Hercules System/370, ESA/390, z/Architecture Emulator
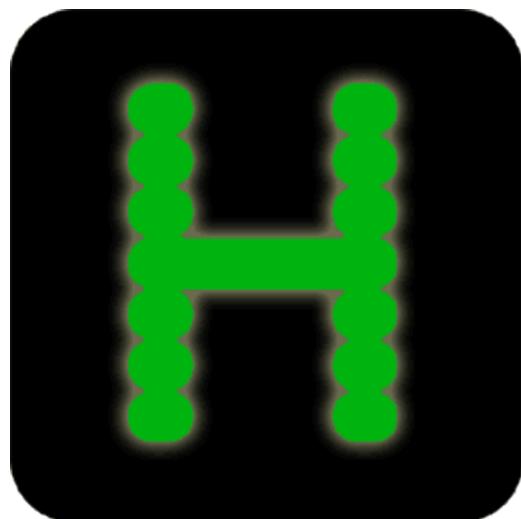
Hercules – Messages and Codes

Version 4 Release 00

Hercules System/370, ESA/390, z/Architecture Emulator

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Version 4 Release 00

First Edition, November 21, 2015

HEMC040000-00

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1. Preface

1.1 Edition information

This edition applies to the Hercules S/370, ESA/390 and z/Architecture Emulator Release 4.00.0 and to all subsequent versions, releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of software you are using.

1.2 What this book is about

This book describes all messages and codes of the Hercules Emulator.

For guidance in operating or debugging Hercules, for a general overview or for guidance in installation of the product, additional manuals are available. Please see Chapter "Related Publications" for more information on these manuals.

Please note that some information can be found in more than one manual. This redundancy is not intended to unnecessarily expand the manuals but should help to find all necessary information in one place.

1.3 Who should read this book

This book is mainly intended for people who are responsible for operating the Hercules Emulator. It serves as a starting point for resolving errors in the Hercules environment.

1.4 What you need to know to understand this book

To understand this book you should be somewhat familiar with the Microsoft Windows and/or Linux operating systems. You should also be familiar with the installation and operation of the Hercules Emulator itself.

Last but not least you should be familiar with the hardware and software of IBM mainframe environments and their underlying ideas and concepts, as Hercules emulates IBM mainframe hardware.

1.5 How to use this book

This book is designed as a reference book for all messages and codes of the Hercules Emulator and related products. It is not intended to be read chapter by chapter.

1.6 Revision Notice

Hercules Release: Version 4 Release 00 Modification 0

Publication Number: HEMC040000

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Date: November 21, 2015

1.7 Readers Comments

If you like or dislike anything about this book please send an email to the address below. Feel free to comment on any errors or lack of clarity. Please limit your comments on the information in this specific book and also include the "Revision Notice" just above. Thank you for your help.

Send your comments by email to the Hercules-390 discussion group:

hercules-390@yahoogroups.com

1.8 Legal Advice

Hercules implements only the raw S/370, ESA/390, and z/Architecture instruction set, it does not provide any operating system facilities. This means that you need to provide an operating system or standalone program which Hercules can load from an emulated disk or tape device. You will have to write the operating system or standalone program yourself, unless you possess a license from IBM to run one of their operating systems on your PC, or use IBM programs and operating systems which have been placed in the public domain.

NOTE: It is <u>YOUR</u> responsibility to comply with the terms of the license for the operating system you intend to run on the Hercules Emulator.

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1.10 Acknowledgements

The Hercules manuals would not have been possible without the assistance of many people and I would like to thank all those who helped me. In particular I would like to thank:

- The Hercules developers for their documentation on various websites from which I derived a great deal of information.

- Roger Bowler and Fish for proof-reading the manuals.

- Loris Degoianni for allowing me to use parts of the original WinPcap documentation.

- Tom Brennan for allowing me to use parts of his Vista tn3270 documentation.

- My colleagues for working with early previews of the documentation, beginning with just a few pages.

- Mike Cairns for reviewing and editing the manuals.

- Robert Allan for providing the "Linux Installation" part.

- Lutz Mader for providing the "Mac OS X Installation" part.

If anyone feels they have been forgotten on this list please let me know.

Peter Glanzmann

2. Related Publications

2.1   Hercules – General Information

The Hercules "General Information" manual provides you an overview of the ideas and concepts of the Hercules Emulator as well as a documentation of the emulator's functionality. It explains what Hercules does and does not do. It helps you decide if the software fits your needs fulfills your requirements.

2.2   Hercules – Installation Guide

The Hercules "Installation Guide" shows you how to install Hercules and all related optional and required software components under the Microsoft Windows, Linux and Apple MacIntosh OS X operating systems.

After going through the installation guide you will have a working emulator environment ready to IPL a S370, S/390 or z/Architecture mainframe operating system.

2.3   Hercules – User Reference Guide

The Hercules "User Reference" leads you through all aspects of the emulator's operation. It provides instruction in the operation of the Hercules Emulator with and without the Hercules GUIs. The usage details for the utilities are covered in the "Hercules Utilities" guide.

After reading this manual you should be able to work with Hercules, to create a configuration file and to use Hercules commands through the console.

2.4   Hercules – Operations and Utilities Guide

The Hercules "Operations and Utilities Guide" describes the operation of Hercules as well as additional utilities that are delivered together with the emulator. Selected utilities from third-party suppliers are also covered in this manual.

After reading this manual you should have the knowledge to operate Hercules and use the right utility for a certain housekeeping task within the Hercules environment. You should also be able to create virtual devices and understand backup / restore procedures.

2.5   Hercules – Messages and Codes

The "Messages and Codes" manual provides a detailed explanation of all Hercules related messages. It is the primary source for troubleshooting and debugging if you experience problems with Hercules.

2.6   Hercules – Reference Summary

The Hercules "Reference Summary" booklet lists all the system parameters, device definitions, console commands, Hercules utilities etc. along with their arguments.

This booklet is intended as a quick reference guide for experienced users. Consult the Hercules "User Reference Guide" and "Utilities Guide" for more detailed and additional information.

3. Summary of changes

3.1 Version 4, First Edition (HEMC040000-00)

This section describes briefly the various changes that have been made in the "Messages and Codes" manual related to the previous edition. The most significant changes made in this edition of the manual are the following:

- Chapter 2 (Related Publications): New manual "Operations and Utilities Guide" added.
- Chapter 3 (Summary of changes) added.
- Chapter 4 (Introduction): New section "Message Standardization" added.
- Chapter 4 (Introduction): New section "Message Format (Hercules V4.00)" added.
- Chapter 4 (Introduction): New section "Component List (Hercules V4.00)" added.
- Chapter 4 (Introduction): New section "Debug Option" added.
- Part I: New Messages added. Not all messages are documented yet.
- Appendix A. Message Index (New → Old) added.
- Appendix B. Message Index (Old → New) added.
- Appendix C. Links: List of links updated.

4. Introduction

4.1 Overview

This Chapter gives an introduction to the messages and codes of the Hercules Emulator and related tools, as well as the messages written from the various standalone utility programs.

4.2 Locations

All messages are written to the Hercules console (native console as well as the Hercules Windows GUI / Hercules Studio) and to the Hercules log file, if a log file is specified in the startup command.

4.3 Message Standardization

Hercules version 4.00 introduces the message standardization. With this major rework of the message processing it is ensured that messages are issued in a consistent way throughout the various Hercules functions. It is also ensured that message numbers can not be assigned twice.

Due to this change in the message processing it may be necessary for users to review existing HAO (Hercules Automated Operator) rules and self written scripts. Message indices in the appendices of this manual which show the relationship between old and new message identifiers will reduce the amount of work that has to be invested in these tasks. The cross reference tables can be found later on in this book.

4.4 Message Format (Hercules V3.07)

Up to Hercules version 3.07 all Hercules-issued messages had the following format:

```
H H C m m n n n s    text
```

The follwing table explains the various parts of the old message format:

Part	Explanation
HHC	HHC is the message prefix for Hercules. All Hercules messages will have this prefix.
mm	"mm" specifies the component that issued the message. A detailed list of all components can be found in section 4.6.
nnn	"nnn" specifies the message number. This number is assigned more or less sequentially.
s	"s" is the message severity. Details can be found in section 4.8.
text	"text" is the actual message text.

Table 1: Message Format until Hercules V3.07

4.5   Message Format (Hercules V4.00)

Beginning with Hercules version 4.00 all Hercules-issued messages have the following format:

```
H H C n   n n n n s    text
```

The follwing table explains the various parts of the new message format:

Part	Explanation
HHC	HHC is the message prefix for Hercules. All Hercules messages will have this prefix.
nnnnn	"nnnnn" specifies the message number. This number is assigned more or less sequentially.
s	"s" is the message severity. Details can be found in section 4.8.
text	"text" is the actual message text.

Table 2: Message Format since Hercules V4.00

4.6   Component List (Hercules V3.07)

The following table presents all the Hercules component prefixes from the old message format, along with a short description of the issuing component.

Prefix	Component
AO	Hercules Automatic Operator
CA	Communication Adapter Emulation
CF	Configuration File Processing
CP	CPU Emulation
CT	Channel-to-Channel Adapter Emulation
CU	CCKD Utilities
DA	DASD Emulation (CKD, CCKD and FBA)
DC	DASDCOPY Utility
DG	Dyngui.DLL
DI	DASDINIT Utility
DL	DASDLOAD Utility

Prefix	Component
DS	DASDISUP Utility
DT	DASDCAT Utility
DU	DASD Utilities Common Functions
HD	Hercules Dynamic Loader
HE	HETINIT Utility
HG	HETGET Utility
HM	HETMAP Utility
HT	HTTP Server
HU	HETUPD Utility
IF	Network Interface Configuration Handler (hercifc)
IN	Hercules Initialization
LC	LCS Emulation
LG	System Log Functions
PN	Hercules Control Panel Command Messages
PR	Printer Emulation
PU	Card Punch Emulation
RD	Card Reader Emulation
SD	Socket Devices Common Functions
TA	Tape Device Emulation
TC	TAPECOPY Utility
TE	Terminal Emulation
TM	TAPEMAP Utility
TS	TAPESPLT Utility
TT	TOD Clock and Timer Services
TU	TUN / TAP Driver Support
VM	VM / CP Emulation Facility

Table 3: Hercules Component List (V3.07)

4.7   Component List (Hercules V4.00)

The following table presents all the Hercules components and the assigned messages ranges.

Message Range	Component
HHC00000s - HHC00099s	General Messages
HHC00100s - HHC00199s	General Messages
HHC00200s - HHC00299s	Tape Device Emulation
HHC00300s - HHC00399s	DASD Device Emulation (CCKD)
HHC00400s - HHC00499s	DASD Device Emulation (CKD)
HHC00500s - HHC00599s	DASD Device Emulation (FBA)
HHC00600s - HHC00699s	DASD Device Emulation (SCE)
HHC00700s - HHC00799s	Shared Device Server
HHC00800s - HHC00899s	CPU Emulation
HHC00900s - HHC00999s	CTC Adapter Emulation
HHC01000s - HHC01099s	Communication Adapter Emulation
HHC01100s - HHC01199s	Printer Emulation
HHC01200s - HHC01299s	Card Punch Emulation / Card Reader Emulation
HHC01300s - HHC01399s	Channel-to-Channel Adapter Emulation
HHC01400s - HHC01499s	Hercules Initialization and Shutdown
HHC01500s - HHC01599s	Dynamic Loader
HHC01600s - HHC01699s	Panel Communication
HHC01700s - HHC01799s	ECPS:VM Support
HHC01800s - HHC01899s	HTTP Server
HHC01900s - HHC01999s	Diagnose Calls
HHC02000s - HHC02099s	Suspend / Resume Processing
HHC02100s - HHC02199s	System Logger
HHC02200s - HHC02299s	Command Processing
HHC02300s - HHC02399s	IEEE Component

Message Range	Component
HHC02400s - HHC02499s	DASD Utilities
HHC02500s - HHC02599s	DASD Utilities
HHC02600s - HHC02699s	Various Utilities
HHC02700s - HHC02799s	Tape Utilities
HHC04100s - HHC04199s	Windows Specific Components
HHC17000s - HHC17099s	Query Commands
HHC90000s - HHC90999s	Debug Messages

Table 4: Hercules Component List (V4.00)

4.8 Message Severity

The following table shows the different message severities, issued by the Hercules Emulator.

Code	Meaning
S	Severe error message. This type of error causes immediate termination of Hercules.
E	Error message. The function being executed did not execute correctly but Hercules should continue running.
W	Warning message. Not necessarily an error but something to take note of and possibly correct.
I	Information message. General messages that do not require any further action.
A	Action message. Hercules needs input, you need to do something.
D	Debug message.

Table 5: Message Severity

4.9 Debug Option

If DEBUG is defined, either by a "#define debug" statement or by "configure –enable-debug" and OPTION_DEBUG_MESSAGES is enabled in "featall.h" then all messages will be prefixed by "*sourcefile*.c:*lineno*" where *sourcefile* is the name of the C source file and *lineno* is the line number where the message has been issued.

Example:

```
hsccmd.c   2597 HHC02204I Value 'message level' set to 'debug'
```

Debug messages can also be switched on by issuing the panel command "MSGLEVEL DEBUG".

