;START** d**,END** e**]!**

## 3. EXPLANATION OF MESSAGE

**ST** Status. This status is represented in the TABS response message in the Technical Reference 54016 (TR54016) document. When requested, no time interval entry is valid.

a The group number of the link node (`00-63`).

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| b | The member number of the link node (1–15). |
| **NEULN** | Near end ULN T1 termination is the target facility. |
| **RAW** | Reports further T1 status information for NEULNs only. Valid for status and performance data when NEULN is specified as the target. |
| **FEULN** | Far end ULN T1 termination is the target facility. |
| c | Characters C through X are the ASCII addresses of the NCOE, the target facility. |
| **E** | Selects equipment side T1 termination. Valid when an NCOE is targeted. The equipment side is the default when an NCOE is selected and the side is omitted. |
| **F** | Selects facility side T1 termination. Valid when an NCOE is targeted. |
| **PD** | Performance data. This includes the status, plus the performance-measurements data. When PD is requested, and the start and end intervals are omitted, the current time interval is reported on. |
| **T1HR** | Display the status of the performance data for the one hour period (four intervals) before the current interval, as well as, the current interval. When T1HR is specified, the end interval is not specified. T1HR is not valid on status request. |
| **T24HR** | Display the status of the performance data for the 24-hour period (96 intervals) before the current interval, and the current interval. When T24HR is specified, the end interval is not specified. T24HR is not valid on status request.<br><br>**NOTE:** Requesting 96 intervals could be resource intensive. |
| **START** | Display the status interval, starting at the interval specified by the start time interval variable. Specifying the start time interval variable is valid only with the **START** keyword. When the start interval is specified, the end interval must be specified. Start time is not valid on status request. |
| d | Start time interval. Historical 24-hour-clock time intervals (0000–2345) for 96 15-minute intervals of performance data measurements. The variable interval specification is valid only with the **START** keyword. The format and value for the 24-hour clock are hhmm, where the range for hh is 00 to 23, and the legal values for mm are 00, 15, 30 or 45. Start time is always the oldest historical time interval. Start time is not valid on status request. When start and end time intervals are omitted, the current interval is reported. |
| **CURR** | Display the status intervals, ending at the current interval. Specifying the end time variable is not valid with the **CURR** keyword. When **CURR** is specified, the start interval must also be specified. |

SEE PROPRIETARY NOTICE ON COVER PAGE

**END** Display the status intervals, ending at the interval specified by the end time variable. Specifying the end time variable is valid only with the **END** keyword. When the end interval is specified, the start interval must also be specified.

e End time interval. Historical 24-hour clock-time intervals (0000–2345) for 96 15-minute intervals of performance data measurements. The format and value for the 24-hour clock is hhmm, where the range for hh is 00 through 23, and the legal values for mm are 00, 15, 30, or 45. End time is always the latest/current historical time interval. End time is not valid on status requests. When start and end time intervals are omitted, the current interval is reported.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |
| ?I | Identification field contains an error. |
| IP | In Progress. |

## 5. REFERENCES

Practice 256-090-182, *CNI Maintenance Manual*, T1 Maintenance Procedures Section

Input Messages

```
ATR:T1M
CLR:T1M
EXC:T1M
SET:T1M
```

Output Messages

```
ATR:T1M
CLR:T1M
EXC:T1M
OP:T1M
SET:T1M
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TPC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests Translation Point Codes (TPCs) for the specified Translation Type (TT) to be displayed.

## 2. FORMAT

**`OP:TPC;TYPE`** `{a|`**`ALL`**`}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | A specific translation type (`0-254`). |
| **`ALL`** | TPCs are listed for all equipped translation types. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The translation point codes for the requested translation types are displayed to the maintenance class and/or the standard output. |

## 5. REFERENCES

Practice 256-090-177 *CNI Feature Description Manual* - SRVT Section

Input Messages
`CHG:SRVT`
`EXC:SRVT`

Output Messages
`CHG:SRVT`
`EXC:SRVT`
`OP:TPC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TRACE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

This command is used to generate a printout of the status of tracing and the settings of the trace detail flags for the various subsystems.

The **TRACE** craft process **OP:TRACE** joins the terminate class associated with **TRACE** process `tdcp.p`. This means that the craft process will be aborted whenever `tdcp.p` is aborted by its owner which may be either IMS or an application.

The **DETD** keyword requests that all the subsystems and detail flags be printed. If the **DETD** keyword is absent, then only the subsystems with non zero detail flags will be printed.

## 2. FORMAT

**OP:TRACE[;DETD]!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
- ALW:TRACE
- INH:TRACE
- SET:TRACE

Output Messages
- ALW:TRACE
- INH:TRACE
- OP:TRACE
- REPT:TRACE
- SET:TRACE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:TRAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This command obtains status information regarding active, pending, terminated, aborted, inhibited or completed traps.

Format 1 prints short format status information for up to the last 32 traps to the default destination (i.e., destination specified by the maintenance output class).

Format 2 prints long format status information and trap results, if any. Results for the given trap ID will be printed to the default destination.

Format 3's Real Time Display parameter allows for trapped messages to be printed in real time to the specified output class. Real time display will be set to the given value for the given trap ID. The default value will be what was specified in the `SET:TRAP` command for this field.

Format 4's Long Form parameter allows for more detailed status information to be printed for the trapped messages. Information will be given regarding the trap parameters and associated values that were given in the `SET:TRAP` command. Status information will be displayed in either long or short format as specified in the **`LFORM`** parameter. The destination will be the default value.

Format 5 prints long format status information and trap results, if any. Results will be printed for the given trap ID to the destination defined by **`DEST`**.

Format 6 sends status to the destination defined by **`DEST`**. Short format status information will be printed for up to the last 32 traps entered in the system.

Format 7 sends status to the destination defined by **`DEST`**. Status information will be printed for up to the last 32 traps entered in the system in either long or short format as specified in the **`LFORM`** parameter.

Format 8 sends status to the default destination. Status information will be printed for up to the last 32 traps entered in the system in either long or short format as specified in the **`LFORM`** parameter.

## 2. FORMAT

[1] **`OP:TRAP!`**

[2] **`OP:TRAP;ID`** `a!`

[3] **`OP:TRAP;ID`** `a`**`,RTDSP {Y|N}!`**

SEE PROPRIETARY NOTICE ON COVER PAGE

[4] **OP:TRAP;ID** a,**LFORM {Y|N}!**

[5] **OP:TRAP;ID** a,**DEST** b**!**

[6] **OP:TRAP;DEST** b**!**

[7] **OP:TRAP;DEST** b,**LFORM {Y|N}!**

[8] **OP:TRAP;LFORM {Y|N}!**

## 3. EXPLANATION OF MESSAGE

a — Trap identification number.

**RTDSP** — Real Time Display.

b — This specifies the destination (output class) where the results of this command should be printed. The default output class will be the class specified in the SET:TRAP command for this trap ID.

**NOTE:** General descriptions for each keyword are given. However, they may be treated differently depending on the command format. The individual formats are listed after this general description.

**LFORM** — Long Form.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Message
SET:TRAP

Output Message
OP:TRAP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... OP:TSC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

This tool provides a means of examining Temporary Signaling Connection (**TSC**) data.

**TSC** is maintained in the link nodes (D-channel nodes). Each link node can support signaling connections for up to eight D-channel links. Each D-channel may be owned by a different subsystem number, or it is possible for the same subsystem to own all eight links. In order to examine **TSC** data, a particular link node must be specified.

Format 1 provides a node summary of signaling connections for a particular link node.

Format 2 provides data for a particular D-channel link. To identify all signaling connections for a specific link, the Logical Access ID (**LACID**) is needed.

## 2. FORMAT

[1] **OP:TSC;NODE;GM(**a,b**)[:DEST** c**]!**

[2] **OP:TSC;DCHN;LACID** d**[:DEST** c**]!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63) of link node. |
| b | Member number (1–15) of link node. |
| c | Destination class (0–255). As an option to each input message, the output may be directed to a specified output class. The 'destination number to output device' cross reference can be found in Output APP:APPENDIX–09, or by use of the OP:OUTCLS input message. If a destination is not specified, the output is directed to the requester as well as to the Maintenance Read Only Printer (MROP) and to Switching Control Center System (SCCS). |
| d | Logical Access ID (**LACID**). Low range: 1–255. High range: 1024–1279. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. |
| PF | Printout Follows. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Appendix
`APP:APPENDIX-09`

Input Message
`OP:OUTCLS`

Output Message
`OP:TSC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ULARP-COM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of run commands.

## 2. FORMAT

**`OP:ULARP:COMMAND`** `{`**`ALL`**`|a}`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Name of Equipment Configuration Database (ECD) record for run command. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by the `OP:ULARP-COM` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`INIT:ULARP`
`OP:ULARP-EXEC`
`OP:ULARP-PROC`

Output Messages
`OP:ULARP-COM`
`REPT:ULARP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ULARP-EXEC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a listing of the execution sequence of child processes and run commands during a bootstrap or user initialization procedure.

## 2. FORMAT

**`OP:ULARP:EXECSEQ {BOOT|CFTINIT}!`**

## 3. EXPLANATION OF MESSAGE

**`BOOT`** Bootstrap procedure.

**`CFTINIT`** Craft initialization procedure.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:ULARP-EXEC` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`INIT:ULARP`
`OP:ULARP-COM`
`OP:ULARP-PROC`

Output Messages
`OP:ULARP-EXEC`
`REPT:ULARP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:ULARP-PROC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the status of UNIX® Level Automatic Restart Process (ULARP) child processes.

## 2. FORMAT

**`OP:ULARP:PROCESS {ALL`**`|a}!`

## 3. EXPLANATION OF MESSAGE

`a` Name of Equipment Configuration Database (ECD) record for ULARP child process.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `OP:ULARP-PROC` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`INIT:ULARP`
`OP:ULARP-COM`
`OP:ULARP-EXEC`

Output Messages
`OP:ULARP-PROC`
`REPT:ULARP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UMEM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Causes the contents of the Generic Access Package (GRASP) trace to be dumped to a file. The trace goes into the DUMPED state with the successful completion of the command. The output is formatted depending upon the type of trace specified with the `INIT:UMEM` input message.

## 2. FORMAT

**`OP:UMEM`**`[`**`;UCL`**`][`**`;MCH`**`]`**`!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** Unconditionally dump trace memory.

**`MCH`** Dump trace memory of inactive Control Unit (CU) via the Maintenance Channel (**`MCH`**). This option should only be used in extreme cases in which the sanity of the off-line CU is in question and it is not desirable to perform a switch to that CU.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`.
Command not allowed in a `WHEN` action list.

`?I` Identification field contains an error. General syntax error.

`NG` No Good. No trace is defined.

`PF` Printout Follows. Followed by the `OP:UMEM` output message.

`RL` Retry Later. Or wait for previous `OP:UMEM` to complete. The system is in an overload condition.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`DUMP:F-ALL`
`DUMP:F-PARTL`
`INIT:UMEM`
`OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`OP:UMEM`
`OP:UTIL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UNAV
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all currently unavailable hardware units. An optional format provides a list of all unavailable units of a particular type.

## 2. FORMAT

**`OP:UNAV`**`[:a[ b][,c d]]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit name. Unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `b` | Unit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `c` | Subunit name. If unit name is Control unit (CU) subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |
| `d` | Subunit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:UNAV` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Message
`OP:CFGSTAT`

Output Messages
`OP:CFGSTAT`
`OP:UNAV`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UNEQIP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a list of all currently unequipped hardware units. An optional format provides a list of all unequipped units of a particular type.

## 2. FORMAT

**`OP:UNEQIP`**`[:{a[ b][,c d]}]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Unit name. Unit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `b` | Unit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-C`. |
| `c` | Subunit name. If unit name is Control Unit (CU) subunit names are listed in the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |
| `d` | Subunit number. See the Input Member Numbers Appendix, `APP:MEM-NUM-D`. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. |
| `PF` | Printout Follows. Followed by the `OP:UNEQIP` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Message
`OP:CFGSTAT`

Output Messages
`OP:CFGSTAT`
`OP:UNEQIP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UPD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Generates a printout of the status for the last `UPD:DCHN` input message request. Used by user technician to get the status of the updating of the software of D-channel node(s).

## 2. FORMAT

**`OP:UPD;DCHN!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `IP` | In Progress. Followed by the `OP:UPD` output message. |
| `RL` | Retry Later. Request cannot be executed now due to unavailable system resources. |

## 5. REFERENCES

Input Messages
`STOP:UPD`
`UPD:DCHN`

Output Messages
`OP:UPD`
`REPT:UPD-DCHN`
`STOP:UPD`
`UPD:DCHN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:UTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests lists of currently defined Generic Access Package (GRASP) breakpoints, their status, and trace status.

## 2. FORMAT

**`OP:UTIL!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

— `INVALID KEYWORD`.
Message not allowed in a `WHEN` action list.

`PF` Printout Follows. Followed by the `OP:UTIL` output message.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages
`INIT:UMEM`
`OP:ST-PROC`
`OP:UMEM`
`WHEN:PID`
`WHEN:UID`

Output Messages
`OP:UTIL`
`WHEN:PID`
`WHEN:UID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:VERSION
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the generic text version and software update level by file system partition. This information can be used to identify the generic text version and software update level of the partitions should they become detached from the Equipment Configuration Database (ECD).

## 2. FORMAT

**`OP:VERSION[,ALL]!`**

## 3. EXPLANATION OF MESSAGE

**`ALL`** List of all of the history of changes to the generic text version and software update level since the last generic retrofit. If ALL is not specified, only the latest (current) generic version and software update level, by partition, is listed.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. One or more `OP:VERSION` output messages will follow.

## 5. REFERENCES

Input Message
`UPD:VERSION`

Output Messages
`OP:VERSION`
`UPD:VERSION`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . OP:VTOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Converts a virtual address on the 3B to the actual physical address in 3B memory.

Examples:

`OP:VTOP:PID 9,ADDR X'1A0000!` converts virtual address 1a0000 hex for process with process ID 9.

`OP:VTOP:UID X'C0,ADDR X'5A0!` converts virtual address 5a0 hex for process with utility ID c0 hex.

## 2. FORMAT

**`OP:VTOP:{KERN|PID a|UID b},ADDR c!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`KERN`** | Indicates need for virtual address conversion from the kernel's memory space. |
| `a` | Process ID number. |
| `b` | Utility ID number. |
| `c` | Virtual address to convert. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Printout of either correct physical address or error message if could not convert. |

## 5. REFERENCES

Output Message
`OP:VTOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... ORD:SCSD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that one of four distribution operations be performed on a Scanner and Signal Distributor (**SCSD**) distribute point. The operations are: set, clear, flash for eight seconds, and flash continuously. Distribute points can be identified by physical location or by logical address.

## 2. FORMAT

[1] **ORD:SCSD;UNIT** a:**PT** {b|(b,b[,b,b,b,b,b,b...])},**OPR** c!

[2] **ORD:SCSD;GRPN** "d",**DUPID** e:**PT** {f|(f,f[f,f,f,f])},**OPR** c!

## 3. EXPLANATION OF MESSAGE

a — Member number of the **SCSD** unit (0–16).

b — Physical distribute point number on an **SCSD** (0–31).

c — Operation to be done on the distribute point:

- OPERATE — Set.
- RELEASE — Clear.
- REPEAT — Flash continuously.
- STEP — Flash for eight seconds, which terminates in the cleared state.

d — Name of the logical **SCSD** group. Examples are: ACPALARM, FANACU0, FANACU1, PRSWCU0, PRSWCU1, PRSWDFC0, PRSWDFC1, PRSWIOP0, PRSWIOP1, PRSWMHD0, PRSWMHD1.

e — Duplex point ID (0–1).

f — Number of a point within a logical group (0–5).

## 4. SYSTEM RESPONSE

NG — No Good. **SCSD** administrator process is not active; no communication with **SCSD** points is possible.

PF — Printout Follows. Followed by an ORD:SCSD output message.

RL — Retry Later.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Practice 254-301-110 *Input-Output Processor Peripheral Controllers Description and Theory of Operation Lucent Technologies 3B20D/3B21D Model 1 Computer*

Output Messages

```
ORD:SCSD
RCVRY:SCSDC
REPT:SCSD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . PUMP:ATP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message triggers a pump of the AT&T Trigger Platform (**ATP**) database to one or both ATP nodes from the master copy located on 3B disk.

The status of the pump request will be reported for each **ATP** node. If the pump was successful the elapsed time is printed. If the pump failed the type of failure is reported.

## 2. FORMAT

[1] **PUMP:ATP,ALL!**

[2] **PUMP:ATP,LN**a b!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | **ATP** node group number(00-63) |
| b | **ATP** node member number(0-15) |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Pump request initiated. Status output message follows. |
| RL | Retry Later. The requested nodes cannot be pumped at this time. |

## 5. REFERENCES

Output Message
PUMP:ATP

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . RC:GTT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Using the ALL option in the field may cause severe overload on the UGT NCP and loss of calls. Seek technical assistance before using this option.**

## 1. PURPOSE

Starts a process to delete entries in the 10 Digit Global Title Translations database residing in the DLN ONLY (CACHE). This message will not be accepted if another craft message affecting the contents of 10 Digit GTT is in progress.

DEPENDENCIES AND RESTRICTIONS

The following reflects rules for 10D GTT recent change messages.

1. In order for a delete message for an ANI to work, the LLLL lower end of the range must match what is in the database, however, the higher end (HHHH) does not have to match. If the HHHH does not match, then all the ranges of the data within NPANXXLLLL and NPANXXHHHH will be deleted.
2. If a delete message with ANI is sent to the switch with NPANXXLLLL and no HHHH value, then the switch will delete the entire range that starts with NPANXXLLLL.
3. If a delete message with ANI is sent to the switch with NPANXX , then all the ranges for that NPANXX will be deleted
4. Delete messages with `ALL` option should be restricted to the ENAC and the TCC/NESAC. Using this option on multiple switches at the same time can cause loss of service if the UGTT NCP cannot handle the signaling load. The NPT field is not needed with this parameter.

## 2. FORMAT

```
RC:GTT:TT a,ORNU b,c,NUM {d|e|f|ALL},g!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Translation Type; valid option only 252 |
| b | Recent change order number |
| c | Database operation:<br>D — Delete |
| d | A 14-digit number in the form of NPANXXLLLLHHHH where LLLL is the lower end of the range and HHHH is the higher end of the range. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `e` | A 10-digit number in the form of NPANXXLLLL where LLLL is the lower end of the range. |
| `f` | A 6-digit number in the form of NPANXX, delete all the ranges in the NPANXX. |
| **`ALL`** | Delete the entire database. |
| `g` | Numbering plan type: |
| | `A` Action point numbering (APN). |
| | `N` North American numbering plan (NANP). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Output Message
`RC:GTT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RC:MISC-FHT-FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Starts a session to add, delete, or change data in the 10-Digit Global Title Translations database residing in the DLN with the data given in this input message. This message will not be accepted if another message affecting the contents of 10-Digit GTT is in progress.

Format 1 describes the way in which data can be represented in the input message for the add and delete options.

Format 2 describes the way in which data can be represented in the input message for the change option.

DEPENDENCIES AND RESTRICTIONS

The following reflects rules for 10D GTT recent change messages.

FOR TT = 253 * RCREL=1: Primary Key = GT Record Key
Update GT Record Key and NCP info.

- Customer ID is not applicable.
- Old NCP info must exist on change.
- New NCP info may or may not exist on change and add.
- NCP info must exist on delete.
- Record Key must not exist on add.
- Record Key must exist on delete and change.
- Old and new NCP must be different on change.
- Cannot split ranges on a change.

FOR TT = 242 * RCREL=1: Primary Key = GT Record Key
Update GT Record Key and NCP info.

- Customer ID is not applicable.
- Old NCP info must exist on change.
- New NCP info may or may not exist on change and add.
- NCP info must exist on delete.
- Record Key must not exist on add.
- Record Key must exist on delete and change.
- Old and new NCP must be different on change.
- GT Record Key must be a three digit number.
- No ranges are supported.

## 2. FORMAT

[1] **RC:MISC;FHT,FTA:**a,b,{**A**|**D**},c,**NUM (**d,**0**,eeeffffffffff,
ggghhhhhhhhh,{i}**)!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[2] **RC:MISC;FHT,FTA:**a,b,**C**,c,**NUM (**d,**0,0**,jjjkkkkkkkk,
lllmmmmmmmmm,jjjnnnnnnnnn,lllooooooooo,{i}**)!**

## 3. EXPLANATION OF MESSAGE

a — Translation capability and type:

GTT10D242 — When inputting PCP Service NANP ANIs

GTT10D242APN — When inputting PCP Service APN ANIs

GTT10D252 — Replaced by SPGT feature

GTT10D252APN — Replaced by SPGT feature

GTT10D253 — When inputting 800 or 900 Service NANP ANIs

b — Recent change order number.

This is used to distinguish between RC taking place in the span of one day. It would be wise to use unique numbers for each RC entry.

Restricted to nine characters. The first four characters must be alphanumeric, identifying the entity submitting the recent change. A list of mnemonics will be supplied for this four-character identifier later. The recent change convention for order number is:
submitting organization | order#

c — Recent change processing flag:

L — List of reckeys.

d — Relation used for recent change:

1 — RC GT Record Key & NCP Subsystem. Independent of all others and must be used only with GTT10D242, GTT10D242APN, or GTT10D253.
2 — Replaced by SPGT feature
3 — Replaced by SPGT feature
4 — Replaced by SPGT feature

eee — Primary Subsystem Number. (000–007,232–255)

fffffffff — Primary Point Code. (254000000 - 254317255)

ggg — Secondary Subsystem Number. (000–007,232–255)

hhhhhhhhh — Secondary Point Code. (254000000 - 254317255)

i — GT Record Key (npanxxxxxx). Default GT Record Key (npa). A maximum of 2 entries may be entered per message. For relation #3 this entry must be zero, and only one value is allowed for input (which is the zero). The Default GT Key entry is only used for GTT10D252 when one needs to create a translation for NPAs without actually storing line numbers.

jjj — New Primary/Secondary Subsystem Number. (000–007,232–255)

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| kkkkkkkkk | New Primary Point Code. (254000000 - 254317255) |
| lll | Old Primary/Secondary Subsystem Number. (000–007,232–255) |
| mmmmmmmmm | Old Primary Point Code. (254000000 - 254317255) |
| nnnnnnnnn | New Secondary Point Code. (254000000 - 254317255) |
| oooooooo | Old Secondary Point Code. (254000000 - 254317255) |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. See output message RC:MISC–FHT–FTA for details. |

## 5. REFERENCES

Output Message
RC:MISC–FHT–FTA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RC:PCP-CHG
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Performs a recent change (add, modify, or delete record) to the PCP EPAV data table in the 4ESS™ Switch APPDB database on the Application Processor.

1. For Adds, if the customer's EPAV record already exists, the EPAV list specified will be merged into the customer's existing EPAV list, with collisions silently ignored.
2. For Adds, if the customer's EPAV record does not exist, it will be added with an initial EPAV list set to the EPAV list in the recent change command.
3. For Deletes, if the customer's EPAV record already exists, the EPAV list specified will be removed from the customer's existing EPAV list. EPAVs that are not in the existing list are silently ignored.
4. An **ACTION** of f5D with a null PAV list will delete all PAVs for the specified ANI (Line ID) and will also delete the ANI key.

## 2. FORMAT

```
RC:PCP;CHG;OPT(SAB),ACT:CANIa,TOA b,TSVC c,NUMPL d,ORNU e,ACTION f,
      [PAV(g,g,g ...g)]!
```

## 3. EXPLANATION OF MESSAGE

a — The 10-digit ANI of the customer whose EPAV data is being recent changed.

b — The customer's type of access:

- SA — Switched access
- DC — Direct connect

c — The customer's type of service:

- LDS — Long distance service
- OMEG — MEGACOM®/WATS
- SDN — Software defined network

d — The customer's numbering plan type:

- NANP — North American numbering plan
- APN — Action Point numbering plan

e — The order number for this transaction. Valid options are any numeric string from 0 to 999999, with leading zeroes allowed.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` The action of the recent change to take:

- `A` — For "Add customer" or "Add EPAVs to existing customer's EPAV list".
- `D` — For "Delete customer" or "Delete EPAVs from existing customer's EPAV list".

`g` One of a list of the EPAV values that are to be used in recent changing (add, delete, or modify) the customer's EPAV record. The EPAV value can be any digit string from one to eight characters long. Each EPAV value in the list must have the same length (leading zeroes must be entered, if necessary, to make all EPAVs have same length). The EPAV list may not exceed 20 EPAV values. The EPAV list is optional only if the recent change action is delete

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Message
`VER:PCP`

Output Message
`VER:PCP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCV:DMTE-RC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Invokes the text Recent Change and Verify (RC/V) activity; this format is used to insert, update, or delete records in the Equipment Configuration Database (ECD) via serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions:

Interactive feedback is on a line basis, not on data fields, etc. Errors will be flagged after a message line.

All key fields must be entered (no defaults) before any data fields.

Assigned default values are not viewable without a secondary operation (see `RCV:DMTECD;VFY`).

Review/change-insert mode is not supported.

A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character ("/") must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself.

A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this area. The parameter area follows the invocation and ends with the next **`END`** or **`FORM`** keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message.

**NOTE:** Fatal errors are written to `/etc/dmtecd.err`.

## 2. FORMAT

```
RCV:DMTECD;RC:{DB|DBF}"a"[,MASKS "b"][,JOURNAL|,NJOURNAL]
      [,SYSGEN|,NSYSGEN][,FORM("c",d),{e|e "f"|g("e","f")|g},d]
      [,END]{/|!}
```

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

**DB** The ECD to be processed is not in loadfile format.

**DBF** The ECD to be processed is in loadfile format.

a Name of the database to be processed. Or the pathname of a database file. See *User Guidelines* in this document for definitions of pathname and file.

`broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).

`brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).

`incore` — In-core copy.

`root` — Root copy of full-configuration database.

`rootdmly` — Root copy of minimum-configuration database.

b Pathname of the directory containing the mask description files. See *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/ecdmasks`.

**JOURNAL** Print all forms from insert, delete, and updates requests to `/etc/rcvecd.journal`. (Default)

**NJOURNAL** Do not print forms from insert, delete, or updates requests to `etc/rcvecd.journal`.

**SYSGEN** Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.

**NSYSGEN** Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block. Default.

c Formtype name of form to be recent changed. Valid names are listed in the *Recent Change and Verify User's Guide*.

d This argument is shown twice in the format. The first instance is used to indicate the desired operation to be performed on the associated form-type. The second instance is used to indicate the actual execution of the desired operation once all data has been entered for the form. The legal operation types are:

`CHG` — The form is to be updated in the database.

`NEW` — The form is to be inserted into the database.

`OUT` — The form is to be deleted from the database.

`XEQ` — The form is to be executed. This is the default operation type, but is only valid on executable formtypes.

e Form field name.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Form field data.

**NOTE:** Form field names and data can be found in the *Recent Change and Verify User's Guide*.

`g` Text RC/V recognizes the following keywords:

- `ABORTFORM` — Aborts a particular form operation.
- `END` — Checks termination status. (Not recognized within a form operation.)
- `FORM` — Begins a form operation.
- `MSG` — Reports an error message when an error occurs during form processing.
- `SET` — This keyword must be used if the field name in the keyword-data-pair is part of a structure or list, or contains nonalphanumeric characters.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Text `RC/V` ignores the input line.

`?E` Error exists in the message but cannot be resolved to the proper field. Text `RC/V` ignores the input line.

— `n ERROR MESSAGES LINES`
Enter `'MSG!'` or `'MSG/'` `n` times to view `n` messages.
— `n WARNING MESSAGES LINES`
Enter `'MSG!'` or `'MSG/'` `n` times to view `n` messages.
— `NO MORE ERROR MESSAGES` All errors have been viewed.

`?I` Identification field contains an error. Text `RC/V` ignores the input line.

`OK` Good. Input line successfully processed.

`PF` Printout Follows.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`RCV:DMTE-VFY`
`RCV:DMTS-RC`
`RCV:DMTS-VFY`
`RCV:M-RCVECD`
`RCV:M-RCVSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:DMTE-VFY
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes the text Recent Change and Verify (RC/V) activity; this format is used to review Equipment Configuration Database (ECD) forms via serial text input.

## 2. FORMAT

```
RCV:DMTECD;VFY:{DB|DBF "a"}[,MASKS "b"],FORM "c",{d|d "e"|f("d","e")|f},
      VFY,END!
```

## 3. EXPLANATION OF MESSAGE

**DB** The ECD to be processed is not in loadfile format.

**DBF** The ECD to be processed is in loadfile format.

a Name of the database to be processed. Or the pathname of a database file. See *User Guidelines* in this document for definitions of pathname and file.

- broot — Backup (/broot) full-configuration database (valid only if backup file system is mounted).
- brootdmly — Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
- incore — In-core copy.
- root — Root copy of full-configuration database.
- rootdmly — Root copy of minimum-configuration database.

b Pathname of the directory containing the mask description files. See *User Guidelines* in this document for definition of pathname and directory. Default is /lla/ecdmasks.

c Formtype name of form to be reviewed. Valid names are listed in the *Recent Change and Verify User's Guide*.

d Form field name.

e Form field data.

**NOTE:** Form field names and data can be found in the *Recent Change and Verify User's Guide*.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Text RC/V recognizes the following keywords:

- `ABORTFORM` — Aborts a particular form operation.
- `END` — Checks termination status. (Not recognized within a form operation.)
- `FORM` — Begins a form operation.
- `MSG` — Reports an error message when an error occurs during form processing.
- `SET` — This keyword must be used if the field name in the keyword-data-pair is part of a structure or list, or contains nonalphanumeric characters.

## 4. SYSTEM RESPONSE

`?E` Error exists in the message but cannot be resolved to the proper field.

— `n ERROR MESSAGES LINES`
Enter `'MSG/'` `n` times to view `n` messages.
— `n WARNING MESSAGES LINES`
Enter `'MSG/'` `n` times to view `n` messages.
— `NO MORE ERROR MESSAGES`
All errors have been viewed.

`OK` Good. Input line successfully processed.

`PF` Printout Follows. Followed by `RCV:DMTECD-VFY` output message.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`RCV:DMTE-RC`
`RCV:DMTS-RC`
`RCV:DMTS-VFY`
`RCV:M-RCVECD`
`RCV:M-RCVSG`

Output Message
`RCV:DMTECD-VFY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RCV:DMTS-RC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Invokes the text Recent Change and Verify (RC/V) activity. This format is used to insert, update, or delete records in the System Generation (SG) database via serial text input.

Text RC/V is similar to forms RC/V (trbegin, trend, dbdump, etc.) with the following exceptions:

Interactive feedback is on a line basis, not on data fields, etc. Errors will be flagged after a message line.

All key fields must be entered (no defaults) before any data fields.

Assigned default values are not viewable without a secondary operation (see `RCV:DMTECD;VFY`).

Review/change-insert mode is not supported.

A text RC/V session is a single logical message that can be broken into one or more physical lines between keyword units. When the message is broken into multiple lines, a continuation character (/) must be entered at the end of each line. At the end of continued lines, an acknowledgment is printed, followed by a prompt for more input. Zero or more form operations can be performed per text RC/V session. The session continues until a line is entered without the continuation character. Note, the shell cannot parse an execute character on a line by itself.

A text RC/V session is divided into two processing segments: process parameters and process forms. The parameter processing must be first and must be successfully completed before forms processing is allowed. No parameter processing can be done once forms processing has begun. The valid text parameters are shown in this area. The parameter area follows the invocation and ends with the next `END` or `FORM` keyword. Note that these keywords cannot be entered on the first line of parameter input. The parameters are verified and errors are generated as needed. If errors are associated with a noncontinued line, the errors are output as a spooler message.

**NOTE:** Fatal errors are written to `/etc/dmtsg.err`.

## 2. FORMAT

```
RCV:DMTSG;RC:DB "a"[,MASKS "b"][,JOURNAL|,NJOURNAL]
      [,SYSGEN|,NSYSGEN][,FORM("c",d),{e|e "f"|g("e","f")|g},d]
      [,END]{/|!}
```

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

`a` Name of the System Generation (SG) database to be processed. Or the pathname of a database file. See *User Guidelines* in this document for definitions of pathname and file.

`broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).

`brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).

`incore` — In-core copy.

`root` — Root copy of full-configuration database.

`rootdmly` — Root copy of minimum-configuration database.

`b` Pathname of the directory containing the mask description files. See *User Guidelines* in this document for definition of pathname and directory.
Default is `/lla/sgmasks`.

**`JOURNAL`** Print all forms from insert, delete, and updates requests to /etc/rcvsg.journal. (Default)

**`NJOURNAL`** Do not print forms from insert, delete, or updates requests to `/etc/rcvsg.journal`.

**`SYSGEN`** Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block.

**`NSYSGEN`** Disable the system generation mode operation. Changes are not applied to the database until the end of the transaction check. Default.

`c` Formtype name of form to be recent changed. Valid names are listed in the *Recent Change and Verify User's Guide*.

`d` This argument is shown twice in the format. The first instance is used to indicate the desired operation to be performed on the associated form-type. The second instance is used to indicate the actual execution of the desired operation once all data has been entered for the form. The legal operation types are:

`CHG` — The form is to be updated in the database.

`NEW` — The form is to be inserted into the database.

`OUT` — The form is to be deleted from the database.

`XEQ` — The form is to be executed. This is the default operation type, but is only valid on executable form-types.

`e` Form field name.

SEE PROPRIETARY NOTICE ON COVER PAGE

`f` Form field data.

**NOTE:** Form field names and data can be found in the *Recent Change and Verify User's Guide*.

`g` Text RC/V recognizes the following keywords:

- `ABORTFORM` — Aborts a particular form operation.
- `END` — Checks termination status. (Not recognized within a form operation.)
- `FORM` — Begins a form operation.
- `MSG` — Reports an error message when an error occurs during form processing.
- `SET` — This keyword must be used if the field name in the keyword-data-pair is part of a structure or list, or contains nonalphanumeric characters.

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Shell could not parse input line. Text RC/V ignores the input line.

`?E` Error exists in the message but cannot be resolved to the proper field. Shell could not parse input line. Text RC/V ignores the input line.

— `n ERROR MESSAGES LINES`
Enter `'MSG/'` n times to view n messages.
— `n WARNING MESSAGES LINES`
Enter `'MSG/'` n times to view n messages.
— `NO MORE ERROR MESSAGES`
All errors have been viewed.

`?I` Identification field contains an error. Shell could not parse input line. Text RC/V ignores the input line.

`OK` Good. Input line successfully processed.

`PF` Printout Follows.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`RCV:DMTE-RC`
`RCV:DMTE-VFY`
`RCV:DMTS-VFY`
`RCV:M-RCVECD`
`RCV:M-RCVSG`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:DMTS-VFY
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes the text Recent Change and Verify (RC/V) activity. This format is used to review System Generation (SG) database forms via serial text input.

**NOTE:** Fatal errors are written to `/etc/dmtsg.err`.

## 2. FORMAT

```
RCV:DMTSG;VFY:DB "a"[,MASKS "b"],FORM "c",{d|d "e"|f("d","e")|f},
      VFY,END!
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the SG database to be processed. Or the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

`broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).

`brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).

`root` — Root copy of full-configuration database.

`rootdmly` — Root copy of minimum-configuration database.

`b` Pathname of the directory containing the mask description files. The default is `/lla/sgmasks`.

`c` Formtype name of form to be reviewed. Valid names are listed in the *Recent Change and Verify User's Guide*.

`d` Form field name.

`e` Form field data.

**NOTE:** Form field names and data can be found in the *Recent Change and Verify User's Guide*.

`f` Text RC/V recognizes the following keywords:

`ABORTFORM` — Aborts a particular form operation.

`END` — Checks termination status. (Not recognized within a form operation.)

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `FORM` | — Begins a form operation. |
| `MSG` | — Reports an error message when an error occurs during form processing. |
| `SET` | — This keyword must be used if the field name in the keyword-data-pair is part of a structure or list, or contains nonalphanumeric characters. |

## 4. SYSTEM RESPONSE

`?E` Error exists in the message but cannot be resolved to the proper field.

— `n ERROR MESSAGE LINES`
Enter `'MSG/'` `n` times to view `n` messages.
— `NO MORE ERROR MESSAGES`
All errors have been viewed.
— `n WARNING MESSAGES LINES`
Enter `'MSG/'` `n` times to view `n` messages.

`OK` Good. Input line successfully processed.

`PF` Printout Follows. Followed by the `RCV:DMTSG-VFY` output message.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
- `RCV:DMTE-RC`
- `RCV:DMTE-VFY`
- `RCV:DMTS-RC`
- `RCV:M-RCVECD`
- `RCV:M-RCVSG`

Output Message
- `RCV:DMTSG-VFY`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . RCV:M-BROWSE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this message can cause serious damage to a system database. It should never be used without expert technical assistance.**

## 1. PURPOSE

Reads or patches a central processor database using the "browse" tool. This tool is not supported on the Maintenance Terminal (MCRT) or on a Switching Control Center (SCC) terminal.

**NOTE:** See *User Guidelines* in this document for definitions of pathname and file.

## 2. FORMAT

**`RCV:MENU:BROWSE`**`[,`**`STDIN`** `"a"][,`**`STDOUT`** `"b"][,`**`STDERR`** `"c"]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the file to be used for redirection of standard input. |
| `b` | Pathname of the file to be used for redirection of standard output. |
| `c` | Pathname of the file to be used for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. The requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

— `INTERACTIVE PROCESS ON MTTY REQUIRES REDIRECTION OF STDIN AND STDOUT`

## 5. REFERENCES

Input Messages

```
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-CMPRDB
WORK CENTER.. MOC
GENERIC ..... 4AP18 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Compares the Equipment Configuration Database (ECD) or the System Generation (SG) database. It creates three files for each formtype:

`outdir/keycmp/formtype`

Contains form keys in three columns; keys found only in the ECD; keys found only in the SG; and keys found in both the ECD and SG.

`outdir/keycomm/formtype`

Contains form keys found in both ECD and SG in one column.

`outdir/fdiff/formtype`

Contains a comparison of all forms that are in both ECD and SG.

In each case "`outdir`" and "`formtype`" are replaced by the arguments entered with the keywords **`OUTDIR`** and **`FORM`**, respectively.

**`RCV:MENU;COMPAREDB`** is usually preceded by executing the `RCV:MENU;NEWDB` command to create the data for the **`NEWDIR1`** and **`NEWDIR2`** parameters.

## 2. FORMAT

```
RCV:MENU:COMPAREDB,RCV "a"[,MASKS "b"],DB1 "c",NEWDIR1 "d",
      DB2 "e",NEWDIR2 "f",OUTDIR "g"[,FORM "h"][,STDERR "i"]!
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the Recent Change And Verify (RC/V) program (`rcvecd` or `rcvsg`).

`b` Pathname of the directory containing the mask files used by RC/V. See the *User Guidelines* section in this document for definitions of pathname and directory. Default is `/lla/ecdmasks`, or `/lla/sgmasks`.

`c` Name of the ECD or SG database for DB1. Or the pathname of a database file. See the *User Guidelines* section in this document for definitions of pathname and file.

`broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).

SEE PROPRIETARY NOTICE ON COVER PAGE

`brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).

`incore` — In-core copy.

`root` — Root copy of full-configuration database.

`rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:M-CREATEECD` or `RCV:M-CREATESG` input message may be used here.

`d` Pathname of the directory which contains all the keys for DB1. The data for this parameter may be created by executing the `RCV:MENU;NEWDB` command.

`e` Pathname of ECD or SG database for DB2. Refer to variable `c` for explanation.

`f` Pathname of the directory which contains all the keys for DB2. The data for this parameter may be created by executing the `RCV:MENU;NEWDB` command.

`g` Pathname of the output directory where the comparison will be written. This directory will be created if it does not exist.

`h` Form type(s) to be compared. Up to 20 may be entered. Valid form types are listed in the *Database Form Guide* of the *Recent Change and Verify User's Guide*.

`i` Pathname of the file for redirection of standard error.

## 4. SYSTEM RESPONSE

`OK` Good. Requested action initiated and completed.

`PF` Printout Follows. Followed by the `RCV:MENU` output message.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages

```
RCV:M-BROWSE
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-CREATEECD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Generates a skeleton Equipment Configuration Database (ECD).

**NOTE:** Message errors are written to `/etc/createecd.err`.

## 2. FORMAT

```
RCV:MENU:CREATEECD,DB "a"[,AUDINST b][,APHOPT b][,APHUSER b]
      [,AUDREC b][,BXSLLOC b][,BXSLRMT b][,DEVICE b][,LOGDEV b]
      [,MDCT b][,RUNA b][,TSAPINFO b][,UCB b][,ULARP b]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the database skeleton to be created. See the *User Guidelines* in this document for definitions of pathname and file. |
| b | Estimated number of records to be contained in each specified set. The correct choice of these values can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Requested action initiated and completed. |
| PF | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
- RCV:DMTE-RC
- RCV:DMTS-RC
- RCV:M-BROWSE
- RCV:M-CMPRDB
- RCV:M-CREATESG
- RCV:M-EVOL
- RCV:M-FDIFF
- RCV:M-KEYCMP
- RCV:M-KEYCOMM
- RCV:M-KEYS
- RCV:M-LOADF3B
- RCV:M-NEWDB
- RCV:M-PRINTDB

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-CREATESG
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Generates a skeleton System Generation (SG) database.

**NOTE:** Message errors are written to `/etc/createsg.err`.

## 2. FORMAT

**`RCV:MENU:CREATESG,DB`** `"a"[,`**`PACK`** `b][,`**`PROCESS`** `b][,`**`SHARE`** `b]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the database skeleton to be created. See the *User Guidelines* in this document for definitions of pathname and file. |
| `b` | Estimated number of records to be contained in each specified set. The correct choice of these values can reduce disk fragmentation and decrease processor time by eliminating unnecessary growth of internal access structures. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
- `RCV:DMTE-RC`
- `RCV:DMTS-RC`
- `RCV:M-BROWSE`
- `RCV:M-CMPRDB`
- `RCV:M-CREATEECD`
- `RCV:M-EVOL`
- `RCV:M-FDIFF`
- `RCV:M-KEYCMP`
- `RCV:M-KEYCOMM`
- `RCV:M-KEYS`
- `RCV:M-LOADF3B`
- `RCV:M-NEWDB`
- `RCV:M-PRINTDB`
- `RCV:M-PRINTFRM`

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-EVOL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes a specified recent change activity; this format is used to evolve a new database from an old one. The databases are in dump format.

## 2. FORMAT

```
RCV:MENU:EVOL,OLD "a",DB "b",ORDER "c",NEW "d"!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the old database in dump/load format. This file was previously created by RCVECD or RCVSG upon insertion of the `db_dump` form. See *User Guidelines* in this document for definitions of pathname and file. |
| `b` | Pathname of the translation database. |
| `c` | Pathname of the file containing the specification of the order of evolution; that is, the order in which new form types should appear. |
| `d` | Pathname of the file to contain the evolved database in dump/load format. This file will be used as input to RCVECD or RCVSG upon insertion of the `db_load` form. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-FDIFF
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Compares two form types. It compares the first form from `PFILE1` with the first form from `PFILE2`, and continues this process for each successive form until reaching the end of the file. If any pair of forms should differ, `RCV:MENU:FDIFF` prints the two database names, the form type, the form key(s), and the lines that differ.

## 2. FORMAT

**`RCV:MENU:FDIFF,MASK`** `"a"`**`,PFILE1`** `"b"`**`,PFILE2`** `"c"[`**`,STDOUT`** `"d"][`**`,STDERR`** `"e"]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the mask file associated with the form type. See *User Guidelines* in this document for definitions of pathname and file. |
| `b` | Pathname of the first printfile. (Usually the output of `RCV:MENU:PRINTFRM` command which uses the output of the `RCV:MENU:KEYCOMM` command.) |
| `c` | Pathname of the second printfile. (Usually the output of `RCV:MENU:PRINTFRM` command which uses the output of `RCV:MENU:KEYCOMM` command.) |
| `d` | Pathname of the file for redirection of standard output. |
| `e` | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-KEYCMP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Compares two sorted keyfiles. The comparison consists of three files: keys only in file **KFILE1**, keys only in file **KFILE2**, and keys in file **KFILE1** and file **KFILE2**.

## 2. FORMAT

**RCV:MENU:KEYCMP,KFILE1** "a"**,KFILE2** "b"[**,STDOUT** "c"][**,STDERR** "d"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the first keyfile. See *User Guidelines* in this document for definition of pathname. |
| b | Pathname of the second keyfile. |
| c | Pathname of the file for redirection of standard output. |
| d | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Requested action initiated and completed. |
| PF | Printout Follows. Followed by the RCV:MENU output message. |

## 5. REFERENCES

Input Messages

RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-KEYCOMM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Creates, on the standard output, a list of all keys that are common to two sorted keyfiles. If the output from this input message is directed to a file, the file may be used as input to `RCV:MENU:PRINTFRM` command.

## 2. FORMAT

**`RCV:MENU:KEYCOMM,KFILE1`** `"a"`**`,KFILE2`** `"b"[`**`,STDOUT`** `"c"][`**`,STDERR`** `"d"]`**`!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname of the first keyfile. See *User Guidelines* in this document for definition of pathname. |
| `b` | Pathname of the second keyfile. |
| `c` | Pathname of the file for redirection of standard output. |
| `d` | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-KEYS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Creates a sorted list of form keys for all the instances of a given form type found in the Equipment Configuration Database (ECD) and the System Generation (SG) database.

## 2. FORMAT

**RCV:MENU:KEYS,RCV** "a",[**MASKS** "b",]**DB** "c",**FORM** "d",**KFILE** "e"[,**STDERR** "f"]**!**

## 3. EXPLANATION OF MESSAGE

`a` Name of the Recent Change And Verify (RC/V) program (`rcvecd` or `rcvsg`).

`b` Pathname of the directory containing the mask files used by RC/V. See the *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/ecdmasks` or `/lla/sgmasks`.

`c` Name of the database to be processed. Or the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

- `broot` — Backup (/broot) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` — Backup (/broot) minimum-configuration database (valid only if backup file system is mounted).
- `incore` — In-core copy.
- `root` — Root copy of full-configuration database.
- `rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:M-CREATEECD` or `RCV:M-CREATESG` input message may be used here.

`d` Form type associated with the desired keys. Valid form types are listed in the *Recent Change and Verify User's Guide*.

`e` Pathname of the file name to be used for listing the desired keys.

`f` Pathname of the file for redirection of standard error.

## 4. SYSTEM RESPONSE

`OK` Good. Requested action initiated and completed.

`PF` Printout Follows. Followed by a `RCV:MENU` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-LOADF3B
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes a specified recent change activity. This format is used to create a database in loadfile format from a set of database files.

## 2. FORMAT

**RCV:MENU:LOADF3B,DB**["a",b]**,LF**["c",d[,"e"]][**,STDERR** "f"]**!**

## 3. EXPLANATION OF MESSAGE

`a` Full root pathname of the Equipment Configuration Database (ECD) (for example, `/tmp/dmert.ecd`). This is the file from which the loadfile will be generated. See the *User Guidelines* in this document for definitions of pathname and file.

**NOTE:** Any database name used in the `RCV:M-CREATEECD` input message may be used here.

`b` Page size of the ECD file, specified as the number of bytes, in decimal notation.

`c` Pathname of the loadfile, which contains the load image of the database.

`d` Virtual address where the loadfile is to be loaded, in decimal notation.

`e` Optional argument used to specify the number of bytes (in decimal) to be built into the loadfile for growth. All instances of this argument should be in multiples of the page size of the ECD file. The default for this argument will be the size of any free space within the current segment.

`f` Pathname of the file for redirection of standard error.

## 4. SYSTEM RESPONSE

`OK` Good. Requested action initiated and completed.

`PF` Printout Follows. Followed by a `RCV:MENU` output message.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-NEWDB
WORK CENTER.. MOC
GENERIC ..... 4AP18 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Creates a sorted list of keys for all form types in the Equipment Configuration Database (ECD) or the System Generation (SG) database. A sorted key file for each form type is written in `d/keys/formtype` where `d` is the argument that is entered with the **`OUTDIR`** keyword and `formtype` is the name of the form type. This message creates key lists for all data form types, that is all form types listed by klist of Recent Change And Verify (RC/V).

## 2. FORMAT

**`RCV:MENU:NEWDB,RCV`** `"a",[`**`MASKS`** `"b",]`**`DB`** `"c",`**`OUTDIR`** `"d"[,`**`STDERR`** `"e"]!`

## 3. EXPLANATION OF MESSAGE

`a` Name of the Recent Change And Verify (RC/V) program (`rcvecd` or `rcvsg`).

`b` Pathname of the directory containing the mask files used by RC/V. See the *User Guidelines* section in this document for definitions of pathname and directory. Default is `/lla/ecdmasks` or `/lla/sgmasks`.

`c` Name of the database to be processed. Or the pathname of a database file. See the *User Guidelines* section in this document for definitions of pathname and file.

- `broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).
- `incore` — In-core copy.
- `root` — Root copy of full-configuration database.
- `rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:MENU;CREATEECD` or `RCV:MENU;CREATESG` input command may be used here.

`d` Pathname of the output directory where keylist files will be placed. This directory will be created if it does not exist.

`e` Pathname of the file for redirection of standard error.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Requested action initiated and completed. May be followed by a `RCV:MENU` output message. |

## 5. REFERENCES

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-PRINTDB
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Creates files of form instances when specified data form type(s) from the Equipment Configuration Database (ECD) and the System Generation (SG) database are given. The keyfile for `formtype` is found in `d/keys/formtype`, and the file of the form instances is created in `d/print/formtype`, where `d` is the argument that is entered with the **`OUTDIR`** keyword and `formtype` is a file name corresponding to the type of form to be printed.

## 2. FORMAT

```
RCV:MENU:PRINTDB,RCV "a",[MASKS "b",]DB "c",OUTDIR "d"[,FORM "e"]
      [,STDERR "f"]!
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the Recent Change And Verify (RC/V) program (`rcvecd` or `rcvsg`).

`b` Pathname of the directory containing the mask files used by RC/V. See the *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/ecdmasks` or `/lla/sgmasks`.

`c` Name of the database to be processed. Or may be the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

- `broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).
- `incore` — In-core copy.
- `root` — Root copy of full-configuration database.
- `rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:M-CREATEECD` or `RCV:M-CREATESG` input message may be used here.

`d` Pathname of the output directory.

`e` Form type or types that are to be printed. Up to 20 may be entered. Valid form types are listed in the Recent Change and Verify User's Guide. Default is all data form types listed by klist in RC/V.

`f` File for redirection of standard error.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-PRINTFRM
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Creates a file of all form instances, given a list of form keys, found in the Equipment Configuration Database (ECD) and the System Generation (SG) database.

## 2. FORMAT

**RCV:MENU:PRINTFRM,RCV** "a",[**MASKS** "b",]**DB**"c",**KFILE**"d",**PFILE** "e"[,**STDERR** "f"]**!**

## 3. EXPLANATION OF MESSAGE

`a` Name of the Recent Change And Verify (RC/V) program (`rcvecd` or `rcvsg`).

`b` Pathname of the directory containing the mask files used by RC/V. See the *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/ecdmasks` or `/lla/sgmasks`.

`c` Name of the database to be processed. Or may be the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

- `broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).
- `brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).
- `incore` — In-core copy.
- `root` — Root copy of full-configuration database.
- `rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:MENU-CREATEECD` or `RCV:MENU;CREATESG` input message may be used here.

`d` Pathname of the file that contains the list of form keys.

`e` Pathname of the file to contain printed form instances.

`f` Pathname of the file for redirection of standard error.

## 4. SYSTEM RESPONSE

`OK` Good. Requested action initiated and completed.

`PF` Printout Follows. Followed by the `RCV:MENU` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TRANSGEN
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-RCVECD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Reviews or modifies an Equipment Configuration Database (ECD) through Recent Change (RC). This message is supported from the Maintenance Teletypewriter (MTTY) only if both **STDIN** and **STDOUT** are redirected. This message is not supported over the Switching Control Center (SCC) link.

## 2. FORMAT

```
RCV:MENU:RCVECD,[DB "a"|DBF "a"][,TERM b][,MASKS "c"][,DEFAULTS "d"]
      [,PRINT "e"][,ECHO "f"][,HELP|,NHELP][,REVIEW|,NREVIEW]
      [,JOURNAL|,NJOURNAL][,HLMODE|,NHLMODE][,SYSGEN|,NSYSGEN]
      [,PRCMSG|,NPRCMSG][,STDIN "g"][,STDOUT "h"][,STDERR "i"]!
```

## 3. EXPLANATION OF MESSAGE

**DB** The ECD to be processed is not in loadfile format.

**DBF** The ECD to be processed is in loadfile format.

a Name of the database to process. May be the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

`broot` — Backup (`/broot`) full-configuration database (valid only if backup file system is mounted).

`brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup file system is mounted).

`incore` — In-core copy.

`root` — Root copy of full-configuration database.

`rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:M-CREATEECD` input message may be used here.

b Terminal type on which forms are to be displayed. Valid types are `VT100`, `VT52`, `ADM3A`, `ADM42`, `HP2621`, `GNAT`, and `DUMB`. Default is `VT100`. If `VT100` is selected, the internal terminal setup options must be correctly initialized. Critical values for On-Line Data Integrity (ODIN) system are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then the key. To change the options, use the left cursor key to tab to the desired flag, then use the key to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `c` | Pathname of the directory containing the mask description files. See the *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/ecdmasks`. |
| `d` | Pathname of the directory containing the low level mask default files. See the *User Guidelines* in this document for definitions of pathname and directory. Default is `/lla/defaults`. |
| `e` | Pathname of the file to be used for writing form instances. This option is independent of **`JOURNAL`**. |
| `f` | Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input. |
| **`HELP`** | Enable help messages at the bottom of the screen. Default. |
| **`NHELP`** | Disables help messages. |
| **`REVIEW`** | Allow only review requests (and disallow insert, delete, and update requests). Default. |
| **`NREVIEW`** | Allow insert, delete, and update requests. |
| **`JOURNAL`** | Print all forms from insert, delete, and update requests to `/etc/rcvecd.jrnl[0,1]`. Default. |
| **`NJOURNAL`** | Do not print forms from insert, delete, or update requests to `/etc/rcvecd.jrnl[0,1]`. |
| **`HLMODE`** | Enable high level functionality. |
| **`NHLMODE`** | Disables high level functionality. Default. |
| **`SYSGEN`** | Enable the system generation mode of operation. This should only be used when executing a `dbload` or database evolution because the changes are written into the database as applied rather than at the end of the transaction block. |
| **`NSYSGEN`** | Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block. |
| **`PRCMSG`** | Enable ODIN to print processing messages in the upper right-hand corner of the CRT screen. Default. |
| **`NPRCMSG`** | Disable processing messages. |
| `g` | Pathname of the file for redirection of standard input. |
| `h` | Pathname of the file for redirection of standard output. |
| `i` | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. |

— `INTERACTIVE PROCESS ON MTTY REQUIRES REDIRECTION OF STDIN AND STDOUT`

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

## 5. REFERENCES

Display/Menu Page Name
`RCV/ECD`

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`RCV:DMTE-RC`
`RCV:DMTE-VFY`
`RCV:DMTS-RC`
`RCV:DMTS-VFY`
`RCV:M-BROWSE`
`RCV:M-CMPRDB`
`RCV:M-CREATEECD`
`RCV:M-CREATESG`
`RCV:M-EVOL`
`RCV:M-FDIFF`
`RCV:M-KEYCMP`
`RCV:M-KEYCOMM`
`RCV:M-KEYS`
`RCV:M-LOADF3B`
`RCV:M-NEWDB`
`RCV:M-PRINTDB`
`RCV:M-PRINTFRM`
`RCV:M-RCVSG`
`RCV:M-TRANSGEN`
`RCV:M-TREEBLD`
`RCV:M-VFYDFLT`

Output Message
`RCV:MENU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-RCVSG
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Reviews or modifies a System Generation (SG) database through Recent Change (RC). This message is supported from the maintenance teletypewriter (MTTY) only if both **STDIN** and **STDOUT** are redirected. This message is not supported over the Switching Control Center (SCC) link.

## 2. FORMAT

```
RCV:MENU:RCVSG,[DB "a"][,TERM b][,MASKS "c"][,PRINT "d"][,ECHO "e"]
      [,HELP|,NHELP][,REVIEW|,NREVIEW][,JOURNAL|,NJOURNAL]
      [,SYSGEN|,NSYSGEN][,PRCMSG|,NPRCMSG][,STDIN "f"][,STDOUT "g"]
      [,STDERR "h"]!
```

## 3. EXPLANATION OF MESSAGE

`a` Name of the SG database to be processed. May be the pathname of a database file. See the *User Guidelines* in this document for definitions of pathname and file.

- `broot` — Backup (`/broot`) full-configuration database (valid only if backup is mounted).
- `brootdmly` — Backup (`/broot`) minimum-configuration database (valid only if backup is mounted).
- `root` — Root copy of full-configuration database.
- `rootdmly` — Root copy of minimum-configuration database.

**NOTE:** Any database name used in the `RCV:M-CREATESG` input message may be used here.

`b` Terminal type on which forms are to be displayed. Valid types are `VT100`, `VT52`, `ADM3A`, `ADM42`, `HP2621`, `GNAT`, and `DUMB`. The default is `VT100`.

If `VT100` is selected, the internal terminal setup options must be correctly initialized. Critical values for On-Line Data Integrity (ODIN) system are contained in the fourth grouping, which must be 1010. To check the options, press the setup key, then the key. To change the options, use the left cursor key to tab to the desired flag, then use the key to toggle its value. Pressing the setup key returns the terminal to the normal mode of operation.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `c` | Pathname of the directory containing the mask description files. See the *User Guidelines* in this document for definitions of pathname and directory. The default is `/lla/sgmasks`. |
| `d` | Pathname of the file to be used for writing form instances. This option is independent of **`JOURNAL`**. |
| `e` | Pathname of the file to which the set of key strokes executed during the course of the RC/V session is sent. This file may be reapplied in a later RC/V session as batch input. |
| **`HELP`** | Enable help messages at the bottom of the screen. Default. |
| **`NHELP`** | Disables help messages. |
| **`REVIEW`** | Allow only review requests (and disallow insert, delete, and update requests). Default. |
| **`NREVIEW`** | Allow insert, delete, and update requests. |
| **`JOURNAL`** | Print all forms from insert, delete, and update requests to `/etc/rcvsg.jrnl[0,1]` Default. |
| **`NJOURNAL`** | Do not print forms from insert, delete, or update requests to `/etc/rcvsg.jrnl[0,1]`. |
| **`SYSGEN`** | Enable the system generation mode of operation. This should only be used when executing a dbload or database evolution because the changes are written into the database as applied rather than at the end of the transaction block. |
| **`NSYSGEN`** | Disable the system generation mode of operation. Changes are not applied to the database until the end of the transaction block Default. |
| **`PRCMSG`** | Enables ODIN to print processing messages in the upper right-hand corner of the CRT screen Default. |
| **`NPRCMSG`** | Disables processing messages. |
| `f` | Pathname of the file for redirection of standard input. |
| `g` | Pathname of the file for redirection of standard output. |
| `h` | Pathname of the file for redirection of standard error. |

**NOTE:** The error file for this message is `/etc/rcvsg.err`.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. |
| | — `INTERACTIVE PROCESS ON MTTY REQUIRES REDIRECTION OF STDIN AND STDOUT` |
| `OK` | Good. Requested action initiated and completed. |
| `PF` | Printout Follows. Followed by the `RCV:MENU` output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Name
`RCV/SG`

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`RCV:DMTE-RC`
`RCV:DMTE-VFY`
`RCV:DMTS-RC`
`RCV:DMTS-VFY`
`RCV:M-BROWSE`
`RCV:M-CMPRDB`
`RCV:M-CREATEECD`
`RCV:M-CREATESG`
`RCV:M-EVOL`
`RCV:M-FDIFF`
`RCV:M-KEYCMP`
`RCV:M-KEYCOMM`
`RCV:M-KEYS`
`RCV:M-LOADF3B`
`RCV:M-NEWDB`
`RCV:M-PRINTDB`
`RCV:M-PRINTFRM`
`RCV:M-RCVECD`
`RCV:M-TRANSGEN`
`RCV:M-TREEBLD`
`RCV:M-VFYDFLT`

Output Message
`RCV:MENU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-TRANSGEN
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes a specified recent change activity; this format is used to create a translation database when a tree address space and translation specifications are given. The database is input to database management system Evolution (EVOL) system.

## 2. FORMAT

```
RCV:MENU:TRANSGEN,IN "a",TRANS "b"[,HOOK "c"][,DB "d"][,TREE "e"]
      [,ECHO "f"][,STDERR "g"]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the input file that contains the Software Demand Paging (SDP) address space that describes old and new form specifications; constructed by TREEBLD and input to **TRANSGEN**. See the *User Guidelines* in this document for definitions of pathname and file. |
| b | Pathname of the file containing the translation specifications. |
| c | Pathname of the file of C structures to be produced by **TRANSGEN** and used by EVOL to invoke semantic hooks. |
| d | Pathname of the translation database. |
| e | Pathname of the file that will contain a human-readable dump of a after being modified by **TRANSGEN**. |
| f | Pathname of the file that contains echo output of input specifications. |
| g | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Requested action initiated and completed. |
| PF | Printout Follows. Followed by the RCV:MENU output message. |

## 5. REFERENCES

Input Messages

RCV:M-BROWSE
RCV:M-CMPRDB
RCV:M-CREATEECD
RCV:M-CREATESG
RCV:M-EVOL
RCV:M-FDIFF
RCV:M-KEYCMP
RCV:M-KEYCOMM

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCV:M-KEYS
RCV:M-LOADF3B
RCV:M-NEWDB
RCV:M-PRINTDB
RCV:M-PRINTFRM
RCV:M-RCVECD
RCV:M-RCVSG
RCV:M-TREEBLD
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-TREEBLD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Invokes a specified recent change activity; this format is used to build a tree address space given the old and new form specifications. The tree is input to TRANSGEN.

## 2. FORMAT

```
RCV:MENU:TREEBLD,OLD "a",NEW "b",OUT "c"[,TREE "d"][,ECHO "e"]
      [,STDIN "f"][,STDOUT "g"][,STDERR "h"]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the file that contains old domain and form specifications. See the *User Guidelines* in this document for definitions of pathname and file. |
| b | Pathname of the file that contains new domain and form specifications. |
| c | Pathname of the output file that will contain the Software Demand Paging (SDP) address space that describes old and new form specifications; constructed by **TREEBLD** and input to TRANSGEN. |
| d | Pathname of the file that contains a human-readable dump. |
| e | Pathname of the file that contains echo output of input specifications. |
| f | Pathname of the file for redirection of standard input. |
| g | Pathname of the file for redirection of standard output. |
| h | Pathname of the file for redirection of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Requested action initiated and completed. |
| PF | Printout Follows. Followed by the RCV:MENU output message. |

## 5. REFERENCES

Input Messages
- RCV:M-BROWSE
- RCV:M-CREATEECD
- RCV:M-CREATESG
- RCV:M-EVOL
- RCV:M-LOADF3B
- RCV:M-RCVECD

SEE PROPRIETARY NOTICE ON COVER PAGE

```
RCF:M-RCVSG
RCV:M-TRANSGEN
RCV:M-VFYDFLT
```

Output Message

```
RCV:MENU
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RCV:M-VFYDFLT
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Checks the syntax of the specified default file (corresponding to the low-level Recent Change and Verify (RC/V) Equipment Configuration Database (ECD) form of the same name), and verifies the low-level field names and values contained therein are legal for that low-level form.

## 2. FORMAT

**RCV:MENU:VFYDFLT,EFILE**"a"**,DFILE** "b"[**,MDIR** "c"][**,DDIR** "d"][**STDERR=**"e"]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Pathname of the file to which all error messages will be written. |
| b | Name of the default file to be verified. This must correspond to the name of a RC/V ECD low-level mask. |
| c | Directory in which the RC/V ECD masks are located. This is defaulted to `/lla/ecdmasks`. |
| d | Directory in which default file is located. This is defaulted to `/lla/defaults`. |
| e | Pathname of the file for re-direction of standard error. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Requested action initiated and completed. |
| PF | Printout Follows. Followed by a `RCV:MENU` output message. |

## 5. REFERENCES

Input Message
`RCV:M-RCVECD`

Output Message
`RCV:MENU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . REKEY:SLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This message is used to change to a new key on an encrypted signaling link.

This message results in a long key exchange on the specified link the next time the link is resynchronized.

## 2. FORMAT

**REKEY:SLK**(a,b)!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0–63). |
| b | Member number (1–15). |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual* - Analog Signaling Link Operating Procedures Section, Digital Signaling Link Operating Procedures Section

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . REPT:SLK-INHALM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

This input message requests a status report of all set (ON) Signaling Link (SLK) inhibit alarm flags.

## 2. FORMAT

**`REPT:SLK INHALM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 234-100-121 *CNI Operations Manual* - Analog Signaling Link Operating Procedures Section, Digital Signaling Link Operating Procedures Section

Input Message
`INH:SLK`

Output Messages
`INH:SLK`
`REPT:SLK-INHALM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RFT:ABORT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Aborts the current generic retrofit procedural process.

All internal knowledge of retrofit steps and their status is removed from the retrofit process.

The user may now re-enter the retrofit process at the initial starting point.

**NOTE:** No backout of steps is done.

## 2. FORMAT

**`RFT:ABORT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
`RFT:BEGINPOST`
`RFT:FDUMP`
`RFT:PRINT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RFT:BEGINPOST
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Invokes the generic retrofit process from the ending generic.

This entry step initializes the retrofit process by loading the stepfile and supfile. A snapshot copy of the disk stepfile and supfile is made by the retrofit process to prevent changes being made to these files while the retrofit procedure is being performed. In addition, internal process tables are also initialized.

## 2. FORMAT

```
RFT:BEGINPOST, TYPE "2.3"!
```

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
`RFT:ABORT`
`RFT:FDUMP`
`RFT:PRINT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RFT:FDUMP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Dumps the contents of a file.

## 2. FORMAT

**`RFT:FDUMP,FILE`** `"a"`

## 3. EXPLANATION OF MESSAGE

`a` Pathname of the file. The pathname is a list of the names of each directory leading to the file, and ends with the name of the specific file. Each name begins with a slash, and the entire pathname is enclosed in quotation marks. For example, `/usr/a1/ssw/test` means that `/usr/a1/ssw` represents the list of directory names and `/test` represents the file name.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by the `RFT:FDUMP` output message.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Output Message
`RFT:FDUMP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RFT:PRINT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Prints the named step or supplemental instruction file of the generic retrofit procedural process.

In format 1 if only stepname is specified, the default direction is the **FORWARD** direction.

## 2. FORMAT

[1] **RFT:PRINT,STEP** a[**,FORWARD**|**BACKWARD**]**!**

[2] **RFT:PRINT,SUP** b**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Lines of the specified step (stepname) file are displayed. |
| b | Lines of the supplemental instruction (supname) file are displayed. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
RFT:ABORT
RFT:BEGINPOST
RFT:FDUMP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:CU
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Control Unit (**CU**) from service (for example, from the standby state to the out-of-service state).

## 2. FORMAT

**RMV:CU** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–1).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and the following reason.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by the RMV:CU output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

`DGN:CU`
`RST:CU`

Output Message

`RMV:CU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DCI
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Dual Serial Channel/Computer Interconnect (**DCI**) from service.

## 2. FORMAT

**RMV:DCI** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and the following reason.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:DCI output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:DCI
RST:DCI
```

Output Messages

```
DGN:DCI
RMV:DCI
RST:DCI
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DFC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Disk File Controller (**DFC**) and any associated Moving Head Disks (MHDs) from service. For Small Computer System Interface (SCSI) **DFC**, this command also removes any SCSI Bus (SBUS) connected to the specified **DFC**.

## 2. FORMAT

**RMV:DFC** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–7). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a RMV:DFC output message. |

## 5. REFERENCES

Display/Menu Page Names
COMMON PROCESSOR DISPLAY
DISK FILE SYSTEM ACCESS

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:DFC
DGN:MHD
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DUI
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Direct User Interface (**DUI**) from service.

## 2. FORMAT

**RMV:DUI** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and the following reason.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:DUI output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:DUIC
RMV:DUIC
RST:DUI
RST:DUIC
```

Output Messages

```
DGN:DUIC
RMV:DUI
RMV:DUIC
RST:DUI
RST:DUIC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:DUIC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Direct User Interface Controller (**`DUIC`**) from service.

## 2. FORMAT

**`RMV:DUIC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by a `RMV:DUIC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:DUIC
DGN:IOP
RMV:IOP
RST:DUIC
RST:IOP
```

Output Messages

```
DGN:DUIC
DGN:IOP
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:HSD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified High-Speed Synchronous Data Link (**HSD**) subdevice from service.

## 2. FORMAT

**RMV:HSD** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:HSD output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:HSDC
RMV:HSDC
RST:HSD
RST:HSDC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:HSDC
RMV:HSD
RMV:HSDC
RST:HSD
RST:HSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:HSDC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified High-Speed Synchronous Data Link Controller (**`HSDC`**) from service.

## 2. FORMAT

**`RMV:HSDC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by a `RMV:HSDC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:HSDC
RMV:HSD
RST:HSD
RST:HSDC
```

Output Messages

```
DGN:HSDC
RMV:HSD
RMV:HSDC
RST:HSD
RST:HSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:IOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Input/Output Processor (**IOP**) and any associated Peripheral Controllers (PCs) from service.

## 2. FORMAT

**RMV:IOP** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–15).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and the following reason.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:IOP output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
RST:IOP
```

Output Messages

```
DGN:IOP
RMV:IOP
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:LN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Requests to remove the specified link node from service. The remove is conditional upon having the link facility inactive. To override this condition, see input message `FRMV:LN`.

If the LN major state is ACT, or INIT, an attempt is made to remove the LN from service. If successful, the LN major state is changed to OOS and the node itself is placed in the quarantine state. Success depends on the signaling link state being inactive and the associated signaling link being Not In Service.

If the LN major state is other than ACT or INIT, the major state remains unchanged.

When a node is manually removed, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

## 2. FORMAT

**`RMV:LN`**`a b!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | A Ring Node (RN) group number (`00-63`) with explicit leading zero for group numbers less than 10. |
| `b` | The node's position in the RN group (`1-15`). |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages
`CHG:SLK`
`DGN:LN`
`FRMV:LN`
`INIT:LN`
`RST:LN`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:LN
FRMV:LN
INIT:LN
RMV:LN
RST:LN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the specified Moving Head Disk (**MHD**) be removed from service.

## 2. FORMAT

**RMV:MHD** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a RMV:MHD output message. |

## 5. REFERENCES

Display/Menu Page Names
COMMON PROCESSOR DISPLAY
DISK FILE SYSTEM ACCESS

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:DFC
DGN:MHD
RMV:DFC
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

Output Messages
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Magnetic Tape (**MT**) device from service.

## 2. FORMAT

**RMV:MT** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:MT output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
RMV:MTC
RST:MT
RST:MTC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
RMV:MT
RMV:MTC
RST:MT
RST:MTC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MTC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Magnetic Tape Controller (**`MTC`**) and any associated magnetic tape drives from service.

## 2. FORMAT

**`RMV:MTC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by a `RMV:MTC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
DGN:MTC
RMV:IOP
RST:IOP
RST:MTC
```

Output Messages

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MTC
RST:IOP
RST:MTC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MTTY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Maintenance Teletypewriter (**MTTY**) from service.

## 2. FORMAT

**RMV:MTTY** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:MTTY output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:MTTYC
RST:MTTY
RST:MTTYC
```

Output Messages

```
DGN:MTTYC
RMV:MTTY
RMV:MTTYC
RST:MTTY
RST:MTTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:MTTYC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Maintenance Teletypewriter Controller (**`MTTYC`**) and all associated maintenance teletypewriters, Receive-Only Printers (ROPs), and Switching Control Center (SCC) data link devices from service.

## 2. FORMAT

**`RMV:MTTYC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by a `RMV:MTTYC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RST:IOP
RST:MTTYC
```

Output Messages

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:ROP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Receive-Only Printer (**ROP**) from service.

## 2. FORMAT

**RMV:ROP** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:ROP output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Display/Menu Page name
COMMON PROCESSOR DISPLAY

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:ROP
```

Output Messages

```
DGN:MTTYC
RMV:MTTYC
RMV:ROP
RST:MTTYC
RST:ROP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Remove the specified Ring Peripheral Controller Node (RPCN) from service. This remove is conditional upon having adequate traffic handling capacity to the 3B Computer.

If the **RPCN** major state is ACT, INIT, or STBY, an attempt is made to remove the **RPCN** from service. If successful, the **RPCN** major state is changed to OOS and the node itself is placed in the quarantine state. Success depends on remaining traffic handling capacity.

If the **RPCN** major state is other than ACT, INIT or STBY, the major state remains unchanged.

If a node is manually removed from service, it becomes the responsibility of the user to restore the node to service. This is true even if the node had earlier been placed in the OOS state due to automatic system action.

## 2. FORMAT

**RMV:RPCN**a **0!**

## 3. EXPLANATION OF MESSAGE

a — A Ring Node (RN) group number (00–63) with explicit leading zero for group numbers less than 10.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* - Maintenance Description and Diagnostics User's Guide Sections

Input Messages
DGN:RPCN
RST:RPCN

Output Messages
DGN:RPCN
RMV:RPCN
RST:RPCN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SBUS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Small Computer System Interface (SCSI) Bus (**SBUS**) connected to a SCSI Disk File controller (DFC). The message also removes from service any Moving Head Disk (MHD) attached to the specified SCSI bus.

## 2. FORMAT

**RMV:SBUS** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). Use the OP:DFC or OP:MHD–INFO input message or the Disk File System Access Page (DAP) to determine the member number of this **SBUS** unit. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a RMV:SBUS output message. |

## 5. REFERENCES

Display/Menu Page Name
DISK FILE SYSTEM ACCESS

Input Messages
OP:MHD–INFO
OP:DFC–INFO
RMV:DFC
RMV:MHD

Output Messages
OP:MHD–INFO
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Switching Control Center (**SCC**) data link subdevice from service.

**NOTE:** The mate unit of the specified **SCC** data link subdevice must be in service.

## 2. FORMAT

**RMV:SCC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:SCC output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:MTTYC
RMV:MTTYC
RST:MTTYC
RST:SCC
```

Output Messages

```
DGN:MTTYC
RMV:MTTYC
RMV:SCC
RST:MTTYC
RST:SCC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SCSDC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Scanner and Signal Distributor Controller (**`SCSDC`**) from service.

## 2. FORMAT

**`RMV:SCSDC`** `a!`

## 3. EXPLANATION OF MESSAGE

`a` Member number (`0-255`).

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and the following reason:

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.
— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.
— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by a `RMV:SCSDC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RST:IOP
RST:SCSDC
```

Output Messages

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
RST:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SDL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Synchronous Data Link (**SDL**) subdevice from service.

## 2. FORMAT

**RMV:SDL** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:SDL output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:SDLC
RMV:SDLC
RST:SDL
RST:SDLC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:SDLC
RMV:SDL
RMV:SDLC
RST:SDL
RST:SDLC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:SDLC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Synchronous Data Link Controller (**SDLC**) from service.

## 2. FORMAT

**RMV:SDLC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:SDLC output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:SDLC
RMV:SDL
RST:SDL
RST:SDLC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:SDLC
RMV:SDL
RMV:SDLC
RST:SDL
RST:SDLC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TTY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Teletypewriter (**TTY**) from service.

## 2. FORMAT

**RMV:TTY** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:TTY output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:TTYC
RMV:TTYC
RST:TTY
RST:TTYC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:TTYC
RMV:TTY
RMV:TTYC
RST:TTY
RST:TTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RMV:TTYC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Removes the specified Teletypewriter Controller (**TTYC**) and any associated teletypewriters from service.

## 2. FORMAT

**RMV:TTYC** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and the following reason:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by a RMV:TTYC output message.

RL — Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
DGN:TTYC
RMV:IOP
RST:IOP
RST:TTYC
```

Output Messages

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTYC
RST:IOP
RST:TTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RNM:PSSWD
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Allows a user to change the password suffix.

## 2. FORMAT

**RNM:PSSWD:PSSWDPFX** "a",**OLDSFX** "b",**NEWSFX** "c"!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Password Prefix (**PSSWDPFX**) in three letters and/or digits. |
| b | Old Suffix (**OLDSFX**) of the person's password, in one to 13 characters. |
| c | New Suffix (**NEWSFX**) of the person's password, in one to 13 characters. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Includes one of the following.<br>— PASSWORD PREFIX AND/OR OLD SUFFIX INCORRECT<br>A non-existent password prefix and/or suffix was used.<br>— UNABLE TO ACCESS AUTHORITY ADMINISTRATION<br>Password authority information is inaccessible. |
| OK | Good. Change to password suffix made. |
| RL | Retry Later.<br>— AUTHORITY ADMINISTRATION UNDER UPDATE<br>Authority information is currently being updated. |

## 5. REFERENCES

Input Messages
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
VFY:PAUTH

Output Message
VFY:PAUTH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:CU
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores a computer Control Unit (**CU**) to standby status. If restored conditionally, a complete **CU** diagnostic will be run and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

## 2. FORMAT

**RST:CU** a[[**;UCL**]|[**;RAW**][**:TLP**]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–1).

**UCL** — Restore unconditionally.
(The default is conditional restoration).

**RAW** — Print the diagnostic results of every phase. Default is the first five failures of each failing phase.

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together, as no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons.

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:CU` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:CU`
`RMV:CU`

Output Messages
`ANALY:TLPFILE-B`
`DGN:CU`
`RMV:CU`
`RST:CU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:DCI
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores a Dual Serial Channel/Computer Interconnect (**DCI**), conditionally or unconditionally to service. If restored conditionally, a **DCI** diagnostic will be run and must be All Tests Pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

## 2. FORMAT

**RST:DCI** a[[;**UCL**]|[;**RAW**][:[**TLP**]]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Restore unconditionally. (Default is conditional restoration).

**RAW** — Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together, as no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:DCI` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:DCI`
`RMV:DCI`

Output Messages
`ANALY:TLPFILE-B`
`DGN:DCI`
`RMV:DCI`
`RST:DCI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:DFC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores a Disk File Controller (**DFC**), conditionally or unconditionally, to service. If restored conditionally, a **DFC** diagnostic will be run and must be All Tests Passed (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

## 2. FORMAT

**RST:DFC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**][**,CU** b]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–7).

**UCL** — Restore unconditionally.
(The default is conditional restoration).

**RAW** — Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together, as no testing is performed on an unconditional restore.

**CONT** — Restores only the **DFC**. The default is to restore the **DFC**, all the SBUSs connected to this **DFC** and all associated Moving Head Disks (MHDs).

b — Member number of the CU helper unit (0–1). When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. This off-line CU is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper CU must be Out-Of-Service (OOS) and must be diagnosed as ATP before it is used as a helper unit.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Followed by an RST:DFC output message.

RL — Retry Later. The system is in an overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Names

```
COMMON PROCESSOR DISPLAY
DISK FILE SYSTEM ACCESS
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:DFC
RMV:DFC
RMV:MHD
RMV:SBUS
RST:MHD
RST:SBUS
```

Output Messages

```
ANALY:TLPFILE-B
DGN:DFC
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RST:DUI
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Restores a Direct User Interface (**DUI**) device to service. **DUI** is a subdevice of the **DUI** Controller (DUIC). Restoring a **DUI** by using **RST:DUI** a! has the same effect as using **RST:DUI** a;**UCL!**

**NOTE:** The Input/Output Processor (IOP) and the DUIC must be in service before the **DUI** can be restored.

## 2. FORMAT

**RST:DUI** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by an RST:DUI output message.

RL — Retry Later. The system is in overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUIC
RST:IOP
```

Output Messages

```
RMV:DUI
RMV:DUIC
RMV:IOP
RST:DUI
RST:DUIC
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RST:DUIC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Restores a Direct User Interface Controller (**DUIC**), conditionally or unconditionally, to service. If restored conditionally, a **DUIC** diagnostic will be run and must be All Tests Pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **DUIC** can be restored.

## 2. FORMAT

**RST:DUIC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Restore unconditionally. (The default is conditional restoration).

**CONT** — Restore only the **DUIC**. (The default is to restore the **DUIC** and all associated DUIs).

**RAW** — Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:DUIC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:DUIC`
`DGN:IOP`
`RMV:DUIC`
`RMV:IOP`
`RST:IOP`

Output Messages
`ANALY:TLPFILE-B`
`DGN:DUIC`
`DGN:IOP`
`RMV:DUIC`
`RMV:IOP`
`RST:DUIC`
`RST:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:EAI
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Emergency Action Interface (**`EAI`**) subdevice to service.

## 2. FORMAT

**`RST:EAI`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Member number (`0-255`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by `RST:EAI` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:IOP`
- `DGN:MTTYC`
- `RMV:IOP`
- `RMV:MTTYC`
- `RST:IOP`
- `RST:MTTYC`

Output Messages
- `DGN:IOP`
- `DGN:MTTYC`
- `RMV:EAI`
- `RMV:IOP`
- `RMV:MTTYC`
- `RST:EAI`
- `RST:IOP`
- `RST:MTTYC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:HSD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified High-Speed Synchronous Data link (**`HSD`**) subdevice to service.