4.10 Message Examples

The following figure shows some Hercules messages. Although these messages are from a real IPL, please note that they are not complete i.e some messages have been deleted. The messages are shown just as an example of how messages look, especially the variable parts of messages.

```
 HHC01413I Hercules version 4.0.0
 HHC01414I (c) Copyright 1999-2010 by Roger Bowler, Jan Jaeger, and others
 HHC01415I Built on Feb 07 2011 at 05:30:15
 HHC01416I Build information:
 HHC01417I Windows (MSVC) build for AMD64
 HHC01417I Modes: S/370 ESA/390 z/Arch
 HHC01417I Max CPU Engines: 8
 HHC01417I Using fthreads Threading Model
 HHC01417I Using FishIO
 HHC01417I Dynamic loading support
 HHC01417I Using shared libraries
 HHC01417I HTTP Server support
 HHC01417I No SIGABEND handler
 HHC01417I Regular Expressions support
 HHC01417I Automatic Operator support
 HHC01417I Machine dependent assists: cmpxchg1 cmpxchg4 cmpxchg8
 HHC01417I Running on GOOFY Windows-6.1.7600. NT , Intel(R) x64 MP=8
 HHC01508I HDL: loadable module directory is 'D:/Hercules/'
 HHC00150I Crypto module loaded (c) Copyright 2003-2010 by Bernard van der Helm
 HHC00151I Activated facility: 'Message Security Assist'
 HHC00151I Activated facility: 'Message Security Assist Extension 1, 2, 3 and 4'
 HHC00100I Thread id 00001204, prio 15, name 'Processor CP00' started
 HHC00100I Thread id 000012B8, prio  0, name 'Timer' started
 HHC00811I Processor CP00: architecture mode 'z/Arch'
 HHC02203I auto_scsi_mount: NO
 HHC01474I Using 'internal' codepage conversion table 'DEFAULT'
 HHC00827I Processor CP00: engine 00 type 0 set: 'CP'
 HHC00827I Processor CP01: engine 01 type 0 set: 'CP'
 HHC00827I Processor CP02: engine 02 type 0 set: 'CP'
 HHC00827I Processor CP03: engine 03 type 0 set: 'CP'
 HHC01802I HTTP server using root directory D:/Hercules/html/
 HHC01807I HTTP server signaled to start
 HHC01435I Config file 'D:/MVS/CONF/MVS_V38J_V400.CONF': will ignore include errors
 HHC00100I Thread id 0000116C, prio  0, name 'HTTP server' started
 HHC01437I Config file[39] 'D:/MVS/CONF/MVS.CONF'
 HHC01802I HTTP server using root directory D:/Hercules/html/
 HHC01803I HTTP server waiting for requests on port 80
 HHC02204I logopts        set to TIMESTAMP
 HHC00100I Thread id 00001230, prio  0, name 'Processor CP01' started
 HHC00811I Processor CP01: architecture mode 'S/370'
 HHC00100I Thread id 00001194, prio  0, name 'Processor CP02' started
 HHC00811I Processor CP02: architecture mode 'S/370'
 HHC00100I Thread id 00001180, prio  0, name 'Processor CP03' started
 HHC00811I Processor CP03: architecture mode 'S/370'
 HHC00100I Thread id 00001034, prio  0, name 'Shared device server 0.1' started
 HHC00737I Shared: waiting for shared device requests on port 3990
 HHC01042I 0:000E COMM: device bound to socket '192.168.0.101:14031'
 HHC00100I Thread id 0000038C, prio  0, name 'Socket device listener' started
 HHC01042I 0:000F COMM: device bound to socket '192.168.0.101:14032'
 HHC00100I Thread id 00000D40, prio  0, name 'Console connection' started
 HHC01024I Waiting for console connections on port 3270
 .
 .
 .
```

```
        .
        .
        .
 HHC00013I Herc command: 'exit'
 HHC01420I Begin Hercules shutdown
 HHC01423I Calling termination routines
 HHC01500I HDL: begin shutdown sequence
 HHC01501I HDL: calling 'term_sockdev'
 HHC00101I Thread id 0000038C, prio  0, name 'Socket device listener' ended
 HHC01502I HDL: calling 'term_sockdev' complete
 HHC01501I HDL: calling 'shared_device_manager_shutdown'
 HHC00101I Thread id 000002A8, prio  0, name 'Hercules Automatic Operator' ended
 HHC01502I HDL: calling 'shared_device_manager_shutdown' complete
 HHC01501I HDL: calling 'http_shutdown'
 HHC00101I Thread id 0000116C, prio  0, name 'HTTP server' ended
 HHC01502I HDL: calling 'http_shutdown' complete
 HHC01501I HDL: calling 'release_config'
 HHC00101I Thread id 00001204, prio -15, name 'Processor CP00' ended
 HHC00101I Thread id 00001230, prio  0, name 'Processor CP01' ended
 HHC00101I Thread id 00001194, prio  0, name 'Processor CP02' ended
 HHC00101I Thread id 00001180, prio  0, name 'Processor CP03' ended
 HHC01465I 0:000C device detached
 HHC00101I Thread id 000012B8, prio -20, name 'Timer' ended
 HHC01465I 0:000D device detached
 HHC01465I 0:000E device detached
 HHC01465I 0:000F device detached
 HHC01465I 0:030E device detached
 HHC01465I 0:0010 device detached
 HHC01465I 0:0011 device detached
 HHC01465I 0:00C0 device detached
 HHC01465I 0:00C1 device detached
 HHC01465I 0:00C2 device detached
 HHC01465I 0:00C3 device detached
 HHC01465I 0:00C4 device detached
        .
        .
        .
 HHC00101I Thread id 00000D40, prio  0, name 'Console connection' ended
 HHC00101I Thread id 00000484, prio  0, name 'Read-ahead thread-1' ended
 HHC00101I Thread id 00000B60, prio  0, name 'Read-ahead thread-2' ended
 HHC00101I Thread id 000008A8, prio  0, name 'Garbage collector' ended
 HHC00101I Thread id 00001118, prio  0, name 'Writer thread-2' ended
 HHC00101I Thread id 00000C10, prio  0, name 'Writer thread-1' ended
 HHC01465I 0:034B device detached
 HHC01465I 0:0480 device detached
 HHC01465I 0:0481 device detached
 HHC01465I 0:0E20 device detached
 HHC01427I Main storage released
 HHC01427I Expanded storage released
 HHC01422I Configuration released
 HHC01502I HDL: calling 'release_config' complete
 HHC01501I HDL: calling 'hdl_term'
 HHC01512I HDL: begin termination sequence
 HHC01513I HDL: calling module cleanup routine 'dyngui'
 HHC01514I HDL: module cleanup routine 'dyngui' complete
 HHC01513I HDL: calling module cleanup routine '*Hercules'
 HHC01514I HDL: module cleanup routine '*Hercules' complete
 HHC01515I HDL: termination sequence complete
 HHC01502I HDL: calling 'hdl_term' complete
 HHC01501I HDL: calling 'logger_term'
```

Figure 1: Sample Messages

Part I: New Messages

5. Messages HHC00001s – HHC00069s (General Messages)

HHC00001I

HHC00001I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00002E

HHC00002E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00003E

HHC00003E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00004I

HHC00004I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00005W

HHC00005W is not yet documented

Explanation

…

Severity

…

Action

…

HHC00006I

HHC00006I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00007I

HHC00007I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00008I

HHC00008I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00009I

HHC00009I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00010A

HHC00010A is not yet documented

Explanation

…

Severity

…

Action

…

HHC00011E

HHC00011E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00012W

HHC00012W is not yet documented

Explanation

…

Severity

…

Action

…

HHC00013I

HHC00013I Herc command: '*cmd*'

Explanation

Console command '*cmd*' has been issued at the Hercules console. See also message HHC01603I.

Severity

Information.

Action

None. This is an informational message.

HHC00014E

HHC00014E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00015E

HHC00015E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00016E

HHC00016E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00017I

HHC00017I is not yet documented

Explanation

…

Severity

…

Action

…

HHC00018I

HHC00018I Hercules is running in elevated mode

Explanation

Hercules is running in elevated mode on a Windows system (with administrative rights).

Severity

Information.

Action

None. This is an informational message.

HHC00018W

HHC00018W Hercules is not running in elevated mode

Explanation

Hercules is not running in elevated mode on a Windows system (without administrative rights).

Severity

Warning.

Action

If you need administrative rights for Hercules (e.g. for CTCI-WIN) then restart Hercules from a command prompt started as administrator. If no administrative rights are necessary then you can savely ignore this message.

HHC00069I

HHC00069I is not yet documented

Explanation

…

Severity

…

Action

…

6. Messages HHC00070s – HHC00099s (Hercules Automatic Operator)

HHC00070E

HHC00070E Unknown hao command, valid commands are:

hao tgt <tgt>	**: define target rule (pattern) to react on**
hao cmd <cmd>	**: define command for previously defined rule**
hao list <n>	**: list all rules/commands or only at index <n>**
hao del <n>	**: delete the rule at index <n>**
hao clear	**: delete all rules (stops automatic operator)**

Explanation

The entered HAO command is unknown to the Hercules Automatic Operator.

Severity

Error.

Action

Enter a valid HAO command from the list of message HHC00070E.

HHC00071E

HHC00071E The 'command' was not added because table is full; table size is *nn*

Explanation

The rule (target and command) could not be added to the HAO table because the table is already full. The value *nn* displays the current table size.

Severity

Error.

Action

To add another rule either delete an existing rule to free a table entry or rebuild Hercules with an increased table size ("#define HAO_MAXRULE *nn*" in file hao.c).

HHC00072E

HHC00072E The command 'cmd' given, but the command 'tgt' was expected

HHC00072E The command 'tgt' given, but the command 'cmd' was expected

Explanation

HAO entries must be defined in the correct order. To define a rule, first a "HAO TGT *target*" command must be given, followed immediately by a "HAO CMD *command*". These error messages will appear in case of an incorrect order of the HAO commands or in case of two subsequent "HAO TGT" or two subsequent "HAO CMD" commands:

- In case of the first error message a "HAO CMD command" has been entered but a "HAO TGT *target*" command has been expected. This can be the case if two "HAO CMD" commands have been entered immediately one after the other or an initial HAO TGT target was missing.

- In case of the second error message the command "HAO TGT *target*" has been entered, but a "HAO CMD *command*" has been expected. This can be the case if two "HAO TGT *target*" commands have been entered immediately one after the other.

Severity

Error.

Action

Reenter the correct HAO command which is a "HAO TGT *target*" in case of the first error message and a "HAO CMD *command*" in case of the second error message.

HHC00073E

HHC00073E Empty 'target' specified

HHC00073E Empty 'command' specified

Explanation

There was either an empty "HAO TGT" or an empty "HAO CMD" command specified. The first case (HAO TGT) indicates a missing target rule (pattern) to react on, the second case indicates a missing command for a previously defined rule.

Severity

Error.

Action

Reenter the given HAO command with a valid target rule ("HAO TGT *target*") or a valid command ("HAO CMD *command*").

HHC00074E

HHC00074E The target was not added because a duplicate was found in the table at *nn*

Explanation

A "HAO TGT *target*" command has been entered but there is already a rule in the table at index *nn* that has the same target rule defined. The target rule could not be added to the table.

Severity

Error.

Action

Use the "HAO LIST" command (without the index argument) to get a list of all defined HAO rules and find the rule with the target from the previous "HAO TGT *target*" command.

If the command assigned to that target rule is already what is supposed to have then no more actions are necessary at this point.

If the command assigned to that target rule is not what is supposed to have then first delete the corresponding rule with a "HAO DEL *nn*" command. After deleting the rule redefine it with a new pair of "HAO TGT" and "HAO CMD" commands.

HHC00075E

HHC00075E is not yet documented

Explanation

…

Severity

…

Action

…

HHC00076E

HHC00076E The 'command' was not added because it causes a loop with the 'target' at index *nn*

HHC00076E The 'target' was not added because it causes a loop with the 'command' at index *nn*

Explanation

A HAO rule could not been defined because it causes a loop with another already defined rule at table index *nn*.

Severity

Error.

Action

Check the rule you just wanted to define against the rule at table index *nn* for any inconsistencies. Then try to redefine the rule. Use the "HAO LIST *nn*" command to display the rule that is mentioned in the error message.

HHC00077I

HHC00077I The '*func*' was placed at index *nn*

Explanation

A new defined target rule (*func* = 'target') or a new defined command (*func* = 'command') was placed at table index number *nn*.

Severity

Information.

Action

None. This is an informational message.

HHC00078E

HHC00078E The command was not added because it may cause dead locks

Explanation

A "HAO CMD *cmd*" command has been entered but command *cmd* could not be added to the table because it may cause deadlocks within the HAO processing.

Severity

Error.

Action

Reenter the "HAO CMD" command with a valid command for the target rule.

HHC00079E

HHC00079E No rule defined at index *nn*

Explanation

A "HAO LIST *nn*" command has been entered but there is no target rule defined at this index. The entry at index *nn* is empty.

Severity

Error.

Action

Use the "HAO LIST" command (without the index argument) to get a list of all defined HAO rules.

HHC00080I

HHC00080I All HAO rules are cleared

Explanation

All defined rules for the Hercules Automatic Operator have been cleared and HAO is stopped. This is the response to a "HAO CLEAR" command. The message is followed by one or more HHC00088I messages and a HHC00082I message.

Severity

Information.

Action

None. This is an informational message.

HHC00081I

HHC00081I Match at index *nn***, executing command '***cmd***'**

Explanation

A HAO rule has fired. There was a match at index number *nn* in the table of defined HAO rules and the command *cmd* has been excuted.

Severity

Information.

Action

None. This is an informational message.