**NOTE:** The Input/Output Processor (IOP) and the High-Speed Synchronous Data Link Controller (HSDC) must be in service before the **`HSD`** subdevice can be restored.

## 2. FORMAT

**`RST:HSD`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Member number (`0-255`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by an `RST:HSD` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:HSDC`
- `DGN:IOP`
- `RMV:HSD`
- `RMV:HSDC`
- `RMV:IOP`
- `RST:HSDC`
- `RST:IOP`

Output Messages
- `DGN:HSDC`
- `DGN:IOP`
- `RMV:HSD`
- `RMV:HSDC`
- `RMV:IOP`
- `RST:HSD`
- `RST:HSDC`
- `RST:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:HSDC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores a High-Speed Synchronous Data Link Controller (**HSDC**), conditionally or unconditionally, to service. If restored conditionally, an **HSDC** diagnostic will be run and must be All Tests Pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **HSDC** can be restored.

## 2. FORMAT

**RST:HSDC** a[[;**UCL**][:**CONT**]|[;**RAW**][:[**TLP**][,**CONT**]]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Restore unconditionally. (The default is conditional restoration).

**CONT** — Restore only the **HSDC**. (The default is to restore the **HSDC** and all associated HSD subdevices).

**RAW** — Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:HSDC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:HSDC
DGN:IOP
RMV:HSDC
RMV:IOP
RST:IOP
```

Output Messages

```
ANALY:TLPFILE-B
DGN:HSDC
DGN:IOP
RMV:HSDC
RMV:IOP
RST:HSDC
RST:IOP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RST:IOP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Restores an Input/Output Processor (**IOP**), conditionally or unconditionally, to service. If restored conditionally, an **IOP** diagnostic will be run and must be All Tests Pass (ATP) before the unit will be restored to service. If restored unconditionally, no testing will be performed.

## 2. FORMAT

**RST:IOP** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**][**,CU** b]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–15).

**UCL** — Restore unconditionally. (Default is conditional restoration).

**CONT** — Restore only the **IOP**. (The default is to restore the **IOP** and all associated peripheral controllers; for example, the teletypewriter controller, magnetic tape controller, etc.)

**RAW** — Print the diagnostic results of every phase. (The default is to print the first five failures of each failing phase).

**TLP** — Execute the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

b — Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped. The off-line **CU** is required as a helper unit when demand phase 15 is executed.

**NOTE:** The helper **CU** must be Out-Of-Service (OOS) and must be diagnosed as ATP before it is used as a helper unit.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`?D` Data field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:IOP` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:IOP`
`RMV:IOP`

Output Messages
`ANALY:TLPFILE-B`
`DGN:IOP`
`RMV:IOP`
`RST:IOP`

SEE PROPRIETARY NOTICE ON COVER PAGE

**CAUTION**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . RST:LN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

**CAUTION**
**This command contains time sensitive elements. Maintenance Input Request Administrator (MIRA) should be checked for Link Node (LN) maintenance activity (`OP:DMQ`) before using this command. If there is any LN maintenance activity (active or queued) it should be allowed to complete before using this command.**

## 1. PURPOSE

Conditionally or unconditionally restores the specified LN to service.

Format 1 is used to restore the node using the default obtained from Equipment Configuration Database (ECD) Generic Spec File (GSF).

Format 2 is used to unconditionally restore the node using the CRAFT specified Generic Spec File (GSF).

The system action varies according to the type of restore requested. The restore request types are:

Format 1 type messages: Conditional (CONDITIONAL) request and unconditional (UNCONDITIONAL) restore request - using the default GSF.

Format 2 type message: Unconditional (UNCONDITIONAL USING SPECIFIED GENERIC SPEC FILE) restore request - using the CRAFT specified GSF.

Each type is described following:

CONDITIONAL - Format 1 message - The LN is first removed from service following the rules for `RMV:LN` input message. The LN is next diagnosed following the rules for the `DGN:LN` input message (all automatic phases are executed). The final action depends on the LN major state, the diagnostic results, the RI minor state, and the NP minor state, as follows:

1. If the LN major state is Out-Of-Service (OOS) and the diagnostic results are All Tests Passed (ATP) or Conditional All Tests Passed (CATP), then:
   A. If both the RI and NP minor states are Usable (USBL), an attempt is made to include the LN into the active ring.
      1. If the inclusion is not successful because of the current state of other isolated nodes, the restoral is stopped. The node is placed under automatic control so that it will automatically be restored when the system allows the node to be included in the active ring.

SEE PROPRIETARY NOTICE ON COVER PAGE

2. If the inclusion succeeds, the node is restored to service [pumped with operational code, placed into execution, and its major state changed to Active (ACT)]. If the pump or execution fails, the node is placed under manual control.

B. If the RI minor state is Faulty (FLTY), the restoral is stopped. The node is placed under manual control.

C. If the RI minor state is Questionable (QUSBL), an attempt is made to include the LN into the active ring. The node is placed under manual control and the restoral is stopped.

2. If the LN major state is OOS and the diagnostic results are STF, the node is placed under manual control and an attempt is made to include the node into the active ring. Then the restoral is stopped.
3. If the LN major state is OOS and the diagnostic results are No Tests Run (NTR) or Abort (ABT), the restoral is stopped.
4. If the LN major state is not OOS, the restoral is stopped.

UNCONDITIONAL - Format 1 message - If the LN major state is not OOS, the restoral is stopped.

If the LN major state is OOS, an attempt is first made to include the LN into the active ring.

If the inclusion succeeds, the LN is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT). If the pump or execution fails, the node is placed under manual control.

If the inclusion is not successful because of the current state of other isolated nodes, but both the RI and NP minor states are USBL, the node is placed under automatic control so that it will automatically be restored when the system allows the node to be included in the active ring. For other combinations of minor states, the node is placed under manual control. The restoral is then stopped.

UNCONDITIONAL USING SPECIFIED GENERIC SPEC FILE - Format 2 message - The LN must be either ACT or OOS with an Network Management (NM) state of Manual (MAN), in the active ring, and have an RI state of USBL in order to be restored using this message. If these criteria are met, the LN is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT), otherwise the restoral is stopped. If the pump or execution fails, the node is placed under manual control.

## 2. FORMAT

[1] **RST:LN**a b[**;UCL**|**;RAW**][**:TLP**]**!**

[2] **RST:LN**a b**;GSFN** "c"**;UCL!**

SEE PROPRIETARY NOTICE ON COVER PAGE

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | A ring node (RN) group number (`00-63`) with explicit leading zero for group numbers less than 10. |
| `b` | The node's position in the RN group (`1-15`). |
| **`UCL`** | Restore the node Unconditionally (**`UCL`**). Default is conditional restoral.<br><br>**NOTE:** **`UCL`** is required for a format 2 type message. |
| **`RAW`** | Print the diagnostic results of every phase. Default - Print the results of the first five failures of each failing phase. |
| **`TLP`** | Execute the Trouble Locating Procedure (**`TLP`**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment. |
| `c` | The name of the generic spec file to use when unconditionally restoring the node to service. Overrides the default generic spec file for the duration of the restore.<br><br>**NOTE:** The generic spec file name must be enclosed in double quotes. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Practice 234-100-121 (non-AT&T) - *CNI Operations Manual*,
Practice 234-100-121AC (AT&T only)- *CNI Operations Manual*,
Analog Signaling Link Operating Procedures Section Digital Signaling Link Operating Procedures Section

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures*,
Analog Signaling Link Maintenance Procedures Section Diagnostics User's Guide Section Digital Signaling Link Maintenance Procedures Section Maintenance Description Section Ring and Ring Node Maintenance Procedures Section

Input Messages
`DGN:LN`
`FRMV:LN`
`INIT:LN`
`OP:DMQ`
`RMV:LN`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:LN
FRMV:LN
INIT:LN
OP:DMQ
REPT:IUN-RST
RMV:LN
RST:LN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores a Moving Head Disk (**MHD**) to service. If restored conditionally, an **MHD** diagnostic is run, and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

**NOTE:** The Disk File Controller (DFC) and the Small Computer System Interface (SCSI) Bus (SBUS) must be in service before the **MHD** can be restored.

## 2. FORMAT

**RST:MHD** a[[**;UCL**][**,RAW**][**:**[**TLP**][**,CONT**]]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number. |
| **UCL** | Unconditional restoral. The default is conditional restoral. |
| **RAW** | Prints the diagnostic results of every phase. The default is the first five failures of each failing phase. |
| **TLP** | Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.<br><br>**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore. |
| **CONT** | Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by an RST:MHD output message. |

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:SBUS
```

Output Messages

```
ANALY:TLPFILE-B
DGN:DFC
DGN:MHD
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Magnetic Tape (**MT**) device to service.

**NOTE:** For an **MT** residing under the Disk File Controller (DFC), the DFC and Small Computer System Interface (SCSI) Bus (SBUS) must be in service before the **MT** can be restored.

For an **MT** residing under the Input/Output Processor (IOP), the IOP and Magnetic Tape Controller (MTC) must be in service before the **MT** can be restored.

**NOTE:** The **RAW** and **TLP** options are not available for IOP **MT** units.

## 2. FORMAT

**RST:MT** a[[;**UCL**]|[[;**RAW**][:**TLP**]]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Unconditional restore. Default is conditional restore.

**RAW** — Prints the diagnostic results of every phase. Default is the first five failures of each failing phase.

**NOTE:** The **RAW** and **UCL** parameters cannot be used together, because no testing is performed on an unconditional restore.

**TLP** — Executes the Trouble Location Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:MT` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MTC
```

Output Messages

```
DGN:IOP
DGN:MTC
RMV:IOP
RMV:MT
RMV:MTC
RST:IOP
RST:MT
RST:MTC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MTC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores a Magnetic Tape Controller (**MTC**) to service. If restored conditionally, an **MTC** diagnostic is run and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **MTC** can be restored.

## 2. FORMAT

**RST:MTC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**][**,MT** b]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Unconditional restoral. The default is conditional restoral.

**CONT** — Restores only the **MTC**. The default is to restore the MTC and all associated magnetic tape devices.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

b — Specified helper unit, required for some diagnostic phases. An entry in the data field other than a keyword or keyword parameter is the specified helper unit. When a helper unit is not required, the specified helper unit is ignored. When a helper unit is required but the specified helper unit is inappropriate or unavailable, the helper unit dependent tests are skipped.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:MTC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:IOP`
- `DGN:MTC`
- `RMV:IOP`
- `RMV:MTC`
- `RST:IOP`

Output Messages
- `ANALY:TLPFILE-B`
- `DGN:IOP`
- `DGN:MTC`
- `RMV:IOP`
- `RMV:MTC`
- `RST:IOP`
- `RST:MTC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MTTY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Maintenance Teletypewriter (**`MTTY`**) to service.

**NOTE:** The Input/Output Processor (IOP) and Maintenance Teletypewriter Controller (MTTYC) must be in service before the **`MTTY`** can be restored.

## 2. FORMAT

**`RST:MTTY`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Member number (`0-255`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by an `RST:MTTY` output message. |

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:IOP`
`DGN:MTTYC`
`RMV:IOP`
`RMV:MTTYC`
`RST:IOP`
`RST:MTTYC`

Output Messages
`DGN:IOP`
`DGN:MTTYC`
`RMV:IOP`
`RMV:MTTYC`
`RST:IOP`
`RST:MTTY`
`RST:MTTYC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:MTTYC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores a Maintenance Teletypewriter Controller (**MTTYC**) to service. If restored conditionally, an **MTTYC** diagnostic is run and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **MTTYC** can be restored.

## 2. FORMAT

**RST:MTTYC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Unconditional restoral. The default is conditional restoral.

**CONT** — Restores only the **MTTYC**. The default is to restore the **MTTYC** and all associated maintenance teletypewriters, Receive-Only Printers (ROP), and Switching Control Center (SCC) data link subdevices.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:MTTYC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`DGN:IOP`
`DGN:MTTYC`
`RMV:IOP`
`RMV:MTTYC`
`RST:IOP`

Output Messages
`ANALY:TLPFILE-B`
`DGN:IOP`
`DGN:MTTYC`
`RMV:IOP`
`RMV:MTTYC`
`RST:IOP`
`RST:MTTYC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:ROP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Receive-Only Printer (**ROP**) to service.

**NOTE:** The Input/Output Processor (IOP) and Maintenance Teletypewriter Controller (MTTYC) must be in service before the **ROP** can be restored.

## 2. FORMAT

**RST:ROP** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by an RST:ROP output message. |

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RST:IOP
RST:MTTYC

Output Messages
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:ROP
RST:IOP
RST:MTTYC
RST:ROP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:RPCN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,IMS
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores the Specified Ring Peripheral Controller Node (RPCN) to service.

The system action is different for a conditional and unconditional restoral request as described in the following paragraphs.

Unconditional (`UCL`) -
If the RPCN major state is not OOS, the restoral is stopped.

If the **`RPCN`** major state is OOS, an attempt is first made to include the RPCN into the active ring.

If the inclusion succeeds, the **`RPCN`** is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT). If the pump or execution fails, the node is placed under manual control.

If the inclusion is not successful because of the current state of other isolated nodes, but both the RI and NP minor states are USBL, the node is placed under automatic control so that it will automatically be restored when the system allows the node to be included in the active ring. For any other combination of minor states, the node is placed under manual control. The restoral is then stopped.

Conditional - The **`RPCN`** is first removed from service following the rules for `RMV:RPCN` input message. The **`RPCN`** is next diagnosed following the rules for the `DGN:RPCN` input message (all automatic phases are executed). The final action depends on the **`RPCN`** major state, the diagnostic results, the RI minor state, and the NP minor state, as follows:

1. If the `RPCN` major state is OOS and the diagnostic results are ATP or CATP, then:
   A. If both the RI and NP minor states are USBL, an attempt is made to include the **`RPCN`** into the active ring.
      1. If the inclusion is not successful because of the current state of other isolated nodes, the restoral is stopped. The node is placed under automatic control so that it will automatically be restored when the system allows the node to be included in the active ring.
      2. If the inclusion succeeds, the **`RPCN`** is restored to service (pumped with operational code, placed into execution, and its major state changed to ACT). If the pump or execution fails, the node is placed under manual control.
   B. If the RI minor state is FLTY, the restoral is stopped. The node is placed under manual control.

SEE PROPRIETARY NOTICE ON COVER PAGE

C. If the RI minor state is QUSBL, an attempt is made to include the **RPCN** into the active ring. The node is placed under manual control and the restoral is stopped.

2. If the **RPCN** major state is OOS and the diagnostic results are STF, the node is placed under manual control and an attempt is made to include the **RPCN** into the active ring. Then the restoral is stopped.
3. If the **RPCN** major state is OOS and the diagnostic results are NTR or ABT, the restoral is stopped.
4. If the **RPCN** major state is not OOS, the restoral is stopped.

## 2. FORMAT

**RST:RPCN**a **0**[**;UCL**|**;RAW**][**:TLP**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | A ring node (RN) group number (00–63) with explicit leading zero for group numbers less than 10. |
| **UCL** | Restore the node unconditionally. Default = Conditional restoral. |
| **RAW** | Print the diagnostic results of every phase. Default = Print the results of the first five failures of each failing phase. |
| **TLP** | Execute the trouble locating procedure (TLP) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment. |

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 234-151-120 *Trouble Clearing and Maintenance Procedures* - Maintenance Description Section, Ring and Ring Node Maintenance Procedures Section, Diagnostics User's Guide Section,

Input Messages
DGN:RPCN
RMV:RPCN

Output Messages
ANALY:TLPFILE-RPCN
DGN:RPCN
RMV:RPCN
RST:RPCN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SBUS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores a Small Computer System Interface (SCSI) Bus (**SBUS**) to service. There is no diagnostic to be run for **SBUS** since the **SBUS** is a pseudo device (no physical entity) only.

**NOTE:** The Disk File Controller (DFC) must be in service before the **SBUS** can be restored.

## 2. FORMAT

**RST:SBUS** a[**:UCL:CONT**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |
| **CONT** | Restores only the **SBUS**. Default restores the **SBUS** and all associated Moving Head Disks (MHDs). |
| **UCL** | Unconditional restore. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a RST:SBUS output message. |

## 5. REFERENCES

Display/Menu Page Names
COMMON PROCESSOR DISPLAY
DISK FILE SYSTEM ACCESS

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
OP:MHD-INFO
RMV:DFC
RMV:MHD
RMV:SBUS
RST:DFC
RST:MHD
RST:SBUS
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Switching Control Center (**SCC**) data link subdevice to service.

**NOTE:** The Input/Output Processor (IOP) and the Maintenance Teletypewriter Controller (MTTYC) must be in service before the **SCC** data link subdevice can be restored.

## 2. FORMAT

**RST:SCC** a!

## 3. EXPLANATION OF MESSAGE

a Member number (0–255).

## 4. SYSTEM RESPONSE

PF Printout Follows. Followed by a RST:SCC output message.

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
DGN:IOP
DGN:MTTYC
RMV:IOP
RMV:MTTYC
RMV:SCC
RST:IOP
RST:MTTYC
RST:SCC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SCSDC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores a Scanner and Signal Distributor Controller (**SCSDC**) to service. If restored conditionally, an **SCSDC** diagnostic is run and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **SCSDC** can be restored.

## 2. FORMAT

**RST:SCSDC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**]]]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |
| **UCL** | Unconditional restoral. The default is conditional restoral. |
| **CONT** | Includes only the specified unit (controller). Units attached to the specified unit will not be included. If the specified unit has no attached units, **CONT** is ignored. |
| **RAW** | Prints the diagnostic results of every phase. The default is the first five failures of each failing phase. |
| **TLP** | Executes the Trouble Locating Procedure (**TLP**) to generate a list of suspected faulty equipment. |

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by an RST:SCSDC output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
```

Output Messages

```
ANALY:TLPFILE-B
DGN:IOP
DGN:SCSDC
RMV:IOP
RMV:SCSDC
RST:IOP
RST:SCSDC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SDL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the specified Synchronous Data Link (**SDL**) subdevice to service.

**NOTE:** The Input/Output Processor (IOP) and the Synchronous Data Link Controller (SDLC) must be in service before the **SDL** subdevice can be restored.

## 2. FORMAT

**RST:SDL** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by an RST:SDL output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDLC

Output Messages
DGN:IOP
DGN:SDLC
RMV:IOP
RMV:SDL
RMV:SDLC
RST:IOP
RST:SDL
RST:SDLC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . RST:SDLC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Conditionally or unconditionally restores a Synchronous Data Link Controller (**SDLC**) to service. If restored conditionally, an **SDLC** diagnostic is run, and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is performed.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **SDLC** can be restored.

## 2. FORMAT

**RST:SDLC** a[[;**UCL**][:**CONT**]|[;**RAW**][:[**TLP**][,**CONT**]]]!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Unconditional restoral. The default is conditional restoral.

**CONT** — Restores only the **SDLC**. The default is to restore the **SDLC** and all associated Synchronous Data Link (SDL) subdevices.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:SDLC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:IOP`
- `DGN:SDLC`
- `RMV:IOP`
- `RMV:SDLC`
- `RST:IOP`

Output Messages
- `ANALY:TLPFILE-B`
- `DGN:IOP`
- `DGN:SDLC`
- `RMV:IOP`
- `RMV:SDLC`
- `RST:IOP`
- `RST:SDLC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RST:TTY
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Unconditionally restores the specified Teletypewriter (**TTY**) to service.

**NOTE:** The Input/Output Processor (IOP) and the Teletypewriter Controller (TTYC) must be in service before the **TTY** can be restored.

**TTY** is a subdevice of TTYC. Restoring a **TTY** by using the **RST:TTY** a! command has the same effect as using the **RST:TTY** a;**UCL!** command.

## 2. FORMAT

**RST:TTY** a!

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

?I — Identification field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.
— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.
— MISSING KEYWORD
A required keyword is missing from the input.

PF — Printout Follows. Followed by an RST:TTY output message.

RL — Retry Later. The system is in overload condition.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
RST:IOP
RST:TTYC
```

Output Messages

```
DGN:IOP
DGN:TTYC
RMV:IOP
RMV:TTY
RMV:TTYC
RST:IOP
RST:TTY
RST:TTYC
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... RST:TTYC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Restores a Teletypewriter Controller (**TTYC**), conditionally or unconditionally, to service. If restored conditionally, a **TTYC** diagnostic is run and must be All Tests Pass (ATP) before the unit is restored to service. If restored unconditionally, no testing is done on the unit to be restored.

**NOTE:** The Input/Output Processor (IOP) must be in service before the **TTYC** can be restored.

## 2. FORMAT

**RST:TTYC** a[[**;UCL**][**:CONT**]|[**;RAW**][**:**[**TLP**][**,CONT**]]]**!**

## 3. EXPLANATION OF MESSAGE

a — Member number (0–255).

**UCL** — Unconditional restoral. The default is conditional restoral.

**CONT** — Restores only the **TTYC**. The default is to restore the **TTYC** and all associated teletypewriters.

**RAW** — Prints the diagnostic results of every phase. The default is the first five failures of each failing phase.

**TLP** — Executes the Trouble Locating Procedure (**TLP**) at the conclusion of the diagnostic. This process generates a list of suspected faulty equipment.

**NOTE:** The **TLP** and **UCL** parameters should not be used together since no testing is performed on an unconditional restore.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— EXTRA KEYWORD
Duplicate or extraneous keywords were input.

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `MISSING KEYWORD`
A required keyword is missing from the input.

`PF` Printout Follows. Followed by an `RST:TTYC` output message.

`RL` Retry Later. The system is in overload condition.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
- `DGN:IOP`
- `DGN:TTYC`
- `RMV:IOP`
- `RMV:TTYC`
- `RST:IOP`

Output Messages
- `ANALY:TLPFILE-B`
- `DGN:IOP`
- `DGN:TTYC`
- `RMV:IOP`
- `RMV:TTYC`
- `RST:IOP`
- `RST:TTYC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SEND:0
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Sends an input message to an intelligent frame complex.

**NOTE:** When the message is sent, the comma that separates verb and identification field is changed to a colon.

## 2. FORMAT

```
SEND:a b,c,d!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Frame complex name. |
| b | Frame complex number. |
| c | Input message verb. |
| d | Message identification fields and any other message parameters. |

## 4. SYSTEM RESPONSE

Varies depending on message identification fields and any other message parameters.

## 5. REFERENCES

File Name
`/coams/inscreen`

Input Messages
`CONNECT:0`
`DISCONNECT:0`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:AMA-CONFIG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Equips or unequips an Automatic Message Accounting (**AMA**) partition for either the IC, OC, or DF data stream.

## 2. FORMAT

**SET:AMA;CONFIG;{IC|OC|DF|DM}:PART** a,{**EQUIP**[,**NOINIT**]|**UNEQUIP**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **IC** | Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream. |
| **OC** | Used if **AMA** data goes to the operating company revenue accounting data stream. |
| **DF** | Used for the Deferred Formatting data stream. |
| **DM** | Used for the Disk Mode data stream. |
| a | Partition number to be equipped or unequipped. |
| **NOINIT** | Used if the partition is to be equipped without initializing the disk map for that partition. This option if valid only if the partition is being equipped. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Valid request received and initiated. Will be followed by a message indicating the outcome of the request. |
| NG | No Good. This response is for Disk Mode stream only, a text phrase follows NG explaining the problem encountered by the craft command. |
| PF | Printout Follows. Inconsistency found in the input message. A printout will follow to indicate the specific problem. |

## 5. REFERENCES

Input Message
OP:AMA-CONFIG

Output Message
REPT:AMA-CONFIG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:AMA-CONTROL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Changes one or more of the Automatic Message Accounting (**AMA**) control file parameters.

**NOTE:** A maximum of three parameters may be entered (changed) at one time.

## 2. FORMAT

```
SET:AMA;CONTROL[;IC|;OC]:{OFFICEID a|EXPDATE b|START {cc|(cc,dd)}|
      STOP {ee|(ee,ff)}|MT g|OPTION h|HOCPSWD i|BACKUPSWD j|
      TAPEID "k"|DWD l|MSN m|FAST n|DF o|AINCC p}!
```

## 3. EXPLANATION OF MESSAGE

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

a Office identification number (6 digits).

b Number of days until **AMA** tape expires (1–99).

c Hour of start time.

d Minute of start time.

e Hour of stop time.

f Minute of stop time.

g Default tape drive number for the automatic tape writing process.

h Option:

TAPE — Tape option.

TP — Teleprocessing option.

i Host Collector (HOC) password (10 digits).

j Backup HOC password (10 digits).

k Tape data set ID (up to 17 characters).

SEE PROPRIETARY NOTICE ON COVER PAGE

`l` Maximum Disk Write Delay (**DWD**). This is the maximum time from when a record is created until it is written to disk, in seconds (up to 5 digits).

`m` Maximum sequence number setting:

`LONG` — If the HOC that is collecting the AMA data is capable of accepting sequence numbers up to `999,999,999`.

`SHORT` — If the HOC that is collecting the AMA data is NOT capable of accepting sequence numbers up to `999,999,999`.

`n` Should be set to whichever is this office's FAST stream:

`IC` — Inter-LATA revenue accounting office data stream.

`OC` — Operating company revenue accounting office data stream.

`o` Deferred formatting:

`OFF` — Prohibit Deferred Formatting to be turned on.

`ON` — Allow Deferred Formatting to be turned on.

`p` Advanced Intelligent Network (AIN) call code. Valid call codes are 001 to 999. If no call code is provisioned, the AIN AMA billing record will default to the current 047 call code.

## 4. SYSTEM RESPONSE

`IP` In Progress. The option(s) selected are being updated.

`NG` No Good. Data stream checks failed.

`RL` Retry Later. A tape or teleprocessing session is currently in progress. Try again after the session terminates. If the problem persists after the session has terminated, refer to the AMA TOPS procedure for further resolution.

## 5. REFERENCES

Input Messages

```
ALW:AMA-AUTOST
ALW:AMA-SESS
INH:AMA-AUTOST
INH:AMA-SESS
OP:AMA-CNTLFIL
OP:AMA-STREAM
```

Output Messages

```
REPT:AMA-CONT
REPT:AMA-CONTL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:AMA-RC
WORK CENTER.. MOC
GENERIC ..... 4AP14 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Allows the craft personnel to change one or all of the Ethernet® Interface Node (EIN) routing-address Recent Changeable parameters. The addresses and passwords that will be accepted by this command may not all fit on one command line. The user that attempts to change all of the allowable parameters may need to use this command about 3 or 4 times.

## 2. FORMAT

```
SET:AMA;RC:{EINIP0 "a.a.a.a"|EINIP1 "b.b.b.b"|CDRP0IP0 "c.c.c.c"|
      CDRP0IP1 d.d.d.d"|CDRPID0 e|CDRP0PSWD f|CDRP1IP0 "g.g.g.g"|
      CDRP1IP1 "h.h.h.h"|CDRPID1 i|CDRP1PSWD j|SWID k|SWPSWD l|
      CF m|BRIP0 "n.n.n.n"|BRIP1 "o.o.o.o"|SNMSK p}!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | EIN 0 (zero) Internet Protocol (IP) address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| b | EIN 1 (one) IP address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| c | Call Detail Recording Platform (CDRP) 0 (zero) first IP address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| d | CDRP 0 (zero) second IP address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| e | CDRP 0 (zero) Identification number, input must be 11 characters. |
| f | CDRP 0 (zero) password, input must be 8 characters. |
| g | CDRP 1 (one) first IP address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| h | CDRP 1 (one) second IP address (0–255). The IP address input must be enclosed inside double quotes. Example: "000.0.1.2" |
| i | CDRP 1 Identification number, input must be 11 characters. |
| j | CDRP 1 password, input must be 8 characters. |
| k | Switch Identification number, input must be 11 characters. |
| l | Switch Password, input must be 8 characters. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`m` Compression flag:

`OFF` — Data compression is off. Default.

`ON` — Data compression is on.

`n` B-Router 0 IP address (`0-255`). The IP address input must be enclosed inside double quotes. Example: `"000.0.1.2"`

`o` B-Router 1 IP address (`0-255`). The IP address input must be enclosed inside double quotes. Example: `"000.0.1.2"`

`p` Subnet-Mask is a mask value that will be used by the Automatic Message Accounting (**`AMA`**) software to mask the IP address bytes of the CDRP IP addresses.

`ffffff00` — Default.

`00ffffff`

## 4. SYSTEM RESPONSE

`IP` In Progress. Printout to follow or error message will be printed.

`RL` Retry Later. Could not get system resources.

## 5. REFERENCES

Input Message
`OP:AMA-RC`

Output Message
`REPT:RECENT-CHANG`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . SET:AMA-RECMODE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**This message should be used with discretion. Indiscriminate use of this message may cause `AMA`** and/or ICDR data to be lost. For example, switching from CDRP recording mode to APS will result in the loss of data for all active calls.

## 1. PURPOSE

This message changes the Automatic Message Accounting (**`AMA`**) and International Call Detailed Recording (ICDR) recording mode to either Attached Processor System (`APS`), Call Detail Recording Platform (`CDRP`), or Transition mode. In `APS` mode, records are formatted on the `APS`, stored on the `APS` disk, and teleprocessed by the `APS`. In `CDRP` mode, events are sent to a `CDRP`, where they are formatted into records, stored on disk, and teleprocessed. In Transition mode, the recording functions are done on both the `APS` and `CDRP`, so that the resulting records can be compared to identify any `CDRP` formatting errors.

The `CDRP` and SIN nodes must be grown and at least one of the Small Computer System Interface (SCSI) links must be in the STBY state in order to switch from `APS` recording mode to either `CDRP` or Transition recording mode.

## 2. FORMAT

**`SET:AMA;RECMODE`** `a[`**`,DP`** `b]`**`,SID`** `c!`

## 3. EXPLANATION OF MESSAGE

`a` New recording mode:

`APS` — Attached Processor System mode.

`CDRP` — Call Detail Recording Platform mode.

`TRANS` — Transition mode.

`b` Disk partitioning. To transition from `APS` to `CDRP` or from `APS` to `TRANS`, at least one disk mode partition must be equipped. To transition from `CDRP` to `APS`, at least one IC partition, one OC partition, and one ICDR partition must be equipped.

`AUTO` — If automatic disk partitioning is specified and the types of disk partitions that are needed for the new recording mode are not equipped, one of each required type of disk partition will be automatically equipped.

`MAN` — If manual disk partitioning is specified and the types of disk partitions that are needed for the new recording mode are not

SEE PROPRIETARY NOTICE ON COVER PAGE

equipped, the command will be rejected. The `SET:AMA-CONFIG` command should be used to manually equip the needed partitions. The default is `MAN`.

`c` A password. Contact NESAC to obtain the current value.

## 4. SYSTEM RESPONSE

`?I` Identification field contains an error. An invalid keyword was present in the input message

`NG` No Good. The recording mode cannot be changed as requested. A message will be printed stating the reason.

`PF` Printout Follows. The recording mode has been successfully changed.

`RL` Retry Later. The recording mode cannot currently be changed. A message will be printed stating the reason.

## 5. REFERENCES

Input Message
`SET:AMA-CONFIG`

Output Message
`REPT:AMA-FORM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:AMA-STREAM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Sets up the Automatic Message Accounting (**AMA**) office configuration.

## 2. FORMAT

**SET:AMA;STREAM:{IC|OC|DUAL}!**

## 3. EXPLANATION OF MESSAGE

**IC** Used if **AMA** data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if **AMA** data goes to the operating company revenue accounting office data stream.

**DUAL** Used if **AMA** data goes to both the Inter-LATA and the operating company data streams.

## 4. SYSTEM RESPONSE

?I Identification field contains an error. Invalid data stream value was specified in the input message.

OK Good. Data stream indicator was successfully set up.

PF Printout Follows. Disk file does not exist. See output message REPT:AMA-STR-FILE for action to be taken.

RL Retry Later. Process could not attach to a Protected Application Segment (PAS), or a disk copy of the data stream indicator could not be written.

## 5. REFERENCES

Input Message
OP:AMA-STREAM

Output Message
REPT:AMA-STR-FILE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:CLK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Sets the system clock to the specified date and time. It can also adjust the system clock by plus or minus the seconds specified.

**NOTE:** No spaces are permitted within the argument string.

## 2. FORMAT

[1] **`SET:CLK`** `abcde!`

[2] **`SET:CLK:{FWD|BWD}`** `f!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Month of year (`01-12`). |
| `b` | Day of month (`01-31`). |
| `c` | Last two digits of year (`00-99`). Numbers less than 70 refer to years in the 21st century. |
| `d` | Hour (`00-23`). |
| `e` | Minute (`00-59`). |
| `f` | Second (`00-59`). Set the system clock forward or backward by the entered number of seconds. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `SET:CLK` output message. |

## 5. REFERENCES

Input Message
`OP:CLK`

Output Messages
`OP:CLK`
`SET:CLK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:DLNAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Direct Link Node (DLN) error messages are normally spooled to the CNILOG file. This message causes these errors to be spooled to the maintenance printer in addition to the CNILOG file.

## 2. FORMAT

**`SET:DLNAP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Flag has been set in process ARTS to spool DLN errors to the maintenance printer. |

## 5. REFERENCES

Input Message
`CLR:DLNAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:DLNPANIC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Direct Link Node (DLN) panic messages are normally sent to the printer, but they can be turned off via `CLR:DLNPANIC`. This message causes DLN panic messages to be sent to the maintenance printer in addition to the CNILOG file.

## 2. FORMAT

**`SET:DLNPANIC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Flag has been set in process ARTS to spool DLN panic messages to the maintenance printer. |

## 5. REFERENCES

Input Message
`CLR:DLNPANIC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:ICDR-CONFIG
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Equips or unequips an International Call Detail Recording (**ICDR**) partition.

## 2. FORMAT

**SET:ICDR;CONFIG:PART** a,{**EQUIP**[,**NOINIT**]|**UNEQUIP**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Partition number to be equipped or unequipped. |
| **NOINIT** | Used if the partition is to be equipped without initializing the disk map for that partition. This option if valid only if the partition is being equipped. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Valid request received and initiated. Will be followed by a message indicating the outcome of the request. |
| PF | Printout Follows. Inconsistency found in the input message. A printout will follow to indicate the specific problem. |

## 5. REFERENCES

Input Message
OP:ICDR-CONFIG

Output Message
REPT:ICDR-CONFIG

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:ICDR-CONTROL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Changes one or all of the International Call Detail Recording (**ICDR**) control file parameters.

## 2. FORMAT

[1] **SET:ICDR;CONTROL:START** (aa,bb),**STOP** (aa,bb)!

[2] **SET:ICDR;CONTROL:**{**START** (aa,bb)|**START** aa}!

[3] **SET:ICDR;CONTROL:**{**STOP** (aa,bb)|**STOP** aa}!

[4] **SET:ICDR;CONTROL:START** aa,**STOP** aa!

[5] **SET:ICDR;CONTROL:DWD** c!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aa | Hour of start or stop time. |
| bb | Minute of start or stop time. |
| c | Maximum Disk Write Delay (DWD). This is the maximum time from when a record is created until it is written to disk, in seconds (up to 5 digits). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Request accepted. The option selected is being updated. |
| RL | Retry Later. A teleprocessing session is currently in progress. Try again after the session terminates. If the problem persists after the session has terminated, refer to the **ICDR** TOPS procedure for further resolution. |

## 5. REFERENCES

Input Messages
ALW:ICDR-SESSION
INH:ICDR-SESSION
OP:ICDR-CONTROL
OP:ICDR-RECORD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
REPT:ICDR-CONT
REPT:ICDR-CONTAUD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:ICDR-RECORD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Turns the 3B computer International Call Detail Recording (**ICDR**) recording capability on or off.

## 2. FORMAT

**SET:ICDR;RECORDING:{ON|OFF}!**

## 3. EXPLANATION OF MESSAGE

**ON** Turn **ICDR** data collection on.

**OFF** Turn off **ICDR** data collection.

## 4. SYSTEM RESPONSE

?I Identification field contains an error. Invalid value was specified in the input message.

OK Good. **ICDR** recording was successfully turned on or off.

RL Retry Later. Process could not attach to a Protected Application Segment (PAS), or the disk copy of the data stream indicator could not be written.

## 5. REFERENCES

Input Message
OP:ICDR-RECORD

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:IODRV
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Allows option setting in the Input/Output Processor (IOP) Driver (**IODRV**) to print messages.

**NOTE:** Using the `SET:IODRV` input message without the options turns on all severity levels, handler identifiers, and classes, but does not change the setting for saving IOP error messages.

## 2. FORMAT

```
SET:IODRV[;[LVL a|(a,a[,a])][,ID b|(b,b[,b...])][,CLASS c|(c,c[,c...])]
      [,MSGSAVE]]!
```

## 3. EXPLANATION OF MESSAGE

`a` Severity level (`1-3`), where one is the most severe setting and three is the least severe.

`b` Handler identifications are:

- `ALL` — All IDs.
- `APH` — Application protocol handler.
- `APPL1` — APPL5 - Reserved for application handlers.
- `CIH` — Craft interface handler.
- `DUIH` — Direct user interface handler.
- `IOP` — Input/output processor driver.
- `MAINT` — Maintenance handler.
- `MTH` — Magnetic tape handler.
- `NPH` — Network protocol handler.
- `SCSDH` — Scanner and signal distributor handler.
- `SDLH` — Synchronous data link handler.
- `SPH` — Session protocol handler.
- `TPH` — Transport protocol handler.
- `PPH` — Presentation protocol handler.

`c` Thirty-two classes available.

**`MSGSAVE`** All IOP error messages will be saved in the logfile `IODRVLOG`.

## 4. SYSTEM RESPONSE

`NG` No Good. Conflict with system status.

`PF` Printout Follows. Followed by a `SET:IODRV` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

`CLR:IODRV`
`OP:IODRV`

Output Messages

`OP:IODRV`
`SET:IODRV`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:LFS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Provides the capability to configure user-defined (customized) default loopback test attributes, which are associated with the Link Fault Sectionalization (**LFS**) test procedure.

Format 1 overrides the contents of one or all (50) memory locations using the system default test attributes.

Format 2 provides the means to configure customized loopback test attributes of either a given memory location or all (50) memory locations. Each memory location is comprised of the six components: "**PATL, PATN, DUR, THR, NLS, NER**".

## 2. FORMAT

[1] **SET:LFS:{MEM** a|**ALL},SYSDEF!**

[2] **SET:LFS:{MEM** a|**ALL}{[,PATL{** b|**X'**cc**}][,PATN** d**][,DUR(**e,f,g**)]**
**[,THR{(BER,**h**)|(PEFS,**i**)}][,NLS** j**][,NER** k**]|SYSDEF}!**

## 3. EXPLANATION OF MESSAGE

**MEM** Declares a unique memory location.

a A specific memory location. Must be an integer value (1–50).

**ALL** Declares all 50 memory locations.

**SYSDEF** Specifies the system default values as customized defaults for the indicated memory location(s).

**PATL** Declares a customized default latching loopback test pattern for the designated memory location(s).

b A specific latching loopback test pattern:

511 — 511-bit pseudorandom test pattern.

2047 — 2047-bit pseudorandom test pattern.

PS1 — First pattern sensitive test pattern: (100 octets of 11111111 followed by 100 octets of 01000000).

PS2 — Second pattern sensitive test pattern: (100 octets of 01111110 followed by 100 octets of 01000000).

PS3 — Third pattern sensitive test pattern: (continuous series of 00110010 octets).

PS4 — Fourth pattern sensitive test pattern: (continuous series of 01000000).

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| c | An optional user-defined test pattern octet value for latching loopback test. The latching test pattern values in the memory locations remain unchanged if a value is not explicitly specified. |
| **PATN** | Declares a customized non-latching loopback test pattern (d) for the designated memory location(s). |
| d | Non-latching loopback test pattern:<br>511 — 511-bit pseudorandom test pattern.<br>2047 — 2047-bit pseudorandom test pattern.<br><br>The non-latching test pattern values the memory locations remain unchanged if a value is not explicitly specified. |
| **DUR** | Declares the customized maximum test duration for the designated memory location(s). |
| e,f,g | Maximum test duration at a loopback point: in hours, minutes, seconds, respectively. Hours (0–48). Minutes and seconds (0–59). The maximum test duration in each of the memory locations remains unchanged if a value is not explicitly specified. |
| **THR** | Declares the customized error threshold type and the customized error threshold value for the designated memory location(s). |
| **BER** | Bit error ratio threshold type. |
| h | Error threshold value, must be expressed as a floating point number: u.vE–w Where u, v and w are integer values (0–9).<br>(E.g., 1.0E-6 represents 0.000001).<br>The error threshold types and values in the memory locations are unchanged if the threshold type and value are not explicitly specified. |
| **PEFS** | Percent error free seconds threshold type. |
| i | Error threshold value, must be a decimal number (10–100).<br>(E.g., 10, 20.5, 100, 100.0).<br>The error threshold types and values in the memory locations are unchanged if the threshold type and value are not explicitly specified. |
| **NLS** | Declares the customized value for the maximum number of lost synchronization for the designated memory location(s). |
| j | Maximum number of lost synchronization (slips) permitted at a loopback point (0–999). The values of the maximum number of lost synchronization in the memory locations are unchanged if a value is not explicitly specified. |
| **NER** | Declares the customized value for the number of consecutive errored bits for designated memory location(s). |
| k | Number of consecutive errored bits to be injected in the bit stream of the designated test patterns (0–6). The values of the maximum number of consecutive errored bits in each of the memory locations remain unchanged if a value is not explicitly specified. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages

`EXC:LFS`
`OP:LFS`

Output Message

`SET:LFS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:T1M
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Changes the periodic indication interval for intrusive testing at the Universal Link Nodes (ULNs). The periodic indication interval is used for periodically reporting intrusive activity to the application.

## 2. FORMAT

**`SET:T1M,PIIT`** `[a]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` The periodic indication interval, in minutes, for intrusive testing. When you request a Periodic Indication of Intrusive Test (PIIT) and the variable is present, the periodic indication interval is set to the value specified in the variable if the variable is a valid value for the PIIT. The valid range is between 5 and 30 minutes, in 5-minute increments. The default value of 5 minutes is established when the system is initialized, and when a PIIT request is made without the variable being specified.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

`?D` Data field contains an error.

`?I` Identification field contains an error.

`PF` Printout Follows.

## 5. REFERENCES

MCRT Display Page
`1110 Page` for the poke command for `SET:T1M`

Practice 256-090-182, *CNI Maintenance Manual*, T1 Maintenance Procedures Section

Input Messages
`ATR:T1M`
`CLR:T1M`
`EXC:T1M`
`OP:T1M`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
ATR:T1M
CLR:T1M
EXC:T1M
OP:T1M
SET:T1M
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:TRACE
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,IMS
TYPE ..... Input

## 1. PURPOSE

This command allows the user to change the contents of the system trace control block, and hence to change the operational characteristics of trace. The commands using keywords NP and SLOT are available only in IMS systems built with the NPTRACE feature enabled.

The **TRACE** craft process `SET:TRACE` joins the terminate class associated with **TRACE** process `tdcp.p`. This means that the craft process will be aborted whenever `tdcp.p` is aborted by its owner which may be either IMS or an application.

Inserts any specified changes into the system trace control block in the 3B. If trace is allowed in the 3B, new detail flags are placed in both the user-detail-flag structure and the system-detail-flag structure. If trace is inhibited in the 3B, the flags are only placed in the system-detail-flag structure. If trace is allowed in the NPs, and if any of the changes affect NPs where tracing is active (or will be active as a result of this command), then updated local trace control blocks are sent to the affected NPs.

## 2. FORMAT

[1] **SET:TRACE**[(a,b)][;**CU**]!

[2] **SET:TRACE**[(a,b)];**NP**,c[;**CU** d]!

[3] **SET:TRACE**[(a,b)];**NP**,e **SLOT** f[;**CU** d]!

## 3. EXPLANATION OF MESSAGE

a — Subsystem identifier(s):

`IMEAS`

`IMEAS, ITRACE, IOPNS`

`ALL` — All subsystems.

b — Detail flag mask to be associated with the subsystems given.

`X'FFF`

`0`

SEE PROPRIETARY NOTICE ON COVER PAGE

`c` The name member pair(s) of **`NP`**(s) to which tracing is to be limited.

`IUN01 1`

`IUN32 1, IUN32 5, IUN02 2`

`NONE` — Disable facility-specific tracing. `NONE` will change the trace system to the opposite of facility-specific which is all NPs.

`d` Trace 3B software:

`NO`— Not trace 3B software.

`ONLY`— Trace 3B software without tracing NP software.

`YES`— Trace 3B software.

`e` **`NP`** identity of the slot to which tracing is to be limited:

`IUN01 1`

`f` Slot(s) on an **`NP`** to which call processing tracing is to be limited:

`1`

`(1, 2 , 5)`

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Messages

`ALW:TRACE`
`INH:TRACE`
`OP:TRACE`

Output Messages

`ALW:TRACE`
`INH:TRACE`
`OP:TRACE`
`REPT:TRACE`
`SET:TRACE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SET:TRAP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests that a trap be set for CCS6 or CCS7 type messages by entering in the specific trap attributes that are to be matched. The trap can be set to start immediately or at a future time. Only link information for CCS6 or CCS7 is allowed.

**NOTE:** Semicolons separate the subfields in the command format. If the second subfield is not used, two semicolons must separate the first and third subfields. (For example: **`SET:TRAP,`**subfield1**`;;`** subfield3**`!`**).

**NOTE:** `SET:TRAP` commands are to be typed in the file just as they would appear if typed manually on the MCRT (i.e., if wraparound occurs with command typed on MCRT, that command should be typed in the file with wraparound occurring. All commands specified in the file should have a proper terminating character (i.e., "**`!`**") followed by a newline character. There is a limit of 5 `SET:TRAP` commands that can be included in a file because only 5 simultaneous traps can be active at one time.

**NOTE:** For the message type field only symbolics can be entered.

**NOTE:** The numbers in **`()`** reflect the actual size for the fields. Byte quantities should be specified when values are entered in hexadecimal.

**NOTE:** The offset and bitpattern field can be given multiple times when specifying multiple offsets and bitpatterns.

**NOTE:** Only a maximum of 5 fields can be specified.

**NOTE:** If neither **`DUR`** nor **`MCNT`** is given, default values will be taken from DEF_MSGCNT (10) and DEF_DUR (5), respectively.

If **`MCNT`** is given and **`DUR`** is not given, MAX_DUR (user-tunable parameter) will be taken as the value of the **`DUR`** field and the given **`MCNT`** value will be checked against an upper-bound of MTRP_CNT (1000) to preserve system integrity.

If **`DUR`** is given and **`MCNT`** is not given, MAX_MSGCNT (user-tunable parameter) will be taken as the value of the **`MCNT`** field and the given **`DUR`** value will be checked against an upper-bound of MTRP_DUR (7 days) to preserve system integrity.

If both MCNT and DUR are given, they will be checked against the values in MTRP_CNT (1000) and MTRP_DUR (7 days) to preserve system integrity.

SEE PROPRIETARY NOTICE ON COVER PAGE

**NOTE:** Fields requiring a bit pattern value can be specified in either hexadecimal or decimal value with the exception of the Global Title fields. Global Title fields can only be entered in hexadecimal.

EXAMPLE:

```
SET:TRAP, LNKLST (00,02,32,01), MTYPE DCIS;
   OPC X'FE3201, MS X'FFFF00; RATE 1, MCNT 15!
```

In the example, the trap will start immediately on nodes (`00,02`) and (`32,01`). The last byte of **`OPC`** will be ignored as specified by the mask. Only those incoming DCIS messages where the most significant two bytes of **`OPC`** contain `FE32` will be trapped. Those matching messages will be collected from nodes (`00,02`) as well as (`32,01`). The trap will terminate after a total of 15 matching messages have been collected.

Traps will be initiated based on the trap attribute information given. A trap identification number is given for each valid `SET:TRAP` command entered. This number in turn will allow tracking of the status of the trap entered. Signaling messages meeting the trap criteria given in this command will be collected at the nodes and sent to the 3B.

## 2. FORMAT

[1]
```
SET:TRAP,FILENAME "a"!
```

[2]
```
SET:TRAP{,LNKSET b|LNKR (c,d)|LNKLST {e|(e,d)}}
[,MTYPE f]!
[,MODE g]
[;[SOPC h[,MS i]][,OPC j[,MS k]][,DPC l[,MS m]]
[,CGT n[,MS o]][,CGPC p[,MS q]][,CGSN r[,MS s]]
[,CGGT t[,MS u]][CDT v[,MS w]][,CDPC x[,MS y]]
[,CDSN z[,MS a1]][,CDGT b1[,MS c1]][,DOM d1[,MS e1]]
[,DESA f1[,MS g1]][,DESB h1[,MS i1]][,BNM j1[,MS k1]]
[,VLN l1[,MS m1]][,RFR n1[,MS o1]][,RC p1[,MS q1]][,DMI {Y|N}]
[,OFSTB (r1,s1)[,MS t1]][,RTAD u1[,MS v1]]]
[;[ST w1][,DUR (x1,y1)][,MCNT z1][,MGSZE a2]
[,RATE b2]
[,DEST c2][,RTDSP {Y|N}][,{SAVE|NOSAVE}]]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Filename (full pathname using lower case where it applies). |
| `b` | Linkset (`1-511`). |
| `c,d,e` | Link range or link list specified in group and member format. Group number (0-63). Member number (1-15). (i.e., LNKR `gg,mm,gg,mm`.) |
| `f` | System 6 or System 7 message type: |

- `ALL6` — Specifies all System 6 message types.
- `ALL7` — All System 7 signaling messages.
- `BAND6` — System 6 banded messages.
- `DCIS` — System 7 direct signaling message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`DS6` — System 6 direct signaling messages.
`ECIS7` — System 7 embedded CIS message.
`ISDN7` — System 7 integrated services digital messages.
`MREG7` — System 7 maintenance regular messages.
`MSPEC7` — System 7 maintenance special messages.
`NM6` — System 6 signaling network management messages.
`NM67` — System 6 signaling network management messages on S7 node.
`SCCP` — System 7 signaling connection control point.
`SNM7` — System 7 signaling network management messages.

`g` Specifies mode for trapping:

`IN` — Incoming message type. Default.

`OUT` — Outgoing message type.

`h` Source Origination Point Code (**`SOPC`**) (3 bytes).

`i` Mask field for **`SOPC`** (3 bytes).

`j` Origination Point Code (**`OPC`**) (3 bytes).

`k` Mask field for **`OPC`** (3 bytes).

`l` Destination Point Code (**`DPC`**) (3 bytes).

`m` Mask field for **`DPC`** (3 bytes).

`n` Calling party translation type (1 byte).

`o` Mask for calling party translation type (1 byte).

`p` Calling party point code (3 bytes).

`q` Mask for calling party point code (3 bytes).

`r` Calling party sub-system number (1 byte).

`s` Mask for calling party sub-system number (1 byte).

`t` Calling party global title (up to 6 bytes).

`u` Mask for calling party global title (up to 6 bytes).

`v` Called party translation type (1 byte).

`w` Mask for called party translation type (1 byte).

`x` Called party point code (3 bytes).

`y` Mask for called party point code (3 bytes).

`z` Called party sub-system number (1 byte).

`a1` Mask for called party sub-system number (1 byte).

`b1` Called party global title (up to 6 bytes).

`c1` Mask for called party global title (up to 6 bytes).

`d1` Domain (3 bits).

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `e1` | Mask for domain (3 bits). |
| `f1` | Destination_A field (10 bits). |
| `g1` | Mask for Destination_A field (10 bits). |
| `h1` | Destination_B field (10 bits). |
| `i1` | Mask for Destination_B field (10 bits). |
| `j1` | Band Number (9 bits). |
| `k1` | Mask for Band number (9 bits). |
| `l1` | Virtual Link Number (3 bits). |
| `m1` | Mask for virtual link number (3 bits). |
| `n1` | Reason for return field (1 byte). |
| `o1` | Mask for reason for return field (1 byte). |
| `p1` | Return Code (2 bits). |
| `q1` | Mask for return code (2 bits). |
| **`DMI`** | Discard message indicator:<br>**`Y`** — No other trap attribute parameters can be specified.<br>**`N`** |
| `r1` | Layer 3 offset in bytes beginning at 1 byte before the SIO field byte. This value must be a multiple of 2 bytes. |
| `s1` | Layer 3 bit pattern (4 bytes). |
| `t1` | Mask for layer 3 bit pattern (4 bytes). |
| `u1` | Return address (15 bits). |
| `v1` | Mask for return address (15 bits). |
| `w1` | Starting time of trap (given in network time e.g. 3:00 pm would be given as 1500). The default will be immediate activation of the trap. |
| `x1` | Hours for duration of trap (Maximum duration is 7 days i.e., 7*24 hours). |
| `y1` | Minutes for duration of trap. |
| `z1` | Maximum number of messages to be trapped and saved. The default taken for this will be the user tunable parameter MAX_MSGCNT. The number of messages collected for a trap may exceed the number of messages requested in the **`MCNT`** parameter. This is due to the fact that a trap can be set on several nodes and the central processor (3B20D/3B21D) maintains a cumulative count of the messages collected from all the nodes. When this cumulative count in the 3B20D/3B21D exceeds **`MCNT`** value, 3B20D/3B21D sends a message to all the nodes to stop the trap. But by then, the nodes might have sent |

SEE PROPRIETARY NOTICE ON COVER PAGE

some additional trapped messages to the 3B20D/3B21D. These additional messages are not discarded, but are included as part of the trap result.

If the trap is set on only one node, excess messages may result for the following reason. Once every second, each node sends to the 3B20D/3B21D all messages trapped during that one second period. The messages collected at the 3B20D/3B21D at a given time (in seconds) may be less than the **MCNT** field. But immediately after the next second, the messages collected may exceed the specified **MCNT** value. The 3B20D/3B21D, then, sends a message to the node to stop the trap.

`a2` Message size (i.e., maximum number of bytes of a trapped message to be saved). This value must be given in multiples of 4 bytes. If no value is given for message size, the default is the user tunable parameter MAX_MSGSIZE.

`b2` Rate of trapping for matching messages to be collected will be 1 out of the given rate value (i.e., if 10 is specified then 1 out of every 10 messages will be collected). The default taken will be a trapping rate of 1 per 100 (`1-100`).

`c2` Specifies the output class for output of trap information. The default will be the MCRT, ROP, and SCCS (`0-255`).

**RTDSP** Realtime display. This indicates whether the trapped messages will be printed in realtime to the default destination (i.e., MCRT, ROP,SCCS).

- **Y** — The trapped messages will be printed to the default destination as soon as they arrive at the 3B.
- **N** — Default.

**SAVE** Specifies saving of trapped messages on the disk.

**NOSAVE** Specifies no saving of trapped messages on the disk.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Output Message
`SET:TRAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SET:TSC
WORK CENTER.. MOC
GENERIC ..... 4AP12 Rel. 3 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This command allows the tear-down of any TSC in any call state by specifying the Call Reference Value (**CRV**) and Link Access ID (**LACID**).

## 2. FORMAT

**SET:TSC;RLS:LACID** a,**CRV X'**b[,**DEST** c]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Low range: 1–255; high range: 1024–1279. |
| b | The range of **CRV** is (1–0xFFFF). 4ESS™ sends a **CRV** with flag=0 if 4ESS™ is the originator on this interface. 4ESS™ sends a **CRV** with flag=1 if 4ESS™ is the destination on this interface. |
| c | Destination class (0–255). The destination number to output device cross reference can be found in output appendix APP:APPENDIX–09. If a destination is not specified, the output is directed only to the requester. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?D | Data field contains an error. Missing keyword or data. |
| ?I | Identification field contains an error. Syntax error. |
| PF | Printout Follows. SET:TSC output message will follow. |
| RL | Retry Later. Repeat the request later. |

## 5. REFERENCES

Output Appendix
APP:APPENDIX–09

Input Message
OP:TSC

Output Message
SET:TSC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:ADB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Starts the Automated Database Backup (**ADB**).

## 2. FORMAT

**START:ADB,APP** a!

## 3. EXPLANATION OF MESSAGE

a — Customer name:

IBGTT — Only IBGTT is supported currently.

## 4. SYSTEM RESPONSE

PF — Printout Follows. Requested information will be output.

## 5. REFERENCES

Input Messages
- ALW:ADB
- INH:ADB
- OP:ADB
- STOP:ADB

Output Message
- START:ADB

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . START:CRCUPD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this command may jeopardize the database integrity which could lead to lost calls.**

## 1. PURPOSE

Updates the Cyclic Redundancy Check (CRC) data for the rehash audit. This command updates the CRC data for the requested application database. It should only be used when assured that the data is good, and the CRCs are out of date. CRCs can become out of date when the 3B20D initializes or the process `/ring/ir` leaves core after finishing recent changes but before the CRCs are updated.

**NOTE:** Do not run this command when call processing or recent change is complaining about the application database(s).

**NOTE:** Depending on the size of the application database, this message may require up to 45 minutes to complete. This input causes two output messages to print, one indicating that the CRC update has begun and a second indicating that it has finished.

## 2. FORMAT

**`START:CRCUPD,APP {ALL|ATP|IBGTT|PCPGTT}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`ALL`** | All application databases. |
| **`ATP`** | AT&T Trigger Platform (ATP) data tables. |
| **`IBGTT`** | Inbound global title translation. |
| **`PCPGTT`** | Positive call processing global title translation. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Message accepted and `START:CRCUPD` output message follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Message
`START:CRCUPD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:DADC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Provides, when used with the `STOP:DADC` input message, a manual on/off switch for either a specific direct access data channel (**`DADC`**) link or the entire **`DADC`** capability.

## 2. FORMAT

[1] **`START:DADC;SDL a!`**

[2] **`START:DADC;FEATURE!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Synchronous Data Link (SDL) unit number (`40-55`). |
| **`FEATURE`** | The **`DADC`** capability is turned on. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. The input message was syntactically incorrect. |
| `PF` | Printout Follows. Output message `START:DADC` will follow. |

## 5. REFERENCES

Input Message
`STOP:DADC`

Output Messages
`START:DADC`
`STOP:DADC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message starts a Data Consistency Check (**DCC**) task.

The **DCC** task will scan the SCRATCH `/dev/appdb2` copy of the APPDB database for the specified customer unit and will compute a "32-bit checksum value" for each ABC DEF GHIJ combination specified as parameters to this input command. These checksums can be compared to checksums computed in an identical manner on another switch or "master copy OS" and differences can be used to locate logical database errors.

Results from the **DCC** task will be stored on the 4ESS™ Switch and can be retrieved via the `VER:DCC` input command.

**DCC** must be allowed (via `ALW:DCC`) and activated (via `ACTV:DCC`) prior to starting a **DCC** task.

Each format will compute one or more checksums, depending on the data parameters (i.e., **ABC**, **DEF**, **GHIJ**, and **ABCDEF**) specified.

Formats 1-3:

If **ABC** is specified without **DEF** and **GHIJ**, and not with the `ALL` argument, then a single checksum will be computed for each NPA (or NPA range) in the list that has records in the "activated" (SCRATCH) APPDB database. i.e. if three NPA ranges are specified, then the output will contain one, two, or three checksums, depending on the contents of the SCRATCH, ie. activated, APPDB. Each checksum will be computed from all 10DGTT numbers that are provisioned with the corresponding NPA (or NPA range) that the checksum pertains to.

If **ABC** `ALL` is specified without **DEF** and **GHIJ**, then a checksum will be output for each NPA provisioned at the 4ESS Switch.

If only **ABC** and **DEF** are specified (ie. **GHIJ** is not entered), then a checksum will be computed for each combination of NXX (or each NXX range) in the list and each NPA (or each NPA range) in the **ABC** list. Each checksum will be computed from all 10DGTT numbers that are provisioned with the corresponding NPA (range) and NXX (range) that the checksum pertains to. i.e. if two NPA ranges and two NXX ranges are specified, then one, two, three or four checksums will be computed.

If **DEF** `ALL` is specified, then a checksum will be computed for each NXX provisioned with an NPA (or within an NPA range) equal to any of the NPAs (or NPA ranges) in the **ABC** list. If both **ABC** `ALL` and **DEF** `ALL` are specified together, then a checksum will be computed for each NPA and NXX combination that is provisioned.

SEE PROPRIETARY NOTICE ON COVER PAGE

If the **GHIJ** keyword is specified, then a checksum will be computed for each combination of NPA (or range) and NXX (or range) and GHIJ range corresponding to the **ABC** and **DEF** keyword arguments. A checksum will be output ONLY if there are records provisioned with the NPA, NXX and XXXX range implied by the keyword arguments specified.

Note that if **DEF** is specified, then **ABC** must also be specified; the **ABC** argument list can still be a list of NPAs or NPA ranges, or the keyword ALL. If **GHIJ** is specified, then **ABC** and **DEF** must be specified as well; the **ABC** argument list can still be a list of NPAs or NPA ranges, or the keyword ALL and the **DEF** argument list can still be a list of NXXs or NXX ranges, or the keyword ALL.

Formats 4-5:

This format is used to select specific NPANXX combinations. This is different from Formats 2 and 3 **ABC** and **DEF** usage, since the latter will provide a checksum for every combination of the two arguments. Formats 4 and 5 result in a checksum (or more than one checksum if a **GHIJ** range list is specified) computed for each NPANXX specified in the **ABCDEF** list.

The **GHIJ** keyword is allowed with the **ABCDEF** keyword. Its interpretation is identical to that specified under the Format 3 description.

The **ABC** and **DEF** keywords cannot be used together with the **ABCDEF** keyword.

## 2. FORMAT

[1] **START:DCC,APP** a,**TID** b[,**SID** c]:**ABC** d!

[2] **START:DCC,APP** a,**TID** b[,**SID** c]:**ABC** d,**DEF** e!

[3] **START:DCC,APP** a,**TID** b[,**SID** c]:**ABC** d,**DEF** e,**GHIJ** f!

[4] **START:DCC,APP** a,**TID** b[,**SID** c]:**ABCDEF** g!

[5] **START:DCC,APP** a,**TID** b[,**SID** c]:**ABCDEF** g,**GHIJ** f!

## 3. EXPLANATION OF MESSAGE

a — The name of the APPDB customer unit to be activated:

IBGTT

b — A nine or less alpha-numeric string, call the "Transaction ID", that can be used to uniquely identify the started **DCC** task. (See VER:DCC for more information on the use of the DCC Transaction ID.)

c — A one to eight character alphanumeric. This is called the "snapshot id" of the **DCC** activation. Subsequent **START:DCC SID** arguments, if specified, must match the argument specified here.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `d` | A three-digit NPA value, a range ("-" separated) of NPA values, or a list of two or more three-digit NPAs or NPA ranges or the keyword argument `ALL`. (Lists must be enclosed in parentheses and list elements must be separated by commas.) |
| `e` | A three-digit NXX value, a range ("-" separated) of NXX values, or a list of two or more three-digit NXXs or NXX ranges or the keyword argument `ALL`. (Lists must be enclosed in parentheses and list elements must be separated by commas.) |
| `f` | A range ("-" separated) of XXXX values, or a list of two or more four-digit XXXX ranges. (Lists must be enclosed in parentheses and list elements must be separated by commas.) |
| `g` | A six-digit NPANXX value or a list of six-digit NPANXX values. (Lists must be enclosed in parentheses and list elements must be separated by commas.) |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages

`ACTV:DCC`
`ALW:DCC`
`DEACTV:DCC`
`INH:DCC`
`OP:DCC`
`START:DCC`
`STOP:DCC`
`VER:DCC`

Output Message

`START:DCC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:DLNCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Start message transport for the API-DLN stream.

Directs the API and/or DLN to start scanning the API-DLN stream in a particular direction, either 1B outgoing, 1B incoming or both directions. If the device and direction are not specified, then device and direction will both be defaulted to BOTH.

## 2. FORMAT

**START:DLNCM,STREAM**[;a;b]!

## 3. EXPLANATION OF MESSAGE

a — Device:

- API — Attach Processor Interface.
- BOTH — Both sides.
- DLN — Direct Link Node.

b — Direction:

- BOTH — Both directions (default).
- ONEAIN — 1B incoming.
- ONEAOUT — 1B outgoing.

## 4. SYSTEM RESPONSE

NG — No Good.

- — DLNCM CANNOT PROCESS REQUEST
  Bad parameter passed to **DLNCM**.
- — OST CALL
  Operating system trap call to **DLNCM** failed
- — UNKNOWN RESPONSE FROM DLNCM
  DLNCM responded invalidly.

PF — Printout Follows. Followed by START:DLNCM output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `CANNOT COMMUNICATE TO DLNCM`
Cannot send request to **`DLNCM`**.
— `CNI PHASE/START TRAFFIC SEQ IN PROGRESS`
CNI phase and/or start traffic sequence in progress.
— `DLNCM DOES NOT EXIST`
The **`DLNCM`** process does not exist.
— `LOST COMM TO 1A`
Lost 1B communication.
— `NO TCBs AVAILABLE`
No task control blocks available to service request.
— `RING INITIALIZATION IN PROGRESS`
Ring initialization has started.
— `STREAM/DLN CONFIG IN PROGRESS`
API-DLN stream and/or DLNs are being configured.
— `UNKNOWN RESPONSE FROM DLNCM`
**`DLNCM`** response was not a valid response.

## 5. REFERENCES

Output Message
`START:DLNCM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:EVENTSESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Starts a (1 hour) session to filter and print Automatic Message Accounting (AMA) and International Call Detail Recording (ICDR) events on a call in hex form, by matching with the data given in this input message. The events will be printed when they are sent by the 1B, sent by the APS, and sent by the Small Computer System Interface (SCSI) Interface Node (SIN).

## 2. FORMAT

**START:EVENTSESS;WO** a,**BO** b,**FZ** c,**VALUE** d!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **WO** | Word offset to the AMA event. |
| a | Word offset in decimal up to max AMA event length. |
| **BO** | Bit offset to match. |
| b | Bit offset in decimal (0–31). |
| **FZ** | Field size to match. |
| c | Field Size in decimal. |
| **VALUE** | Value to match. |
| d | Value in decimal. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. May be that a verb was typed incorrectly or that a field delimiter was omitted. |
| ?I | Identification field contains an error. The input message contained syntax errors which violated PDS shell message format rules. Check the message in the input document. |
| PF | Printout Follows. Message syntax was accepted and printout follows. |
| RL | Retry Later. |

## 5. REFERENCES

Input Messages
STOP:EVENTSESS

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
REPT:START-EVENT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message activates a File Transfer and Activation (**FTA**) command file.

The **FTA** activation task will read APPDB or 1B recent changes from the command file (populated via OSS, e.g., IRAS) and apply the RC commands to the proper 4ESS™ Switch APS (or 1B) database.

Results from the **FTA** activation will be stored in a corresponding response file that can be retrieved via OSS (e.g., IRAS).

**FTA** must be allowed (via `ALW:FTA`) prior to activating an **FTA** command file.

## 2. FORMAT

[1] **START:FTA,APP** a,**FILE** b!

[2] **START:FTA,APP** a,**FILE** b[,**ENTRY** c]!

## 3. EXPLANATION OF MESSAGE

a — The name of the **FTA** customer application whose file is to be activated:

`CORE`

`IBGTT`

`OBGTT` — (Refers to the PCP customer)

b — A number indicating the command file to be activated. Command files are numbered from 0 to 99. (See the `OP:FTF` input message for more details.)

c — A number from 1 to 10000 indicating a specific command number within the file at which activation is to begin. If not specified, activation is started at the beginning of the command file.

## 4. SYSTEM RESPONSE

`PF` — Printout Follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ALW:FTA
INH:FTA
OP:FTA
OP:FTF
STOP:FTA
```

Output Messages

```
ALW:FTA
INH:FTA
OP:FTA
OP:FTF
START:FTA
STOP:FTA
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... START:NVTSESS
WORK CENTER.. MOC
GENERIC ..... 4AP14 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Starts a session requesting that Automatic Message Accounting (AMA) records be matched with the data given in this input message. This command message will not be accepted if another request is processing or checking for matched records.

Parameters in the input message specify records to be matched:

| PARAMETER | DATA VALUE OCCURRENCES | LENGTH |
|---|---|---|
| Billing Number (**BN**) | 2 | 7 - 15 |
| Dialed Number (**DN**) | 8 | 5 - 15 |
| Terminating Number (**TN**) | 8 | 5 - 15 |
| Structure Codes (**SC**) | 4 | 5 |
| Call Codes (**CC**) | 4 | 3 |
| II/OLI Digits (**II**) | 1 | 3 |

## 2. FORMAT

[1] **START:NVTSESS,BN** (a[,a...]);{**ALL**|**OC**|**IC**};**TIME**[ b]!

[2] **START:NVTSESS,DN** (a[,a...]);{**ALL**|**OC**|**IC**};**TIME**[ b]!

[3] **START:NVTSESS,TN** (a[,a...]);{**ALL**|**OC**|**IC**};**TIME**[ b]!

[4] **START:NVTSESS,SC** (a[,a...]);{**ALL**|**OC**|**IC**};**TIME**[ b]!

[5] **START:NVTSESS,CC** (a[,a...]);{**ALL**|**OC**|**IC**};**TIME**[ b]!

[6] **START:NVTSESS,II** a;{**ALL**|**OC**|**IC**};**TIME**[ b]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Number of data value occurrences allowed for each parameter. Entered as a comma-linked list when there is more than one data value. |
| **ALL** | All available office streams. |
| **IC** | Inter-LATA revenue accounting office data stream. |
| **OC** | Operating company revenue accounting office data stream. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `b` | Duration of the session. Time must be specified in 30 minute intervals within a range of `30` to `240` minutes. If no time is specified, a default of 15 minutes is assumed. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. Either a verb was typed incorrectly or a field delimiter was omitted. |
| `?E` | Error exists in the message but cannot be resolved to the proper field. |
| `?I` | Identification field contains an error. The input message contained syntax errors which violated PDS shell message format rules. Check message in the input document. |
| `OK` | Good. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Messages

`FLUSH:NVTREC`
`STOP:NVTSESS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... START:PING
WORK CENTER.. MOC
GENERIC ..... 4AP14 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Allows for the local and remote craft person to initiate an Internet Control Message Protocol (ICMP) "echo request" message from the 4ESS to a remote Internet Protocol (**IP**) address within the network.