HHC00082I

HHC00082I *nn* **rule(s) displayed:**

Explanation

This message displays the number of rules (*nn*) that have been displayed in response to a "HAO LIST" command. The messages is preceeded by message HHC00087I and one or more (*nn*) messages HHC00088I.

Severity

Information.

Action

None. This is an informational message.

HHC00083E

HHC00083E The command 'del' was given without a valid index

Explanation

A "HAO DEL" command has been entered without a valid index number. The entry could not be deleted.

Severity

Error.

Action

Reenter the delete command with an index in the valid range between 0 and *nn* ("HAO DEL *nn*"). Enter a "HAO LIST" command first, if necessary, to get the list of used entries.

HHC00084E

HHC00084E Invalid index; index must be between 0 and *nn*

Explanation
A HAO command has been entered with an index that is outside the valid range. The index must be in the valid range between 0 and *nn*.

Severity
Error.

Action
Reenter the previous command with an index in the valid range between 0 and *nn*. Enter a "HAO LIST" command first, if necessary, to get the list of used entries.

HHC00085E

HHC00085E Rule at index *nn* **not deleted, already empty**

Explanation
The rule (target and command) an index *nn* has not been deleted. The table entry is already empty.

Severity
Error.

Action
Use the "HAO LIST" command to get a list of all defined HAO rules. Check all listed entries to find the one you want to delete and retry the "HAO DEL" command with the correct index.

HHC00086I

HHC00086I Rule at index *nn* **successfully deleted**

Explanation
The rule (target and command) at table index number *nn* has been deleted.

Severity
Information.

Action
None. This is an informational message.

HHC00087I

HHC00087I The defined Hercules Automatic Operator rule(s) are:

Explanation

This message shows all defined rules for the Hercules Automatic Operator. It is following a "HAO LIST" command.

Severity

Information.

Action

None. This is an informational message.

HHC00088I

HHC00088I Index *nn***: target '***target***' -> command '***cmd***'**

Explanation

This message displays the target rule '*target*' and its corresponding command '*cmd*' that are defined at index *nn* of the table.

Severity

Information.

Action

None. This is an informational message.

HHC00089E

HHC00089E There are no HAO rules defined

Explanation

A "HAO LIST" command has been entered but there are no rules defined. The table is empty.

Severity

Error.

Action

Define a HAO rule before using the "HAO LIST" command.

7. Messages HHC00100s – HHC00199s (General Messages)

HHC00100I

HHC00100I Thread id *nnnnnnnn***, prio** *nn***, name '***threadname***' started**

Explanation

The thread with the name '*threadname*' has been started under the id *nnnnnnnn* with priority *nn*.

Severity

Information.

Action

None. This is an informational message.

HHC00101I

HHC00101I Thread id *nnnnnnnn***, prio** *nn***, name '***threadname***' ended**

Explanation

The thread with the name '*threadname*' running under the id *nnnnnnnn* with priority *nn* has been ended.

Severity

Information.

Action

None. This is an informational message.

HHC00102E

HHC00102E Error in function create_thread(): *threadname*

Explanation

The thread with the name '*threadname*' could not be created.

Severity

Error.

Action

See any additional messages for further details of the failure.

HHC00103I

HHC00103I is not yet documented

Explanation

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Severity

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Action

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HHC00105E

HHC00105E is not yet documented

Explanation

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Severity

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Action

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HHC00130W

HHC00130W is not yet documented

Explanation

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Severity

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Action

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HHC00131A

HHC00131A is not yet documented

Explanation

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Severity

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Action

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HHC00135E

HHC00135E is not yet documented

Explanation

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Severity

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Action

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HHC00136E

HHC00136E is not yet documented

Explanation

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Severity

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Action

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HHC00137E

HHC00137E is not yet documented

Explanation

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Severity

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Action

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HHC00138E

HHC00138E is not yet documented

Explanation

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Severity

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Action

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HHC00139E

HHC00139E is not yet documented

Explanation

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Severity

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Action

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HHC00140E

HHC00140E is not yet documented

Explanation

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Severity

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Action

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HHC00141E

HHC00141E is not yet documented

Explanation

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Severity

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Action

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HHC00142E

HHC00142E is not yet documented

Explanation

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Severity

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Action

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HHC00143E

HHC00143E is not yet documented

Explanation

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Severity

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Action

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HHC00144E

HHC00144E is not yet documented

Explanation

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Severity

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Action

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HHC00145E

HHC00145E is not yet documented

Explanation

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Severity

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Action

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HHC00146I

HHC00146I is not yet documented

Explanation

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Severity

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Action

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HHC00147I

HHC00147I is not yet documented

Explanation

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Severity

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Action

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HHC00148I

HHC00148I is not yet documented

Explanation

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Severity

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Action

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HHC00149I

HHC00149I is not yet documented

Explanation

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Severity

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Action

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HHC00150I

HHC00150I *modname* **module loaded** [*info]*

Explanation

Hercules has loaded the module *modname*. This message can provide additional information about the loaded module in the optional *info* field.

Severity

Information.

Action

None. This is an informational message.

HHC00151I

HHC00151I is not yet documented

Explanation

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Severity

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Action

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HHC00152E

HHC00152E is not yet documented

Explanation

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Severity

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Action

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HHC00153E

HHC00153E is not yet documented

Explanation

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Severity

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Action

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HHC00154E

HHC00154E is not yet documented

Explanation

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Severity

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Action

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HHC00160I

HHC00160I is not yet documented

Explanation

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Severity

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Action

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HHC00161E

HHC00161E is not yet documented

Explanation

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Severity

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Action

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8. Messages HHC00200s – HHC00299s (Tape Device Emulation)

HHC00201I

HHC00201I is not yet documented

Explanation

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Severity

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Action

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HHC00202E

HHC00202E is not yet documented

Explanation

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Severity

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Action

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HHC00203E

HHC00203E is not yet documented

Explanation

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Severity

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Action

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HHC00204E

HHC00204E is not yet documented

Explanation

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Severity

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Action

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HHC00205E

HHC00205E is not yet documented

Explanation

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Severity

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Action

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HHC00206E

HHC00206E is not yet documented

Explanation

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Severity

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Action

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HHC00207E

HHC00207E is not yet documented

Explanation

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Severity

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Action

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HHC00208I

HHC00208I is not yet documented

Explanation

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Severity

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Action

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HHC00209I

HHC00209I is not yet documented

Explanation

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Severity

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Action

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HHC00210I

HHC00210I is not yet documented

Explanation

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Severity

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Action

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HHC00211I

HHC00211I is not yet documented

Explanation

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Severity

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Action

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HHC00212E

HHC00212E is not yet documented

Explanation

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HHC00213E

HHC00213E is not yet documented

Explanation

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HHC00214E

HHC00214E is not yet documented

Explanation

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Severity

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Action

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HHC00215I

HHC00215I is not yet documented

Explanation

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Severity

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Action

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HHC00216I

HHC00216I is not yet documented

Explanation

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Severity

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HHC00217I

HHC00217I is not yet documented

Explanation

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Severity

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HHC00218I

HHC00218I is not yet documented

Explanation

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Severity

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Action

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HHC00219I

HHC00219I is not yet documented

Explanation

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Severity

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Action

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HHC00220W

HHC00220W is not yet documented

Explanation

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Severity

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Action

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HHC00221I

HHC00221I is not yet documented

Explanation

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Severity

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Action

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HHC00222I

HHC00222I is not yet documented

Explanation

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Severity

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Action

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HHC00223E

HHC00223E is not yet documented

Explanation

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Severity

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Action

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HHC00224I

HHC00224I is not yet documented

Explanation

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Severity

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Action

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HHC00225E

HHC00225E is not yet documented

Explanation

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Severity

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Action

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HHC00226I

HHC00226I is not yet documented

Explanation

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Severity

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Action

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HHC00227I

HHC00227I is not yet documented

Explanation

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Severity

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Action

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HHC00228I

HHC00228I is not yet documented

Explanation

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Severity

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Action

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HHC00229I

HHC00229I is not yet documented

Explanation

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Severity

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Action

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HHC00235I

HHC00235I is not yet documented

Explanation

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Severity

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Action

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HHC00243W

HHC00243W is not yet documented

Explanation

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Severity

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Action

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9. Messages HHC00300s – HHC00399s (DASD Device Emulation (CCKD))

HHC00300E

HHC00300E is not yet documented

Explanation

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Severity

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Action

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HHC00301E

HHC00301E is not yet documented

Explanation

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Severity

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Action

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HHC00302E

HHC00302E is not yet documented

Explanation

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Severity

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Action

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HHC00303E

HHC00303E is not yet documented

Explanation

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Severity

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Action

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HHC00304E

HHC00304E is not yet documented

Explanation

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Severity

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HHC00305E

HHC00305E is not yet documented

Explanation

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Severity

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HHC00306E

HHC00306E is not yet documented

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HHC00307E

HHC00307E is not yet documented

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HHC00308E

HHC00308E is not yet documented

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HHC00309E

HHC00309E is not yet documented

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HHC00310E

HHC00310E is not yet documented

Explanation

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Severity

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HHC00311E

HHC00311E is not yet documented

Explanation

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Severity

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HHC00312E

HHC00312E is not yet documented

Explanation

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Severity

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Action

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HHC00313E

HHC0033E1 is not yet documented

Explanation

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Severity

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HHC00314E

HHC00314E is not yet documented

Explanation

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Severity

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HHC00315I

HHC00315I is not yet documented

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HHC00316I

HHC00316I is not yet documented

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HHC00317E

HHC00317E is not yet documented

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HHC00318W

HHC00318W is not yet documented

Explanation

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HHC00319E

HHC00319E is not yet documented

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HHC00320I

HHC00320I is not yet documented

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HHC00321I

HHC00321I is not yet documented

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HHC00322W

HHC00322W is not yet documented

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HHC00323E

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HHC00324E

HHC00324E is not yet documented

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HHC00325I

HHC00325I is not yet documented

Explanation

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HHC00326E

HHC00326E is not yet documented

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HHC00327E

HHC00327E is not yet documented

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HHC00328I

HHC00328I is not yet documented

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HHC00329W

HHC00329W is not yet documented

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HHC00330I

HHC00330I is not yet documented

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HHC00331W

HHC00331W is not yet documented

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HHC00332I

HHC00332I is not yet documented

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HHC00333I

HHC00333I is not yet documented

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HHC00334I

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HHC00340I

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HHC00341I

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HHC00360I

HHC00360I is not yet documented

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Severity

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HHC00361E

HHC00361E is not yet documented

Explanation

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Severity

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HHC00362E

HHC00362E is not yet documented

Explanation

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Severity

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HHC00363W

HHC00363W is not yet documented

Explanation

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Severity

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HHC00364W

HHC00364W is not yet documented

Explanation

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Severity

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HHC00365W

HHC00365W is not yet documented

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HHC00366W

HHC00366W is not yet documented

Explanation

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Severity

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HHC00367W

HHC00367W is not yet documented

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HHC00368W

HHC00368W is not yet documented

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HHC00369W

HHC00369W is not yet documented

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HHC00370W

HHC00370W is not yet documented

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HHC00371W

HHC00371W is not yet documented

Explanation

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Severity

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HHC00372I

HHC00372I is not yet documented

Explanation

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Severity

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HHC00373I

HHC00373I is not yet documented

Explanation

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Severity

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Action

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HHC00374E

HHC00374E is not yet documented

Explanation

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Severity

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Action

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HHC00375W

HHC00375W is not yet documented

Explanation

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Severity

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Action

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HHC00376W

HHC00376W is not yet documented

Explanation

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Severity

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HHC00377I

HHC00377I is not yet documented

Explanation

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Severity

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HHC00378E

HHC00378E is not yet documented

Explanation

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Severity

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Action

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HHC00396I

HHC00396I is not yet documented

Explanation

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Severity

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Action

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HHC00397I

HHC00397I is not yet documented

Explanation

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Severity

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Action

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HHC00398I

HHC00398I is not yet documented

Explanation

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Severity

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Action

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HHC00399I

HHC00399I is not yet documented

Explanation

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Severity

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Action

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10. Messages HHC00400s – HHC00499s (DASD Device Emulation (CKD))