## 2. FORMAT

```
START:PING;EIN a,IP "b.b.b.b"[,TIME c]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Ethernet® Interface Node (EIN) node to which request will be sent (0 – 1). |
| b | Internet Protocol address that the EIN will forward the request on to (0–255). The IP address input must be enclosed inside double quotes. Example: "0.11.222.255" |
| c | The amount of time that the EIN node will wait for a response from the specified IP address. The time is in seconds (1–10). If no time is specified on the input, then there will be a default value of 1 second assigned. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| IP | In Progress. Output will follow. |
| NG | No Good. Could not process input data. |

## 5. REFERENCES

Input Message
OP:AMA-RC

Output Messages
REPT:RECENT-CHANG
REPT:START-PING

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:RCBUFGET
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Retrieve all buffered 1B Recent Change forms and store them in a file on the 3B. These Recent Change forms can be re-applied to the 1B later using the `START:RCBUFPUT` command.

This command can be terminated with the `STOP:RCBUFGET` command.

All formats perform the **`RCBUFGET`** function identically. Using the **`DATA`** keyword will give an output message for each Recent Change form retrieved from the 1B. Without this option, the only output will be a starting message, an end/summary message, and a progress report every 5 minutes (if the **`RCBUFGET`** process takes longer than 5 minutes.)

## 2. FORMAT

[1] **`START:RCBUFGET!`**

[2] **`START:RCBUFGET,DATA!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
`START:RCBUFPUT`
`STOP:RCBUFGET`

Output Message
`START:RCBUFGET`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . START:RCBUFPUT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Restore the buffered 1B Recent Change forms saved on the 3B20D disk storage system via the **START:RCBUFPUT** command.

This command can be terminated with the STOP:RCBUFPUT command.

All formats perform the **RCBUFPUT** function identically. Using the **DATA** keyword will give an output message for each Recent Change form retrieved from the 1B. Without this option, the only output will be a starting message, an end/summary message, and a progress report every 5 minutes (if the **RCBUFPUT** process takes longer than 5 minutes.)

## 2. FORMAT

[1] **START:RCBUFPUT!**

[2] **START:RCBUFPUT,DATA!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

PF Printout Follows.

## 5. REFERENCES

Input Messages
START:RCBUFGET
STOP:RCBUFPUT

Output Message
START:RCBUFPUT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:ADB
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops the Automated Database Backup (**ADB**) process, and clears the **ADB** locks.

## 2. FORMAT

**STOP:ADB,APP** a!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Customer name: |
| | IBGTT |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Requested information will be output. |

## 5. REFERENCES

Input Messages
START:ADB
ALW:ADB
INH:ADB
OP:ADB

Output Message
STOP:ADB

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . STOP:AIM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this message may cause service outage.**

## 1. PURPOSE

This message terminates an Application Integrity Monitor (**AIM**) child process. If process is not running, this message does nothing.

## 2. FORMAT

**STOP:AIM;PROC** "a"!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Internal **AIM** child process name. Use the command OP:AIM;PROC (see input message OP:AIM) to obtain list of valid process names. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. Invalid process name was given. Use OP:AIM;PROC to obtain valid list. |
| PF | Printout Follows. Request was received and understood by **AIM**. **AIM** will attempt to terminate the process and will print additional information when the process is terminated. |
| RL | Retry Later. Process is not in a stable state. Try again later. |

## 5. REFERENCES

Input Message
OP:AIM

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:AMATAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops (manually) the tape writing process. The Automatic Message Accounting (AMA) data previously written to the tape will not be lost.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 2. FORMAT

**STOP:AMATAPE**[:OC|:IC]!

## 3. EXPLANATION OF MESSAGE

**IC** Used if AMA data goes to the Inter-LATA revenue accounting office data stream.

**OC** Used if AMA data goes to the operating company revenue accounting office data stream.

## 4. SYSTEM RESPONSE

NG No Good. The teleprocessing option is in effect or the tape option is in effect but tape writing is not in progress. Also, the data stream checks could have failed.

PF Printout Follows. Followed by REPT:AMATAP-CO output message. If any invalid data was encountered while processing the input message, an audit printout will follow.

RL Retry Later. Message could not be sent to the tape writer to stop the tape session. Try again later. If the problem persists, refer to the AMA-TOPS procedure for further resolution.

## 5. REFERENCES

Input Messages
ABORT:AMATAPE
OP:AMA-STREAM

Output Message
REPT:AMATAP-CO

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:ATPAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stop currently active ATP Node audit. This message goes directly to the ATP Node(s), which will respond with a status report message to the Audit Control Subsystem.

## 2. FORMAT

**STOP:ATPAUD** a;{**LN**b c|**ALL**}!

## 3. EXPLANATION OF MESSAGE

a — ATP audit member number:

1 — Idle Call Block List audit.
2 — Active Call Block audit.
3 — TSN Table audit.
4 — Timer Lists audit.
5 — Access Table audit.
6 — Ring Write Buffers audit.
7 — Internode (Call Blocks) audit.
8 — Database Pointers audit.

b — ATP group number.

c — ATP member number.

**ALL** — All ATP nodes.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— INVALID AUDIT
Invalid audit member number.

NG — No Good.

— ATPCM DOES NOT EXIST
The ATPCM process does not exist.
— OST CALL
Operating system trap call to ATPCM failed.
— UNKNOWN RESPONSE FROM ATPCM
ATPCM responded invalidly.

PF — Printout Follows. Followed by STOP:ATPAUD and AUD:ATP output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

`RL` Retry Later.

— `ATPCM CANNOT PROCESS REQUEST`
`ATPCM` cannot process the request.

## 5. REFERENCES

Output Messages
`AUD:ATP`
`STOP:ATPAUD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:ATPCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stop an **ATPCM** task from executing.

## 2. FORMAT

**STOP:ATPCM,**a**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Task number (1–66). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| OK | Good. Task successfully stopped. |
| RL | Retry Later. |

— ATPCM DOES NOT EXIST
The **ATPCM** kernel process is not running.

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops a currently active audit that is controlled by the computer System Integrity Monitor (SIM).

## 2. FORMAT

**STOP:AUD:**a b!

## 3. EXPLANATION OF MESSAGE

a — Audit name. See the Input Member Numbers Appendix, APP:MEM-NUM-B.

b — Member number. See the Input Member Numbers Appendix, APP:MEM-NUM-B.

## 4. SYSTEM RESPONSE

See the input Audit Appendix, APP:AUD. System Responses for Audit System Input Messages.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
APP:AUD
APP:MEM-NUM-B

Input Messages
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD-1
OP:AUD

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
AUD:CUMEM
AUD:CUSTAT
AUD:ECD
AUD:ECDOWN
AUD:FMGR1
AUD:FMGR2
AUD:FMGR3
AUD:FMGR4
AUD:FMGR5
AUD:FMGR6
AUD:FMGR7
AUD:FMGR8
AUD:FMGR9
AUD:FSBLK
AUD:FSCMPT
AUD:FSLINK
AUD:MMGR
AUD:MSGBUF
AUD:PMS
AUD:PROAD
OP:AUD
STOP:AUD
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:BKDISK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops the copying of the boot disk to tape.

## 2. FORMAT

**`STOP:BKDISK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. A fatal error was encountered because the system was unable to initiate the stop program. Try to initiate the message again. If the process still fails, seek technical assistance. |
| `PF` | Printout Follows. Followed by a `COPY:BKDISK` output message. |

## 5. REFERENCES

Input Message
`COPY:BKDISK`

Output Message
`COPY:BKDISK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:CMPR-MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops any `CMPR:MHD` commands that are currently executing.

## 2. FORMAT

**`STOP:CMPR;MHD!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. No `CMPR:MHD` input message currently executing. |
| `OK` | Good. Request accepted. |

## 5. REFERENCES

Input Message
`CMPR:MHD`

Output Message
`CMPR:MHD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:COPY-DIFF
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops any `COPY:DIFF;SRC` commands that are currently executing.

## 2. FORMAT

**`STOP:COPY;DIFF!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. No `COPY:DIFF;SRC` input commands are currently executing. |
| `OK` | Good. Request accepted. |

## 5. REFERENCES

Input Message
`COPY:DIFF-MHD`

Output Message
`COPY:DIFF-SRC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:DADC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Provides, when used with the `START:DADC` input message, a manual on/off switch for either a specific Direct Access Data Channel (**`DADC`**) link or the entire DADC capability.

## 2. FORMAT

[1] **`STOP:DADC;SDL`** `a!`

[2] **`STOP:DADC;FEATURE!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Synchronous Data Link (**`SDL`**) unit number. |
| **`FEATURE`** | The **`DADC`** capability is turned off. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. The input message was syntactically incorrect. |
| `PF` | Printout Follows. Output message `STOP:DADC` will follow. |

## 5. REFERENCES

Input Message
`START:DADC`

Output Messages
`START:DADC`
`STOP:DADC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message requests the currently executing Data Consistency Check (**DCC**) task be aborted.

Format 1 is used to abort all active **DCC** tasks.

Format 2 is used to abort a specific **DCC** task, namely the task running for the specified customer unit.

Format 2 is not allowed via remote login (eg. IRAS PINET session).

## 2. FORMAT

[1] **STOP:DCC!**

[2] **STOP:DCC,APP** a!

## 3. EXPLANATION OF MESSAGE

a — An APPDB customer unit name:

IBGTT

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
ACTV:DCC
ALW:DCC
DEACTV:DCC
INH:DCC
OP:DCC
START:DCC
VER:DCC

Output Message
STOP:DCC

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... STOP:DCI
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Sends an E_USR9 event to the Dual Serial Channel Interface (**DCI**) process, `/prc/bdj`. Upon receiving this event, this process terminates.

When `/prc/bdj` terminates itself, all **DCI** devices will be taken out of service after failing all jobs. Use `RST:DCI` to restart the process and return the devices to the active state.

## 2. FORMAT

**STOP:DCI!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `OK` | Good. Event sent to the **DCI** process port. The **DCI** process is terminated. |
| `RL` | Retry Later. Either `STOP:DCI` could not get the PID of the **DCI** process or it could not send an event to it. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`RST:DCI`
`RMV:DCI`

Output Messages
`RST:DCI`
`RMV:DCI`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:DCNAUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP14 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stop currently active D-Channel Node (DCN) audit.

## 2. FORMAT

**STOP:DCNAUD** a;**LN**b c!

## 3. EXPLANATION OF MESSAGE

a — DCN audit member number:

1 — Data Blocks audit.
2 — User Call Reference Value (CRV) Table audit.
3 — Network CRV Table audit.
4 — Channel ID Table audit.
5 — Idle Data Blocks List audit.

b — DCN group number.

c — DCN member number.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error. Missing or unrecognized argument.

— INVALID AUDIT
Invalid audit member number.
— GRP/MEM OUT OF RANGE
Invalid group or member number.

NG — No Good.

— DCNAP DOES NOT EXIST
The DCNAP process does not exist.

PF — Printout Follows. Followed by STOP:DCNAUD output message.

RL — Retry Later.

— SEND MSG TO DCNAP FAIL
Send message to DCNAP process failed.

## 5. REFERENCES

Output Message
STOP:DCNAUD

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . STOP:DLNCM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

**WARNING**
**Use of this input message may result in loss of service (calls).**

## 1. PURPOSE

Stop message transport for the Attach Processor Interface/Direct Link Node (API-DLN) stream or stop **DLNCM** tasks.

**STOP:DLNCM,STREAM** directs the API and/or DLN to stop scanning the API-DLN stream in a particular direction, either 1B outgoing, 1B incoming or both directions. If device and direction are not specified, then device and direction will be defaulted to BOTH.

**STOP:DLNCM,TASK** causes **DLNCM** to abort the task specified. The task is designated by a task ID number. This number may be obtained by using the OP:DLNCM,TASKS command which will print information about tasks that are active or have been active recently. The second highest order byte of the PROCID field output by the OP:DLNCM-TASKS message denotes the task ID number to be used when aborting the task. If there are multiple instances of the task all of them will be aborted.

## 2. FORMAT

[1] **STOP:DLNCM,STREAM**[;a;b]!

[2] **STOP:DLNCM,TASK** c!

## 3. EXPLANATION OF MESSAGE

a — Device:

- API — Attach Processor Interface.
- BOTH — Both devices.
- DLN — Direct Link Node.

b — Direction:

- BOTH — Both directions.
- ONEAIN — 1B incoming.
- ONEAOUT — 1B outgoing.

c — Task ID of the task to stop.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`NG` No Good.

— `DLNCM CANNOT PROCESS REQUEST`
Bad parameter passed to **`DLNCM`**.

— `OST CALL`
Operating system trap call to **`DLNCM`** failed.

— `UNKNOWN RESPONSE FROM DLNCM`
**`DLNCM`** responded invalidly.

`OK` Good.

`PF` Printout Follows.
Followed by a `STOP:DLNCM-STREAM` output message.

`RL` Retry Later.

— `CANNOT COMMUNICATE WITH DLNCM`
Cannot send request to **`DLNCM`**.

— `CNI PHASE/STOP TRAFFIC SEQ IN PROGRESS`
CNI phase and/or start traffic sequence in progress.

— `DLNCM DOES NOT EXIST`
The **`DLNCM`** process does not exist.

— `LOST COMM TO 1B`
Lost 1B communication.

— `NO TCBs AVAILABLE`
No task control blocks available to service request.

— `RING INITIALIZATION IN PROGRESS`
Ring initialization has started.

— `STREAM/DLN CONFIG IN PROGRESS`
API-DLN stream and/or DLNs are being configured.

— `UNKNOWN RESPONSE FROM DLNCM`
**`DLNCM`** responded invalidly.

— `TASK IS NOT ACTIVE`
The task to be aborted is not active.

## 5. REFERENCES

Input Message
`OP:DLNCM`

Output Messages
`OP:DLNCM-TASKS`
`STOP:DLNCM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... STOP:DMQ
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Stops the specified computer maintenance request. The request is identified by the unit name and number and optionally the subunit name and number. Any request handled by the Maintenance Input Request Administrator (MIRA) (restore, remove, diagnose) can be stopped by using this message.

## 2. FORMAT

**STOP:DMQ**[;[a b[,c d]][,**ACTIVE**|,**WAITING**]]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Unit name. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| b | Unit number. See the Input Member Numbers Appendix, APP:MEM-NUM-C. |
| c | Subunit name. If unit name is Control Unit (CU), see the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| d | Subunit number. See the Input Member Numbers Appendix, APP:MEM-NUM-D. |
| **ACTIVE** | Stop only active maintenance requests. |
| **WAITING** | Stop only waiting maintenance requests. |

**NOTE:** If neither **ACTIVE** nor **WAITING** is specified, then both requests will be stopped.

## 4. SYSTEM RESPONSE

?D — Data field contains an error. Followed by the parameter position and one of the following reasons:

— INVALID KEYWORD
The keyword in the stated parameter position is not a valid keyword.

?E — Error exists in the message but cannot be resolved to the proper field.

SEE PROPRIETARY NOTICE ON COVER PAGE

`?I` Identification field contains an error. Followed by the parameter position and one of the following reasons:

— `EXTRA KEYWORD`
Duplicate or extraneous keywords were input.

— `INVALID KEYWORD`
The keyword in the stated parameter position is not a valid keyword.

— `INCONSISTENT KEYWORD`
The combination of keywords is not a valid combination.

`PF` Printout Follows. Followed by a `STOP:DMQ` output message.

`RL` Retry Later. The system is in an overload condition.

## 5. REFERENCES

CIC Select Code 303-026 *Lucent Technologies 3B20D/3B21D Computer UNIX® RTR Operating System Diagnostics Programmer's Manual,* Volume 6

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Appendixes
`APP:MEM-NUM-C`
`APP:MEM-NUM-D`

Input Message
`OP:DMQ`

Output Messages
`OP:DMQ`
`STOP:DMQ`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . STOP:E-ANY
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Improper use of this command may cause unpredictable system failures.**

## 1. PURPOSE

Stops any process. The process can be killed either by specifying the Process ID (**`PID`**) number or the pathname.

**NOTE:** If a nonexistent process ID is used, the system prints a `STOPPED` message followed by the UNIX® RTR command `pkill` message.

## 2. FORMAT

**`STOP:EXC:ANY,{PID a|FN "b"},UCL!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | ID number of the process to be terminated. |
| `b` | Pathname of the file. See the *User Guidelines* in this document for definitions of pathname and file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `STOP:EXC-ANY` output message. |

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Input Messages
`OP:ST-PROC`
`STOP:E-USER`

Output Messages
`OP:ST-PROC`
`STOP:E-ANY`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . STOP:E-USER
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Use of this command to stop a monitored process will prevent it from being restarted automatically. The `INIT:ULARP` command can be used to restart ULARP and processes monitored by ULARP.**

## 1. PURPOSE

Stops a user process specified either by **`ID`** number or by pathname.

## 2. FORMAT

**`STOP:EXC:USER,{PID a|FN "b"}[,SIG c]!`**

## 3. EXPLANATION OF MESSAGE

**`PID`** Process ID.

`a` ID number of the process to be terminated.

**`FN`** File name.

`b` Pathname of the process to be terminated.

Pathname of the file. See the *User Guidelines* in this document for a definition of pathname.

`c` Signals (Default is `15` if **`PID`** is used and `9` if **`FN`** is used):

`1` — Hang up.
`2` — Interrupt.
`3` — Quit.
`4` — Illegal instruction not reset when caught.
`5` — Trace trap not reset when caught.
`6` — IOT instruction.
`7` — EMT instruction.
`8` — Floating point exception.
`9` — Kill cannot be caught or ignored.
`10` — Bus error.
`11` — Segmentation violation.
`12` — Bad argument to system call.
`13` — Write on a pipe with no one to read it.
`14` — Alarm clock.
`15` — Software termination signal.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `STOP:E-USER` output message.

## 5. REFERENCES

Display/Menu Page Name
`CRAFT FM 01`

Input Messages
`INIT:ULARP`
`OP:ST-PROC`
`STOP:E-ANY`

Output Messages
`OP:ST-PROC`
`STOP:E-USER`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:EVENTSESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops an event filter and print session of Automatic Message Accounting (AMA), previously in progress.

## 2. FORMAT

**`STOP:EVENTSESS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. May be that a verb was typed incorrectly or that a field delimiter was omitted. |
| `?I` | Identification field contains an error. The input message contained syntax errors which violated PDS shell message format rules. Check the message in the input document. |
| `PF` | Printout Follows. Message syntax was accepted and printout follows. |
| `RL` | Retry Later. |

## 5. REFERENCES

Input Message
`STOP:EVENTSESS`

Output Message
`REPT:STOP-EVENT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:FTA
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message requests the currently executing File Transfer and Activation (**FTA**) activation task be stopped.

## 2. FORMAT

**STOP:FTA,APP** a,**FILE** b!

## 3. EXPLANATION OF MESSAGE

a — The name of the **FTA** customer application whose file activation is to be stopped:

CORE

IBGTT

OBGTT — Refers to the PCP customer

b — A number indicating the activating command file to be stopped. Command files are numbered from 0 to 99. (See the OP:FTF input message for more details.)

## 4. SYSTEM RESPONSE

PF — Printout Follows.

## 5. REFERENCES

Input Messages
- ALW:FTA
- INH:FTA
- OP:FTA
- OP:FTF
- START:FTA

Output Messages
- ALW:FTA
- INH:FTA
- OP:FTA
- OP:FTF
- START:FTA
- STOP:FTA

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:GEN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops the computer system-update command in progress. Terminates the process associated with a previous `UPD:GEN` input message.

## 2. FORMAT

**`STOP:GEN[;UCL]!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** Unconditional execution. If the process cannot be terminated using termination or kill signals, it will be terminated by a more extreme method. In this case, some system resources in use by the process may not be released automatically.

## 4. SYSTEM RESPONSE

`NG` No Good. Process not initiated.

`PF` Printout Follows. Followed by a `STOP:GEN` output message.

## 5. REFERENCES

Input Messages
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

Output Messages
- `STOP:GEN`
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... STOP:LFS
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

Provides the capability to stop an active Link Fault Sectionalization (LFS) test initiated from the near-end; and then obtain results of loopback components for which the test is already completed.

The first field of this message is required. It identifies the links for which LFS tests are to be terminated.

## 2. FORMAT

**STOP:LFS** {**ALL**|(a,b[,c,d])}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **ALL** | Stops LFS tests on **ALL** links. |
| a | Link group number (0–63). |
| b | Link member number (1–15). |
| c | End group number for a range of links for which LFS tests are in progress (0–63). |
| d | End member number for a range of links for which LFS tests are in progress (0–15). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. EXC:LFS tests in progress on the specified links are stopped, and LFS information is sent to the Maintenance Terminal (MCRT) and Receive Only Printer (ROP). |

## 5. REFERENCES

Input Message
EXC:LFS

Output Message
STOP:LFS

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:NVTSESS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Stops a session for the request of Automatic Message Accounting (AMA) records previously in progress. This command message will not be accepted if there is no active request being processed or there is no checking for matched records.

## 2. FORMAT

**`STOP:NVTSESS!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `NO DATA VALUES ALLOWED IN MESSAGE`
Reenter message and check message format.

`OK` Good.

— `SESSION TERMINATING`

`RL` Retry Later.

— `NO NVT SESSION IS ACTIVE`
Or issue a start command to initiate search.
— `SESSION STOPPING OR FLUSHING`
— `STOP MESSAGE NOT SENT TO INTERFACE`
If problem persists, check software.

## 5. REFERENCES

Input Messages
`FLUSH:NVTREC`
`START:NVTSESS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:OFLBOOT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

To stop the **OFLBOOT** procedure. This input message can be used any time that the **OFLBOOT** procedure is in progress. It will stop the **OFLBOOT** procedure, and re-establish a duplex configuration. Optionally, it will submit requests to restore to service those units that were part of the off-line side.

## 2. FORMAT

**STOP:OFLBOOT:[RST][,TRACE]!**

## 3. EXPLANATION OF MESSAGE

**RST** If specified, requests will be submitted to restore units that were part of the off-line side.

**TRACE** This option should be used by authorized technical personnel only. It is for trouble shooting purposes, and will generate a significant amount of undocumented trace messages. The default is no trace message generated.

## 4. SYSTEM RESPONSE

?A Action field contains an error.

?E Error exists in the message but cannot be resolved to the proper field.

?I Identification field contains an error.

IP In Progress.

## 5. REFERENCES

Input Messages
EXC:OFLBOOT
SW:OFLBOOT

Output Messages
EXC:OFLBOOT
REPT:OFLBOOT
STOP:OFLBOOT
SW:OFLBOOT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:RCBUFGET
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message will stop the execution of a previously entered and executing `START:RCBUFGET` input command.

## 2. FORMAT

**`STOP:RCBUFGET!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Message
`START:RCBUFGET`

Output Message
`STOP:RCBUFGET`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:RCBUFPUT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This input message will stop the execution of a previously entered and executing `START:RCBUFPUT` command.

## 2. FORMAT

**`STOP:RCBUFPUT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Message
`START:RCBUFPUT`

Output Message
`STOP:RCBUFPUT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... STOP:TRAP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,CNI
TYPE ..... Input

## 1. PURPOSE

The **STOP:TRAP** command allows a trap to be stopped or removed from the internal database. Also, disk space can be initialized or set to no overwrite upon wrap around of the circular buffer space.

Format 1: Traps will be stopped for the specified identification numbers or **ALL**. Note that these traps cannot be activated via an ALW:TRAP command. Status or results of these stopped traps can be obtained via an OP:TRAP command.

Format 2: **RMTID** (Remove Trap Id). Traps will be permanently removed from the internal database for the specified identification numbers or **ALL**. Also, active or inhibited traps that are to be removed must have been stopped with a **STOP:TRAP** command prior to being removed. No trap status or results can be obtained as these traps have been deleted from the database. Format 3: **INIT**. Initialization of disk space. This allows for the entire disk space to be freed. If **Y** is given, all trapped messages that have been collected will be discarded. All active traps will be inhibited and information collected prior to a disk initialization will be discarded. All completed, aborted and terminated traps will be removed from the internal database. No system action will be taken if **N** is specified.

Format 4: **OVRWT**. Disk Overwrite. This allows for the contents of the disk to be overwritten if necessary. If **Y** is given, all ensuing trapped messages collected may be overwritten. Disk overwrite will remain active unless otherwise specified by this command. If **N** is given, all ensuing trapped messages on the disk will not be overwritten.

## 2. FORMAT

[1] **STOP:TRAP;ID** {a|(a,b,c)|**ALL**}!

[2] **STOP:TRAP;RMTID** {a|(a,b,c)|**ALL**}!

[3] **STOP:TRAP;INIT** {**Y**|**N**}!

[4] **STOP:TRAP;OVRWT** {**Y**|**N**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a,b,c | Trap identification number or numbers. This can be specified as a single id, a list of ids or all ids. |
| **ALL** | All trap identification numbers. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
- `ALW:TRAP`
- `SET:TRAP`

Output Messages
- `OP:TRAP`
- `STOP:TRAP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . STOP:UPD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Terminates or interrupts the updating of the software of all D-channel nodes or a single D-channel node before the update procedure has been completed.

## 2. FORMAT

**STOP:UPD;DCHN,{LN**a b|**ALL}!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The group number of the link node. The valid range is 00 to 63. |
| b | The member number of the link node. The valid range is 1 to 15. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. |
| ?D | Data field contains an error. |
| ?I | Identification field contains an error. |
| PF | Printout Follows. Followed by the STOP:UPD output message. |
| RL | Retry Later. Request cannot be executed now due to unavailable system resources. |

## 5. REFERENCES

Input Messages
OP:UPD
UPD:DCHN

Output Messages
OP:UPD
REPT:UPD-DCHN
STOP:UPD
UPD:DCHN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:ATP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Software switch the active and standby `ATP` nodes.

## 2. FORMAT

**`SW:ATP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `ATPCM DOES NOT EXIST`
The `ATPCM` process does not exist.
— `OST CALL`
Operating system trap call to `ATPCM` failed.
— `ATPCM CAN NOT PROCESS REQUEST`
Bad parameter passed to `ATPCM`.

`PF` Printout Follows. Request accepted. Followed by `SW:ATP` output message.

`RL` Retry Later.

— `RING INITIALIZATION IN PROGRESS`
Ring initialization has started.
— `UNKNOWN RESPONSE FROM ATPCM`
`ATPCM` responded invalidly.

## 5. REFERENCES

Output Message
`SW:ATP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:CLOCK
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

## 1. PURPOSE

Requests that the mate network clock node be switched to the master network clock node.

The **SW:CLOCK** user command will attempt to validate the input command by first checking the syntax of the command and then by determining if the request is valid. If the **STATUS** data field is used, **SW:CLOCK** will output the point codes associated with the master and mate clock nodes if they are assigned. If the master clock node is known, it will be marked with `'*'`. If the master and mate clock nodes are not assigned, the following message will be output. `MASTER/MATE POINT CODES: UNASSIGNED`

If the **STATUS** data field is not used, certain checks of the current status of the office are made. For the switch to be performed, neither the master nor mate point codes can equal "000000000". This condition would occur if the "`clkdata`" disk file does not exist or if it contains all zeroes for the point codes. If this condition is detected, the following message will be output. `NETWORK CLOCK DATA DOES NOT EXIST`

Additionally, for the switch to be performed, IMS messages must be allowed to be transmitted. They are not allowed if the office has not successfully completed an initialization of level 1 or higher. If this condition is detected, the following message will be output. `CLOCK MESSAGES ARE NOT ENABLED`

The last remaining check to be made is that the office is the mate clock. If the office is not currently the mate clock, the following message will be output. `CURRENT NODE MUST BE THE MATE CLOCK`

If the **STATUS** data field is not used, the mate clock node will become the master clock node and will broadcast the change to all member nodes in the CCS network. This command can only be entered at the mate clock node. The status of the clock information can be verified by including the **STATUS** data field. The status information is the master/mate clock node point codes or a message if the data is not assigned. If the point codes are displayed and the master has been determined, it will be determined with an asterisk (`'*'`).

## 2. FORMAT

**SW:CLOCK**[**:STATUS**]**!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Practice 256-090-121 *CNI Operations Manual* - Measurements, Reports, and Critical Events Section

Output Message
`SW:CLOCK`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:CU
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Causes a graceful switch of the active/standby status of the computer Control Units (**CU**s). The **CU** switch is attempted only if the non-active **CU** major status is standby.

## 2. FORMAT

**SW:CU!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. The **CU**s were not switched because the non-active **CU** is not in an acceptable state. |
| PF | Printout Follows. Followed by an SW:CU output message. |

## 5. REFERENCES

Display/Menu Page Name
COMMON PROCESSOR DISPLAY

Input Message
OP:OOS

Output Messages
OP:OOS
SW:CU

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... SW:DLN
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Software switch an active with a standby Direct Link Node (**DLN**).

Two **DLNs** are specified, the one must be active and the other standby.

## 2. FORMAT

**SW:DLN,LN**a b**,LN**a b**!**

## 3. EXPLANATION OF MESSAGE

a — **DLN** group number.

b — **DLN** member number.

## 4. SYSTEM RESPONSE

NG — No Good.

— DLNCM CANNOT PROCESS REQUEST
Bad parameter passed to DLNCM.
— OST CALL
Operating system trap call to DLNCM failed.
— UNKNOWN RESPONSE FROM DLNCM
DLNCM responded invalidly.

PF — Printout Follows. Followed by SW:DLN output message.

RL — Retry Later.

— CANNOT COMMUNICATE TO DLNCM
Cannot send request to DLNCM.
— CNI PHASE/INIT TRAFFIC SEQ IN PROGRESS
CNI phase and/or start traffic sequence in progress.
— DLNCM DOES NOT EXIST
The DLNCM process does not exist.
— LOST COMM TO 1A
Lost 1B communication.
— NO TCBs AVAILABLE No task control blocks available to service request.
— RING INITIALIZATION IN PROGRESS
Ring initialization has started.
— STREAM/DLN CONFIG IN PROGRESS
API-DLN stream and/or DLNs are being configured.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Message
`SW:DLN`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:OFLBOOT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

To perform a call processing side switch. This input message may be used only after an `REPT OFLBOOT BOOT COMPLETED` message has been received.

This command may be used to switch call processing to the other side. After the switch, call processing is handled by the new on-line side, and the previous on-line side becomes the off-line side. The system remains split.

The input message `STOP:OFLBOOT` must be used to return to duplex configuration.

There are some restrictions the user must follow for this input message to execute successfully:

- There should be no diagnostic activities running.
- The MTTY and ROP port selector switches must be in the AUTO position and the portswitch controller must be powered on.

## 2. FORMAT

**`SW:OFLBOOT:[,UCL][,TRACE]!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** If specified, some application precheck results will be overridden. The RTR precheck results will not be overridden. The default is enforce all precheck results.

**`TRACE`** This option should be used by authorized technical personnel only. It is for trouble shooting purposes, and will generate a significant amount of undocumented trace messages. The default is no trace message generated.

## 4. SYSTEM RESPONSE

`?A` Action field contains an error.

`?E` Error exists in the message but cannot be resolved to the proper field.

`?I` Identification field contains an error.

`IP` In Progress.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
EXC:OFLBOOT
STOP:OFLBOOT
```

Output Messages

```
EXC:OFLBOOT
REPT:OFLBOOT
STOP:OFLBOOT
SW:OFLBOOT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . SW:PORTSW
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a switch of the Maintenance Teletypewriter Controller's (MTTYC's) Receive-Only Printer (`ROP`) and/or Maintenance Teletypewriter (`MTTY`) to the alternate MTTYC and a switch of the active/standby status of the `MTTY` and/or `ROP`. The switch can succeed only if the alternate MTTYC and its `MTTY` and/or `ROP` are in an acceptable state. If no switchable device is specified, both the `MTTY` and `ROP` are switched to the alternate MTTYC.

## 2. FORMAT

**`SW:PORTSW`**`[:a]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Port switchable subdevice name: |
| | `MTTY` — Maintenance Teletypewriter |
| | `ROP` — Receive-Only Printer |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. Extra keywords. |
| `NG` | No Good. Bad open on Equipment Configuration Database (ECD) or the subdevice must be `MTTY` or `ROP`. |
| `PF` | Printout Follows. Followed by an `SW:PORTSW` output message. |

## 5. REFERENCES

Display/Menu Page Name
`COMMON PROCESSOR DISPLAY`

Output Message
`SW:PORTSW`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:APPDL
WORK CENTER.. MOC
GENERIC ..... 4AP16 Rel. 2 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Format 1, change the Synchronous Data Link (SDL) port name on the Application Data Link (APPDL) page 114 and Synchronous Data Link Controller (SDLC) page 115.

Format 2, dump the contents of the data file.

Format 3, refresh both APPDL page 114 and SDLC page 115.

## 2. FORMAT

[1] **UPD:APPDL;SDL**a b**;SID** c**!**

[2] **UPD:APPDL;DUMP!**

[3] **UPD:APPDL;REFRESH!**

## 3. EXPLANATION OF MESSAGE

a — SDL number (00–99).

b — The text part of the input stream for a requested port name change to the designated numbered SDL. Two double quote marks, "", can be used to clear the SDL's port name.

c — The Service Identification (SID) daily password.

## 4. SYSTEM RESPONSE

?I — Identification field contains an error.

— KEY WORD x IS ILLEGAL, EXPECTED SID
Key work SID was not entered, the user has entered x word instead.

— KEY WORD x IS ILLEGAL, EXPECTED SDLnn or DUMP or REFRESH
One of the key words DUMP, REFRESH, or SDLnn was not entered. Where nn is a two digit number between 00 - 99.

— TEXT MISSING
The user has entered SDLnn but has not entered any text. Two double quote marks, "", can be used to clear the SDLnn ports name. Where nn is a two digit number between 00 - 99.

SEE PROPRIETARY NOTICE ON COVER PAGE

`NG` No Good.

— `KEY WORD MISSING; EXPECTED SDLnn or DUMP or REFRESH`
One of the key words DUMP, REFRESH, or SDLnn was not entered. Where nn is a two digit number between 00 - 99.

— `KEY WORD MISSING; EXPECTED SID`
The user has failed to enter the key word SID.

— `SID PASSWORD MISSING`
The user has not entered the required daily password. The user can enter the password in decimal, octal, or hexadecimal numbers.

`PF` Printout Follows. `UPD:APPDL` output message will follow. All command line parsing has been checked and this program believes that everything is correct.

## 5. REFERENCES

Output Message
`UPD:APPDL`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:APPL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Provides a communication interface to the Application Retrofit Process (APPLHOOK) that is used to map application specific information between 3B generics.

## 2. FORMAT

**UPD:APPL;{NEW|OLD|CONTINUE|ABORT|STOPAMA}!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **NEW** | Forces the APPLHOOK to select the new database during retrofit. |
| **OLD** | Forces the APPLHOOK to select the old database during retrofit. |
| **CONTINUE** | Continues the APPLHOOK after a previous application **ABORT**. |
| **ABORT** | Aborts the APPLHOOK. |
| **STOPAMA** | Forces the APPLHOOK to stop the AMA receiver and flush the receiver buffer to disk. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. Invalid identification keyword. |
| PF | Printout Follows. UPD:APPL output message will follow. |
| RL | Retry Later. The APPLHOOK process is already executing. |

## 5. REFERENCES

Output Messages
UPD:APPLY
UPD:APPLY-FILER
UPD:APPLY-FUNCR

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:APPLY-BYTER
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This message overwrites data in core memory. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.**

## 1. PURPOSE

Requests application of a byte replacement update associated with a software update. **BYTER** writes into sequential memory locations in processes.

Used for 3B20D/3B21D (3B) updates only.

## 2. FORMAT

```
UPD:APPLY:BYTER,UPNM "aaabb-cccc",FN "d",ADDR e,DATA f,OLDDATA g
      [,UCL][,WTIME "h"]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Category of software update: |
| | BWM — Broadcast Warning Message. |
| | CFT — Craft. |
| | TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |
| d | The name of the file to be changed, specified by the pathname. Refer to the *System Maintenance Manual* for definitions of file and pathname. |
| e | The starting address (in decimal) of the overwrite, which must be on a word boundary. |
| f | The overwrite that will be placed at starting address given. Each overwrite must be four bytes long. A list of up to 32 overwrites may be entered. The order they are entered is the order in which they will be written into the file. |
| g | Expected contents of the locations to be overwritten. Old contents must be given for every overwrite entered. The order they are entered will be the order they are compared to the contents in the file, starting at address given. |
| **UCL** | Do not enforce order on the software update name. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`h` The number of seconds Wait Time (**`WTIME`**), for the automatic backout wait (`0-3600` seconds, default: `300`). This parameter is only applicable when the name is non-killable.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:COMMAND` output message.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:BKOUT`
`UPD:DISPLAY`
`UPD:OFC`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:APPLY-FILER
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This message overwrites data in system files. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.**

## 1. PURPOSE

Requests application of a file replacement update associated with a software update. **`FILER`** replaces an old file with a new one. The new file retains the old file's characteristics (mode, owner, etc.).

Used for 3B20D/3B21D (3B) updates only.

## 2. FORMAT

**`UPD:APPLY:FILER,UPNM`** `"aaabb-cccc"`**`,FN`** `"d"`**`,UF`** `"e"[`**`,NREL`**`][`**`,UCL`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |
| `d` | Pathname of the file to be replaced. Refer to the *System Maintenance Manual* for definitions of pathname and file. If the file does not exist it will be created. |
| `e` | Name of the source file in the software update package. |
| **`NREL`** | Forces a file replacement of `d` by `e` when the file types are different in their magic numbers or when one is in common object file format and the other is not. |
| **`UCL`** | Do not enforce order on the software update name. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Names

```
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:APPLY-FUNCR
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**This message overwrites data in system files and in core memory. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.**

## 1. PURPOSE

Requests application of a function replacement update associated with a software update.

Used for 3B20D/3B21D (3B) updates only.

## 2. FORMAT

```
UPD:APPLY:FUNCR,UPNM "aaabb-cccc",FN "d",{UF "e"|UFFN "f"}[,UCL]
      [,WTIME "g"]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |
| `d` | Pathname of the file to be modified. Refer to the *System Maintenance Manual* for definitions of pathname, directory and files. |
| `e` | Pathname of update file. May be the name of a single .m file. |
| `f` | Name of the file containing list of .m files for this update. |
| **`UCL`** | Do not enforce order on the BWM name. |
| `g` | The number of seconds Wait Time (`WTIME`), for the automatic backout wait (`0-3600` seconds, default: `300`). This parameter is only applicable when the pathname is non-killable. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. Followed by a `UPD:COMMAND` output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Names

```
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:APPLY-UNIX
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**

**This message overwrites data in system files and is automatically executed, if needed, when 9310 or 9410 is poked from 1960 page or 9800 is poked from 1940 page. It should not be used without expert technical assistance unless it is part of a prescribed software update procedure.**

## 1. PURPOSE

Requests update to the software update database (Cud) after the successful execution of the first command preceding the first `UPD:APPLY` message in the APPLY section of the MSGS file in a Software Update (SU).

This command is not part of the MSGS file and is automatically executed during the Software Update process. If there is no command preceding the first `UPD:APPLY` line in the MSGS file, this command will not be executed.

## 2. FORMAT

**`UPD:APPLY:UNIXCMD,UPNM`** `"aaabb-cccc"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` output message. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
UPD:BKOUT
UPD:DISPLAY
UPD:OFC
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:AUTO
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the status of Software Update (SU) process automation be determined and/or changed. This input message may be used to allow, **CANCEL**, Inhibit (**INH**), **RESUME**, **STOP**, or request the current **STATUS** of SU process automation.

## 2. FORMAT

**UPD:AUTO:{INH,[REASON** a**]|ALW|STATUS|STOP|RESUME|CANCEL}!**

## 3. EXPLANATION OF MESSAGE

**INH** Inhibit SU process automation. This prevents an SU from being scheduled for automatic installation.

a Reason that the office is inhibiting SU process automation Maximum length is 50 characters.

**ALW** Allow SU process automation. This allows an SU to be scheduled for automatic installation.

**STATUS** Show the current status of SU process automation. If the process is inhibited, this option shows the reason it is inhibited by displaying the contents of the reason field.

**STOP** Stop the automated SU installation that is currently in progress.

**NOTE:** This causes an office alarm (MAJOR or MINOR alarm, as set in the SU automation office profile).

**RESUME** Resume a previously stopped or aborted automated SU installation.

**NOTE:** This should NEVER appear in an SU MSGS file, and it should only be used to resume an automated SU installation that was previously stopped or aborted.

**CANCEL** Cancel the automatic SU installation that is currently scheduled, as seen on the 1941 display page. May also be used to cancel an SU that has stopped.

## 4. SYSTEM RESPONSE

PF Printout Follows. The request has been accepted, and a UPD:AUTOMATION output message follows.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Display/Menu Page Names

```
1941 (SU AUTOMATION SCHEDULING)
1942 (SU AUTOMATION OFFICE PROFILE)
1943 (SU AUTOMATION HEALTH CHECK)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:AUTOCHK
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Output Message

```
UPD:AUTOMATION
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:AUTOCHK
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Resuests that an office health check be performed **`UPD:AUTOCHK`** or requests that the results of the last office health check be displayed **`UPD:AUTOCHK:STATUS`**.

## 2. FORMAT

**`UPD:AUTOCHK:`**[**`STATUS`**]**`!`**

## 3. EXPLANATION OF MESSAGE

**`STATUS`** Show the status of the last office health check that was performed.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:AUTOCHK` output message.

## 5. REFERENCES

Display/Menu Page Names

```
1941 (SU AUTOMATION SCHEDULING)
1942 (SU AUTOMATION OFFICE PROFILE)
1943 (SU AUTOMATION HEALTH CHECK)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:AUTO
UPD:AUTOPROFILE
UPD:AUTOSCHED
```

Output Messages

```
UPD:AUTOCHK
UPD:AUTOMATION
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:AUTOPROFILE
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the Software Update (SU) process automation office profile be changed according to the arguments and values specified in the input message. This SU process automation office profile is used when an SU is scheduled to be automatically installed. The values contained in the office profile are used as defaults when an SU is scheduled in the case where other information is not given.

For example, if an SU is scheduled for automatic installation and no installation state is specified, then the installation state defaults to what is listed in the office profile (`a` in this case).

**NOTE:** The valid values allowed for each argument are listed with the description of each argument.

## 2. FORMAT

```
UPD:AUTOPROFILE:{[INSTATE "a"][,SOAKTM b][,ALARMLVL "c"]
[,CSCANS "d"][,WARNTM e][,CLRBWM "f"][,SUNOFF (g,h)]
[,MONOFF (g,h)][,TUEOFF (g,h)][,WEDOFF(g,h)][,THUOFF (g,h)]
[,FRIOFF (g,h)][,SATOFF (g,h)][,HCON i][,HCOFF j][,HCINFO k]}!
```

## 3. EXPLANATION OF MESSAGE

`a` The install state:

`OFC`

`SOAK`

`VFY`

`b` The length of soak time desired for an SU that is automatically installed in the form `HHMM`.

`HH` — Hours.

`MM` — Minutes.

`c` The alarm level that should go off when an automated SU installation halts for any reason:

`MAJOR`

`MINOR`

`d` State indicating whether or not SU process automation update office profile commands may be issued over the CSCANS interface (`Y` or `N`).

SEE PROPRIETARY NOTICE ON COVER PAGE

`e` The time interval before SU automation starts that a warning message is desired in the form `HHMM`.

`HH` — Hours.

`MM` — Minutes.

For example, if set to `0030` then a warning message prints out and an office alarm goes off 30 minutes before a scheduled SU begins automatic installation.

`f` State indicating whether or not SU process automation should remove the SU after it has completed the make official stage (`Y` or `N`).

`g` The beginning of the time interval that SU automation is not allowed, for the given day.

`h` The end of the time interval that SU automation is not allowed, for the given day.

`i` A number indicating the health check condition that should be turned ON.

`j` A number indicating the health check condition that should be turned OFF.

`k` A number indicating a health check condition for which more information is desired.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:AUTOMATION` output message.

## 5. REFERENCES

Display/Menu Page Names

```
1941 (SU AUTOMATION SCHEDULING)
1942 (SU AUTOMATION OFFICE PROFILE)
1943 (SU AUTOMATION HEALTH CHECK)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:AUTO
UPD:AUTOCHK
UPD:AUTOSCHED
```

Output Message

```
UPD:AUTOMATION
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:AUTOSCHED
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the named Software Update (SU) be scheduled for automatic installation or requests the status of the currently scheduled SU.

## 2. FORMAT

**UPD:AUTOSCHED:{STATUS|[UPNM** "a"**][,DATE** "b"**][,TIME** "c"**][,STATE** "d"**]}!**

## 3. EXPLANATION OF MESSAGE

**STATUS** Show the status of the SU currently scheduled for automatic installation, if any.

a The 10 character software update name.

b The date to automatically install the SU in the form MMDDYY.

MM — Month.

DD — Day.

YY — Year.

c The time to automatically install the SU in the form HHMM.

HH — Hour.

MM — Minute.

d The install state to automatically install the SU:

OFC

SOAK

VFY

## 4. SYSTEM RESPONSE

PF Printout Follows. The request has been accepted. Followed by a UPD:AUTOMATION output message.

## 5. REFERENCES

Display/Menu Page Names

```
1941 (SU AUTOMATION SCHEDULING)
1942 (SU AUTOMATION OFFICE PROFILE)
1943 (SU AUTOMATION HEALTH CHECK)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:AUTO`
`UPD:AUTOCHK`
`UPD:AUTOPROFILE`

Output Message
`UPD:AUTOMATION`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:BKOUT
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that software updates be backed out. Software updates can be backed out only in the reverse order in which they were applied.

## 2. FORMAT

**UPD:BKOUT:{UPNM** "aaabb-cccc"|**ALL**}[**,OFC**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Category of software update: |
| | BWM — Broadcast Warning Message. |
| | CFT — Craft. |
| | TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |
| **ALL** | Remove all temporary software updates active in the system. |
| **OFC** | Backout software update a even though it is official. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted. Followed by one or more UPD:COMMAND output messages. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:DISPLAY

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`UPD:COMMAND`

`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:BLDBOOT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**All existing data in the targeted boot image will be destroyed.**

## 1. PURPOSE

Calls Incremental System Generation (ISGEN) to rebuild the computer minimum-configuration or full-configuration boot image.

## 2. FORMAT

**`UPD:BLDBOOT`**`[:[`**`BOOTIMAGE`** `"a"][,`**`SGDB`** `"b"][,`**`SGEN`** `"c"][,`**`SHADOW`** `"d"]]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Specifies which boot image should be regenerated. The default `/dmert` rebuilds the minimum-configuration boot image; to rebuild the full-configuration boot image, use `/appdmert`.

`b` The System Generation (SG) database to be used in building the boot image. The default database for the minimum-configuration boot image is `/database/dmert.sg`. The default database for the full-configuration boot image is `/database/appdmert.sg`.

`c` Pathname of the process to be executed to build the boot image. See the *User Guidelines* in this document for definitions of pathname and file. The default process pathname is `/bin/isgen`.

`d` Pathname of a file used in building the boot image. The file ensures availability of contiguous space and is essential to safe updating of the boot image. The default shadow file is `/..dmert`.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `UPD:` output message.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:BLOCK
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that an official software update be blocked or inhibited from being backed out. This message blocks the software update from being backed out and also blocks any other software updates below the one specified.

The **`UPD:BLOCK`** message should only be used when a software update name is specified. If it is necessary to block all software updates that have been made official, the **`UPD:BLOCK`** message should be used with the last software update that has been made official. This would block the last official software update and all previous official software updates.

## 2. FORMAT

**`UPD:BLOCK:UPNM`** `"aaabb-cccc"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. Followed by one or more `UPD:COMMAND` output messages. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:BKOUT`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`UPD:COMMAND`

`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:BOLO
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the last official software update be backed out. No more than three official software updates are permitted to be backed out. The three software update names are listed on MCC Display Page 1950 next to indicators showing the back-out level of each software update. The LAST OFC software update was most recently applied and made official. The 2nd FROM TOP software update was made official before the LAST OFC software update. The 3rd FROM TOP software update was applied and made official before both the 2nd FROM TOP software update and the LAST OFC software update.

As a new software update is made official, it becomes the LAST OFC software update, and the previous LAST OFC and 2nd FROM TOP software updates are moved down to be the 2nd FROM TOP and 3rd FROM TOP software updates, respectively. The previous 3rd FROM TOP software update can no longer be backed out, and is therefore removed from the list of software updates permitted to be backed out.

Executing this input message (**`UPD:BOLO`**) in effect requests the back-out of the LAST OFC software update. Upon successful completion, the back-out removes the LAST OFC software update from the list of software updates permitted to be backed out and moves the 2nd FROM TOP and 3rd FROM TOP software updates up to be the new LAST OFC and 2nd FROM TOP software updates, respectively. After an official back-out there is no 3rd FROM TOP software update because one of the three software updates which could be backed out has been backed out. A software update name is added to the back-out list only when that software update is made official on the switch.

## 2. FORMAT

**`UPD:BOLO!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. Followed by one or more `UPD:COMMAND` output messages. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

SEE PROPRIETARY NOTICE ON COVER PAGE

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BKOUT
UPD:DISPLAY
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:BWMNIO
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B-APS
TYPE . . . . . Input

## 1. PURPOSE

Allows Broadcast Warning Messages (BWMs) to be applied out of order.

## 2. FORMAT

**`UPD:BWMNIO`** `abb-cccc!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Catagory of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?I` | Identification field contains an error. Invalid identification keyword. |
| `PF` | Printout Follows. Followed by message confirming copy. |

## 5. REFERENCES

None.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CHG-APPLY
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Request to change the name of the apply software update for the EASY SU process (MCC Page 1940).

## 2. FORMAT

**UPD:CHG:APPLY** {"aaabb-cccc"|**none**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Category of software update: |
| | CFT — Craft. |
| | TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| NG | No Good. The software update name entered is invalid. |
| PF | Printout Follows. The request has been accepted. |

## 5. REFERENCES

Display/Menu Page Name
1940 (EASY SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
UPD:CHG-BKOUT
UPD:CHG-INST
UPD:START-EASY

Output Messages
UPD:COMMAND
UPD:REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CHG-BKOUT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Request to change the name of the backout software update for the EASY SU process (MCC Page 1940).

## 2. FORMAT

**`UPD:CHG:BKOUT`** `{"aaabb-cccc"|`**`none`**`}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The software update name entered is invalid. Refer to the description for `a`. |
| `PF` | Printout Follows. The request has been accepted. |

## 5. REFERENCES

Display/Menu Page Name
`1940 (EASY SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:CHG-APPLY`
`UPD:CHG-INST`
`UPD:START-EASY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CHG-INST
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Request to change the name of the install software update for the EASY SU process (MCC Page 1940).

## 2. FORMAT

**`UPD:CHG:INST`** `"aaabb-cccc"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The software update name entered is invalid. The request has been rejected. |
| `PF` | Printout Follows. The request has been accepted. |

## 5. REFERENCES

Display/Menu Page Name
`1940 (EASY SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:CHG-APPLY`
`UPD:CHG-BKOUT`
`UPD:START-EASY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CHG-SKTM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Request to change the soak timer interval for the install SU in the EASY SU process (MCC Page 1940).

## 2. FORMAT

**`UPD:CHG:SKTM (a,b)!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | The number of hours the soak interval timer should run for the install software update (`0-99`). |
| `b` | The number of minutes the soak interval timer should run for the install software update (`0-59`). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. |

## 5. REFERENCES

Display/Menu Page Name
`1940 (EASY SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:START-EASY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:CLR
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**
**Incorrect use of this message can result in the removal of needed files.**

## 1. PURPOSE

Requests that one or more software updates be cleared from the 3B software update directory.

## 2. FORMAT

**`UPD:CLR:BWM`** `"aaabb-cccc"[-"aaabb-cccc"[-"aaabb-cccc"...]]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:CLRBWM`
`UPD:OFC`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CLRBWM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that a software update that has already been installed and made official be cleared from the `/etc/bwm` directory.