HHC00400E

HHC00400E is not yet documented

Explanation

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Severity

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Action

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HHC00401E

HHC00401E is not yet documented

Explanation

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Severity

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Action

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HHC00402E

HHC00402E is not yet documented

Explanation

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Severity

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Action

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HHC00403I

HHC00403I is not yet documented

Explanation

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Severity

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Action

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HHC00404E

HHC00404E is not yet documented

Explanation

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Severity

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HHC00405E

HHC00405E is not yet documented

Explanation

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Severity

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Action

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HHC00406E

HHC00406E is not yet documented

Explanation

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Severity

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Action

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HHC00407E

HHC00407E is not yet documented

Explanation

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Severity

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Action

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HHC00408E

HHC00408E is not yet documented

Explanation

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Severity

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Action

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HHC00409I

HHC00409I is not yet documented

Explanation

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Severity

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Action

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HHC00410E

HHC00410E is not yet documented

Explanation

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Severity

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Action

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HHC00411E

HHC00411E is not yet documented

Explanation

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Severity

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HHC00412E

HHC00412E is not yet documented

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HHC00413E

HHC00413E is not yet documented

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Severity

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HHC00414I

HHC00414I is not yet documented

Explanation

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Severity

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HHC00415E

HHC00415E is not yet documented

Explanation

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HHC00416E

HHC00416E is not yet documented

Explanation

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Severity

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HHC00417I

HHC00417I is not yet documented

Explanation

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Severity

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HHC00418E

HHC00418E is not yet documented

Explanation

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Severity

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HHC00419E

HHC00419E is not yet documented

Explanation

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Severity

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HHC00420E

HHC00420E is not yet documented

Explanation

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Severity

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HHC00421E

HHC00421E is not yet documented

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Severity

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HHC00422E

HHC00422E is not yet documented

Explanation

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Severity

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Action

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HHC00423I

HHC00423I is not yet documented

Explanation

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Severity

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Action

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HHC00424I

HHC00424I is not yet documented

Explanation

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Severity

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Action

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HHC00425I

HHC00425I is not yet documented

Explanation

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Severity

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Action

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HHC00426I

HHC00426I is not yet documented

Explanation

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Severity

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Action

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HHC00427I

HHC00427I is not yet documented

Explanation

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Severity

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Action

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HHC00428I

HHC00428I is not yet documented

Explanation

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Severity

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Action

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HHC00429I

HHC00429I is not yet documented

Explanation

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Severity

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Action

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HHC00430I

HHC00430I is not yet documented

Explanation

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Severity

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Action

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HHC00431I

HHC00431I is not yet documented

Explanation

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Severity

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Action

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HHC00432E

HHC00432E is not yet documented

Explanation

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Severity

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Action

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HHC00433I

HHC00433I is not yet documented

Explanation

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Severity

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HHC00434I

HHC00434I is not yet documented

Explanation

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Severity

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HHC00435I

HHC00435I is not yet documented

Explanation

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Severity

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HHC00436I

HHC00436I is not yet documented

Explanation

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Severity

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HHC00437I

HHC00437I is not yet documented

Explanation

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Severity

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Action

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HHC00438I

HHC00438I is not yet documented

Explanation

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Severity

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Action

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HHC00439I

HHC00439I is not yet documented

Explanation

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Severity

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Action

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HHC00440I

HHC00440I is not yet documented

Explanation

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Severity

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Action

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HHC00441I

HHC00441I is not yet documented

Explanation

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Severity

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Action

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HHC00442I

HHC00442I is not yet documented

Explanation

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Severity

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Action

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HHC00443E

HHC00443E is not yet documented

Explanation

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Severity

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Action

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HHC00445I

HHC00445I is not yet documented

Explanation

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Severity

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Action

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HHC00446E

HHC00446E is not yet documented

Explanation

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Severity

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Action

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HHC00447I

HHC00447I is not yet documented

Explanation

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Severity

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Action

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HHC00448E

HHC00448E is not yet documented

Explanation

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Severity

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Action

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HHC00449I

HHC00449I is not yet documented

Explanation

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Severity

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Action

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HHC00450E

HHC00450E is not yet documented

Explanation

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Severity

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Action

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HHC00451E

HHC00451E is not yet documented

Explanation

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Severity

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Action

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HHC00452E

HHC00452E is not yet documented

Explanation

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Severity

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Action

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HHC00453I

HHC00453I is not yet documented

Explanation

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Severity

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Action

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HHC00454I

HHC00454I is not yet documented

Explanation

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Severity

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Action

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HHC00455E

HHC00455E is not yet documented

Explanation

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Severity

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Action

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HHC00456I

HHC00456I is not yet documented

Explanation

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Severity

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Action

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HHC00457I

HHC00457I is not yet documented

Explanation

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Severity

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Action

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HHC00458E

HHC00458E is not yet documented

Explanation

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Severity

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Action

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HHC00459I

HHC00459I is not yet documented

Explanation

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Severity

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Action

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HHC00460I

HHC00460I is not yet documented

Explanation

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Severity

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Action

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HHC00461E

HHC00461E is not yet documented

Explanation

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Severity

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Action

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HHC00462I

HHC00462I is not yet documented

Explanation

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Severity

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Action

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HHC00463I

HHC00463I is not yet documented

Explanation

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Severity

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Action

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HHC00464E

HHC00464E is not yet documented

Explanation

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Severity

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Action

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HHC00465I

HHC00465I is not yet documented

Explanation

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Severity

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Action

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HHC00466I

HHC00466I is not yet documented

Explanation

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Severity

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Action

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HHC00467I

HHC00467I is not yet documented

Explanation

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Severity

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Action

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HHC00468I

HHC00468I is not yet documented

Explanation

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Severity

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Action

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11. Messages HHC00500s – HHC00599s (DASD Device Emulation (FBA))

HHC00500E

HHC00500E is not yet documented

Explanation

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Severity

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Action

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HHC00501E

HHC00501E is not yet documented

Explanation

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Severity

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Action

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HHC00502E

HHC0052E0 is not yet documented

Explanation

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Severity

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Action

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HHC00503E

HHC00503E is not yet documented

Explanation

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Severity

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Action

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HHC00504I

HHC00504I is not yet documented

Explanation

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Severity

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Action

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HHC00505E

HHC00505E is not yet documented

Explanation

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Severity

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Action

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HHC00506E

HHC00506E is not yet documented

Explanation

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Severity

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Action

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HHC00507I

HHC00507I is not yet documented

Explanation

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Severity

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Action

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HHC00508E

HHC00508E is not yet documented

Explanation

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Severity

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Action

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HHC00509E

HHC00509E is not yet documented

Explanation

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Severity

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Action

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HHC00510E

HHC00510E is not yet documented

Explanation

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Severity

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Action

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HHC00511E

HHC00511E is not yet documented

Explanation

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Severity

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Action

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HHC00512E

HHC00512E is not yet documented

Explanation

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Severity

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Action

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HHC00513E

HHC00513E is not yet documented

Explanation

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Severity

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Action

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HHC00514E

HHC00514E is not yet documented

Explanation

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Severity

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Action

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HHC00515E

HHC00515E is not yet documented

Explanation

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Severity

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Action

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HHC00516I

HHC00516I is not yet documented

Explanation

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Severity

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Action

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HHC00517I

HHC00517I is not yet documented

Explanation

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Severity

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Action

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HHC00518I

HHC00518I is not yet documented

Explanation

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Severity

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Action

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HHC00519I

HHC00519I is not yet documented

Explanation

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Severity

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Action

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HHC00520I

HHC00520I is not yet documented

Explanation

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Severity

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Action

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HHC00521I

HHC00521I is not yet documented

Explanation

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Severity

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Action

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12. Messages HHC00600s – HHC00699s (DASD Device Emulation (SCE))

HHC00600E

HHC00600E is not yet documented

Explanation

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Severity

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Action

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HHC00601E

HHC00601E is not yet documented

Explanation

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Severity

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Action

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HHC00602E

HHC00602E is not yet documented

Explanation

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Severity

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Action

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HHC00603W

HHC00603W is not yet documented

Explanation

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Severity

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Action

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HHC00604E

HHC00604E is not yet documented

Explanation

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Severity

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Action

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HHC00605E

HHC00605E is not yet documented

Explanation

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Severity

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Action

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13. Messages HHC00700s – HHC00799s (Shared Device Server)

HHC00700S

HHC00700S is not yet documented

Explanation

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Severity

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Action

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HHC00701W

HHC00701W is not yet documented

Explanation

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Severity

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Action

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HHC00702S

HHC00702S is not yet documented

Explanation

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Severity

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Action

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HHC00703S

HHC00703S is not yet documented

Explanation

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Severity

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Action

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HHC00704S

HHC00704S is not yet documented

Explanation

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Severity

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Action

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HHC00705S

HHC00705S is not yet documented

Explanation

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Severity

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Action

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HHC00706S

HHC00706S is not yet documented

Explanation

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Severity

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Action

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HHC00707S

HHC00707S is not yet documented

Explanation

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Severity

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Action

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HHC00708I

HHC00708I is not yet documented

Explanation

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Severity

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Action

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HHC00709S

HHC00709S is not yet documented

Explanation

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Severity

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Action

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HHC00710S

HHC00710S is not yet documented

Explanation

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Severity

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Action

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HHC00711S

HHC00711S is not yet documented

Explanation

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Severity

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Action

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HHC00712I

HHC00712I is not yet documented

Explanation

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Severity

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Action

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HHC00713E

HHC00713E is not yet documented

Explanation

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Severity

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Action

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HHC00714E

HHC00714E is not yet documented

Explanation

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Severity

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Action

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HHC00715E

HHC00715E is not yet documented

Explanation

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Severity

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HHC00716E

HHC00716E is not yet documented

Explanation

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Severity

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HHC00717E

HHC00717E is not yet documented

Explanation

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Severity

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HHC00718E

HHC00718E is not yet documented

Explanation

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Severity

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HHC00719E

HHC00719E is not yet documented

Explanation

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Severity

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Action

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HHC00720E

HHC00720E is not yet documented

Explanation

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Severity

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Action

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HHC00721I

HHC00721I is not yet documented

Explanation

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Severity

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Action

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HHC00722E

HHC00722E is not yet documented

Explanation

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Severity

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Action

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HHC00723E

HHC00723E is not yet documented

Explanation

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Severity

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HHC00724E

HHC00724E is not yet documented

Explanation

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Severity

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HHC00725E

HHC00725E is not yet documented

Explanation

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Severity

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Action

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HHC00726E

HHC00726E is not yet documented

Explanation

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Severity

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Action

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HHC00727E

HHC00727E is not yet documented

Explanation

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Severity

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HHC00728E

HHC00728E is not yet documented

Explanation

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Severity

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HHC00729E

HHC00729E is not yet documented

Explanation

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Severity

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Action

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HHC00730W

HHC00730W is not yet documented

Explanation

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Severity

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Action

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HHC00731I

HHC00731I is not yet documented

Explanation

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Severity

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Action

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HHC00732E

HHC00732E is not yet documented

Explanation

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Severity

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Action

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HHC00733I

HHC00733I is not yet documented

Explanation

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Severity

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Action

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HHC00734E

HHC00734E is not yet documented

Explanation

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Severity

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Action

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HHC00735E

HHC00735E is not yet documented

Explanation

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Severity

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Action

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HHC00736W

HHC00736W is not yet documented

Explanation

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Severity

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Action

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HHC00737I

HHC00737I is not yet documented

Explanation

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Severity

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Action

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HHC00738E

HHC00738E is not yet documented

Explanation

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Severity

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Action

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HHC00739E

HHC00739E is not yet documented

Explanation

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Severity

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HHC00740E

HHC00740E is not yet documented

Explanation

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Severity

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Action

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HHC00741E

HHC00741E is not yet documented

Explanation

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Severity

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Action

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HHC00742E

HHC00742E is not yet documented

Explanation

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Severity

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Action

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HHC00743I

HHC00743I is not yet documented

Explanation

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Severity

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Action

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14. Messages HHC00800s – HHC00899s (CPU Emulation)

HHC00800I

HHC00800I is not yet documented

Explanation

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Severity

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Action

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HHC00801I

HHC00801I is not yet documented

Explanation

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Severity

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Action

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HHC00802I

HHC00802I is not yet documented

Explanation

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Severity

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Action

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HHC00803I

HHC00803I is not yet documented

Explanation

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Severity

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HHC00804I

HHC00804I is not yet documented

Explanation

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Severity

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Action

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HHC00805I

HHC00805I is not yet documented

Explanation

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Severity

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HHC00806I

HHC00806I is not yet documented

Explanation

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Severity

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Action

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HHC00807I

HHC00807I is not yet documented

Explanation

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Severity

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Action

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HHC00808I

HHC00808I is not yet documented

Explanation

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Severity

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Action

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HHC00809I

HHC00809I is not yet documented

Explanation

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Severity

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Action

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HHC00810E

HHC00810E Processor *nn***: ipl failed: device** *dev* **not found**

Explanation

An attempt has been made to IPL CPU number *nn* from device *dev*, but the IPL failed because there is no device *dev* attached to the system. IPL processing is terminated. The target processor remains in the manual state.

Severity

Error.

Action

Reissue the IPL command specifying a device that is attached to the system.

HHC00811I

HHC00811I is not yet documented

Explanation

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Severity

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Action

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HHC00812I

HHC00812I is not yet documented

Explanation

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Severity

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Action

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HHC00813E

HHC00813E is not yet documented

Explanation

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Severity

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Action

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HHC00814I

HHC00814I is not yet documented

Explanation

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Severity

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Action

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HHC00815I

HHC00815I is not yet documented

Explanation

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Severity

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Action

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HHC00816W

HHC00816W is not yet documented

Explanation

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Severity

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Action

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HHC00817I

HHC00817I is not yet documented

Explanation

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Severity

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Action

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HHC00818E

HHC00818E is not yet documented

Explanation

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Severity

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Action

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HHC00819I

HHC00819I is not yet documented

Explanation

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Severity

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Action

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HHC00820I

HHC00820I is not yet documented

Explanation

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Severity

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Action

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HHC00821I

HHC00821I is not yet documented

Explanation

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Severity

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Action

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HHC00822I

HHC00822I is not yet documented

Explanation

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Severity

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Action

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HHC00823I

HHC00823I is not yet documented

Explanation

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Severity

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Action

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HHC00824I

HHC00824I is not yet documented

Explanation

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Severity

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Action

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HHC00825E

HHC00825E is not yet documented

Explanation

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Severity

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Action

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HHC00826E

HHC00826E is not yet documented

Explanation

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Severity

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Action

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HHC00827I

HHC00827I is not yet documented

Explanation

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Severity

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Action

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HHC00828E

HHC00828E Processor *nn***: ipl failed: architecture mode** *mode***, csw status** *cswstat***, sense** *sense*

Explanation

An attempt has been made to ipl CPU number *nn*, but the IPL failed because of an I/O error on the IPL device. In the message text, *mode* is the system architecture mode, *cswstat* is the CSW status returned from the IPL I/O operation, and *sense* is the sense information returned by the IPL device. Note that an attempt to IPL while the system is set to z/Architecture mode will cause the architecture mode to be reset to ESA/390 at the start of IPL processing, and message HHC00828E will reflect that change.