## 2. FORMAT

**`UPD:CLRBWM:BWM`** `"aaabb-cccc"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The message was not accepted. Software update was not found. |
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` output message. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:CLR`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CSCANS-REPT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a report containing the current status of the active file receiving process for the Customer Service Computer Access Network Standards (**CSCANS**) interface.

## 2. FORMAT

**UPD:CSCANS:REPORT!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

PF — Printout Follows. The request has been accepted, and a UPD:CSCANS-REPT output message will follow.

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
UPD:CSCANS-STOP
UPD:INITPW

Output Messages
UPD:COMMAND
UPD:CSCANS
UPD:CSCANS-REPT
UPD:REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:CSCANS-STOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the download of software update files from a remote source be terminated. If file transmission has begun, a session-disconnect message is sent to the remote end to notify the Customer Service Computer Access Network Standards (**CSCANS**) machine of the termination.

## 2. FORMAT

**UPD:CSCANS:STOP!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted, and a UPD:CSCANS output message will follow. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
UPD:CSCANS-REPT

Output Messages
UPD:CSCANS
UPD:CSCANS-REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:DCHN
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**

**The use of the '`UPDGSFN "c"`' option should be limited for emergency situations when a new node load is to be downloaded into a D-channel (DCHN) and should be used in consultation with technical support.**

**Improper use of this option may remove the DCHN node from service.**

**It is not recommended that the craft use this option.**

## 1. PURPOSE

Initiates the updating of the software of a single D-channel node.

## 2. FORMAT

```
UPD:DCHN,{LNa b}[;UPDGSFN "c"]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | The group number of the link node (`00-63`). |
| `b` | The member number of the link node. (`1-15`). |
| `c` | Optional full path name of the Generic Specification File. The file name must be in double quotation marks and is limited to no more than 256 characters. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. |
| `?D` | Data field contains an error. |
| `?I` | Identification field contains an error. |
| `PF` | Printout Follows. Followed by an `UPD:DCHN` or an `REPT:UPD-DCHN` output message. |
| `RL` | Retry Later. Request cannot be executed now due to unavailable system resources. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
OP:UPD
STOP:UPD
```

Output Messages

```
OP:UPD
REPT:UPD-DCHN
STOP:UPD
UPD:DCHN
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:DISPLAY
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that information about software updates be displayed. The updates are selected on the basis of parameters which supply cumulative restrictions.

## 2. FORMAT

**UPD:DISPLAY**[**:UPNM** "a"][**,STATUS** b][**,BACKLOG**][**,SUM**][**,V**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Software update name. |
| b | Status of update or software update:<br>OFC — Official.<br>TMP — Temporary. |
| **BACKLOG** | Updates that are in the Backlog Update Database (BUD) file. |
| **SUM** | A short summary of the last official Broadcast Warning Message(BWM), Craft (CFT), and Temporary (TMP) software updates. |
| **V** | A detailed version (verbose) of all updates on the switch. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted. Followed by a UPD:DISPLAY output message. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:BLDBOOT
UPD:OFC

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`UPD:COMMAND`
`UPD:DISPLAY`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:DISPLYUPD
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a display of the first portion of the specified section of the Software Update (SU) MSGS file on the MCC 1960 page for the SU that is currently loaded (using the `UPD:UPNAME` input message) on that page.

## 2. FORMAT

**`UPD:DISPLYUPD:{APPLY|BKOUT|FILE|OFC|SOAK}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`APPLY`** | Display the **`APPLY`** section of the MSGS file. |
| **`BKOUT`** | Display the **`BKOUT`** section of the MSGS file. |
| **`FILE`** | Display all sections of the MSGS file. |
| **`OFC`** | Display the **`OFC`** section of the MSGS file. |
| **`SOAK`** | Display the **`SOAK`** section of the MSGS file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good.<br>— Software update name has not been entered via `UPD:UPNAME` command.<br>— Software update was not found. |
| `PF` | Printout Follows. |

## 5. REFERENCES

Display/Menu Page Name
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:EXALL
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests execution of all messages in the specified section.

## 2. FORMAT

**`UPD:EXALL:{APPLY|SOAK|OFC|BKOUT}[,UCL]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`APPLY`** | Execute messages in the **`APPLY`** section of the MSGS file. |
| **`SOAK`** | Execute messages in the **`SOAK`** section of the MSGS file. |
| **`OFC`** | Execute messages in the **`OFC`** section of the MSGS file. |
| **`BKOUT`** | Execute messages in the **`BKOUT`** section of the MSGS file. |
| **`UCL`** | Execute messages unconditionally without checking software update sequences. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The message was not accepted because either software update name has not been entered via the `UPD:UPNAME` input message or software update was not found. |
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` or a `UPD:REPT` output message. |

## 5. REFERENCES

Display/Menu Page Name
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:EXNXT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests execution of the next message command pointed to in the Software Update (SU) MSGS file in the specified section.

## 2. FORMAT

**UPD:EXNXT:{APPLY|SOAK|OFC|BKOUT}[,UCL]!**

## 3. EXPLANATION OF MESSAGE

**APPLY** Execute messages in the **APPLY** section of the MSGS file.

**SOAK** Execute messages in the **SOAK** section of the MSGS file.

**OFC** Execute messages in the **OFC** section of the MSGS file.

**BKOUT** Execute messages in the **BKOUT** section of the MSGS file.

**UCL** Execute messages unconditionally without checking software update sequences.

## 4. SYSTEM RESPONSE

NG No Good. The message was not accepted because either software update name has not been entered via the UPD:UPNAME input message or software update was not found.

PF Printout Follows. Followed by a UPD:COMMAND or a UPD:REPT output message.

## 5. REFERENCES

Display/Menu Page Name
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
UPD:UPNAME

Output Messages
UPD:COMMAND
UPD:REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:EXPAND
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the software update expansion process that takes place automatically during the download of a software update be manually stopped (**STOP**), or requests that any compressed files in the software update specified by name be expanded to their original size so that software update application may begin immediately.

**NOTE:** The manual expansion is needed only if expansion was previously inhibited (through use of the **STOP** option), or if the expansion for the software update was previously aborted.

## 2. FORMAT

**UPD:EXPAND:{UPNM "a"|STOP}!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The software update name. All files in the software update package specified will be expanded to the original file size so that software update application may follow. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted. Followed by a UPD:COMMAND output message. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
IN:REM-REPT
UPD:CSCANS-REPT

Output Messages
UPD:COMMAND
UPD:CSCANS-REPT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:FLASH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests an update of FLASH memory on a specified Peripheral Controller (PC). FLASH is a device designed to be programmed in a system with a standard 5 volt supply.

## 2. FORMAT

**UPD:FLASH;**a b[**,FN** "c"]**!**

## 3. EXPLANATION OF MESSAGE

a — Member name:

HSDC

MTTYC

SCSDC

SDLC

TTYC

b — Member number (0-255).

c — This is the full base path name used to specify the files to be used to update the FLASH memory on the peripheral controller board. The actual filenames are generated by adding a hexadecimal number starting at zero to the end of the full base path name. If this option is not specified, the default full base path name is dependent on the member name:

HSDC — /iop/pccode/no4wide

MTTYC — /iop/pccode/mttycb

SCSDC — /iop/pccode/scsdcf

SDLC — /iop/pccode/no4wide

TTYC — /iop/pccode/no4wide

## 4. SYSTEM RESPONSE

?E — Error exists in the message but cannot be resolved to the proper field. Invalid verb (system expecting UPD), missing or invalid keyword or data.

?I — Identification field contains an error. Invalid data, missing data, or extra key word in first, second, or third parameter or data blocks.

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `NG` | No Good. Cannot enable messages, access Equipment Configuration Database (ECD), or PC is in wrong state to process input message. PC must be in the Out-Of-Service (OOS) state, and its peripheral interface controller (IOP) must be in the Active (ACT) state. |
| `PF` | Printout Follows. Followed by a `UPD:FLASH` output message. |

## 5. REFERENCES

Output Message
`UPD:FLASH`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:FLASH-DFC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Download a pumpcode file into a Small Computer System Interface (SCSI) Device File Controller's (**DFC**) non-volatile **FLASH** memory.

The command can be used to request a download in three different ways.

1. Request the **DFC** driver automatically perform a download using a disk file constructed from fields in the **DFC** UCB record.
2. Request the **DFC** driver automatically perform a download using a disk file constructed from version information stored in HA memory.
3. Request that a user specified file be downloaded.

The command can also be used to check the integrity of a pumpcode file that is stored as a disk file.

**NOTE:** When the downloading is to be done automatically by the **DFC** driver; the driver will use the information stored in the **DFC**'s UCB record to build the pumpcode file name. The file specified in the UCB record must exist in the directory `/dfc`, and the file name derived from the UCB record has the format `xyz`, where `x` is the 4-alphanumeric characters packcode value (i.e., `u580`) stored in the packcode field of the UCB, `y` is the 1-digit value stored in the version field of the specified **DFC**'s UCB, and `z` is the 1-digit value stored in the issue field of the UCB. An example of a typical pumpcode file name is `u58090`; the pumpcode version implied by this filename is `9`, the pumpcode issue is `0`, and the packcode number is `u580`.

## 2. FORMAT

[1] **UPD:FLASH;DFC** a;

[2] **UPD:FLASH;DFC** a:**FN** "b"[,**CHECKSUM**];

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Member number (0–255). |
| b | Full pathname that specifies the pumpcode file to be downloaded into SCSI **DFC** or to be checked for the integrity of its data. |
| **CHECKSUM** | When this option is used, the integrity of the pumpcode contained in the specified file will be verified; no pumpcode downloading will occur. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `UPD:FLASH-DFC` output message. |

## 5. REFERENCES

Display/Menu Page Name
`DISK FILE SYSTEM ACCESS`

Output Message
`UPD:FLASH-DFC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:FTRC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Lists function information from a process file's symbol table.

The output includes the name of the file in which the function resides, the name of the function, its transfer vector address, and the virtual address and size of the function.

When a function has no transfer vector, the transfer vector field in the output will contain zero. If a process file has been updated by function replacement, the new addresses for the updated functions will be printed.

## 2. FORMAT

**UPD:FTRC:FN** "a",{**FCN** "b"|**ADDR** c|**ALL**}!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Full pathname of the process file. See the *User Guidelines* in this document for definitions of pathnames and file. |
| b | Print information for the function with name entered in process file listed. The maximum length for a function name within a `pfile` is eight characters. |
| c | Print information for the function encompassing the virtual address entered in process file. |
| **ALL** | Print information for all functions in process file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by `UPD` output messages. |

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:APPLY-FUNCR`

Output Messages
`UPD:APPLY`
`UPD:BKOUT`
`UPD:DISPLAY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:G-APPLPROC
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Executes the application process (`/prc/supr/applproc`) on the computer. UNIX® RTR supplies a "dummy" application process that performs no action. If an application calls for some application-specific processing during the installation of a system update, the application may replace the "dummy" application process with an application-specific processes.

## 2. FORMAT

**`UPD:GEN;APPLPROC`**`[:ARG "a"]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | An argument string that is to be passed to the application process. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Process not initiated. |
| `PF` | Printout Follows. Followed by a `UPD:G-APPLPROC` output message. |

## 5. REFERENCES

Display/Menu Page Name
`UNIX® RTR System Update Menu Page`

Input Messages
`OP:G-READLOG`
`UPD:G-BKOUT`
`UPD:G-COMMIT`
`UPD:G-CONT`
`UPD:G-ENTER`
`UPD:G-PROCD`
`UPD:G-RESTR`

Output Messages
`OP:G-READLOG`
`UPD:G-APPLPROC`
`UPD:G-BKOUT`
`UPD:G-COMMIT`
`UPD:G-CONT`
`UPD:G-ENTER`
`UPD:G-PROCD`
`UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:G-BKOUT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Prepares the 3B20D Computer system for booting from the old generic if it is necessary to back out of the new generic.

## 2. FORMAT

**`UPD:GEN;BACKOUT[;UCL]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`UCL`** | Unconditional execution; context checks are ignored. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Process not initiated. |
| `PF` | Printout Follows. Followed by `UPD:G-BKOUT` output message. |

## 5. REFERENCES

Practice 254-301-825 *DMERT Generic 2 - UNIX® RTR Release 1 Retrofit Procedures*

Input Messages
```
OP:G-READLOG
STOP:GEN
UPD:G-COMMIT
UPD:G-CONT
UPD:G-ENTER
UPD:G-PROCD
UPD:G-RESTR
```

Output Messages
```
OP:G-READLOG
STOP:GEN
UPD:G-BKOUT
UPD:G-COMMIT
UPD:G-CONT
UPD:G-ENTER
UPD:G-PROCD
UPD:G-RESTR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:G-COMMIT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Commits to the new computer generic. This completes the propagation of the new generic into the system after the soak period.

## 2. FORMAT

**`UPD:GEN;COMMIT[;UCL]!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** Unconditional execution; context checks are ignored.

## 4. SYSTEM RESPONSE

`NG` No Good. Process not initiated.

`PF` Printout Follows. Followed by a `UPD:G-COMMIT` output message.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
- `OP:G-READLOG`
- `STOP:GEN`
- `UPD:G-BKOUT`
- `UPD:G-CONT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

Output Messages
- `OP:G-READLOG`
- `STOP:GEN`
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-CONT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:G-CONT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Continues the execution of a computer system update process that requested a manual action via a `UPD:GEN` output message; acknowledges that the action requested has been completed. It also continues the execution of a system update process that has reported that it has stopped via a `UPD:GEN` output message. The error code from the STOPPED message should be examined and any necessary corrective action taken before entering this input message.

## 2. FORMAT

**`UPD:GEN;CONTINUE!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Process not initiated. |
| `PF` | Printout Follows. Followed by a `UPD:G-CONT` output message. |

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

Output Messages
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-CONT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:G-ENTER
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**

**Attention all SUPR users. During partial updates, the Volume Table Of Contents (VTOC) structure for all partitions that are not updated must be identical to the disk VTOC on all tape sequences. If they are not identical, then the starting location of some of the partitions will not match their actual starting location on the disk.**

## 1. PURPOSE

Enters the new generic data into the 3B20D Computer system. This command is the first step of the system update procedure used to introduce a new generic into the system. Up to three different sequences of Load Disk From Tape (LDFT) formatted tapes can be used to update a disk pair. Different disk layouts on each sequence of tapes will be accepted only for the off-line disk method and only if the partition affected by the different disk layout was not updated in a previous sequence.

## 2. FORMAT

```
UPD:GEN;ENTER[;UCL]:{BKPRT|OFLDISK[ a][,NOBKUPD]},SRC "b",
{DEST "c"|DEST ("c"[,"c"]...)}[,SEQOPT d|,SEQOPT (d[,d...])]!
```

## 3. EXPLANATION OF MESSAGE

**UCL** Unconditional execution. If this option is not specified, the system update log file must be empty or removed. (The log file is in `"/etc/log/suprlog"`, see `OP:G,READLOG`).

**BKPRT** Backup partition method specification. This method requires that the disk layout in the new generic must be the same (e.g., the VTOC partition in the new generic must be identical to the VTOC in the old generic) and all the disk partitions to be updated must have a corresponding backup partition (e.g., like `root/broot`). The set of unused backup partitions will be updated (e.g., if `root` is being used, `broot` will be updated).

**OFLDISK** Off-line disk method specification. This method requires that each disk pair to be updated must be duplex (e.g., both disks active). One of the disks will be removed from service and the new generic data will be copied to this disk. The disk will also be marked off-line.

`a` Unit number of the Disk File Controller (DFC). Used to determine which Moving Head Disk (MHD) unit(s) will be taken off-line (for the off-line disk method). If omitted, DFC 1 will be selected.

**NOBKUPD** During offline disk method, backup partitions will not be updated; only primary partitions.

SEE PROPRIETARY NOTICE ON COVER PAGE

`b` Special device file name that specifies the input magnetic tape. The name of the tape unit is of the form `/dev/mtnn` or `MT?`, where `nn` is a two-digit hexadecimal number and `?` is the Magnetic Tape Controller (MTC) number.

`c` Special device file name that specifies the Volume Table Of Contents (VTOC) for the disk to be updated. See *User Guidelines* in this document for descriptions and examples of tape device names. Up to ten destinations may be specified. The file name (full pathname) cannot be greater than 40 characters long.

`d` Tape sequence options that are to be used for each destination that was specified. The possible values for the tape sequence options are:

`DBL` — Update a disk using a double sequence of tapes.
`SGL` — Update a disk using a single sequence of tapes.
`TPL` — Update a disk using a triple sequence of tapes.

If a sequence option is not specified at all (the **`SEQOPT`** keyword is not used on the command line), the default values are used (double sequence for the bootdisk, single sequence for non-bootdisks). If default tape sequence options are not desired for all destinations, then all the tape sequence options must be specified (even the tape sequences using default values). If tape sequence options are specified, the number of specified tape sequence options must equal the number of specified destinations. The maximum number of tape sequence options allowed on the Enter command line is ten.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by `UPD:G-ENTER` output message.

`NG` No Good. Process not initiated.

## 5. REFERENCES

Input Messages

```
OP:G-READLOG
STOP:GEN
UPD:G-BKOUT
UPD:G-COMMIT
UPD:G-CONT
UPD:G-PROCD
UPD:G-RESTR
```

Output Messages

```
OP:G-READLOG
STOP:GEN
UPD:G-BKOUT
UPD:G-COMMIT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
UPD:G-CONT
UPD:G-ENTER
UPD:G-PROCD
UPD:G-RESTR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:G-PROCD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Prepares the computer system for booting from the new generic. This message must be executed after the `UPD:GEN;ENTER` input command.

## 2. FORMAT

**`UPD:GEN;PROCEED[;UCL]!`**

## 3. EXPLANATION OF MESSAGE

**`UCL`** Unconditional execution; context checks are ignored. If this option is specified, it will be ignored unless the previous step (entering `UPD:GEN;ENTER` input command) was not completed successfully.

## 4. SYSTEM RESPONSE

`NG` No Good. Process not initiated.

`PF` Printout Follows. Followed by the `UPD:G-PROCD` output message.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
- `OP:G-READLOG`
- `STOP:GEN`
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-CONT`
- `UPD:G-ENTER`
- `UPD:G-RESTR`

Output Messages
- `OP:G-READLOG`
- `STOP:GEN`
- `UPD:G-BKOUT`
- `UPD:G-COMMIT`
- `UPD:G-CONT`
- `UPD:G-ENTER`
- `UPD:G-PROCD`
- `UPD:G-RESTR`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:G-RESTR
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Restores the old generic by removing the new generic from the computer system.

This message should be started after the `UPD:GEN;ENTER` and `UPD:GEN;PROCEED` commands have completed successfully. If the message did not complete successfully, then the unconditional option should be used. Using this message without the **`UCL`** option will produce an error even after a successful PROCEED. Only unconditional restores are valid.

If the new generic was introduced using the backup partition method (`UPD:GEN;ENTER` input command), the disk to be updated and its mate must be active, even if only one of them was updated. For example, if Moving Head Disk 0 (MHD0) was updated, then Moving Head Disk 1 (MHD1) should be restored before this message is executed.

## 2. FORMAT

**`UPD:GEN;RESTORE`**`[;`**`UCL`**`]!`

## 3. EXPLANATION OF MESSAGE

**`UCL`** Execute unconditionally; ignore context checks. If this option is specified, it will be ignored if the previous step (entering `UPD:GEN;PROCEED` input command) completed successfully.

## 4. SYSTEM RESPONSE

`NG` No Good. Process not initiated.

`PF` Printout Follows. Followed by the `UPD:G-RESTR` output message.

## 5. REFERENCES

Practice 254-301-825 *Retrofit Procedures DMERT Generic 2 - UNIX® RTR Release 1 Lucent Technologies 3B20D/3B21D Model 1 Computer*

Input Messages
`OP:G-READLOG`
`STOP:GEN`
`UPD:G-BKOUT`
`UPD:G-COMMIT`
`UPD:G-CONT`
`UPD:G-ENTER`
`UPD:G-PROCD`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
OP:G-READLOG
STOP:GEN
UPD:G-RESTR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:GENP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

To manually control the generation of Update Files (UFILES) and Product Files (PFILES) generated during the SOAK stage of an SU installation in preparation for the OFFICIAL stage of the SU installation. If the **`UPD:GENP:STOP`** command is used, all files generated up to this point will remain. Pfile and ufile generation will continue with the **`UPD:GENP:RESUME`** command. If **`UPD:GENP:QUIT`** is used, all files that have been generated so far will be deleted unconditionally.

## 2. FORMAT

**`UPD:GENP:{STOP|RESUME|QUIT}!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` or a `UPD:REPT` output message. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:INITPW
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the password, the number of login attempts and/or the key, which are used by the Customer Service Computer Access Network Standards (CSCANS) interface, be initialized.

**NOTE:** One, two or all three of these arguments may be specified for a given invocation of this input message, with the exception that if a new key is specified, then a new password must also be specified.

This command should be used initially to setup the password and key used by the CSCANS interface. It should also be used to reinitialize the password and key after the CSCANS interface has been locked out of service due to too many failed login attempts.

This command may also be used to initialize the number of failed login attempts allowed and to initialize the key used to decode the password.

## 2. FORMAT

**UPD:INITPW:{PASSWD** a[**,KEY** b][**,ATTEMPTS** c]|**ATTEMPTS** c}**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | The new password to be used, with a minimum of six characters. It should consist of at least two alphabetic characters and at least one numeric or special character. |
| b | The new key to be used, consisting of exactly two characters. |
| c | The number of failed successive login attempts allowed through the CSCANS interface before it is locked out of service. If not specified, the default is 3. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted. Followed by a UPD:COMMAND output message. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
UPD:CSCANS-REPT
UPD:CSCANS-STOP
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:NXTWNDW
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests display of the next portion of MSGS file on the MCC 1960 page for the SU that is already loaded on the MCC 1960 page.

## 2. FORMAT

**`UPD:NXTWNDW!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good. A software update name for the MCC 1960 page has not been entered using `UPD:UPNAME` input command or a software update was not found.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:OFC
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests updates associated with a temporary software update be made permanent. This must be done to one software update at a time, beginning with the oldest temporary software update and continuing with the order in which they were applied.

## 2. FORMAT

**UPD:OFC:UPNM** "aaabb-cccc"[**,UCL**]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Category of software update: |
| | BWM — Broadcast Warning Message. |
| | CFT — Craft. |
| | TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |
| **UCL** | Unconditionally make official. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. The request has been accepted. Followed by a UPD:COMMAND or a UPD:REPT output message. |

## 5. REFERENCES

Display/Menu Page Names
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
UPD:BKOUT
UPD:DISPLAY

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
UPD:COMMAND
UPD:DISPLAY
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:OMDB
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Updates either the message class or the alarm level for either one or a list of message keys in the OMDB disk file. Successful updates are logged so that they can be reapplied after a field update.

## 2. FORMAT

**UPD:OMDB;KEY** a:{**MSGCLS** b|**ALARM** c}!

## 3. EXPLANATION OF MESSAGE

a — Message key or list of keys (0–8000).

b — Numeric value for message class (0–255).

c — Alarm type:

- ACT — Automatically generated report. It may require some action to be taken.
- CRIT — Critical Alarm. Immediate action required.
- INFO — Automatically generated report for information only.
- MAJ — Major Alarm. Immediate action required.
- MAN — Manually requested report.
- MIN — Minor Alarm. Action required.
- VAR — Variable Alarm supplied by client process. If the client process does not specify it, the alarm is defaulted to INFO.

## 4. SYSTEM RESPONSE

IP — In Progress. Followed by the UPD:OMDB output message.

NG — No Good. Includes one of the following:

— INVALID ALARM
Alarm is not one of the seven valid alarm levels.

— INVALID KEY
A message key is not within the valid range.

— INVALID MSGCLS
Message class is not within the valid range.

— SYNTAX ERROR
Message is not in the correct format.

— TOO MANY KEYS
Maximum of 32 keys are allowed per message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Input Messages
`ACTV:OMDB`
`APPLY:OMDB`
`OP:OMDB`

Output Message
`UPD:OMDB`

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . UPD:OMIT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 through 4AP13
APPLICATION . . 4E,3B
TYPE . . . . . Input

**WARNING**

**Incorrect use of this command may interrupt operation of 3B20D computer or degrade its performance or availability. This command should be used only as a last resort. It should never be used without expert technical assistance.**

## 1. PURPOSE

Remove from further consideration a pending 3B20D Computer field update i.e., one which has been interrupted. This command effectively redefines the Broadcast Warning Message (BWM) containing the omitted update and should be used only on updates which cannot be reset or continued.

## 2. FORMAT

**`UPD:OMIT:`**`[`**`,VLEV`** `a]`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` The flag requests additional output from a field update process. Verbose flags may be set for **`UPD`** and `fuomit`. The flags must be entered in the order the processes are listed. To turn on the verbose output for `fuomit`, **`UPD`**'s flag must be used or set to zero.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
```
UPD:APPLY-BYTER
UPD:APPLY-FILER
UPD:APPLY-FUNCR
UPD:APPLY-UNIX
UPD:BKOUT
UPD:PERM
UPD:RESET
```

Output Message
```
UPD:[unit]
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:PERM
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 through 4AP13
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Makes updates associated with a temporary Broadcast Warning Message (BWM) permanent. Only the oldest temporary BWM may be made permanent.

## 2. FORMAT

**UPD:PERM:{UPNM** "aaabb-cccc"|**CONT**}[**,VLEV** d]**!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Catagory of software update: |
| | BWM — Broadcast Warning Message. |
| | CFT — Craft. |
| | DMT |
| | TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |
| **CONT** | Attempt to complete the UPD:PERM input message that failed. |
| d | Requests additional output from a field update process. Verbose flags may be set for UPD, ucm, ogen, and oild. The flags must be entered in the order in which the processes are listed. To turn on the verbose output for a process, all process flags before that one must be used or set to zero. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by the appropriate UPD output messages. |

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Display/Menu Page Name
FIELD UPDATE PAGE

SEE PROPRIETARY NOTICE ON COVER PAGE

Input Messages

```
UPD:BKOUT
UPD:BLDBOOT
UPD:DISPLAY
UPD:OMIT
UPD:RESET
```

Output Messages

```
UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC
UPD:REPT
UPD:RESET
UPD:UPNM
UPD:VFY
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:PRINT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests printing of the specified section or all the sections of the Software Update (SU) MSGS file on the Receive-Only Printer (ROP). This command applies to the SU that is currently loaded on the MCC 1960 page.

## 2. FORMAT

**`UPD:PRINT:{APPLY|BKOUT|FILE|OFC|SOAK}!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`APPLY`** | Print the **`APPLY`** section of the MSGS file. |
| **`BKOUT`** | Print the **`BKOUT`** section of the MSGS file. |
| **`FILE`** | Print all the sections of the MSGS file. |
| **`OFC`** | Print the **`OFC`** section of the MSGS file. |
| **`SOAK`** | Print the **`SOAK`** section of the MSGS file. |

## 4. SYSTEM RESPONSE

`NG` No Good.

— Software update name has not been entered via `UPD:UPNAME` input message (for the MCC 1960 page)
— Software update was not found.

`PF` Printout Follows.

## 5. REFERENCES

Display/Menu Page Name
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:PRINT-BWM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests printing of the specified file associated with the software update that is currently loaded on the MCC 1960 page on the Receive-Only Printer (ROP).

The user will have the ability to print American Standard Code for Information Interchange (ASCII) files on the ROP. If the desired file is not an ASCII file, an error message will print on the ROP.

## 2. FORMAT

**`UPD:PRINT:BWMFILE,FN "a"!`**

## 3. EXPLANATION OF MESSAGE

`a` Name of file within the software update package.

## 4. SYSTEM RESPONSE

`NG` No Good. File not found. The message was not accepted because:

— The software update name has not been entered (on the MCC 1960 page) using the `UPD:UPNAME` input message.

— The file does not exist in the software update directory.

— The file is not an ASCII file.

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:REPT` output message.

## 5. REFERENCES

Display/Menu Page Name
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:PRINT-SKTM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests the printing of the soak timer information on the Receive-Only Printer (ROP). If a software update is not presently soaking, the request will abort and a message will print on the ROP.

## 2. FORMAT

**`UPD:PRINT:SKTM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by an output message.

## 5. REFERENCES

MCC Display Page(s):
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:PRVWNDW
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the previous portion of MSGS file be displayed on the MCC 1960 page, for the SU that is currently loaded on the MCC 1960 page.

## 2. FORMAT

**`UPD:PRVWNDW!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— Software update name has not been entered on the MCC 1960 page using the `UPD:UPNAME` input message.
— Software update was not found.

`PF` Printout Follows. May be followed by a `UPD:COMMAND` or a `UPD:REPT` output message.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:RCVRY
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a program update roll backward or roll forward operation.

The roll forward operation is normally used when it is reasonably certain that the update operation in question did not cause the inconsistency (such as an installed update causing a processor boot). This may result in updates having to be reapplied. The roll backward operation will attempt to remove the update inconsistency by removing temporary updates until consistency is restored.

## 2. FORMAT

**`UPD:RCVRY:{BKWD|FRWD}!`**

## 3. EXPLANATION OF MESSAGE

**`BKWD`** Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate temporary update(s) from the affected processor(s) and file(s).

**`FRWD`** Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate temporary update(s) in the affected processor(s) and files(s).

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:COMMAND` output message.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:VFYCON`

Output Messages
`UPD:COMMAND`
`UPD:REPT`
`UPD:VFYCON`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:REBOOT
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that the program update database be updated to reflect the backing out of any temporary 3B20D/3B21D (3B) updates active at the time of the reboot.

The Software Update Processes will be informed automatically as part of a normal boot that a system reboot has occurred. Whenever a level 2 (or higher) reboot occurs, all temporary updates are, by definition, backed out.

## 2. FORMAT

**`UPD:REBOOT!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by one or more `UPD:COMMAND` output message(s). |
| `RL` | Retry Later. Another `UPD` (with an identification field) input message is active. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:BKOUT`
`UPD:DISPLAY`
`UPD:UPNAME`

Output Messages
`UPD:COMMAND`
`UPD:DISPLAY`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:RECLAIM
WORK CENTER.. MOC
GENERIC ..... 4AP12 through 4AP13
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Reclaims unused patch space in function-replaced `pfiles`. **`UPD:RECLAIM`** reclaims space occupied by functions that have since been replaced by a permanent update activity and by `UPD` synchronization primitives that are no longer needed. **`UPD:RECLAIM`** will fail to reclaim available space if temporary Broadcast Warning Messages (BWMs) are outstanding, or if one instance of a process requires an old version of a replaced function.

## 2. FORMAT

**`UPD:RECLAIM:`**`{`**`FN`** `"a"|`**`ALL`**`|`**`CONT`**`}[,`**`WTIME`** `b][,`**`VLEV`** `c][,`**`UCL`**`]!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Pathname(s) of the file(s) for which the old text space will be reclaimed. May be a single name or a list of up to 32 names. See the *User Guidelines* in this document for definitions of pathname and file, and for instructions on entering a list of names. |
| **`ALL`** | Reclaim the old text space in all non-reclaimed function-replaced files. |
| **`CONT`** | Continue the `UPD:RECLAIM` input message that failed. |
| `b` | The number of seconds for the automatic back-out wait. The default is 300 seconds. |
| `c` | The flag requests additional output from a field update process. Verbose flags may be set for `UPD`, `ucm`, `ogen`, `oild`, `dufr`, and `prchk`. The flags must be entered in the order in which the processes are listed. To turn on the verbose output for a process, all process flags before that one must be used or set to zero. |
| **`UCL`** | Perform the **`RECLAIM`** regardless of the patch count. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

CIC Select Code 304-046 *3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:BLDBOOT`
`UPD:DISPLAY`

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

```
UPD:APPLY
UPD:BKOUT
UPD:BLDBOOT
UPD:CLR
UPD:DISPLAY
UPD:FTRC
UPD:REPT
UPD:RESET
UPD:UPNM
UPD:VFY
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:RECOVERY
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a program update roll backward or roll forward operation.

## 2. FORMAT

**`UPD:RECOVERY:{BKWD|FRWD}!`**

## 3. EXPLANATION OF MESSAGE

**`BKWD`** Perform backward synchronization; that is, recover from an update inconsistency by removing the appropriate update(s) from the affected processor(s) and file(s).

**`FRWD`** Perform forward synchronization; that is, recover from an update inconsistency by reinstalling the appropriate update(s) to the affected processor(s) and files(s).

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:COMMAND` output message.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:RCVRY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:REDUCE
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests smaller, more concise update database entries after all updates on the 3B20D/3B21D (3B) have been made official. The entries are placed in a backup update database (`/etc/Bud`). The existing central update database (`/etc/Cud`) file is reduced so that the update entries for those SUs which can still be backed out normally or through an official backout (`UPD:BOLO`) are kept in the Cud file, while all other entries are saved in a more concise format in the backup update database.

## 2. FORMAT

**`UPD:REDUCE[:PTLD]!`**

## 3. EXPLANATION OF MESSAGE

**`PTLD`** Allow for the point load which must have the sequence number reset to zero.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by one or more `UPD:COMMAND` or `UPD:REPT` output messages.

`RL` Retry Later. Another `UPD` input message is active.

## 5. REFERENCES

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:RESET
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that the soak Timer (TM) duration of the SU that is currently soaking be updated, or that the soak timer for the SU currently soaking be stopped `ABORT`, or that the line number `LINE` to be executed next for the SU loaded on the MCC 1960 page be changed.

## 2. FORMAT

**`UPD:RESET:[LINE a|TM (b,c)|ABORT]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Reset execution to a specified line number displayed on the "1960" SU Installation page (MSGS file). Line number is a 3-digit number. |
| `b` | Number of hours in the software update soak interval (`0-99`). |
| `c` | Number of minutes in the software update soak interval (`0-59`). |
| **`ABORT`** | Stop the soak timer. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `UPD:COMMAND` or a `UPD:REPT` output message. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:EXALL`
`UPD:EXNXT`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:SCP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To update a list of Software Change Package (SCP) numbers applied to a selected 1B disk file.

## 2. FORMAT

**`UPD:SCP {NORMAL|UPDATE}[;CORR]!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`NORMAL`** | Updates a list of **`SCP`** numbers applied to the 1B normal disk file. |
| **`UPDATE`** | Updates a list of **`SCP`** numbers applied to the 1B update disk file. |
| **`CORR`** | Used to remove "NO-TRACK" entries from the output dump. See `DUMP:SCP` output message. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. Invalid data keyword. |
| `?I` | Identification field contains an error. Invalid identification keyword. |
| `PF` | Printout Follows. `UPD:SCP` output message will follow. |
| `RL` | Retry Later. The data file is being updated. |

## 5. REFERENCES

Output Messages
`DUMP:SCP`
`UPD:SCP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:START-EASY
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests that execution of the software update easy SU process be started. The status of this process may be observed using the MCC 1940 page.

## 2. FORMAT

**`UPD:START:EASYBWM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`NG` No Good.

— Easy SU is already in the IN PROGRESS or COMPLETED state.
— The INSTALL BWM, APPLY BWM or BACKOUT BWM name is incorrect.
— The INSTALL BWM name contains the word NONE.

`PF` Printout Follows. Followed by a `UPD:COMMAND` or a `UPD:REPT` output message.

## 5. REFERENCES

Display/Menu Page Names

```
1940 (EASY SU INSTALLATION)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Messages

```
UPD:CHG-INST
UPD:DISPLAY
```

Output Messages

```
UPD:COMMAND
UPD:DISPLAY
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:STOP-EXC
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Stops current execution of the Software Update (SU) installation process. This command may be used to stop an SU installation that was started using the MCC 1960 page or the MCC 1940 page.

## 2. FORMAT

**`UPD:STOP:EXC!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The message was accepted and the action completed.

## 5. REFERENCES

Display/Menu Page Names

```
1940 (EASY SU INSTALLATION)
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

Input Message

```
UPD:DISPLAY
```

Output Messages

```
UPD:COMMAND
UPD:REPT
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:STOP-SOAK
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

This input message should be used in conjunction with easy SU installation (MCC page 1940). It requests that the easy SU installation process stop the SU installation after the SOAK section of the SU has been completed. This input message should be used BEFORE easy SU installation is started.

## 2. FORMAT

**`UPD:STOP:SOAK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted.

## 5. REFERENCES

Display/Menu Page Names
`1940 (EASY SU INSTALLATION)`
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:CHG-INST`
`UPD:START-EASY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:UPDCON
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests verification of software update consistency and a summary of any software update inconsistencies that exist in the system.

## 2. FORMAT

**`UPD:UPDCON!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Display/Menu Page Name
`1950 (SOFTWARE UPDATE MAINTENANCE)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:VFYCON`

Output Messages
`UPD:REPT`
`UPD:VFYCON`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:UPDDSPLY
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests information about updates to the system through Software Update (SU) procedures.

Format 1 requests update information relating to a specific software update name.

Format 2 requests update information about all official (**OFC**) or temporary (**TEMP**) software updates.

Format 3 requests information on all (**ALL**) updates. The **BACKLOG** option retrieves concise update information entries of all updates stored in `/etc/Bud` via the `UPD:REDUCE` input message. The **SUM** option displays update information name and status of the last official, temporary, and craft software update (SUs beginning with **BWM**, **TMP**, and **CFT** respectively) applied to the switch.

## 2. FORMAT

[1] **UPD:UPDDSPLY:BWM** "aaabb-cccc"**!**

[2] **UPD:UPDDSPLY:{OFC|TEMP},[V]!**

[3] **UPD:UPDDSPLY:ALL,[BACKLOG|SUM|V]!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| aaa | Category of software update:<br>BWM — Broadcast Warning Message.<br>CFT — Craft.<br>TMP — Temporary. |
| bb | Last two digits of the year issued, |
| cccc | Sequence number identifying the software update. |
| **OFC** | Official update. |
| **TEMP** | Temporary update. |
| **V** | A detailed version (verbose) of all updates on the switch. |
| **BACKLOG** | Retrieves concise information on all SUs for which update information is stored in the backup update database. |
| **SUM** | Displays update information for the last Official (BWM), Temporary (TMP), and Craft (CFT) software updates installed in the switch. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted and a `UPD:DISPLAY` output message follows. |

## 5. REFERENCES

Display/Menu Page Name
`1950 (SU MAINTENANCE)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:DISPLAY`
`UPD:REDUCE`

Output Message
`UPD:DISPLAY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:UPNAME
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests a check for the existence of a Software Update (SU) in the base directory, and if the SU exists it is loaded on to the MCC 1960 page.

## 2. FORMAT

**`UPD:UPNAME,BWM`** `"aaabb-cccc"!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. The message was not accepted since the software update was not found. |
| `PF` | Printout Follows. The message was accepted and the action completed. |
| `RL` | Retry Later. Another `UPD` input message is active. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:VERSION
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests update of the text version and/or software update level of the file system partitions. This information can be used to identify the partitions text version and software update level should they become detached from the Equipment Configuration Database (ECD). Normally, this message is only entered by the software update updating procedure.

Format 1 is used to apply (advance) the version.

Format 2 is used to backout a version.

## 2. FORMAT

[1] **`UPD:VERSION,APPLY`** `"a"[,UCL]!`

[2] **`UPD:VERSION,BKOUT`** `"j"[,UCL]!`

## 3. EXPLANATION OF MESSAGE

`a` A quoted string indicating the new text version and software update level, with the format `ccc(d)ee.ff ggghh-iiii` where:

- `ccc` — The software release (such as `5e2`).
- `d` — The issue (such as `1`).
- `ee` — The release (such as `03`).
- `ff` — The point (such as `04`).
- `ggg` — The type (e.g., `BWM`, `CFT` or `TMP`).
- `hh` — The year (such as `85`).
- `iiii` — The sequence number (such as `0123`).

For example: `5e2(1)03.04 BWM85-0123`

To be consistent with system documentation, the release, point and year are padded with a leading zero, if need be, to obtain two digits. Likewise, the sequence number is padded with leading zeros to obtain four digits.

`j` A quoted string indicating the previous text version and software update level. See version string format defined for a new text version.

SEE PROPRIETARY NOTICE ON COVER PAGE

**UCL** Unconditional. This option is provided so the message is accepted if the software update procedure is executed with the **UCL** append option. It has no effect.

## 4. SYSTEM RESPONSE

NG No Good. Software release, issue, release point, type, year or sequence number. This item was not present in the version string. Correct and re-enter message.

OK Good. Command accepted, no output message will follow.

PF Printout Follows. Command accepted, and a UPD:VERSION output message will follow.

## 5. REFERENCES

Input Message
OP:VERSION

Output Messages
OP:VERSION
UPD:VERSION

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:VFY
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Requests that Software Updates (SU) which are in the field update directory be verified. An update may be verified any number of times. Update filenames may also be displayed from this message.