Severity

Error.

Action

Correct the cause of the IPL device I/O problem and reissue the IPL command.

HHC00832I

HHC00832I is not yet documented

Explanation

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Severity

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Action

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HHC00834I

HHC00834I is not yet documented

Explanation

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Severity

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Action

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HHC00838I

HHC00838I is not yet documented

Explanation

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Severity

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Action

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HHC00839E

HHC00839E Processor *nn***: ipl failed: architecture mode** *mode***, invalid ipl psw** *psw*

Explanation

An attempt has been made to IPL CPU number nn, but the IPL failed because of an error loading the initial PSW from the IPL device. A common cause of IPL PSW errors is bits within the PSW set inconsistently, or a mismatch between the PSW bit settings and the system architecture mode.

In particular, this message will be produced if an attempt is made to IPL with the architecture mode set to z/Architecture or ESA/390 and the IPL PSW loaded from the target device is a BC-mode PSW. Note that an attempt to IPL while the system is set to z/Architecture mode will cause the architecture mode to be reset to ESA/390 at the start of the IPL processing, and message HHC0839E will reflect that change.

IPL processing is terminated. The target processor remains in the manual state and the load indicatorremains on.

Severity

Error.

Action

Correct the IPL device initial PSW to set PSW bit values consistently, or change the system architecture mode to one that allows the IPL device initial PSW to be used, or IPL from a different device.

HHC00840I

HHC00840I is not yet documented

Explanation

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Severity

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Action

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HHC00841I

HHC00841I is not yet documented

Explanation

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Severity

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Action

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HHC00842I

HHC00842I is not yet documented

Explanation

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Severity

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Action

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HHC00843I

HHC00843I is not yet documented

Explanation

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Severity

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Action

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HHC00844I

HHC00844I is not yet documented

Explanation

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Severity

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Action

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HHC00845I

HHC00845I is not yet documented

Explanation

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Severity

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Action

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HHC00846I

HHC00846I is not yet documented

Explanation

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Severity

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Action

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HHC00850I

HHC00850I is not yet documented

Explanation

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Severity

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Action

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HHC00851I

HHC00851I is not yet documented

Explanation

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Severity

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Action

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HHC00852I

HHC00852I is not yet documented

Explanation

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Severity

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Action

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HHC00853I

HHC00853I is not yet documented

Explanation

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Severity

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Action

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HHC00854I

HHC00854I is not yet documented

Explanation

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Severity

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Action

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HHC00855I

HHC00855I is not yet documented

Explanation

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Severity

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Action

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HHC00856I

HHC00856I is not yet documented

Explanation

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Severity

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HHC00857I

HHC00857I is not yet documented

Explanation

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Severity

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HHC00858I

HHC00858I is not yet documented

Explanation

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Severity

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HHC00859I

HHC00859I is not yet documented

Explanation

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Severity

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Action

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HHC00860I

HHC00860I is not yet documented

Explanation

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Severity

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Action

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HHC00861I

HHC00861I is not yet documented

Explanation

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Severity

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Action

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HHC00862I

HHC00862I is not yet documented

Explanation

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Severity

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HHC00863I

HHC00863I is not yet documented

Explanation

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Severity

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HHC00864I

HHC00864I is not yet documented

Explanation

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Severity

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HHC00865I

HHC00865I is not yet documented

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Severity

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HHC00866I

HHC00866I is not yet documented

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HHC00867I

HHC00867I is not yet documented

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Severity

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HHC00868I

HHC00868I is not yet documented

Explanation

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Severity

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HHC00869I

HHC00869I is not yet documented

Explanation

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Severity

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HHC00870I

HHC00870I is not yet documented

Explanation

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Severity

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Action

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HHC00871I

HHC00871I is not yet documented

Explanation

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Severity

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Action

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HHC00872I

HHC00872I is not yet documented

Explanation

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Severity

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HHC00873I

HHC00873I is not yet documented

Explanation

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Severity

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HHC00874I

HHC00874I is not yet documented

Explanation

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Severity

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Action

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HHC00875I

HHC00875I is not yet documented

Explanation

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Severity

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HHC00876I

HHC00876I is not yet documented

Explanation

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Severity

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HHC00877I

HHC00877I is not yet documented

Explanation

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Severity

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HHC00880I

HHC00880I is not yet documented

Explanation

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Severity

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HHC00881I

HHC00881I is not yet documented

Explanation

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Severity

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HHC00882I

HHC00882I is not yet documented

Explanation

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Severity

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Action

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HHC00890I

HHC00890I is not yet documented

Explanation

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Severity

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Action

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HHC00891E

HHC00891E is not yet documented

Explanation

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Severity

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HHC00892E

HHC00892E is not yet documented

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Severity

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HHC00893E

HHC00893E is not yet documented

Explanation

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Severity

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HHC00895E

HHC00895E is not yet documented

Explanation

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Severity

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HHC00896E

HHC00896E is not yet documented

Explanation

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Severity

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Action

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HHC00898I

HHC00898I is not yet documented

Explanation

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Severity

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Action

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15. Messages HHC00900s – HHC00999s (CTC Adapter Emulation)

HHC00900E

HHC00900E is not yet documented

Explanation

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Severity

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Action

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HHC00901I

HHC00901I is not yet documented

Explanation

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Severity

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Action

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HHC00902W

HHC00902W is not yet documented

Explanation

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Severity

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Action

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HHC00904I

HHC00904I is not yet documented

Explanation

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Severity

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Action

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HHC00905I

HHC00905I is not yet documented

Explanation

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Severity

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Action

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HHC00906E

HHC00906E is not yet documented

Explanation

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Severity

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Action

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HHC00907I

HHC00907I is not yet documented

Explanation

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Severity

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Action

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HHC00908E

HHC00908E is not yet documented

Explanation

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Severity

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Action

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HHC00909E

HHC00909E is not yet documented

Explanation

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Severity

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Action

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HHC00910I

HHC00910I is not yet documented

Explanation

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Severity

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Action

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HHC00911E

HHC00911E is not yet documented

Explanation

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Severity

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Action

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HHC00912E

HHC00912E is not yet documented

Explanation

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Severity

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Action

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HHC00913I

HHC00913I is not yet documented

Explanation

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Severity

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Action

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HHC00914W

HHC00914W is not yet documented

Explanation

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Severity

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Action

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HHC00915E

HHC00915E is not yet documented

Explanation

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Severity

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Action

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HHC00916E

HHC00916E is not yet documented

Explanation

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Severity

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Action

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HHC00918E

HHC00918E is not yet documented

Explanation

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Severity

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Action

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HHC00920E

HHC00920E is not yet documented

Explanation

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Severity

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Action

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HHC00921I

HHC00921I is not yet documented

Explanation

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Severity

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Action

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HHC00922I

HHC00922I is not yet documented

Explanation

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Severity

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Action

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HHC00933I

HHC00933I is not yet documented

Explanation

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Severity

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Action

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HHC00934I

HHC00934I is not yet documented

Explanation

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Severity

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Action

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HHC00936E

HHC00936E is not yet documented

Explanation

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Severity

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Action

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HHC00937E

HHC00937E is not yet documented

Explanation

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Severity

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Action

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HHC00938I

HHC00938I is not yet documented

Explanation

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Severity

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Action

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HHC00939W

HHC00939W is not yet documented

Explanation

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Severity

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Action

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HHC00940E

HHC00940E is not yet documented

Explanation

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Severity

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Action

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HHC00941E

HHC00941E is not yet documented

Explanation

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Severity

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Action

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HHC00942I

HHC00942I is not yet documented

Explanation

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Severity

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Action

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HHC00943W

HHC00943W is not yet documented

Explanation

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Severity

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Action

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HHC00944E

HHC00944E is not yet documented

Explanation

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Severity

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Action

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HHC00945I

HHC00945I is not yet documented

Explanation

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Severity

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Action

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HHC00946I

HHC00946I is not yet documented

Explanation

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Severity

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Action

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HHC00947I

HHC00947I is not yet documented

Explanation

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Severity

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Action

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HHC00948I

HHC00948I is not yet documented

Explanation

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Severity

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Action

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HHC00949I

HHC00949I is not yet documented

Explanation

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Severity

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Action

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HHC00950I

HHC00950I is not yet documented

Explanation

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Severity

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Action

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HHC00951I

HHC00951I is not yet documented

Explanation

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Severity

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Action

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HHC00952I

HHC00952I is not yet documented

Explanation

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Severity

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Action

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HHC00953W

HHC00953W is not yet documented

Explanation

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Severity

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Action

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HHC00954E

HHC00954E is not yet documented

Explanation

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Severity

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Action

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HHC00955E

HHC00955E is not yet documented

Explanation

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Severity

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Action

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HHC00956E

HHC00956E is not yet documented

Explanation

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Severity

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Action

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HHC00957E

HHC00957E is not yet documented

Explanation

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Severity

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Action

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HHC00958E

HHC00958E is not yet documented

Explanation

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Severity

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Action

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HHC00959E

HHC00959E is not yet documented

Explanation

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Severity

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Action

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HHC00960E

HHC00960E is not yet documented

Explanation

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Severity

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Action

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HHC00961E

HHC00961E is not yet documented

Explanation

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Severity

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Action

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HHC00962E

HHC00962E is not yet documented

Explanation

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Severity

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Action

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HHC00963E

HHC00963E is not yet documented

Explanation

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Severity

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Action

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HHC00964I

HHC00964I is not yet documented

Explanation

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Severity

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Action

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HHC00970E

HHC00970E is not yet documented

Explanation

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Severity

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Action

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HHC00971I

HHC00971I is not yet documented

Explanation

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Severity

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Action

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HHC00972I

HHC00972I is not yet documented

Explanation

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Severity

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Action

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HHC00973E

HHC00973E is not yet documented

Explanation

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Severity

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Action

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HHC00974E

HHC00974E is not yet documented

Explanation

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Severity

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Action

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HHC00975E

HHC00975E is not yet documented

Explanation

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Severity

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Action

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HHC00976E

HHC00960E is not yet documented

Explanation

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Severity

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Action

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16. Messages HHC01000s – HHC01099s (Communication Adapter Emulation)

HHC01000E

HHC01000E is not yet documented

Explanation

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Severity

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Action

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HHC01001I

HHC01001I is not yet documented

Explanation

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Severity

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Action

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HHC01002E

HHC01002E is not yet documented

Explanation

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Severity

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Action

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HHC01003W

HHC01003W is not yet documented

Explanation

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Severity

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Action

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HHC01004I

HHC01004I is not yet documented

Explanation

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Severity

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Action

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HHC01005W

HHC01005W is not yet documented

Explanation

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Severity

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Action

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HHC01006I

HHC01006I is not yet documented

Explanation

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Severity

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Action

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HHC01007E

HHC01007E is not yet documented

Explanation

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Severity

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Action

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HHC01008E

HHC01008E is not yet documented

Explanation

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Severity

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Action

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HHC01009W

HHC01009W is not yet documented

Explanation

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Severity

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Action

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HHC01010I

HHC01010I is not yet documented

Explanation

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Severity

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Action

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HHC01011I

HHC01011I is not yet documented

Explanation

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Severity

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Action

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HHC01012E

HHC01012E is not yet documented

Explanation

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Severity

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Action

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HHC01013E

HHC01013E is not yet documented

Explanation

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Severity

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Action

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HHC01014I

HHC01014I is not yet documented

Explanation

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Severity

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Action

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HHC01015E

HHC01015E is not yet documented

Explanation

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Severity

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Action

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HHC01016I

HHC01016I is not yet documented

Explanation

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Severity

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Action

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HHC01017E

HHC01017E is not yet documented

Explanation

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Severity

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Action

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HHC01018I

HHC01018I *devaddr* **COMM: client** *ipaddr* **devtype** *devtype***: connected**

Explanation

The client at IP address *ipaddr* has connected to Hercules as a *devtype* device at device address *devaddr* and is now available.

Severity

Information.

Action

None. This is an informational message.

HHC01019E

HHC01019E is not yet documented

Explanation

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Severity

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Action

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HHC01020E

HHC01020E is not yet documented

Explanation

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Severity

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Action

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HHC01022I

HHC01022I *devaddr* **COMM: client** *ipaddr* **devtype** *devtype***: connection closed by client**

Explanation

The client with devtype *devtype* at IP address *ipaddr* that was connected to the 3270 console at device address *devaddr* has closed the connection. The device is no longer available for use.

Severity

Information.

Action

None. This is an informational message.

HHC01023W

HHC01023W Waiting for port *port* **to become free for console connections**

Explanation

The thread that handles connection requests from console devices is waiting for the TCP port denoted by *port* to become available for use.

Severity

Warning.

Action

If this message persists, some other program has control of the TCP port listed. Determine the program involved and terminate it.

HHC01024I

HHC01024I Waiting for console connections on port *port*.

Explanation

Hercules is ready to accept console connections on port *port*.

Severity

Information.

Action

None. This is an informational message.