A list of 1 to 10 software update names names may be given, See System Maintenance Manual for instructions on entering a list of names.

## 2. FORMAT

```
UPD:VFY:{BWM "aaabb-cccc"[,"aaabb-cccc"[,"aaabb-cccc"...]]|ALL}
      [,BSDIR "d"][,LIST]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `aaa` | Category of software update: |
| | `BWM` — Broadcast Warning Message. |
| | `CFT` — Craft. |
| | `TMP` — Temporary. |
| `bb` | Last two digits of the year issued, |
| `cccc` | Sequence number identifying the software update. |
| **`ALL`** | Verify all software updates in the base directory that match the software update format. |
| `d` | Base directory name. The default is `/etc/bwm`. |
| **`LIST`** | List all filenames received for the specified SU(s). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. The request has been accepted. Followed by one or more `UPD:COMMAND` or `UPD:REPT` output messages. |

## 5. REFERENCES

Display/Menu Page Names

```
1950 (SU MAINTENANCE)
1960 (SU INSTALLATION)
```

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers*
*UNIX® RTR Operating System System Maintenance Manual*

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`UPD:COMMAND`

`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:VFYBWM
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests verification of the content of a software update, the name of which has been entered using `UPD:UPNAME` command (displayed on MCC 1960 page).

## 2. FORMAT

**`UPD:VFYBWM!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `NG` | No Good. Software update name has not been entered using `UPD:UPNAME` command or software update was not found. |
| `PF` | Printout Follows. The message was accepted and printout will follow. |

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Messages
`UPD:UPNAME`
`UPD:VFY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . UPD:VFYCON
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Requests verification of software update consistency and a summary of all software update inconsistencies that exist in the system.

## 2. FORMAT

**`UPD:VFYCON!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. The request has been accepted. Followed by a `UPD:VFYCON` output message.

## 5. REFERENCES

Display/Menu Page Names
`1950 (SU MAINTENANCE)`
`1960 (SU INSTALLATION)`

CIC Select Code 304-046 *Lucent Technologies 3B20D and 3B21D Computers UNIX® RTR Operating System System Maintenance Manual*

Input Message
`UPD:RECOVERY`

Output Messages
`UPD:COMMAND`
`UPD:REPT`
`UPD:VFYCON`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... UPD:XTSI
WORK CENTER.. MOC
GENERIC ..... 4AP15 Rel. 2 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

To update the software of a Expanded Time Slot Interchange (**`XTSI`**) frame.

## 2. FORMAT

**`UPD:XTSI,MEM`** `a`**`,STEP`** `b!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | **`XTSI`** frame member number (`2-62`, even numbers only). |
| `b` | Step number of the step to be executed from the `update.cmds` file. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `REPT:XTSI-SU` output message. |
| `RL` | Retry Later. |

## 5. REFERENCES

Output Message
`REPT:XTSI-SU`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:AMATAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Sets a particular tape drive to the Automatic Message Accounting (AMA) function and verifies the tape on that tape drive.

**NOTE:** For a single data stream office, the stream does not have to be specified as either an **IC** or **OC**. However, for a dual data stream office, the stream must be specified as either an **IC** or **OC**.

## 2. FORMAT

**VER:AMATAPE;MT** a[**:IC**|**:OC**]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Tape drive number. |
| **IC** | Used if AMA data goes to the Inter-LATA revenue accounting office data stream. |
| **OC** | Used if AMA data goes to the operating company revenue accounting office data stream. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?I | Identification field contains an error. The tape drive number specified on the input message was invalid. |
| IP | In Progress. Followed by a REPT:AMATAPE-VF message if the tape option is in effect and there is no tape session in progress. |
| NG | No Good. No good if a tape writing or verification session is in progress or the teleprocessing option is in effect, or AMA sessions have been manually inhibited. Also, the data stream checks could have failed. |
| PF | Printout Follows. Invalid data was encountered while processing the input message. In this case, an audit printout will follow. |
| RL | Retry Later. A message could not be sent to the AMA monitor process. If the problem persists, refer to the AMA TOPS procedure for further resolution. |

## 5. REFERENCES

Input Message
OP:AMA-STREAM

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Message

```
REPT:AMATAP-VF
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:APPFILE
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

Performs a non-correcting SAWS audit on the 1B files on the 3B. The audit may be run on all hashed **ID**s, or on a specific **ID** tag. If no file is specified, the NORMAL 1B FILE is verified.

## 2. FORMAT

**VER:APPFILE** [a][**:ID** b]**!**

## 3. EXPLANATION OF MESSAGE

a — File to be verified:

- NORM — Verifies the current NORMAL file.
- SPEC00 — Verifies MHD 0 /dev/1afile0.
- SPEC01 — Verifies MHD 0 /dev/1afile1.
- SPEC10 — Verifies MHD 1 /dev/1afile0.
- SPEC11 — Verifies MHD 1 /dev/1afile1.
- UPD — Verifies the current UPDATE file.

b — The File Store **ID** that is to be verified. If the data field is omitted, all hashed **ID**s are assumed.

## 4. SYSTEM RESPONSE

PF — Printout Follows. The program is proceeding. Followed by a VER:APPFILE output message. VER:APPFILE with suffix as IS A NON-HASHED IDTAG. Only hashed **ID** tags are audited, and a non-hashed **ID**, as indicated was selected.

## 5. REFERENCES

Input Message
OP:APPFILE

Output Message
VER:APPFILE

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:APPTAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Prints the tape header from an archive tape created with the `COPY:APPTAPE` command.

## 2. FORMAT

**`VER:APPTAPE:`**`a`**`,MT`** `b`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Data to be copied:

- `ERAP` — Verifies the Error Analysis Program (`ERAP`) tape header.
- `LTS` — Verifies the Long Term Storage (`LTS`) tape header.
- `TOSL` — Verifies the Trunk Out-of-Service List (`TOSL`) tape header.

`b` The tape unit (`0`|`1`) where the archive tape is mounted.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `VER:APPTAPE` output message.

## 5. REFERENCES

Input Message
- `COPY:APPTAPE`
- `LOAD:APPTAPE`

Output Message
- `COPY:APPTAPE`
- `LOAD:APPTAPE`
- `VER:APPTAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:ATP-ATV
WORK CENTER.. MOC
GENERIC ..... 4AP13 Rel. 4 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This message prints the information residing in the application database for the AT&T Trigger Platform (ATP) Trigger Validation (ATV) data.

Format 1 dumps the entire **ATV** table.

Format 2 dumps specific **ATV** entries given the variable fields of a validation key.

The **ALL** keyword argument is a wild-card designator and matches all **ATV** table entries regardless of the value stored on disk for that particular key value.

## 2. FORMAT

[1] **VER:ATP;ATV!**

[2] **VER:ATP;ATV ({a|ALL},{b|ALL},c,d)!**

## 3. EXPLANATION OF MESSAGE

a Feature ID (0-63).

b Trigger ID (0-127).

c Call state:

A

ALL

ANSWER

PO

POSTDISCONNECT

PR

PREANSWER

U

UNSPECIFIED

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `d` | Direction: |
| | `ALL` |
| | `CALLED` |
| | `CALLING` |
| | `D` |
| | `G` |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `VER:ATP-ATV` output message. |

## 5. REFERENCES

Input Messages

`VER:ATP-FEATURE`
`VER:ATP-RESTRICT`
`VER:ATP-TRIGGER`

Output Messages

`VER:ATP-ATV`
`VER:ATP-FEATURE`
`VER:ATP-RESTRICT`
`VER:ATP-TRIGGER`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:ATP-FEATURE
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This message prints the information residing in the application database for the AT&T Trigger Platform (**ATP**) Feature Table data.

Format 1 dumps the entire Feature table.

Format 2 dumps specific Feature Table entries given a Feature ID.

Format 3 dumps specific Feature Table entries given a set of Feature Identifiers.

## 2. FORMAT

[1] **VER:ATP;FEATURE!**

[2] **VER:ATP;FEATURE** a!

[3] **VER:ATP;FEATURE,LIST (**b[,c[,d[,e[,f[,g[,h[,i]]]]]]]**)!**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Feature ID (0-63). |
| b | Feature identifier #1 (0-255). |
| c | Feature identifier #2 (0-255). |
| d | Feature identifier #3 (0-255). |
| e | Feature identifier #4 (0-255). |
| f | Feature identifier #5 (0-255). |
| g | Feature identifier #6 (0-255). |
| h | Feature identifier #7 (0-255). |
| i | Feature identifier #8 (0-255). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a VER:ATP-FEATURE output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
VER:ATP-ATV
VER:ATP-RESTRICT
VER:ATP-TRIGGER
```

Output Messages

```
VER:ATP-ATV
VER:ATP-FEATURE
VER:ATP-RESTRICT
VER:ATP-TRIGGER
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:ATP-RESTRICT
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This message prints the information residing in the application database for the AT&T Trigger Platform (ATP) Restrict Table data.

Format 1 dumps one of the ATP Restrict tables in their entirety.

Format 2 dumps a particular ATP Restrict Table range of entries (that is those entries that are active with-in a specified range for a given table).

## 2. FORMAT

[1] **VER:ATP;RESTRICT** [({**NPA**|**NXX**|**CNPA**})]!

[2] **VER:ATP;RESTRICT** [({**NPA**|**NXX**|**CNPA**][,a[,b]})]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Low end of possible range of entries to verify (0-999). Defaults to 0. |
| b | High end of possible range of entries to verify (0-999). If variable a is defaulted, then variable b defaults to 999. Otherwise, variable b defaults to the value specified for variable a (that is, at most one ATP Restrict Table value will be output in this case.) If variable b is specified, then variable a must also be specified and be less than or equal to b. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| PF | Printout Follows. Followed by a VER:ATP-RESTRICT output message. |

## 5. REFERENCES

Input Messages
- VER:ATP-ATV
- VER:ATP-FEATURE
- VER:ATP-TRIGGER

Output Messages
- VER:ATP-ATV
- VER:ATP-FEATURE
- VER:ATP-TRIGGER
- VER:ATP-RESTRICT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ATP-STOP
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message stops all running `VER:ATP` commands; useful for stopping a `VER:ATP` command that is printing undesired output to the Receive Only Printer (ROP).

## 2. FORMAT

**`VER:ATP:STOP!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by `VER:ATP-STOP` output message.

## 5. REFERENCES

Input Messages
- `VER:ATP-ATV`
- `VER:ATP-FEATURE`
- `VER:ATP-TRIGGER`

Output Messages
- `VER:ATP-ATV`
- `VER:ATP-FEATURE`
- `VER:ATP-STOP`
- `VER:ATP-TRIGGER`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:ATP-TRIGGER
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message prints the information residing in the application database for the AT&T Trigger Platform (ATP) Trigger Table data.

Format 1 dumps the entire Trigger table.

Format 2 dumps specific Trigger Table entries given a Trigger Identifier or a Trigger String.

## 2. FORMAT

[1] **`VER:ATP;TRIGGER!`**

[2] **`VER:ATP;TRIGGER`** `{a|b}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Trigger ID (`51-127`). |
| `b` | Trigger String (1st trigger string digit starts with #/* 2nd-4th trigger digits 0-9, *, or blank -- for example, "#123" or "**9"). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `VER:ATP-TRIGGER` output message. |

## 5. REFERENCES

Input Messages
- `VER:ATP-ATV`
- `VER:ATP-FEATURE`
- `VER:ATP-RESTRICT`

Output Messages
- `VER:ATP-ATV`
- `VER:ATP-FEATURE`
- `VER:ATP-RESTRICT`
- `VER:ATP-TRIGGER`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:COAMS
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

To verify the mapping of NSCX complex number to DLNSC number. NSCX complex number `x` can be connected to DLNSC `y`, `x` and `y` do not have to be equal. The mapping is done using the packcode field (field 62) of the DLNSC UCB record in the ECD database. For a DLNSC UCB, this field contains the NSCX complex number that the DLNSC is connected to. If the packcode field is empty (null), the NSCX complex number is equal to the DLNSC number. The NSCX complex number is set using the following NSCX input message: `LOAD:NSC x,NS 0,PROC 0:CNUM y!`

## 2. FORMAT

**`VER:COAMS:NSC`** `{a|`**`ALL`**`}!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | NSCX complex number. |
| **`ALL`** | Output for each NSCX complex is requested. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Data field contains an error. Either the keyword **`NSC`** was spelled wrong, the parameter **`ALL`** was spelled wrong, or the desired NSCX complex number is out of range. The valid range for NSCX complex numbers is `1` through `127`, excluding `64`. |
| `PF` | Printout Follows. `VER:COAMS` output message will follow. |

## 5. REFERENCES

Output Message
`VER:COAMS`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:DCC
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 4 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Requests the results of a previously started Data Consistency Check (DCC) task (via `START:DCC`). If the task is complete, checksum data is output. If the task is not complete, a message so indicating will print.

A DCC task can be active for each customer unit supported.

## 2. FORMAT

**`VER:DCC,APP`** `a!`

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | An APPDB customer unit name: |
| | `IBGTT` |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. |

## 5. REFERENCES

Input Messages
- `ACTV:DCC`
- `ALW:DCC`
- `DEACTV:DCC`
- `INH:DCC`
- `OP:DCC`
- `START:DCC`
- `STOP:DCC`

Output Message
- `VER:DCC`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:DGA
WORK CENTER.. MOC
GENERIC ..... 4AP16 and later
APPLICATION .. 4E,3B,XTSI
TYPE ..... Input

## 1. PURPOSE

Validates the number of trunks assigned to digroups on a unit/frame, or a frame basis.

Format 1, is used to validate all equipped frames.

Format 2, is used to validate Expanded Time Slot Interchange (**XTSI**) frames.

Format 3, is used to validate Digroup Terminal (**DT**) frames.

Formats 4 and 5, are used to validate Digital Interface Frame (**DIF**) frames.

Format 6, is used to print out only the unit type members having unassigned digroups.

## 2. FORMAT

[1] **VER:DGA!**

[2] **VER:DGA:XTSI** [a][,**THRESH** b|,**D3U** [c]|,**SPU** [d]]!

[3] **VER:DGA:DT** [e][,**DTU** [f]]!

[4] **VER:DGA,TDIU** g[-h][:**DIF** [i]]!

[5] **VER:DGA:DIF** [i][[,**TDIU** g]-h][,**DIU** [j]]!

[6] **VER:DGA;JTO**[:**DT** e|:**DIF** i|:**XTSI** a]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Expanded Time Slot Interchange (**XTSI**) frame type member number (0-63). |
| b | Threshold value (0-7). Prints out XTSI's D3U or SPU information that matches the threshold value entered. |
| c | D3 Unit (**D3U**) type member number (0-5). |
| d | Signal Processing Unit (**SPU**) type member number (0-5). |
| e | Digroup Terminal (**DT**) frame type member number (1-127). |
| f | DT Unit (**DTU)** type member number (0-7). |
| g | Start value of search range for Type of Digital Interface Unit (**TDIU**) values. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `h` | End value of search range for **`TDIU`** values. Will search start value only if no end value indicated. |
| `i` | Digital Interface Frame (**`DIF`**) frame type member number (0-31). |
| `j` | Digital Interface Unit (**`DIU`**) type member number (0-31). |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?D` | Invalid Data. |
| `?I` | Identification field contains an error. Indicates the keyword was not recognized. |
| `PF` | Printout Follows. |

## 5. REFERENCES

Output Message
`VER:DGA`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:GT6TRAN
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This command performs various verifies of the 6-digit Global Title Translations (GTT) database, stored in the 1Bfile and at each of the Direct Link Nodes (DLN). The verify can be performed on either the 1Bfile or any DLN, with the default being the 1Bfile. The purpose of the 6-digit **GTT** database is to determine the correct database in the network [Network Control Point (NCP)] that contains the information for the requested Translation Type (TT) and digits. The **GTT** database currently supports two TTs: 252 for SDN services and 253 for 800 services.

There are four formats to this input message, in order to view different relations of the 6-digit **GTT** database.

Format 1 gives the feature on/off status for both 6-digit and 10-digit **GTT**. Both the 6 and 10-digit **GTT** features default to being turned off. The 1B recent change `RC:MISC;FHT,FTA:a`, where a is `{GT6ACT252|GT6ACT253|GT10AC252|GT10AC253}`, is used to turn on the features.

Format 2 gives the total number of customers in the 6-digit **GTT** database for the specified translation type.

Formats 3 and 4 give the Network Point Code (NCP) database and subsystem information for the specified translation type, and 6 digits of the Automatic Number Identification (ANI). The ANI will be the calling number for **TT** `252` (SDN services) and the called number for **TT** `253` (800 services). The **DEF** field (digits 4-6 of the ANI) is entered as a single **DEF**, a range of **DEF**s, or the keyword **ALL** (Format 4). The 6-digit **GTT** can have 3-digit translations; in this case use the **DEF ALL** option.

Format 5 gives a count of all the customers and the Network Control Point (NCP) database information for all equipped Database Indexes (**DBI**). This is used to verify the load balancing of the ANIs on the network databases. The output given for each equipped **DBI** entry is the Pointcode (PC) and Subsystem Number (SSN) of two mated Network Control Point (NCP), databases and the number of customers using this **DBI** as either a primary/secondary or secondary/primary combination for these PC/SSNs.

Format 6 gives a listing of all **TT**/6-DIGIT ANI combinations that use a specified DBI.

## 2. FORMAT

[1] **VER:GT6TRAN**[,**RNA** a]:**STAT!**

[2] **VER:GT6TRAN**[,**RNA** a]:**TT** {252|253},**SUM!**

[3] **VER:GT6TRAN**[,**RNA** a]:**TT** {252|253},**ABC** b,**DEF** c[-d]**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[4] **VER:GT6TRAN[,RNA** a**]:TT {252|253},ABC** b**,DEF ALL!**

[5] **VER:GT6TRAN[,RNA** a**]:DBI ALL!**

[6] **VER:GT6TRAN[,RNA** a**]:DBI** e**!**

## 3. EXPLANATION OF MESSAGE

a — This is the Ring Node Address (**RNA**) of the Direct Link Node (DLN) where the verify is to be done. If the '**RNA** e' entry is omitted, the default verify is to the 1Bfile. The value can be entered in either hexadecimal (ex: X'205) or in decimal (ex: 517). The range of **RNA**s are decimal 0–1023 (hex 0x0–0x3ff).

**TT 252** — Translation type **252** is used for SDN type services. The **ABC** values for this **TT** are normally the home NPAs that are supported at this 4ESS™.

**TT 253** — Translation type **253** is used for 800 type services. The **ABC** values for this **TT** are normally 195 and 800.

b — This is the **ABC** value or first 3 digits of the requested global title number. For **TT** of **252**, this is the dialing number; for **TT** of **253**, this is the dialed number. The range of values for **ABC** is 0–999.

c — This is the **DEF** value of the second 3 digits of the requested global title number. The range of values for **DEF** is 0–999.

d — The **DEF** field allows an optional range. If this value is entered, the value must be greater than the value of the first **DEF** value entered. The range of values is 1–999.

e — This is a specific Database Index (**DBI**). There can be up to 512 **DBI**s (values 0–511), which store database point code and subsystem number information.

## 4. SYSTEM RESPONSE

PF — Printout Follows. VER:GT6TRAN output message will follow.

## 5. REFERENCES

Input Message
RC:MISC-FHT-FTA

Output Message
VER:GT6TRAN

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:GTT
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This command performs various verifies of the Global Title Translations (GTT) database. The database is contained in three disk files and in each Direct Link Node (DLN). The verify can be performed on any of the three valid disk files or any DLN. The default disk file is the active disk file for all **TT**s except for **252** (SDN services), in which case the default disk file is the Outbound DLN memory copy. (For **TT 252**, all GTT data is kept in DLN memory. There is no data kept on disk.)

The three disk files containing the database are located at:

1. `/dev/appdb0` - the active disk file
2. `/dev/appdb1` - the backup disk file
3. `/dev/appdb2` - the "scratch pad" disk file

The purpose of the **GTT** database is to determine the correct network database [(network control point (NCP)] that contains the information for the requested Translation Type (TT) and digits. The **GTT** database currently supports three **TT**s: **242** for PCP services, **252** for SDN services, and **253** for 800 and 900 services. Furthermore, **TTs 242** and **252** are subdivided into Numbering Plan Types (NPT) called Action Point Numbering (APN) and North American Numbering Plan (NANP). This is done by using keyword **APN** or **NANP**. If the **TT** is specified as **253** then no NPT can exist on the command line.

The following formats provide various views of the **GTT** database.

Format 1 gives the feature on/off status for both 6-digit and 10-digit **GTT**. Both the 6 and 10-digit **GTT** features default to being turned off. The 1B recent change `RC:MISC;FHT,FTA:a`, where `a` is `{GT6ACT252|GT6ACT253|GT10AC252|GT10AC253}`, is used to turn on the features. This information comes from the ACI database, not the APPDB database. Thus, the **SHADOW** or **SCRATCH** keywords cannot be used in format 1. The ACI database is resident within the 1B file and in each DLN.

Format 2 gives the total number of customers (or entries) in the database for the specified translation type. If **TT** equals **242** or **252**, then both **APN** and **NANP** spectrums are searched.

Formats 3 through 6 give the Network Point Code (NCP) database and subsystem information for the specified translation type and 10 digits of the Automatic Number Identification (ANI). The ANI will be the calling number for **TT**s **242** (PCP services) and **252** (SDN services) and the called number for **TT 253** (800 and 900 services). The **DEF** field (digits 4-6 of the ANI) can be entered as a single **DEF**, a range of **DEF**s, or **ALL**. The **GHIJ** keyword (digits 7-10 of the ANI) can be entered as a single **GHIJ** value or a **GHIJ** range. If the **DEF** keyword is specified as a range or **ALL**, keyword **GHIJ** must not be included.

SEE PROPRIETARY NOTICE ON COVER PAGE

Formats 3 through 6 rules for database searching are:

- If **TT** is **242** or **252** then **APN** or **NANP** may exist. If both are omitted, both **NANP** and **APN** spectrum data is output.
- If **TT** is **253** then **NANP** may or may not exist.
- If **ABC DEF** and **GHIJ** exist, then only 10-digit DB trees are searched.
- If **ABC** and **DEF** exist and **GHIJ** does not exist, then only 6-digit DB trees are searched.
- If **ABC** exists and **DEF** or **GHIJ** does not exist, then only 3-digit DB trees are searched.

Format 7 gives a count of all the customers and the Network Point Code (NCP) database information for equipped Database Indexes (**DBI**). This information can be used to verify load balancing of the ANI(s) on network databases. The output given for each equipped **DBI** entry is the Pointcode (PC) and Subsystem Number (SSN) of two mated Network Control Point (NCP) databases, and the number of ANI(s) using this **DBI**. For the case where **TT** is equal to **242** or **252** the counts include both **APN** and **NANP** number spectrums.

Format 8 gives a listing of all ANI DIGIT combinations that use a specific **TT** and **DBI**. If the **TT** is **242** or **252**, then both **APN** and **NANP** spectrums will be searched.

Format 9 gives a count of all the customers and the Network Control Point (NCP) database information for equipped Customer Indexes (CUSTID). The output given for each equipped customer index is the DBI, Point Code (PC) and Subsystem Number (SSN) of two mated Network Control Point (NCP) databases and the number of ANI(s) using this customer index.

Format 10 gives a listing of all 10-DIGIT ANI combinations that use a specific customer index.

Format 11 terminates all running verify processes. This is helpful when the verify command is outputting too much information.

Format 12 maps the old **GTT** databases (prior to 4E17 Rel. 3) into the larger, restructured **GTT** database (4E17 Rel. 3 and later).

## 2. FORMAT

[1] **VER:GTT[,RNA** a**]:STAT!**

[2] **VER:GTT[,RNA** a|**SHADOW**|**SCRATCH]:TT {242**|**252**|**253},SUM!**

[3] **VER:GTT[,RNA** a|**SHADOW**|**SCRATCH]:TT {242**|**252**|**253}[,APN**|**NANP],**
**ABC** b**,DEF** c**,GHIJ** d**[-**e**]!**

[4] **VER:GTT[,RNA** a|**SHADOW**|**SCRATCH]:TT {242**|**252**|**253}[,APN**|**NANP],**
**ABC** b**,DEF** c**,GHIJ ALL!**

[5] **VER:GTT[,RNA** a|**SHADOW]:TT {242**|**252**|**253}[,APN**|**NANP],ABC** b**,**
**DEF** c**[-**f**]!**

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[6] **VER:GTT[,RNA** a|**SHADOW]:TT {242|252|253}[,APN|NANP],ABC** b, **DEF ALL!**

[7] **VER:GTT[,RNA** a|**SHADOW]:TT {242|252|253},DBI ALL!**

[8] **VER:GTT[,RNA** a|**SHADOW]:TT {242|252|253},DBI** g**!**

[9] **VER:GTT[,RNA** a|**SHADOW]:CUSTID ALL!**

[10] **VER:GTT[,RNA** a|**SHADOW]:CUSTID** h**!**

[11] **VER:GTT[,RNA** a|**SHADOW]:STOP!**

## 3. EXPLANATION OF MESSAGE

a — This is the Ring Node Address (**RNA**) of the Direct Link Node (DLN) where the verify is to be done. If the **RNA** x entry is omitted, the default is to verify the active database file (/dev/appdb0) for all **TT**s other than **252**. For **252**, the default database copy is the copy kept in the Outbound DLN's core memory. The value can be entered in either hexadecimal (ex: X'205) or in decimal (ex: 517). The range of **RNA**s are decimal 0–1023 (hex 0x0–0x3ff). The keyword **SHADOW** is used to verify the shadow (or backup database) located at /dev/appdb1. The keyword **SCRATCH** is used to verify the "scratch pad" database located at /dev/appdb2. Keywords **SHADOW** and **SCRATCH** are not allowed for **TT 252**.

**TT 242** — Translation type **242** is used for Positive Call Processing (PCP) type services. The **ABC** values for this **TT** are normally the home NPAs that are supported at this 4ESS™, unless the **APN** keyword is specified. If the **TT** is specified as **242**, then either the **APN** or **NANP** keyword must be supplied. Only three digit GT translations are supported for **TT 242**.

**TT 252** — Translation type **252** is used for SDN type services. The **ABC** values for this **TT** are normally the home NPAs that are supported at this 4ESS™, unless the **APN** keyword is specified. If the **TT** is specified as **252**, then either the **APN** or **NANP** keyword must be supplied.

**APN** — This keyword is only valid when **TT** is specified as **242** or **252**. Specification of **APN** restricts the verify search to the APN numbering plan.

**NANP** — Specification of **NANP** restricts the verify search to the **NANP** numbering spectrum. **NANP** stands for North American Numbering Plan.

**TT 253** — Translation type **253** is used for 800 and 900 type services. The **ABC** values for this **TT** are normally 195, 800, or 900. If **TT 253** is specified, then neither **APN** nor **NANP** must exist on the command line.

b — This is the **ABC** value or first 3 digits of the requested global title number. For **TT** of **242** or **252**, this is the dialing number; for **TT** of **253**, this is the dialed number. The range of values for **ABC** is 0–999.

SEE PROPRIETARY NOTICE ON COVER PAGE

c — This is the **DEF** value of the second 3 digits of the requested global title number. The range of values for **DEF** is 0–999. The **DEF** keyword is not supported for **TT**s of **242**.

d — This is the **GHIJ** value of the last 4 digits of the requested 10-digit global title number. The range of values for **GHIJ** is 0–9999. The **GHIJ** keyword is not supported for **TT**s of **242**.

e — The **GHIJ** field allows an optional range. If this value is entered, the value must be greater than the first value of **GHIJ**. The range of values is 1–9999.

f — The **DEF** field allows an optional range. If this value is entered, the value must be greater than the first value for **DEF**. The range of values is 1–999.

g — This is a specific Database Index (**DBI**). For the **242** and **252** translation types, there can be up to 256 **DBI**s (values 0–255), which store database point code and subsystem number information. For the **253** translation type, there can be up to 1024 **DBI**s (values 0–1023), which store database point code and subsystem number information.

h — This is a specific Customer Index (**CUSTID**). There are 9999 **CUSTID**s (values 1-9999). Each **CUSTID** contains a **TT 252 DBI** index. **CUSTID 0** is not used.

## 4. SYSTEM RESPONSE

PF — Printout Follows. VER:GTT output message will follow.

RL — Retry Later. Wait five minutes and retry command.

## 5. REFERENCES

Input Message
RC:MISC-FHT-FTA

Output Message
VER:GTT

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:GTT-CRCHK
WORK CENTER . . MOC,IRAS
GENERIC . . . . . 4AP12 only
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Verifies the integrity of the 10 Digit Inbound Global Title Translation (IBGTT) database.

Calculates the CRCs associated with the IBGTT 10-Digit data file and compares these calculations with the stored CRC values. If the newly calculated CRCs do not agree with the stored values, the data file integrity has been compromised.

The IBGTT data file will be downloaded from an Off-Line switch to the On-Site switches in the field. This command will be used to verify that no transmission errors have occurred.

## 2. FORMAT

**`VER:GTT:CRCHK!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

`PF` Printout Follows.

## 5. REFERENCES

Input Messages
`VER:GTT-FEXPN`
`VER:MEMORY`

Output Messages
`VER:GTT-CRCHK`
`VER:GTT-FEXPN`
`VER:MEMORY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:GTT-FEXPN
WORK CENTER . . MOC,IRAS
GENERIC . . . . . 4AP12 only
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Expands the 10-Digit Inbound Global Title Translation (IBGTT) data file at the Off-Line switch.

The 4AP12 Release 1 data file supports up to one-quarter of a million dialed digit numbers. This command expands the IBGTT file located on the ACTIVE partition, `/dev/appdb0`, to a file which will support one-half million dialed digit numbers. This expanded file is copied to the SCRATCH partition, `/dev/appdb2`. All data records stored in the initial file (`/dev/appdb0`) are then copied to the expanded file on `/dev/appdb2`.

## 2. FORMAT

**`VER:GTT:FEXPN!`**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Message accepted and `VER:GTT-FEXPN` output message follows. |

## 5. REFERENCES

Input Messages
`VER:GTT-CRCHK`
`VER:MEMORY`

Output Messages
`VER:GTT-CRCHK`
`VER:GTT-FEXPN`
`VER:MEMORY`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:LVFILE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message has been replaced with the `OP:NODES` input message.

## 2. FORMAT

See Purpose.

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

None.

## 5. REFERENCES

Input Message
`OP:NODES`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:MEMORY
WORK CENTER.. MOC
GENERIC ..... 4AP13 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This command analyzes space utilization of the **APPDB** database, used for 10-digit Global Title Translations (GTT) and AT&T Trigger Platform (ATP) data tables. There is one format for this input message. The message shows **APPDB** memory utilization for each application using the **APPDB** database. Optional keywords in the ID field allow the selection of a specific database location. The **RNA** keyword selects a specific DLN (if **RNA** is specified, only the GTT portions of the APPDB database are printed -- the ATP portion is not printed.) The **SHADOW** keyword is used to select the shadow database (`/dev/appdb1`). The **SCRATCH** keyword is used to select the "scratch pad" database (`/dev/appdb2`). The default database location is `/dev/appdb0` for all customer units other than OBGTT. For the OBGTT customer unit, if **RNA** is not specified, then the OUTBOUND DLN memory is read instead of the 3B disk copy of that portion of the database.

The **APPDB** database resides at the following disk locations:

1. `/dev/appdb0` - the active disk file
2. `/dev/appdb1` - the backup disk file
3. `/dev/appdb2` - the "scratch pad" disk file

The GTT APPDB portions also reside in each Direct Link Node (DLN). The ATP portion resides in each ATP Node. The **VER:MEMORY** command can be performed on any of the disk file copies or any DLN (GTT portions only). The ATP data in the ATP node cannot be verified with this command.

The **VER:MEMORY** message will output a data table for each customer unit (that is, application) in the database. If the **APP** keyword is used, only the data for a particular customer unit will be output.

## 2. FORMAT

**VER:MEMORY**`[,`**RNA** `{a|`**X**`'a}|`**SHADOW**`|`**SCRATCH**`][,`**APP** `b]:`**APPDB!**

## 3. EXPLANATION OF MESSAGE

`a` This is the Ring Node Addresses (RNA) of the Direct Link Node (DLN) where the verify is to be done. If the **RNA** `a`, **SHADOW** or **SCRATCH** entries are not used, **VER:MEMORY** references the default database file (located in 3B disk file `/dev/appdb0` for all customer units other than OBGTT and located in the OUTBOUND DLN memory for the OBGTT customer unit). The value can be entered in either hexadecimal (ex: `X'205`) or in decimal (ex: `517`). The range of **RNA**s are decimal `0-1023` (hex `0x0-0x3ff`). The **SHADOW** keyword forces **VER:MEMORY** to access the backup database disk file located at `/dev/appdb1`.

SEE PROPRIETARY NOTICE ON COVER PAGE

The **SCRATCH** keyword forces **VER:MEMORY** to access the backup database disk file located at `/dev/appdb2`.

**NOTE:** If **RNA** is specified, only the GTT portions of the APPDB database are printed -- the ATP portion is not printed.

`b` This is the customer unit name of the specific customer unit for which the **VER:MEMORY** data is requested:

| | |
|---|---|
| `ATP` | — AT&T Trigger Platform (ATP) customer unit |
| `IBGTT` | — Inbound Services customer unit (800 and 900 services) |
| `OBGTT` | — Outbound (SDN) Self-Provisioned GTT data |
| `PCPGTT` | — PCP GTT Services customer unit |

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Output message `VER:MEMORY` will follow.

## 5. REFERENCES

Input Messages

```
RC:MISC-FHT-FTA
VER:ATP-ATV
VER:ATP-FEATURE
VER:ATP-RESTRICT
VER:ATP-TRIGGER
VER:GTT
```

Output Messages

```
VER:ATP-ATV
VER:ATP-FEATURE
VER:ATP-RESTRICT
VER:ATP-TRIGGER
VER:GTT
VER:MEMORY
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VER:PCP
WORK CENTER.. MOC,IRAS
GENERIC ..... 4AP12 and later
APPLICATION .. 4E
TYPE ..... Input

## 1. PURPOSE

This command performs a single verify of the Enhanced Pre-Assign Values (EPAV) table in the Direct Link Nodes (DLN). The purpose of the EPAV table is to provide pre-assigned account numbers for Positive Call Processing Release 2 (PCP-R2) Sub Account Billing (SAB) subscribers.

## 2. FORMAT

**VER:PCP**[,**RNA** {a|**X**'a}:**CANI** b[,**TOA** c][,**TSVC** d][,**NUMPL** e]!

## 3. EXPLANATION OF MESSAGE

a — This is the Ring Node Address (**RNA**) of the Direct Link Node (DLN) where the verify is to be done. If the **RNA** entry is omitted, the default verify is to the 3B Disk. The value can be entered in either hexadecimal (ex: X'205) or in decimal (ex: 517). The range of RNAs in decimal is 1-1023 or hexadecimal 0x1-0x3ff.

b — This is a 10-digit number, Automatic Number Identification (ANI).

c — Type Of Access (**TOA**):

DC — Calls arriving at the switch from Direct Connect (DC) customers.

SA — Calls that arrive at the switch from the LEC. Default value.

d — Type Of Service (**TSVC**) refers to the service type of the call:

LDS — Long Distance Services (LDS). Default value.

OMEG — MEGACOM®/WATS customers.

e — Numbering Plan (**NUMPL**) refers to the numbering plan of the ANI key:

APN — Action point numbering plan.

NANP — North American numbering plan, Default value.

## 4. SYSTEM RESPONSE

PF — Printout Follows. VER:PCP output message will follow.

## 5. REFERENCES

Output Message
VER:PCP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SD-NID
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message prints the information residing in the application database for the Segmentation Directory (SD) data.

## 2. FORMAT

**`VER:SD:NID!`**

## 3. EXPLANATION OF MESSAGE

**`NID`** Dumps the Network Identifications (IDs).

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `VER:SD-NID` output message.

## 5. REFERENCES

Output Message
`VER:SD-NID`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SD-NULLPARM
WORK CENTER . . MOC
GENERIC . . . . . 4AP15 Rel. 2 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message prints the information residing in the application database for the Segmentation Directory (SD) data.

## 2. FORMAT

**`VER:SD:NULLPARM!`**

## 3. EXPLANATION OF MESSAGE

**`NULLPARM`** Dumps the **`NULLPARM`** value.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `VER:SD-NULLPARM` output message.

## 5. REFERENCES

Output Message
`VER:SD-NULLPARM`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:SD-OLI
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

This message prints the information residing in the application database for the Segmentation Directory (**SD**) data.

## 2. FORMAT

**VER:SD;OLI!**

## 3. EXPLANATION OF MESSAGE

**OLI** Dumps the values in the Originating Line Information (**OLI**) screening table which cause Initial Address Message (IAM) intercept to not occur.

## 4. SYSTEM RESPONSE

PF Printout Follows. Followed by a VER:SD-OLI output message.

## 5. REFERENCES

Output Message
VER:SD-OLI

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VER:UPDATE
WORK CENTER . . MOC
GENERIC . . . . . 4AP16 and later
APPLICATION . . 4E
TYPE . . . . . Input

## 1. PURPOSE

Display tape header from a Generic (GEN), Library (LIB), Office Data Assembler (ODA), Network Management (NWM), Traffic and Plant Measurements (TPM) or Trouble Locating Program (TLP). The information includes the tape Identification (ID).

## 2. FORMAT

**`VER:UPDATE:TAPE,MT a!`**

## 3. EXPLANATION OF MESSAGE

`a` Tape unit number (`0|1`) indicating the tape drive where the tape is mounted.

## 4. SYSTEM RESPONSE

`NG` No Good.

— `TAPE DRIVE NOT READY - CORRECT AND RETRY`
Cannot access the specified tape unit.

`PF` Printout Follows. Followed by a `VER:UPDATE` output message.

## 5. REFERENCES

Input Messages
- `LOAD:UPDATE`
- `LOAD:UPDATE-GEN`
- `LOAD:UPDATE-NWM`
- `LOAD:UPDATE-ODA`

Output Message
- `LOAD:UPDATE`
- `LOAD:UPDATE-GEN`
- `LOAD:UPDATE-NWM`
- `LOAD:UPDATE-ODA`
- `VER:UPDATE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VFY:FILE
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Verifies the contents of files that are essential to the booting of the Administrative Module (AM).

Format 1 is used to verify `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert` only.

Format 2 is used to verify a single file or a list of files.

Format 3 is used to verify all essential files within a database partition.

When the **VFY:FILE** command is entered with no optional keywords it defaults to verifying. `/dev/boot`, `/dev/lboot`, `/dev/vtoc`, `/appdmert`, and `/dmert`. Thus, to use the database partition defaults, the user must supply at least one of the SG database options.

The **DELTA** keyword provides the following service. If **VFY:FILE** is using the `FLIST` keyword and finds a file name in the specification file with the checking option `g`, but that file is not found in the global `crcvalue` file, then **VFY:FILE** will generate an entry for that file in the global `crcvalue` file.

The **GEN** keyword will cause **VFY:FILE** to generate and store CRC information for the file or list of files provided.

**GEN** and **DELTA** make the assumption that the contents of each the files is correct before **VFY:FILE** is run and should be used only with extreme caution.

The **PRINT** option causes **VFY:FILE** to print the CRC information which it calculates for each essential file specified. No actual verification of the CRC information takes place.

The **PRINT** and **GEN** options may not be used together.

**NOTE:** The option to inhibit CRC checking should not be used unless checking CRC information for the specified file is not appropriate. Do not view this option as a fast way to verify essential files.

## 2. FORMAT

[1] **VFY:FILE!**

[2] **VFY:FILE:{FN** "a {[b][c][d]}"|**FLIST** "e"[**,DELTA**]}[**,MP** "f"
[**,OLMP** "g"][**,DN** h**,OFLPN** i]][**,GEN**|**,PRINT**]**!**

SEE PROPRIETARY NOTICE ON COVER PAGE

[3] **VFY:FILE:PKNAME**["j"],**PKNUM**[k],**DBPN**[l][,**MP** "f"
[,**OLMP** "g"][,**DN** h,**OFLPN** i]][,**PRINT**]!

## 3. EXPLANATION OF MESSAGE

a — The full pathname of the essential file to be verified.

b — First character in a one- to three-character string that indicates the type of checking to be performed. Indicates checking on CRC information.

- g — Checking on CRC stored globally.
- i — Checking on CRC stored internally.
- n — Used to inhibit CRC checking.

c — Second character in a one- to three-character string that indicates the type of checking to be performed. Indicates executable by owner.

- X — Indicates checking for execution permission by owner.

d — Third character in a one- to three-character string that indicates the type of checking to be performed. Indicates file type.

- - — Regular
- 1 — Contiguous
- 2 — Extent
- B — Block
- C — Character
- D — Directory
- I — IOP
- P — Pipe
- R — Record

**NOTE:** The checks for executable by owner and file type are optional as long as CRC checking is specified. If CRC checking is inhibited, then at least one of the optional checks must be specified.

e — The full pathname of a specification file containing entries in the format argument.

f — The full pathname of the directory where the database partition is mounted or where the off-line partition is to be mounted. Default is "/".

SEE PROPRIETARY NOTICE ON COVER PAGE

`g` The corresponding On-Line Mount Point (OLMP) of the file system containing the files being verified. For a non-root file system, if the file names stored in `/.crcvalues` were stored relative to `"/"` (for example, no `MP` option was used when the CRC was generated and stored), then the OLMP option must be used when verifying the contents of a copy of this file which resides on an off-line partition.

`h` The number of the off-line disk which contains the files to be verified (`0-31`). Default is to use the on-line disks.

`i` The number of the off-line disk partition to be verified (`0-63`). Default is to use on-line disk partitions.

`j` A two-character string indicating the pack name of the SG database partition to be verified. This value is the same as the `pack_name` field in the `fs` record for the database partition. Default is `rt`.

`k` The pack number which corresponds to the `pack_number` field in the fs record for the database partition being verified (`0-32767`). Default is `0`.

`l` The SG database partition number of the SG database partition corresponding to the `par_number` in the partition's `fs` record (`0-63`). Default is `5`.

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `VFY:FILE` output message.

## 5. REFERENCES

CIC Select Code 303-010 *UNIX® RTR Operating System Recent Change and Verify User's Guide Lucent Technologies 3B20D/3B21D Computer*

Practice 254-341-230 *Craft Interface Software Subsystem Description Lucent Technologies 3B20D/3B21D Computer*

Output Message
`VFY:FILE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VFY:MHD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Reads all or specific disk tracks or blocks and verifies the header and error-correction code of each sector of the tracks or blocks read. The error-correction code is read to verify the correctability of the data in each sector.

For Storage Module Device (SMD) disk drives, the header contains the cylinder, track, and sector identification numbers, and should match the SMD Disk File Controller (DFC) internal head position data.

For Small Computer System Interface (SCSI) disk drives, the error-correction code is read to verify the correctability of the data in each disk block.

The Moving Head Disk (**MHD**) does not have to be in the active state for this command to work.

**NOTE:** It may take several minutes to verify a complete disk.

For SMD DFC, this request may fail to complete if it is input while another **MHD**-related request is active on the same DFC. If this happens, repeat the request after the other command completes.

For SCSI DFC, a maximum of two verify requests are possible for different **MHD**s on the same DFC.

## 2. FORMAT

[1] **VFY:MHD** a[**,TRACK** b[-c]]!

[2] **VFY:MHD** a[**,BLOCK** d[-e]]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | **MHD** member number (0-255). |
| b | Track(s) of the SMD **MHD** to be verified, in decimal notation. May be the first track of a range (0-17064). |
| c | The last track (0-17064). |
| d | Block(s) of the SCSI **MHD** to be verified, in decimal notation. May be the first block of a range (0-2147483646). |
| e | The last block (0-2147483646). |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 4. SYSTEM RESPONSE

`PF` Printout Follows. Followed by a `VFY:MHD` output message.

## 5. REFERENCES

Display/Menu Page Name
`DISK FILE SYSTEM ACCESS`

CIC Select Code 303-009 *LucentTechnologies 3B20D/3B21D Computer UNIX® RTR Operating System System Maintenance Manual*

Input Message
`INIT:MHD`

Output Message
`VFY:MHD`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VFY:PAUTH
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Format 1 allows verification of the status of a person or group with the associated date and time of the last login.

Format 2 verifies users who have not logged in within a specified amount of time. This enables the system administrator to identify unused or dormant Identities (IDs) and improve the administration of security.

## 2. FORMAT

[1] **`VFY:PAUTH`**`[`**`:IDENT`** `"a"]["`**`,STATUS`** `b]`**`!`**

[2] **`VFY:PAUTH:DORMANT`** `c`**`!`**

## 3. EXPLANATION OF MESSAGE

`a` Identity or user ID of the person or group to whom the associated date, time, and status applies.

`b` Status of the user ID:

`DISABLE`

`ENABLE`

`c` Specifies the number of days that can pass before a user ID is considered dormant. User identities that surpass this number of days are printed out. User identities that surpass logged in are also printed out. Users who have never logged in are also printed.

## 4. SYSTEM RESPONSE

`NG` No Good. Includes one of the following:

— `NON-EXISTENT PERSON IDENTITY`
The given person identity does not exist in the person authority administration.
— `UNABLE TO ACCESS AUTHORITY ADMINISTRATION`
Person authority information is inaccessible.
— `NO DORMANT USERS PRESENT`
There are no dormant users falling within the specified number of days, as given.

`PF` Printout Follows. Followed by a `VFY:PAUTH` output message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Input Messages

```
ADD:PAUTH
CHG:PAUTH
DEL:PAUTH
RNM:PSSWD
```

Output Message

```
VFY:PAUTH
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VFY:PCGRP
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Verifies a user's command groups in the Person Command Group (**PCGRP**) database.