HHC01025E

HHC01025E is not yet documented

Explanation

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Severity

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Action

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HHC01026A

HHC01026A is not yet documented

Explanation

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Severity

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Action

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HHC01027I

HHC01027I is not yet documented

Explanation

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Severity

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Action

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HHC01028E

HHC01028E is not yet documented

Explanation

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Severity

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Action

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HHC01029E

HHC01029E is not yet documented

Explanation

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Severity

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Action

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HHC01030I

HHC01030I is not yet documented

Explanation

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Severity

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Action

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HHC01031I

HHC01031I is not yet documented

Explanation

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Severity

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Action

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HHC01032E

HHC01032E is not yet documented

Explanation

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Severity

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Action

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HHC01033E

HHC01033E is not yet documented

Explanation

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Severity

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Action

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HHC01034E

HHC01034E is not yet documented

Explanation

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Severity

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Action

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HHC01035E

HHC01035E is not yet documented

Explanation

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Severity

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Action

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HHC01036E

HHC01036E is not yet documented

Explanation

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Severity

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Action

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HHC01037E

HHC01037E is not yet documented

Explanation

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Severity

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Action

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HHC01038E

HHC01038E is not yet documented

Explanation

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Severity

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Action

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HHC01039E

HHC01039E is not yet documented

Explanation

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Severity

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Action

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HHC01040I

HHC01040I is not yet documented

Explanation

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Severity

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Action

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HHC01041E

HHC01041E is not yet documented

Explanation

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Severity

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Action

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HHC01042I

HHC01042I is not yet documented

Explanation

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Severity

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Action

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HHC01043E

HHC01043E is not yet documented

Explanation

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Severity

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Action

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HHC01044I

HHC01044I is not yet documented

Explanation

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Severity

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Action

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HHC01045E

HHC01045E is not yet documented

Explanation

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Severity

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Action

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HHC01046I

HHC01046I is not yet documented

Explanation

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Severity

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Action

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HHC01047I

HHC01047I is not yet documented

Explanation

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Severity

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Action

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HHC01048D

HHC01048D is not yet documented

Explanation

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Severity

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Action

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HHC01049D

HHC01049D is not yet documented

Explanation

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Severity

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Action

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HHC01050D

HHC01050D is not yet documented

Explanation

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Severity

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Action

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HHC01051D

HHC01051D is not yet documented

Explanation

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Severity

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Action

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HHC01052D

HHC01052D is not yet documented

Explanation

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Severity

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HHC01053D

HHC01053D is not yet documented

Explanation

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Severity

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HHC01054D

HHC01054D is not yet documented

Explanation

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Severity

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HHC01055D

HHC01055D is not yet documented

Explanation

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Severity

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HHC01056D

HHC01056D is not yet documented

Explanation

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Severity

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HHC01057D

HHC01057D is not yet documented

Explanation

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Severity

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HHC01058D

HHC01058D is not yet documented

Explanation

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Severity

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HHC01059D

HHC01059D is not yet documented

Explanation

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Severity

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Action

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HHC01060D

HHC01060D is not yet documented

Explanation

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Severity

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Action

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HHC01061D

HHC01061D is not yet documented

Explanation

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Severity

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Action

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HHC01062D

HHC01062D is not yet documented

Explanation

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Severity

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Action

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HHC01063D

HHC01063D is not yet documented

Explanation

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Severity

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Action

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HHC01064D

HHC01064D is not yet documented

Explanation

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Severity

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Action

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HHC01065D

HHC01065D is not yet documented

Explanation

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Severity

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Action

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HHC01066D

HHC01066D is not yet documented

Explanation

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Severity

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HHC01067

HHC01067D is not yet documented

Explanation

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Severity

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Action

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HHC01068D

HHC01068D is not yet documented

Explanation

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Severity

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Action

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HHC01069D

HHC01069D is not yet documented

Explanation

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Severity

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Action

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HHC01070D

HHC01070D is not yet documented

Explanation

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Severity

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Action

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HHC01071D

HHC01071D is not yet documented

Explanation

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Severity

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Action

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HHC01072D

HHC01072D is not yet documented

Explanation

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Severity

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Action

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HHC01073I

HHC01073I is not yet documented

Explanation

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Severity

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Action

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HHC01074D

HHC01074D is not yet documented

Explanation

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Severity

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Action

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HHC01075D

HHC01075D is not yet documented

Explanation

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Severity

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Action

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HHC01076D

HHC01076D is not yet documented

Explanation

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Severity

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Action

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HHC01077

HHC01077D is not yet documented

Explanation

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Severity

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Action

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HHC01078D

HHC01078D is not yet documented

Explanation

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Severity

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Action

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HHC01079D

HHC01079D is not yet documented

Explanation

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Severity

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Action

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HHC01080D

HHC01080D is not yet documented

Explanation

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Severity

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Action

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HHC01081D

HHC01081D is not yet documented

Explanation

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Severity

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HHC01082D

HHC01082D is not yet documented

Explanation

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Severity

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HHC01083D

HHC01083D is not yet documented

Explanation

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Severity

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Action

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HHC01084D

HHC01084D is not yet documented

Explanation

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Severity

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Action

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HHC01090D

HHC01090D is not yet documented

Explanation

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Severity

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Action

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HHC01091D

HHC01091D is not yet documented

Explanation

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Severity

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Action

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17. Messages HHC01100s – HHC01199s (Printer Emulation)

HHC01100I

HHC01100I is not yet documented

Explanation

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Severity

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Action

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HHC01101E

HHC01101E is not yet documented

Explanation

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Severity

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Action

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HHC01102E

HHC01102E is not yet documented

Explanation

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Severity

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Action

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HHC01103E

HHC01103E is not yet documented

Explanation

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Severity

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Action

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HHC01104E

HHC01104E is not yet documented

Explanation

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Severity

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Action

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HHC01105E

HHC01105E is not yet documented

Explanation

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Severity

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Action

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HHC01106I

HHC01106I is not yet documented

Explanation

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Severity

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Action

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HHC01107I

HHC01107I is not yet documented

Explanation

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Severity

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Action

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HHC01108E

HHC01108E is not yet documented

Explanation

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Severity

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Action

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18. Messages HHC01200s – HHC01299s (Card Punch / Card Reader Emulation)

HHC01200E

HHC01200E is not yet documented

Explanation

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Severity

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Action

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HHC01201E

HHC01201E is not yet documented

Explanation

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Severity

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Action

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HHC01202E

HHC01202E is not yet documented

Explanation

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Severity

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Action

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HHC01203E

HHC01203E is not yet documented

Explanation

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Severity

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Action

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HHC01204I

HHC01204I is not yet documented

Explanation

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Severity

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Action

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HHC01205W

HHC01205W is not yet documented

Explanation

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Severity

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Action

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HHC01206I

HHC01206I is not yet documented

Explanation

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Severity

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Action

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HHC01207E

HHC01207E is not yet documented

Explanation

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Severity

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Action

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HHC01208E

HHC01208E is not yet documented

Explanation

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Severity

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Action

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HHC01209E

HHC01209E is not yet documented

Explanation

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Severity

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Action

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19. Messages HHC01300s – HHC01399s (Channel-to-Channel Adapter Emulation)

HHC01300I

HHC01300I is not yet documented

Explanation

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Severity

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Action

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HHC01301I

HHC01301I is not yet documented

Explanation

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Severity

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Action

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HHC01302I

HHC01302I is not yet documented

Explanation

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Severity

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Action

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HHC01303I

HHC01303I is not yet documented

Explanation

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Severity

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Action

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HHC01304I

HHC01304I is not yet documented

Explanation

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Severity

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Action

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HHC01305I

HHC01305I is not yet documented

Explanation

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Severity

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Action

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HHC01306I

HHC01306I is not yet documented

Explanation

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Severity

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Action

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HHC01307I

HHC01307I is not yet documented

Explanation

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Severity

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Action

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HHC01308I

HHC01308I is not yet documented

Explanation

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Severity

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Action

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HHC01309I

HHC01300I is not yet documented

Explanation

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Severity

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Action

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HHC01310I

HHC01310I is not yet documented

Explanation

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Severity

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Action

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HHC01311I

HHC01311I is not yet documented

Explanation

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Severity

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Action

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HHC01312I

HHC01312I is not yet documented

Explanation

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Severity

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Action

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HHC01313I

HHC01313I is not yet documented

Explanation

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Severity

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Action

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HHC01314I

HHC01314I is not yet documented

Explanation

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Severity

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Action

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HHC01315I

HHC01315I is not yet documented

Explanation

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Severity

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Action

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HHC01316I

HHC01316I is not yet documented

Explanation

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Severity

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Action

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HHC01317I

HHC01317I is not yet documented

Explanation

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Severity

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Action

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HHC01318I

HHC01318I is not yet documented

Explanation

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Severity

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Action

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HHC01319I

HHC01319I is not yet documented

Explanation

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Severity

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Action

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HHC01329I

HHC01329I is not yet documented

Explanation

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Severity

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Action

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HHC01330I

HHC01330I is not yet documented

Explanation

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Severity

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Action

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HHC01332I

HHC01332I is not yet documented

Explanation

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Severity

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Action

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HHC01333I

HHC01333I is not yet documented

Explanation

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Severity

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Action

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HHC01334I

HHC01334I is not yet documented

Explanation

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Severity

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Action

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HHC01335I

HHC01335I is not yet documented

Explanation

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Severity

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Action

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HHC01350E

HHC01350E is not yet documented

Explanation

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Severity

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Action

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HHC01351E

HHC01351E is not yet documented

Explanation

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Severity

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Action

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HHC01352T

HHC01352T is not yet documented

Explanation

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Severity

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Action

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HHC01353W

HHC01353W is not yet documented

Explanation

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Severity

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Action

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20. Messages HHC01400s – HHC01499s (Hercules Initialization and Shutdown)

HHC01400I

HHC01400I is not yet documented

Explanation

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Severity

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Action

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HHC01401I

HHC01401I is not yet documented

Explanation

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Severity

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Action

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HHC01402I

HHC01402I is not yet documented

Explanation

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Severity

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Action

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HHC01403W

HHC01403W is not yet documented

Explanation

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Severity

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Action

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HHC01404S

HHC01404S is not yet documented

Explanation

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Severity

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Action

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HHC01405E

HHC01405E is not yet documented

Explanation

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Severity

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Action

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HHC01406W

HHC01406W is not yet documented

Explanation

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Severity

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Action

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HHC01407S

HHC01407S is not yet documented

Explanation

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Severity

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Action

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HHC01408S

HHC01408S is not yet documented

Explanation

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Severity

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Action

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HHC01409S

HHC01409S is not yet documented

Explanation

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Severity

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Action

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HHC01410S

HHC01410S is not yet documented

Explanation

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Severity

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Action

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HHC01411E

HHC01411E is not yet documented

Explanation

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Severity

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Action

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HHC01412I

HHC01412I Hercules terminated

Explanation

Hercules has finished the shutdown procedure and has terminated.

Severity

Information.

Action

None.

HHC01413I

HHC01413I Hercules version *v.rr.m*

HHC01413I Hercules version *v.rr.m*-git-*xxxx-xxxxxxxx*

Explanation

This message displays the version of Hercules thast is currently running. For productive, stable versions the message shows the version, release and modification level in the form *v.rr.m*. Snaphots from the developers repository additionally show the commit level in the form git-*xxxx-xxxxxxxx*.

Severity

Information.

Action

None.

HHC01414I

HHC01414I (c) Copyright 1999-*yyyy* by Roger Bowler, Jan Jaeger, and others

Explanation

This message displays the copyright statement, where *yyyy* is the current year of the build of Hercules.

Severity

Information.

Action

None.

HHC01415I

HHC01415I Built on *Mon dd yyyy* **at** *hh:mm:ss*

Explanation

This message shows when the running Hercules build was compiled. *Mon* is the abbreviated month, *dd* is the day, *yyyy* is the year and *hh:mm:ss* is the timestamp of the build.

Severity

Information.

Action

None.

HHC01416I

HHC01416I Build information:

Explanation

This is the title for the build information. This message is followed by several HHC01416I messages showing detailed build information.

Severity

Information.

Action

None.

HHC01417I

HHC01417I is not yet documented

Explanation

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Severity

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Action

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HHC01418E

HHC01418E is not yet documented

Explanation

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Severity

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Action

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HHC01419E

HHC01419E is not yet documented

Explanation

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Severity

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Action

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HHC01420I

HHC01420I Begin Hercules shutdown

Explanation

Hercules is starting shutting down because an "EXIT" or "QUIT" console command has been issued.

Severity

Information.

Action

None.

HHC01422I

HHC01422I Configuration released

Explanation

The configuration that has been in use has been released. This message is issued during shutdown of Hercules.

Severity

Information.

Action

None.

HHC01423I

HHC01423I Calling termination routines

Explanation

During shutdown Hercules is calling the termination routines.

Severity

Information.

Action

None.

HHC01424I

HHC01424I All termination routines complete

Explanation

During shutdown of Hercules all termination routines have been finished.

Severity

Information.

Action

None.

HHC01425I

HHC01425I Hercules shutdown complete

Explanation

Hercules has been completed the shutdown procedure.

Severity

Information.

Action

None.

HHC01426I

HHC01426I Shutdown initiated

Explanation

The Hercules shutdown has been initiated. This message is issued due to an "EXIT" or "QUIT" console command that has been given.

Severity

Information.

Action

None.

HHC01427I

HHC01427I *type* **storage released**

Explanation

During shutdown of Hercules the allocated storage has been released. The storage type is either "Main" or "Expanded".

Severity

Information.

Action

None.

HHC01430S

HHC01430S is not yet documented

Explanation

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Severity

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Action

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HHC01431I

HHC01431I is not yet documented

Explanation

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Severity

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Action

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HHC01432S

HHC01432S is not yet documented

Explanation

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Severity

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Action

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HHC01433S

HHC01433S is not yet documented

Explanation

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Severity

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Action

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HHC01435I

HHC01435I is not yet documented

Explanation

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Severity

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Action

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HHC01436S

HHC01436S is not yet documented

Explanation

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Severity

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Action

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HHC01437I

HHC01437I is not yet documented

Explanation

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Severity

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Action

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HHC01438W

HHC01438W is not yet documented

Explanation

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Severity

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Action

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HHC01439S

HHC01439S is not yet documented

Explanation

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Severity

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Action

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HHC01441E

HHC01441E is not yet documented

Explanation

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Severity

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Action

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HHC01443S

HHC01443S is not yet documented

Explanation

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Severity

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Action

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HHC01447I

HHC01447I is not yet documented

Explanation

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Severity

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Action

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HHC01448S

HHC01448S is not yet documented

Explanation

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Severity

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Action

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HHC01451E

HHC01451E is not yet documented

Explanation

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Severity

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Action

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HHC01452W

HHC01452W is not yet documented

Explanation

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Severity

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Action

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HHC01453S

HHC01453S is not yet documented

Explanation

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Severity

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Action

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HHC01454S

HHC01454S is not yet documented

Explanation

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Severity

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Action

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HHC01455E

HHC01455E is not yet documented

Explanation

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Severity

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Action

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HHC01456E

HHC01456E is not yet documented

Explanation

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Severity

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Action

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HHC01457E

HHC01457E is not yet documented

Explanation

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Severity

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Action

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HHC01458W

HHC01458W is not yet documented

Explanation

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Severity

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Action

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HHC01459I

HHC01459I is not yet documented

Explanation

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Severity

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Action

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HHC01460E

HHC01460E is not yet documented

Explanation

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Severity

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Action

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HHC01461E

HHC01461E is not yet documented

Explanation

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Severity

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Action

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HHC01462E

HHC01462E is not yet documented

Explanation

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Severity

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Action

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HHC01463E

HHC01463E is not yet documented

Explanation

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Severity

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Action

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HHC01464E

HHC01464E is not yet documented

Explanation

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Severity

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Action

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HHC01465I

HHC01465I is not yet documented

Explanation

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Severity

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Action

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HHC01466E

HHC01466E is not yet documented

Explanation

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Severity

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Action

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HHC01467E

HHC01467E is not yet documented

Explanation

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Severity

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Action

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HHC01468E

HHC01468E is not yet documented

Explanation

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Severity

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Action

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HHC01469E

HHC01469E is not yet documented

Explanation

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Severity

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Action

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HHC01470E

HHC01470E is not yet documented

Explanation

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Severity

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Action

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HHC01471E

HHC01471E is not yet documented

Explanation

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Severity

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Action

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HHC01472E

HHC01472E is not yet documented

Explanation

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Severity

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Action

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HHC01473E

HHC01473E is not yet documented

Explanation

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Severity

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Action

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HHC01474I

HHC01474I is not yet documented

Explanation

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Severity

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Action

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HHC01475E

HHC01475E is not yet documented

Explanation

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Severity

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Action

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HHC01476I

HHC01476I is not yet documented

Explanation

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Severity

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Action

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HHC01477W

HHC01477W is not yet documented

Explanation

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Severity

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Action

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HHC01478I

HHC01478I is not yet documented

Explanation

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Severity

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Action

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HHC01479I

HHC01479I is not yet documented

Explanation

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Severity

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Action

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HHC01480E

HHC01480E is not yet documented

Explanation

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Severity

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Action

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HHC01481I

HHC01481I is not yet documented

Explanation

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Severity

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Action

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HHC01482I

HHC01482I is not yet documented

Explanation

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Severity

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Action

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HHC01483E

HHC01483E is not yet documented

Explanation

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Severity

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Action

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HHC01484I

HHC01484I is not yet documented

Explanation

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Severity

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Action

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HHC01485I

HHC01485I is not yet documented

Explanation

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Severity

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Action

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HHC01486I

HHC01486I is not yet documented

Explanation

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Severity

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Action

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HHC01487I

HHC01487I is not yet documented

Explanation

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Severity

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Action

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HHC01488I

HHC01488I is not yet documented

Explanation

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Severity

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Action

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HHC01489E

HHC01489E is not yet documented

Explanation

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Severity

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Action

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HHC01490I

HHC01490I is not yet documented

Explanation

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Severity

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Action

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HHC01491I

HHC01491I is not yet documented

Explanation

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Severity

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Action

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HHC01492I

HHC01492I is not yet documented

Explanation

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Severity

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Action

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HHC01493I

HHC01493I is not yet documented

Explanation

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Severity

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Action

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21. Messages HHC01500s – HHC01599s (Dynamic Loader)

HHC01500I

HHC01500I is not yet documented

Explanation

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Severity

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Action

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HHC01501I

HHC01501I is not yet documented

Explanation

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Severity

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Action

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HHC01502I

HHC01502I is not yet documented

Explanation

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Severity

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Action

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HHC01504I

HHC01504I is not yet documented

Explanation

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Severity

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Action

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HHC01505E

HHC01505E is not yet documented

Explanation

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Severity

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Action

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HHC01506W

HHC01506W is not yet documented

Explanation

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Severity

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Action

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HHC01507W

HHC01507W is not yet documented

Explanation

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Severity

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Action

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HHC01508I

HHC01508I is not yet documented

Explanation

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Severity

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Action

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HHC01509I

HHC01509I is not yet documented

Explanation

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Severity

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Action

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HHC01510I

HHC01510I is not yet documented

Explanation

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Severity

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Action

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HHC01511S

HHC01511S is not yet documented

Explanation

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Severity

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Action

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HHC01512I

HHC01512I is not yet documented

Explanation

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Severity

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Action

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HHC01513I

HHC01513I is not yet documented

Explanation

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Severity

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Action

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HHC01514I

HHC01514I is not yet documented

Explanation

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Severity

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Action

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HHC01515I

HHC01515I is not yet documented

Explanation

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Severity

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Action

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HHC01516E

HHC01516E is not yet documented

Explanation

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Severity

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Action

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HHC01517E

HHC01517E is not yet documented

Explanation

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Severity

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Action

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HHC01518E

HHC01518E is not yet documented

Explanation

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Severity

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Action

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HHC01519E

HHC01519E is not yet documented

Explanation

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Severity

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Action

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HHC01520E

HHC01520E is not yet documented

Explanation

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Severity

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Action

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HHC01521E

HHC01521E is not yet documented

Explanation

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Severity

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Action

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HHC01522E

HHC01522E is not yet documented

Explanation

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Severity

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Action

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HHC01523E

HHC01523E is not yet documented

Explanation

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Severity

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Action

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HHC01524E

HHC01524E is not yet documented

Explanation

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Severity

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Action

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HHC01525E

HHC01525E is not yet documented

Explanation

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Severity

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Action

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HHC01526I

HHC01526I is not yet documented

Explanation

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Severity

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Action

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HHC01527I

HHC01527I is not yet documented

Explanation

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Severity

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Action

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HHC01528I

HHC01528I is not yet documented

Explanation

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Severity

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Action

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HHC01529I

HHC01529I is not yet documented

Explanation

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Severity

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Action

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HHC01530E

HHC01530E is not yet documented

Explanation

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Severity

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Action

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HHC01531I

HHC01531I is not yet documented

Explanation

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Severity

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Action

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HHC01532I

HHC01532I is not yet documented

Explanation

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Severity

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Action

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HHC01533I

HHC01533I is not yet documented

Explanation

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Severity

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Action

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HHC01534I

HHC01534I is not yet documented

Explanation

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Severity

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Action

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HHC01535I

HHC01535I is not yet documented

Explanation

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Severity

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Action

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HHC01540E

HHC01540E is not yet documented

Explanation

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Severity

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Action

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HHC01541I

HHC01541I HDL: dyngui.dll initiated

Explanation

The dyngui loadable module was successfully loaded and initiated.

Severity

Information.

Action

None. This is an informational message.

HHC01542I

HHC01542I HDL: dyngui.dll terminated

Explanation

The dyngui loadable module was successfully terminated.

Severity

Information.

Action

None. This is an informational message.

22. Messages HHC01600s – HHC01699s (Panel Communication)

HHC01600E

HHC01600E is not yet documented

Explanation

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Severity

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Action

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HHC01602I

HHC01602I is not yet documented

Explanation

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Severity

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Action

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HHC01603I

HHC01603I *cmd*

Explanation

Console command 'cmd' has been issued at the Herculese console. See also Message HHC00013I.

Severity

Information.

Action

None. This is an informational message.

HHC01604I

HHC01604I is not yet documented

Explanation

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Severity

…

Action

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HHC01605E

HHC01605E is not yet documented

Explanation

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Severity

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Action

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HHC01606I

HHC01606I is not yet documented

Explanation

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Severity

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Action

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HHC01607I

HHC01607I is not yet documented

Explanation

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Severity

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Action

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HHC01608W

HHC01608W is not yet documented

Explanation

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Severity

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Action

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HHC01609E

HHC01609E is not yet documented

Explanation

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Severity

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Action

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HHC01610I

HHC01610I is not yet documented

Explanation

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Severity

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Action

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23. Messages HHC01700s – HHC01799s (ECPS:VM Support)

HHC01700W

HHC01700W is not yet documented

Explanation

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Severity

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Action

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HHC01701I

HHC01701I is not yet documented

Explanation

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Severity

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Action

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HHC01702I

HHC01702I is not yet documented

Explanation

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Severity

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Action

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HHC01703I

HHC01703I is not yet documented

Explanation

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Severity

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Action

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HHC01704I

HHC01704I is not yet documented

Explanation

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Severity

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Action

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HHC01705I

HHC01705I is not yet documented

Explanation

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Severity

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Action

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HHC01706I

HHC01706I is not yet documented

Explanation

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Severity

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Action

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HHC01707I

HHC01707I ECPS:VM {VM | CP} ASSIST feature xxxxxxxx {Disabled | Enabled}

Explanation

This message is indicating that the ECPS:VM ASSIST feature '*feature*' of type VM or CP has been either disabled or enabled.

Severity

Information.

Action

None. This is an informational message.

HHC01708I

HHC01708I All ECPS:VM {VM | CP} ASSIST features {Disabled | Enabled}

Explanation

This message is indicating that all ECPS:VM ASSIST features of type VM or CP have been either disabled or enabled.

Severity

Information.

Action

None. This is an informational message.

HHC01709I

HHC01709I is not yet documented

Explanation

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Severity

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Action

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HHC01710I

HHC01710I is not yet documented

Explanation

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Severity

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Action

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HHC01711I

HHC01711I is not yet documented

Explanation

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Severity

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Action

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HHC01712I

HHC01712I is not yet documented

Explanation

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Severity

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Action

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HHC01713I

HHC01713I is not yet documented

Explanation

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Severity

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Action

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HHC01714I

HHC01714I is not yet documented

Explanation

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Severity

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Action

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HHC01715W

HHC01715W is not yet documented

Explanation

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Severity

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Action

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HHC01716I

HHC01716I is not yet documented

Explanation

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Severity

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Action

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HHC01717I

HHC01717I is not yet documented

Explanation

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Severity

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Action

…

HHC01718E

HHC01718E is not yet documented

Explanation

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Severity

…

Action

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HHC01719I

HHC01719I ECPS:VM Command processor invoked

Explanation

The ECPS:VM command processor has been invoked.

Severity

Information.

Action

None. This is an informational message.

HHC01720E

HHC01720E is not yet documented

Explanation

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Severity

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Action

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HHC01721E

HHC01721E is not yet documented

Explanation

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Severity

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Action

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HHC01722I

HHC01722I ECPS:VM Command processor complete

Explanation

The ECPS:VM command processor has been completed.

Severity

Information.

Action

None. This is an informational message.

HHC01723W

HHC01723W is not yet documented

Explanation

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Severity

…

Action

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24. Messages HHC01800s – HHC01899s (HTTP Server)

HHC01800E

HHC01800E is not yet documented

Explanation

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Severity

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Action

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HHC01801E

HHC01801E is not yet documented

Explanation

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Severity

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Action

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HHC01802I

HHC01802I HTTP server using root directory *path*

Explanation

The Hercules HTTP server is using '*path*' as the root directory.

Severity

Information.

Action

None. This is an informational message.