## 2. FORMAT

**VFY:PCGRP:IDENT** "a"!

## 3. EXPLANATION OF MESSAGE

a — Identity of the person or group in one to eight letters and/or digits.

## 4. SYSTEM RESPONSE

NG — No Good.

— NO AUTHORITY GROUPS ASSIGNED TO THIS PERSON
No authority groups have been assigned to this personal identity; see the ADD:PCGRP input message.

— NON-EXISTENT PERSON IDENTITY
The given person identity does not exist in the personal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Personal authority information is inaccessible.

PF — Printout Follows. Followed by a VFY:PCGRP output message.

## 5. REFERENCES

Input Messages
- ADD:PAUTH
- ADD:PCGRP
- ADD:PROFL
- CHG:PAUTH
- CHG:PROFL
- DEL:PAUTH
- DEL:PCGRP
- DEL:PROFL
- RNM:PSSWD
- VFY:PAUTH
- VFY:PROFL

Output Messages
- VFY:PAUTH
- VFY:PCGRP

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VFY:PROFL
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Verifies all profile names or the command groups associated with a given profile (Identity). If the optional **IDENT** parameter is not specified, only the profile name list is printed.

## 2. FORMAT

**VFY:PROFL**[,**IDENT** "a"]!

## 3. EXPLANATION OF MESSAGE

a — Identity of the profile in one to eight letters and/or digits.

## 4. SYSTEM RESPONSE

NG — No Good. Includes one of the following:

— NO AUTHORITY GROUPS ASSIGNED TO THIS PROFILE
No command group is assigned to this profile.

— NON-EXISTENT PROFILE IDENTITY
The given profile identity does not exist in the profile administration.

— PASSWORD ENHANCEMENT NOT ACTIVATED
This command is valid only for applications running with the password enhancement feature enabled.

— UNABLE TO ACCESS PROFILE ADMINISTRATION
Profile information is inaccessible.

PF — Printout Follows. Followed by the VFY:PROFL output message.

## 5. REFERENCES

Input Messages
ADD:PROFL
CHG:PROFL
DEL:PROFL

Output Message
VFY:PROFL

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VFY:TAPE
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Verifies the readability of information on computer system tapes and the consistency of corresponding hash sums.

System tapes are formatted as a series of headers, each followed by a number of data blocks (or records). A header contains information concerning the number of data blocks that follow it and the size of the blocks. The last header on the tape has no associated data records and is called the trailer header. Each header also contains a hash sum for the header itself and a hash sum for the total of all its corresponding records. Tape verification will check the header and data hash sums and verify all information is readable.

On a Digital Audio Tape (DAT), a single session or a single volume can be verified. A DAT may be formatted as a multi-volume tape; that is, it may contain headers and data blocks for more than one logical volume. One of these logical volumes or several logical volumes grouped together form a session, and several sessions may be found on a DAT.

## 2. FORMAT

```
VFY:TAPE,TD "a"[;RETRY b][,SESS c[,VOL d]][,VERBOSE]!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| `a` | Special device file name of the tape drive where system tape to be verified is loaded. See the *User Guidelines* in this document for descriptions and examples of tape device names. |
| `b` | Number of times to retry after tape read errors (`0-9`). Default is f42. If a read attempt is unsuccessful, the tape will backspace and try to read again until either the attempt is successful or the retry count is exceeded. |
| `c` | Number of the session that is to be verified (`1-9`). This option is only valid for a multi-volume DAT. |
| `d` | Number of the volume that is to be verified (`0-9`). This option is only valid for a multi-volume DAT. |
| **`VERBOSE`** | A line of output is produced for each header hash sum successfully read, and for each header or data record that was successfully read but required retries. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `PF` | Printout Follows. Followed by a `VFY:TAPE` output message. |

SEE PROPRIETARY NOTICE ON COVER PAGE

## 5. REFERENCES

Output Message
`VFY:TAPE`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . VFY:TAUTH
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Verifies all terminal identities in the Terminal Authority (**TAUTH**) database.

## 2. FORMAT

**VFY:TAUTH!**

## 3. EXPLANATION OF MESSAGE

See Purpose.

## 4. SYSTEM RESPONSE

NG — No Good. Includes one of the following:

— NO TERMINAL AUTHORITY PRESENT
No terminal authority has been entered on this machine; see the ADD:TAUTH input message.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Terminal authority information is inaccessible.

PF — Printout Follows. Followed by the VFY:TAUTH output message.

## 5. REFERENCES

Input Messages
ADD:TAUTH
DEL:TAUTH

Output Message
VFY:TAUTH

SEE PROPRIETARY NOTICE ON COVER PAGE

ID ..... VFY:TCGRP
WORK CENTER.. MOC
GENERIC ..... 4AP12 and later
APPLICATION .. 4E,3B
TYPE ..... Input

## 1. PURPOSE

Verifies command groups assigned to a Terminal (**TERM**) identity in the Terminal Command Group (**TCGRP**) database.

## 2. FORMAT

**VFY:TCGRP:TERM** "a"!

## 3. EXPLANATION OF MESSAGE

a — Terminal identity in four characters, starting with tty.

## 4. SYSTEM RESPONSE

NG — No Good. Includes one of the following:

— INVALID TERMINAL IDENTITY
The given terminal identity is either not four characters in length or does not start with tty.

— NO AUTHORITY GROUPS ASSIGNED TO THIS TERMINAL
No authority groups have been assigned to this terminal identity;

— NON-EXISTENT TERMINAL IDENTITY
The given terminal identity does not exist in the terminal authority administration.

— UNABLE TO ACCESS AUTHORITY ADMINISTRATION
Terminal authority information is inaccessible.

PF — Printout Follows. Followed by the VFY:TCGRP output message.

## 5. REFERENCES

Input Messages
ADD:TAUTH
ADD:TCGRP
DEL:TAUTH
DEL:TCGRP
VFY:TAUTH

SEE PROPRIETARY NOTICE ON COVER PAGE

Output Messages

`VFY:TAUTH`
`VFY:TCGRP`

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . WHEN:COND
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Starts a list of computer Generic Access Package (GRASP) commands that are to be performed when an external event breakpoint condition exists. The list of commands is called and action list.

An external event condition exists when the external event backplane signal becomes active.

Commands following a `WHEN:COND` command are restricted to the following list. A maximum of five commands is allowed in the action lists.

**`ALW: {UTIL|UTILFLAG|UMEM}`**

**`INH: {UTIL|UTILFLAG|UMEM}`**

**`DUMP: {ADDR|PMEM|REG|UVAR}`**

**`COPY:`** all forms of the command, except PID or PID source.

**`LOAD:`** all forms of the command.

**NOTE:** See the message descriptions for the details of how the commands are used within the `WHEN` command.

The action list is terminated with the `END:WHEN` input message.

## 2. FORMAT

**`WHEN:COND E!`**

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| **`E`** | Action list performed when an external event occurs. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| `?A` | Action field contains an error. Invalid keyword. The command is not allowed in a `WHEN` action list. `END:WHEN` expected after the fifth action. |
| `?I` | Identification field contains an error. |
| `IP` | In Progress. Breakpoint condition is understood. The associated action list is expected to follow. |

SEE PROPRIETARY NOTICE ON COVER PAGE

`NG` No Good. Includes one of the following:

— `TOO MANY BREAKPOINTS`
Only 20 breakpoints are permitted at one time.

— `UCERR`
The utility circuit is unavailable.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Input Messages

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-MHD
COPY:F-CFILE
COPY:F-FILE
COPY:OOSDISK
COPY:P-ALL
COPY:PID
COPY:REG
COPY:SPDISK
COPY:T-EMERDMP
COPY:T-IN
COPY:T-OUT
COPY:T-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR-A
DUMP:PMEM
DUMP:REG-A
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR-A
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:PMEM
LOAD:REG-A
LOAD:UVAR
OP:UMEM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
OP:UTIL
WHEN:UID
```

Output Messages

```
OP:UTIL
REPT:GRASP
WHEN:COND
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . WHEN:PID
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Starts a list of computer Generic Access Package (GRASP) messages that are to be performed when a specified breakpoint condition exists. The list of messages is called an action list. Two types of breakpoint conditions are recognized: instruction-execution conditions and data-access conditions.

Format 1 is used when instruction-execution breakpoints are required.

Format 2 is used when data-access breakpoints are required.

Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address.

Data access is indicated by specifying both the virtual address within the process and the type of access to be detected: read, write, or read and write.

A data-access breakpoint will fire if the location specified is addressed with the correct access type. A data-access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access tape.

Messages following the `WHEN` message are restricted to the following list. A maximum of five messages are allowed in action lists.

**`ALW:`** {**`UTIL`**|**`UTILFLAG`**|**`UMEM`**}

**`COPY:`** All forms of the message except Process ID (**`PID`**) or Utility ID (UID) source.

**`DUMP: {ADDR|PMEM|REG|UVAR}`**

**`INH: {UTIL|UTILFLAG|UMEM}`**

**`LOAD:`** All forms of the message.

**NOTE:** See the message description for the details of how the messages are used within the `WHEN` message.

The action list is terminated with the `END:WHEN` input message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

[1] **WHEN:PID** a,**ADDR** b,**OPC** c;**EXC**[,**WORD**]/

[2] **WHEN:PID** a,**ADDR** {b[-d][,**L** e]};{**R**|**W**|**RW**}[,**WORD**]/

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Process ID (**PID**) of the target process. |
| b | Virtual byte address for the breakpoint, or the beginning address of a range of addresses, in decimal, octal, or hexadecimal notation. |
| c | One-byte opcode expected to be found at the breakpoint address. The value is checked for software implemented breakpoints only. |
| **EXC** | Execute the action list when the breakpoint address is executed. |
| **WORD** | Interpret the address and length fields as words. If this option is omitted, they are assumed to be byte values. |
| d | End address for a range of addresses. |
| e | Length of a range of addresses in bytes. |
| **R** | Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es). |
| **W** | Trigger the action list when a write operation occurs on any part of the full memory word containing the specified byte address(es). |
| **RW** | Trigger the action list when either the **R** or the **W** condition is met. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. Invalid keyword. The message is not allowed in a WHEN action list. END:WHEN is expected after the fifth action. |
| ?I | Identification field contains an error. General syntax error or one of the following errors:<br>— RANGE ERROR (PID)<br>Process ID is out of range.<br>— RANGE ERROR (OPC)<br>One-byte opcode is expected.<br>— INCONSISTENT DATA (ADDR)<br>Address range must be in ascending order. |
| IP | In Progress. Breakpoint condition is understood. The associated action list is expected to follow. |
| NG | No Good. Includes one of the following:<br>— BAD PID<br>The process ID is for a process for which dumps are not permitted.<br>— TOO MANY BREAKPOINTS<br>Only 20 breakpoints are permitted at one time. |

SEE PROPRIETARY NOTICE ON COVER PAGE

— UCERR
The utility circuit is unavailable.

RL — Retry Later. The system is in an overload condition, or wait for previous OP:UMEM or OP:UMEM;MCH input command to complete.

## 5. REFERENCES

Practice 254-341-115 *Generic Access Package (GRASP) Software Subsystem Description 3B20D/3B21D Processor*

Input Messages

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-MHD
COPY:F-CFILE
COPY:F-FILE
COPY:OOSDISK
COPY:P-ALL
COPY:PID
COPY:REG
COPY:SPDISK
COPY:T-EMERDMP
COPY:T-IN
COPY:T-OUT
COPY:T-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR-A
DUMP:PMEM
DUMP:REG-A
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR-A
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD-DEFECT
LOAD:MHD-FIRM
LOAD:PMEM
LOAD:REG-A
LOAD:UVAR
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
OP:ST-PROC
OP:UMEM
OP:UTIL
WHEN:UID
```

Output Messages

```
OP:UTIL
WHEN:PID
REPT:GRASP
```

SEE PROPRIETARY NOTICE ON COVER PAGE

**WARNING**
**INAPPROPRIATE USE OF THIS MESSAGE MAY INTERRUPT OR DEGRADE SERVICE. READ PURPOSE CAREFULLY.**

ID . . . . . WHEN:RUTIL
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

**WARNING**
**Incorrect use of this command may interrupt operation of a node on the ring or the whole ring.**
**READ PURPOSE CAREFULLY**

## 1. PURPOSE

Sets a RGRASP breakpoint in the specified node along with a specified action-list to be performed by the node when the breakpoint fires.

The action-list is entered at the `WHEN` prompt after the `WHEN` input command is entered. The action-list is terminated by the `END:WHEN` input command.

An attempt is made to set the given breakpoint at the specified node with the action-list provided. The results of this operation will be displayed. On a successful breakpoint setup, the breakpoint is automatically inhibited (disabled). The user must use the `ALW:RUTIL` command to enable this breakpoint. In a given node, the maximum number of outstanding `<action-list>` items allowed is 24. The user will be prompted for `<action-list>` items.

Nested `WHEN:RUTIL` commands are not allowed.

Valid action-list commands are `ALW:RUTIL` or `INH:RUTIL`.

The remaining commands are valid only within a `WHEN` action-list:

`DUMP:ADDR` — Dumps the contents at the specified address for the given length when the breakpoint fires.

`DUMP:REG` — Dumps the contents of the given target processor register when the breakpoint fires.

`LOAD:BYTE` — Loads the contents at the address with the given data when the breakpoint fires.

`LOAD:REG` — Loads the contents of the register with the given data when the breakpoint fires.

`LOAD:SHORT` — Loads the contents at the address with the given data when the breakpoint fires.

`LOAD:WORD` — Loads the contents at the address with the given data when the breakpoint fires.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

```
WHEN:RUTIL(a,b),AP;ADDR X'c,OPC X'd;EXC!
[DUMP:ADDR X'e,Lf!]
[DUMP:REG g!]
[LOAD:BYTE X'h:D X'i!]
[LOAD:REG g:D X'j!]
[LOAD:SHORT X'k:D X'l!]
[LOAD:WORD X'm:D X'n!]
[ALW:RUTIL(a,b),AP[;MHIT o]!]
[ALW:RUTILFLAG(a,b),AP;BP p[,MHIT p]!]
[INH:RUTIL(a,b),AP!]
[INH:RUTILFLAG(a,b),AP;BP p!]
END:WHEN!
```

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Group number (0 – 63) of the node. |
| b | Member number (1 – 15) of the node. |
| c | Address of the breakpoint in hexadecimal. This must be the address of the first byte of a target processor instruction. |
| d | Opcode of text where breakpoint will be placed in hexadecimal. |
| e | Address to begin dump in hexadecimal. |
| f | Number of bytes to dump in decimal. |
| g | Name of the register to dump or load. The following are valid node Attached Processor register names:<br><br>68000 and 68030 CPU's:<br>A0, A1, A2, A3, A4, A5, A6, A7, D0, D1, D2, D3, D4, D5, D6, D7, ISP, SR, PC, TRADR, USP<br><br>68030 CPU only:<br>DFC, MMUSR, MSP, SFC, SRPH, SRPL, TC, TT0, TT1, VBR, VOFSET CAAR, CACR, CCR, CRPH, CRPL |
| h | Address to load data in hexadecimal. |
| i | Data value to load in hexadecimal. The data provided must be a byte value. (e.g., X'0A, X'7F) |
| j | Data value to load in hexadecimal. (a maximum of four bytes) |
| k | Address to load data in hexadecimal. The address provided is expected to be an even address, e.g., X'FE3402. |
| l | Data value to load in hexadecimal. The data provided is expected to be a two-byte value, e.g., X'0001, X'ABCD. |
| m | Address to load data in hexadecimal. The address provided is expected to be a four-byte boundary. |

SEE PROPRIETARY NOTICE ON COVER PAGE

| | |
|---|---|
| `n` | Data value to load in hexadecimal. The data provided is expected to be a four-byte value, e.g., X'00000001, X'ABCDEF55. |
| `o` | Specific breakpoint to be allowed. |
| `p` | Maximum number of hits to be allowed for that breakpoint. (If not specified **`MHIT`** is set to 10.) |

## 4. SYSTEM RESPONSE

See Purpose.

## 5. REFERENCES

Input Messages

```
ALW:RUTIL
INH:RUTIL
DUMP:ADDR-B
DUMP:REG-B
LOAD:BYTE
LOAD:REG-B
LOAD:SHORT
LOAD:WORD
OP:RUTIL
```

Output Message

```
WHEN:RUTIL
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . WHEN:UID
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

## 1. PURPOSE

Starts a list of computer Generic Access Package (GRASP) messages that are to be performed when a specified breakpoint condition exists. The list of messages is called an action list. Two types of breakpoint conditions are recognized: instruction-execution conditions and data-access conditions.

Format 1 is used when instruction-execution breakpoints are required.

Format 2 is used when data-access breakpoints are required.

Instruction execution is detected by specifying a virtual address within a process. When the instruction at that address is executed, the action list is executed. The first byte of the instruction opcode expected to be found at that address must be specified in the message. The breakpoint definition is rejected if this opcode does not agree with the opcode found at the virtual address.

Data access is indicated by specifying both the virtual address within a process and the type of access to be detected: read, write, or read and write.

A data-access breakpoint will fire if the location specified is addressed with the correct access type. A data-access breakpoint over a range of data locations will fire if any location in the range is addressed with the correct access type.

Messages following the `WHEN` message are restricted to the following list. A maximum of five messages is allowed in action lists.

**`ALW: {UTIL|UTILFLAG|UMEM}`**

**`COPY:`** All forms of the message, except PID or UID source.

**`DUMP:`** {**`ADDR`**|**`PMEM`**|**`REG`**|**`UVAR`**}

**`INH: {UTIL|UTILFLAG|UMEM}`**

**`LOAD:`** All forms of the message.

**NOTE:** See the message descriptions for the details of how the messages are used within the `WHEN` message.

The action list is terminated with the `END:WHEN` message.

SEE PROPRIETARY NOTICE ON COVER PAGE

## 2. FORMAT

[1] **WHEN:UID** a,**ADDR** b,**OPC** c;**EXC**[,**WORD**]!

[2] **WHEN:UID** a,**ADDR** {b[-d][,**L** e]};{**R**|**W**|**RW**}[,**WORD**]!

## 3. EXPLANATION OF MESSAGE

| | |
|---|---|
| a | Utility ID (UID) number of target process. |
| b | Virtual byte address for the breakpoint or first address in a range of addresses. Specified in decimal, octal, or hexadecimal notation. |
| c | One byte opcode expected to be found at the breakpoint address. The value is only checked for software implemented breakpoints. |
| **EXC** | Trigger the action list when the breakpoint address is executed. |
| **WORD** | Interpret address and length fields as words. If this option is omitted, they are assumed to be byte values. |
| d | End address for a range of addresses. |
| e | Length of a range of addresses in bytes. |
| **R** | Trigger the action list when a read operation occurs on any part of the full memory word containing the specified byte address(es). |
| **W** | Trigger the action list when a write operation occurs on any part of the full memory word containing the specified byte address(es). |
| **RW** | Trigger the action list when either the **R** or the **W** condition is met. |

## 4. SYSTEM RESPONSE

| | |
|---|---|
| ?A | Action field contains an error. Invalid keyword. The message is not allowed in a WHEN action list.<br>— END:WHEN is expected after the fifth action. |
| ?I | Identification field contains an error. General syntax error or one of the following errors:<br>— INCONSISTENT DATA (ADDR)<br>Address range must be in ascending order.<br>— RANGE ERROR (OPC)<br>One byte opcode is expected.<br>— RANGE ERROR (UID)<br>Utility ID is out of range. |
| IP | In Progress. Breakpoint condition is understood. The associated action list is expected to follow. |

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`NG` No Good. Includes one of the following:

— `BAD UID`
The UID is for a process for which dumps are not permitted.
— `TOO MANY BREAKPOINTS`
Only 20 breakpoints are permitted at one time.
— `UCERR`
The utility circuit is unavailable.

`RL` Retry Later. The system is in an overload condition, or wait for previous `OP:UMEM` or `OP:UMEM;MCH` input command to complete.

## 5. REFERENCES

Input Messages

```
ALW:UMEM
ALW:UTIL
ALW:UTILFLAG
CLR:UTIL
CLR:UTILFLAG
COPY:ACTDISK
COPY:ADDR
COPY:BKDISK
COPY:DIFF-MHD
COPY:F-CFILE
COPY:F-FILE
COPY:OOSDISK
COPY:P-ALL
COPY:PID
COPY:REG
COPY:SPDISK
COPY:T-EMERDMP
COPY:T-IN
COPY:T-OUT
COPY:T-TEST
COPY:UID
COPY:UVAR
DUMP:ADDR-A
DUMP:PMEM
DUMP:REG-A
DUMP:UVAR
END:WHEN
INH:UMEM
INH:UTIL
INH:UTILFLAG
INIT:UMEM
LOAD:ADDR-A
LOAD:DFC-PUMP
LOAD:DFC-RAM
LOAD:MHD-DEFECT
LOAD:MHD-FIRM
```

SEE PROPRIETARY NOTICE ON COVER PAGE

```
LOAD:PMEM
LOAD:REG-A
LOAD:UVAR
OP:UTIL
OP:UMEM
WHEN:PID
```

Output Messages

```
OP:UTIL
REPT:GRASP
WHEN:UID
```

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APP:AUD
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

System Responses for Audit System Input Messages

| Response | Message | Meaning |
|---|---|---|
| ?D | EXTRA KEYWORD | Too many keywords in data field. |
| ?D | INVALID CHARACTER | Member number given was not numeric. |
| ?D | INVALID DATA, ERROR 101 | Cannot specify a range of member numbers. |
| ?D | INVALID DATA, ERROR 102 | Only one member number allowed. |
| ?D | INVALID DATA, ERROR 103 | The record for the specified audit name and member number is not found in the equipment configuration database. |
| ?D | INVALID DATA, ERROR 105 | An instance can be associated with one and only one audit name and member number. |
| ?D | INVALID DATA, ERROR 201 | The data field must be empty. |
| ?D | INVALID DATA, ERROR 202 | Only one instance can be specified. |
| ?D | INVALID DATA, ERROR 203 | The record for the specified instance is not in the equipment configuration database for the given audit name and member number. |
| ?D | INVALID DATA, ERROR 204 | *No additional data can be entered when* ALL is used as an input to audit user input messages, such as ALW, INH, and OP, or when RUN is used with the OP:AUD input message. |
| ?D | INVALID DATA, ERROR 501 | Data string to AUD command too long. |
| ?D | INVALID DATA, ERROR 502 | Data string for AUD command should not have an argument. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| ?D | INVALID KEYWORD, ERROR 101 | The audit name is too long. |
| ?D | INVALID KEYWORD, ERROR 102 | No records for specified audit name were found in the equipment configuration database. |
| ?D | INVALID KEYWORD, ERROR 201 | The keyword is not INS. |
| ?D | INVALID KEYWORD, ERROR 501 | Keyword is not PARAM. |
| ?D | MISSING DATA, ERROR 101 | No member number was given. |
| ?D | MISSING DATA, ERROR 201 | The INS keyword was entered, but no instance name was specified. |
| ?D | MISSING DATA, ERROR 501 | The PARAM keyword was entered, but no additional parameter string was specified. |
| ?D | RANGE ERROR | Member number out of range. |
| ?E | INPUT ERROR | The command could not determine what action was requested. |
| ?I | INCONSISTENT KEYWORDS | Conflicting action items. |
| ?I | INVALID DATA, ERROR 101 | Cannot specify a range. |
| ?I | INVALID DATA, ERROR 102 | Only one member number allowed. |
| ?I | INVALID DATA, ERROR 103 | The record for the specified audit name and member number is not found in the equipment configuration database. |
| ?I | INVALID DATA, ERROR 201 | The instance name is too long. |
| ?I | INVALID DATA, ERROR 202 | Only one instance can be specified. |
| ?I | INVALID DATA, ERROR 203 | The record for the specified instance is not in the equipment configuration database for the given audit name and member number. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| ?I | INVALID DATA, ERROR 301 | First action option keyword must not have a keyword data field. |
| ?I | INVALID DATA, ERROR 302 | Second action option keyword must not have a keyword data field. |
| ?I | INVALID DATA, ERROR 401 | Keyword data cannot follow keyword AUD. |
| ?I | EXTRA KEYWORD, ERROR 1 | Too many action options. |
| ?I | EXTRA KEYWORD, ERROR 2 | The third identification field subfield must be empty. |
| ?I | INVALID KEYWORD, ERROR 101 | The audit name is too long. |
| ?I | INVALID KEYWORD, ERROR 201 | The keyword is not INS. |
| ?I | INVALID KEYWORD, ERROR 202 | The keyword is invalid. |
| ?I | INVALID KEYWORD, ERROR 203 | The keyword RUN is valid only with the OP:AUD input message. |
| ?I | INVALID KEYWORD, ERROR 301 | The first action option is not valid. |
| ?I | INVALID KEYWORD, ERROR 401 | The second action option is not valid. |
| ?I | INVALID KEYWORD, ERROR 501 | ID keywords cannot follow AUD keyword. |
| ?I | MISSING DATA, ERROR 101 | No member number was given. |
| ?I | MISSING DATA, ERROR 201 | The INS keyword was entered, but no instance name was specified. |
| ?I | MISSING KEYWORD, ERROR 1 | No audit name was given. |
| ?I | MISSING KEYWORD, ERROR 2 | The INS keyword (and its data) is missing. |
| ?I | RANGE ERROR | Member number out of range. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| NG | ALREADY ALLOWED, ERROR 1 | All member numbers associated with the audit name are already allowed. At least one member must not be currently allowed for the ALW:AUD input message to be executed. |
| NG | ALREADY ALLOWED, ERROR 2 | At least one of the specified members is already allowed. Use the OP:AUD input message to determine which members associated with the audit are currently allowed and which are not. |
| NG | ALREADY ALLOWED, ERROR 3 | The instance of the audit is already allowed. |
| NG | ALREADY INHIBITED, ERROR 1 | All the member numbers associated with the audit name are already inhibited. There must be at least one member number which is not inhibited. |
| NG | ALREADY INHIBITED, ERROR 2 | At least one of the specified members is already inhibited. Use the OP:AUD input message to determine which members associated with the audit are currently inhibited and which are not. |
| NG | ALREADY INHIBITED, ERROR 3 | The instance of the audit is already inhibited. |
| NG | NO CHANGE | No change. |
| NG | NOT MANUAL AUDIT | Not manual audit. |
| NG | NOT RUNNING | The audit specified to be stopped is not running. |
| RL | ALREADY RUNNING | The requested audit is already running. |
| RL | AUDIT BLOCKED | Audit blocked. |
| RL | AUDIT PROCESS NOT FULLY CREATED | Audit has not been dispatched yet; retry STOP:AUD later. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| RL | DIFFERENT MEMBER OF THIS AUDIT RUNNING | Another audit with the same name is already running. Only uniquely-named audits are permitted to run at the same time.<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |

**NOTE:** If the following equipment configuration database error conditions continue, seek technical assistance.

| | | |
|---|---|---|
| RL | ECD INTERFACE ERROR 1 | Cannot attach the segments of the equipment configuration database to the command. |
| RL | ECD INTERFACE ERROR 2 | Cannot connect to the equipment configuration database. |
| RL | ECD INTERFACE ERROR 3 | Cannot read the equipment configuration database control record. |
| RL | ECD INTERFACE ERROR 4 | Cannot open a sequence for all audits with the specified name. |
| RL | ECD INTERFACE ERROR 5 | Error occurred while obtaining an audit record sequentially. |
| RL | ECD INTERFACE ERROR 6 | Error occurred while obtaining an audit record by key. |
| RL | ECD INTERFACE ERROR 7 | Error occurred while obtaining an instance record. |
| RL | ECD INTERFACE ERROR 8 | Cannot read System Integrity Monitor (SIM) control record. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| RL | MAXIMUM KERNEL AUDITS RUNNING | A kernel process audit is already running, and only one kernel process audit may run at one time. (It may have been initiated manually, or by a system process.)<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |
| RL | MAXIMUM SUPERVISOR AUDITS RUNNING | The maximum number of supervisor process audits is already running. (They may have been initiated manually, or by a system process.) This number is controlled by a parameter in the System Integrity Monitor Control (SIMCNTL) record in the equipment configuration database.<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |
| RL | RUNNING AUDIT, ERROR 6 | The requested audit is already running. |
| RL | RUNNING AUDIT, ERROR 7 | A kernel process audit is already running, and only one kernel process audit may run at one time. (It may have been initiated manually, or by a system process.)<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |

SEE PROPRIETARY NOTICE ON COVER PAGE

System Responses for Audit System Input Messages *(continued)*

| Response | Message | Meaning |
|---|---|---|
| RL | RUNNING AUDIT, ERROR 8 | The maximum number of supervisor process audits is already running. (They may have been initiated manually, or by a system process.) This number is controlled by a parameter in the System Integrity Monitor Control (SIMCNTL) record in the equipment configuration database.<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |
| RL | RUNNING AUDIT, ERROR 11 | Another audit with the same name is already running. Only uniquely-named audits are permitted to run at the same time.<br><br>The OP:AUD input message may be used to obtain further information about currently running audits which may be preventing the initiation of the requested audit. |
| RL | SIM INTERFACE ERROR 3 | Audit system initialization is in progress. |
| RL | SIM INTERFACE ERROR 4 | Audit system initialization failed. |
| RL | SIM INTERFACE ERROR 5 | SIM was unable to access an equipment configuration database record using a Record Identifier (RID) passed to it by the command program. |
| RL | SIM INTERFACE ERROR 10 | SIM failed to start the audit. |
| RL | SIM INTERFACE ERROR 15 | System integrity output formatter is dead. |
| RL | SIM INTERFACE ERROR 19 | An invalid RID was passed to SIM by the command program. |
| RL | SIM INTERFACE ERROR 20 | An invalid instance RID was passed to SIM by the command program. |
| RL | SIM INTERFACE ERROR 23 | Cannot stop a non-segmented audit. |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APP:MEM-NUM-A
WORK CENTER . . MOC
GENERIC . . . . . 4AP13 and later
APPLICATION . . 4E,CNI
TYPE . . . . . Input

CNI Ring Nodes Audit Names and Member Numbers

| Audit Name | Member Number | Audit Description |
|---|---|---|
| ATP | 1 | Idle Call Block List |
| | 2 | Active Call Blocks |
| | 3 | TSN Table |
| | 4 | Timer Lists |
| | 5 | Access Table |
| | 6 | Ring Write Buffers Pools |
| | 7 | Call Blocks between Nodes |
| | 8 | Database Pointers |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APP:MEM-NUM-B
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

Audit Names and Member Numbers

| Audit Name | Member Number | Audit Description |
|---|---|---|
| CUMEM | 1 | Control unit memory comparison |
| CUSTAT | 1 | Control unit hardware status |
| ECD | 1 | Incore Equipment Configuration Database (ECD) structure |
| | 2 | Disk ECD structure |
| | 3 | Incore ECD raw data |
| ECDOWN | 1 | ECD record ownership |
| FMGR | 1 | File manager task queue |
| | 2 | File manager incore inode table |
| | 3 | File manager hash table & inode pointer |
| | 4 | File manager file table |
| | 5 | File manager capability table |
| | 6 | File manager buffers |
| | 7 | File manager mount table |
| | 8 | File manager delayed queue |
| | 9 | File manager message queue |
| FSBLK | 1 | File system block (all file systems) |
| FSCMPT | 1 | File system compaction (all file systems) |
| FSLINK | 1 | File system link (all file systems) |

SEE PROPRIETARY NOTICE ON COVER PAGE

Table B Audit Names and Member Numbers *(continued)*

| Audit Name | Member Number | Audit Description |
|---|---|---|
| MMGR | 1 | Memory manager segment descriptor table |
| | 2 | Memory manager page tables |
| | 3 | Memory manager page descriptor table |
| | 4 | Memory manager segment release |
| | 5 | Memory manager segment unlock |
| | 9 | Memory manager swap space compaction |
| MSGBUF | 1 | Message buffer queues |
| | 2 | Message buffer extenders |
| PMS | 1 | Plant measurements database integrity |
| | 2 | Plant measurements database recovery |
| PROAD | 1 | Process administration |

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APP:MEM-NUM-C
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

Computer Hardware Unit Names and Member Numbers

| Unit Name | Meaning | *Allowed Member Numbers |
|---|---|---|
| CU | Control unit | 0 or 1 |
| DCI | Dual serial channel/computer interconnect | 0 - 255 |
| DFC | Disk file controller | 0 - 7 |
| DUI | Direct user interface | 0 - 255 |
| DUIC | DUI controller | 0 - 255 |
| HSD | High-speed synchronous data link | 0 - 255 |
| HSDC | HSD controller | 0 - 255 |
| IOP | Input/output processor | 0 - 15 |
| MHD | Moving head disk | 0 - 255 |
| MT | Magnetic tape drive | 0 - 255 |
| MTC | Magnetic tape controller | 0 - 255 |
| MTTY | Maintenance terminal | 0 - 255 |
| MTTYC | MTTY controller | 0 - 255 |
| ROP | Receive only printer | 0 - 255 |
| SBUS | SCSI Bus | 0 - 255 |
| SCC | Switching Control Center data link | 0 - 255 |
| SCSDC | Scanner & signal distributor controller | 0 - 255 |
| SDL | Synchronous data link | 0 - 255 |
| SDLC | Synchronous data link controller | 0 - 255 |
| TTY | Terminal (other than MTTY) | 0 - 255 |
| TTYC | TTY controller (other than MTTYC) | 0 - 255 |

* These represent the limits imposed by input messages. The actual member numbers of units in a Administrative Module (AM) computer system are defined in the equipment configuration database for that system.

SEE PROPRIETARY NOTICE ON COVER PAGE

ID . . . . . APP:MEM-NUM-D
WORK CENTER . . MOC
GENERIC . . . . . 4AP12 and later
APPLICATION . . 4E,3B
TYPE . . . . . Input

Computer Control Unit (CU) Subunit Names and Member Numbers

| Subunit Name | Meaning | Allowed Member Numbers |
|---|---|---|
| CC | Central Control unit | 0 |
| CH | Channel | 0 - 19 |
| CSU | Cache Store Unit | 0 |
| DMA | Direct Memory Access unit | 0 or 1 |
| MASC | Main Store Controller | 0 or 1 |
| SAT | Store Address Controller | 0 |
| UC | Utility Circuit | 0 |

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# 4ESS™/APS Input/Output Message Error Reporting Form

Use this form to report errors and make suggestions for improving the contents of the manual or quarterly release. If an error relates to a specific message, please write your comments on a TTY output or a photocopy of the message documentation and attach it to this form.

Manual: Input ☐ Output ☐

Generic: _____ Issue: _____

Quarterly Release (If applicable) :_____

Message ID(s): _____

Comments: _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

## Return to:

Lucent Technologies
Customer Training and
Information Products
IH 6R-106
P.O. Box 3033
Naperville, Illinois 60566-7033

## Submitted by:

Name: _____

Company: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Phone: (  )_____

Date: _____

# 4ESS™/APS Input/Output Message Manual Comment Form

Lucent Technologies opinion. We would like to know how well this document meets your needs. Please check the appropriate column to indicate your opinion of the document for the categories listed on the right, and answer the questions following the table. Your comments will help us improve future issues. Thank you in advance for taking the time to fill out this form.

Generic: 4AP21 Issue: 9.4.1

| | Excellent | Good | Fair | Poor |
|---|---|---|---|---|
| Ease of Use | | | | |
| Accuracy | | | | |
| Completeness | | | | |
| Organization | | | | |
| Appearance | | | | |
| Writing | | | | |
| Clarity | | | | |
| Front Matter | | | | |

1. How did you use this document? (Circle one.)
   To learn procedures, To get background information, As a quick reference,
   Other (specify): _____
2. Could information be organized differently to help you on the job? YES NO
   If YES how?_____
3. Anything missing that should be added? YES NO
   Describe:_____
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   EXCELLENT VERY GOOD GOOD FAIR POOR
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   _____

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