HHC01803I

HHC01803I is not yet documented

Explanation

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Severity

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Action

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HHC01804W

HHC01804W is not yet documented

Explanation

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Severity

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Action

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HHC01805I

HHC01805I is not yet documented

Explanation

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Severity

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Action

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HHC01806W

HHC01806W is not yet documented

Explanation

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Severity

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Action

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HHC01807I

HHC01807I is not yet documented

Explanation

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Severity

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Action

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HHC01808I

HHC01808I is not yet documented

Explanation

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Severity

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Action

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HHC01809I

HHC01809I is not yet documented

Explanation

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Severity

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Action

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HHC01810I

HHC01810I is not yet documented

Explanation

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Severity

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Action

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HHC01811I

HHC01811I is not yet documented

Explanation

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Severity

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Action

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HHC01812E

HHC01812E is not yet documented

Explanation

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Severity

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Action

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HHC01814E

HHC01814E is not yet documented

Explanation

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Severity

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Action

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HHC01815E

HHC01815E is not yet documented

Explanation

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Severity

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Action

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25. Messages HHC01900s – HHC01999s (Diagnose Calls)

HHC01900I

HHC01900I is not yet documented

Explanation

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Severity

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Action

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HHC01901I

HHC01901I is not yet documented

Explanation

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Severity

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Action

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HHC01902I

HHC01902I is not yet documented

Explanation

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Severity

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Action

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HHC01905I

HHC01905I is not yet documented

Explanation

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Severity

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Action

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HHC01906I

HHC01906I is not yet documented

Explanation

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Severity

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Action

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HHC01907I

HHC01907I is not yet documented

Explanation

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Severity

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Action

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HHC01908E

HHC01908E is not yet documented

Explanation

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Severity

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Action

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HHC01909I

HHC01909I is not yet documented

Explanation

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Severity

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Action

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HHC01920I

HHC01920I is not yet documented

Explanation

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Severity

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Action

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HHC01921I

HHC01920I is not yet documented

Explanation

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Severity

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Action

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HHC01922I

HHC01922I is not yet documented

Explanation

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Severity

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Action

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HHC01923I

HHC01923I is not yet documented

Explanation

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Severity

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Action

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HHC01924I

HHC01924I is not yet documented

Explanation

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Severity

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Action

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HHC01925I

HHC01925I is not yet documented

Explanation

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Severity

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Action

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HHC01926I

HHC01926I is not yet documented

Explanation

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Severity

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Action

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HHC01927I

HHC01927I is not yet documented

Explanation

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Severity

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Action

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HHC01928I

HHC01928I is not yet documented

Explanation

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Severity

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Action

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HHC01929I

HHC01929I is not yet documented

Explanation

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Severity

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Action

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HHC01930I

HHC01930I is not yet documented

Explanation

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Severity

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Action

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HHC01931I

HHC01931I is not yet documented

Explanation

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Severity

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Action

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HHC01932I

HHC01932I is not yet documented

Explanation

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Severity

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Action

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HHC01933I

HHC01933I is not yet documented

Explanation

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Severity

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Action

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HHC01934I

HHC01934I is not yet documented

Explanation

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Severity

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Action

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HHC01935I

HHC01935I is not yet documented

Explanation

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Severity

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Action

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HHC01936I

HHC01936I is not yet documented

Explanation

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Severity

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Action

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HHC01937I

HHC01937I is not yet documented

Explanation

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Severity

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Action

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HHC01938E

HHC01938E is not yet documented

Explanation

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Severity

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Action

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HHC01939I

HHC01939I is not yet documented

Explanation

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Severity

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Action

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HHC01940I

HHC01940I is not yet documented

Explanation

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Severity

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Action

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HHC01941I

HHC01941I is not yet documented

Explanation

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Severity

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Action

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HHC01942I

HHC01942I is not yet documented

Explanation

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Severity

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Action

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HHC01943I

HHC01943I is not yet documented

Explanation

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Severity

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Action

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HHC01944I

HHC01944I is not yet documented

Explanation

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Severity

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Action

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HHC01945I

HHC01945I is not yet documented

Explanation

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Severity

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Action

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HHC01950I

HHC01950I Panel command *'cmd'* **issued by guest started**

HHC01950I Panel command *'cmd'* **issued by guest completed**

Explanation

The guest operating system has started or completed a DIAGNOSE 8 instruction to perform the panel command *'cmd'* to be carried out by the Hercules panel command processor.

Severity

Information.

Action

This is an informational message. No action is requested if this behaviour is expected. If this behaviour poses a security concern however, the *DIAG8CMD* configuration statement should either be ommited or specified with the *DISABLED* argument.

HHC01951W

HHC01951W is not yet documented

Explanation

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Severity

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Action

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HHC01952I

HHC01952I is not yet documented

Explanation

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Severity

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Action

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HHC01953E

HHC01953E Host command processing disabled by configuration statement

Explanation

The guest operating system attempted using the DIAGNOSE 8 Instruction to carry out a panel command, but the system configuration disabled this feature (with the *DIAG8CMD* configuration statement). The panel command is ignored.

Severity

Error.

Action

If it is deemed necessary for the guest operating system to issue DIAGNOSE 8 commands to issue panel commands, the *DIAG8CMD* with the *ENABLE* argument should be specified in the configuration file.

HHC01954E

HHC01954E Host command processing not included in engine build

Explanation

The Hercules engine has been built without Diagnose 8 panel command facility support . The panel command is not issued. The system continues.

Severity

Error.

Action

If it is desired that DIAGNOSE 8 instructions be carried out as panel commands, the facility should be included in the build process. Additionally, the *DIAG8CMD* configuration statement should be specified with the *ENABLE* parameter.

26. Messages HHC02000s – HHC02099s (Suspend / Resume Processing)

HHC02000E

HHC02000E is not yet documented

Explanation

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Severity

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Action

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HHC02001E

HHC02001E is not yet documented

Explanation

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Severity

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Action

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HHC02002W

HHC02002W is not yet documented

Explanation

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Severity

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Action

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HHC02003W

HHC02003W is not yet documented

Explanation

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Severity

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Action

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HHC02004E

HHC02004E is not yet documented

Explanation

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Severity

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Action

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HHC02005E

HHC02005E is not yet documented

Explanation

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Severity

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Action

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HHC02006E

HHC02006E is not yet documented

Explanation

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Severity

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Action

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HHC02007E

HHC02007E is not yet documented

Explanation

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Severity

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Action

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HHC02008E

HHC02008E is not yet documented

Explanation

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Severity

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Action

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HHC02009E

HHC02009E is not yet documented

Explanation

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Severity

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Action

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HHC02010E

HHC02010E is not yet documented

Explanation

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Severity

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Action

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HHC02011E

HHC02011E is not yet documented

Explanation

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Severity

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Action

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HHC02012E

HHC02012E is not yet documented

Explanation

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Severity

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Action

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HHC02013E

HHC02013E is not yet documented

Explanation

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Severity

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Action

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HHC02014E

HHC02014E is not yet documented

Explanation

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Severity

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Action

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HHC02015E

HHC02015E is not yet documented

Explanation

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Severity

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Action

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HHC02016E

HHC02016E is not yet documented

Explanation

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Severity

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Action

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HHC02017E

HHC02017E is not yet documented

Explanation

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Severity

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Action

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HHC02018E

HHC02018E is not yet documented

Explanation

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Severity

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Action

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HHC02019E

HHC02019E is not yet documented

Explanation

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Severity

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Action

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HHC02020E

HHC02020E is not yet documented

Explanation

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Severity

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Action

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HHC02021E

HHC02021E is not yet documented

Explanation

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Severity

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Action

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27. Messages HHC02100s – HHC02199s (System Logger)

HHC02100E

HHC02100E is not yet documented

Explanation

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Severity

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Action

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HHC02101I

HHC02101I is not yet documented

Explanation

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Severity

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Action

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HHC02102E

HHC02102E is not yet documented

Explanation

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Severity

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Action

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HHC02103I

HHC02103I Logger: logger thread terminating

Explanation

During shutdown of Hercules the logger thread is terminating.

Severity

Information.

Action

None.

HHC02104I

HHC02104I is not yet documented

Explanation

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Severity

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Action

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HHC02105I

HHC02105I is not yet documented

Explanation

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Severity

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Action

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HHC02106I

HHC02106I is not yet documented

Explanation

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Severity

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Action

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HHC02197E

HHC02197E is not yet documented

Explanation

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Severity

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Action

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HHC02198I

HHC02198I is not yet documented

Explanation

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Severity

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Action

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HHC02199I

HHC02199I is not yet documented

Explanation

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Severity

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Action

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28. Messages HHC02200s – HHC02299s (Command Processing)

HHC02200E

HHC02200E is not yet documented

Explanation

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Severity

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Action

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HHC02201E

HHC02201E is not yet documented

Explanation

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Severity

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Action

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HHC02202E

HHC02202E is not yet documented

Explanation

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Severity

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Action

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HHC02203I

HHC02203I is not yet documented

Explanation

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Severity

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Action

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HHC02204I

HHC02204I cmdsep   set to *x*

Explanation

The command separator sign for separating Hercules console commands has been set to sign '*x*'.

Severity

Information.

Action

None. This is an informational message.

HHC02205E

HHC02205E is not yet documented

Explanation

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Severity

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Action

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HHC02206I

HHC02206I is not yet documented

Explanation

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Severity

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Action

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HHC02207I

HHC02207I is not yet documented

Explanation

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Severity

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Action

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HHC02208I

HHC02208I is not yet documented

Explanation

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Severity

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Action

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HHC02209E

HHC02209E is not yet documented

Explanation

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Severity

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Action

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HHC02210I

HHC02210I is not yet documented

Explanation

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Severity

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Action

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HHC02211E

HHC02211E is not yet documented

Explanation

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Severity

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Action

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HHC02212E

HHC02212E is not yet documented

Explanation

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Severity

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Action

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HHC02213E

HHC02213E is not yet documented

Explanation

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Severity

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Action

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HHC02214I

HHC02214I is not yet documented

Explanation

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Severity

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Action

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HHC02215W

HHC02215W is not yet documented

Explanation

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Severity

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Action

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HHC02216E

HHC02216E is not yet documented

Explanation

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Severity

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Action

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HHC02217I

HHC02217I is not yet documented

Explanation

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Severity

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Action

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HHC02218E

HHC02218E is not yet documented

Explanation

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Severity

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Action

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HHC02219E

HHC02219E is not yet documented

Explanation

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Severity

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Action

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HHC02220I

HHC02220I is not yet documented

Explanation

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Severity

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Action

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HHC02221E

HHC02221E is not yet documented

Explanation

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Severity

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Action

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HHC02222E

HHC02222E is not yet documented

Explanation

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Severity

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Action

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HHC02223I

HHC02223I is not yet documented

Explanation

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Severity

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Action

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HHC02224E

HHC02224E is not yet documented

Explanation

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Severity

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Action

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HHC02226I

HHC02226I is not yet documented

Explanation

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Severity

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Action

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HHC02227E

HHC02227E is not yet documented

Explanation

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Severity

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Action

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HHC02228I

HHC02228I is not yet documented

Explanation

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Severity

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Action

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HHC02229I

HHC02229I is not yet documented

Explanation

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Severity

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Action

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HHC02230I

HHC02230I is not yet documented

Explanation

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Severity

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Action

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HHC02231E

HHC02231E is not yet documented

Explanation

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Severity

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Action

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HHC02232E

HHC02232E is not yet documented

Explanation

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Severity

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Action

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HHC02233E

HHC02233E is not yet documented

Explanation

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Severity

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Action

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HHC02234W

HHC02234W is not yet documented

Explanation

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Severity

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Action

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HHC02235E

HHC02235E is not yet documented

Explanation

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Severity

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Action

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HHC02236E

HHC02236E is not yet documented

Explanation

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Severity

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Action

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HHC02237W

HHC02237W is not yet documented

Explanation

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Severity

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Action

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HHC02238E

HHC02238E is not yet documented

Explanation

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Severity

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Action

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HHC02239I

HHC02239I is not yet documented

Explanation

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Severity

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Action

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HHC02240I

HHC02240I is not yet documented

Explanation

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Severity

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Action

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HHC02241I

HHC02241I is not yet documented

Explanation

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Severity

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Action

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HHC02242I

HHC02242I is not yet documented

Explanation

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Severity

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Action

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HHC02243E

HHC02243E is not yet documented

Explanation

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Severity

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HHC02244E

HHC02244E is not yet documented

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HHC02245I

HHC02245I is not yet documented

Explanation

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Severity

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HHC02246E

HHC02246E is not yet documented

Explanation

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Severity

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HHC02247E

HHC02247E is not yet documented

Explanation

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Severity

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HHC02248I

HHC02248I is not yet documented

Explanation

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Severity

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HHC02249I

HHC02249I is not yet documented

Explanation

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Severity

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HHC02250I

HHC02250I is not yet documented

Explanation

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Severity

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HHC02251E

HHC02251E is not yet documented

Explanation

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HHC02252E

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HHC02253E

HHC02253E is not yet documented

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HHC02254I

HHC02254I is not yet documented

Explanation

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Severity

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HHC02255I

HHC02255I is not yet documented

Explanation

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Severity

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Action

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HHC02256W

HHC02256W is not yet documented

Explanation

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Severity

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Action

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HHC02257I

HHC02257I is not yet documented

Explanation

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Severity

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Action

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HHC02259E

HHC02259E is not yet documented

Explanation

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Severity

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Action

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HHC02260I

HHC02260I is not yet documented

Explanation

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Severity

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Action

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HHC02261W

HHC02261W is not yet documented

Explanation

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Severity

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Action

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HHC02262I

HHC02262I is not yet documented

Explanation

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Severity

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HHC02263I

HHC02263I is not yet documented

Explanation

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Severity

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HHC02264I

HHC02264I is not yet documented

Explanation

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Severity

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HHC02265I

HHC02265I is not yet documented

Explanation

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Severity

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HHC02266A

HHC02266A is not yet documented

Explanation

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Severity

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HHC02267I

HHC02267I is not yet documented

Explanation

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Severity

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Action

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HHC02268I

HHC02268I is not yet documented

Explanation

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Severity

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Action

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HHC02269I

HHC02269I is not yet documented

Explanation

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Severity

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Action

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HHC02270I

HHC02270I is not yet documented

Explanation

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Severity

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Action

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HHC02271I

HHC02271I is not yet documented

Explanation

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Severity

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Action

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HHC02272I

HHC02272I Highest observed MIPS and IO/s rates:

HHC02272I From *begin_last_interval* **to** *end_last_interval*

HHC02272I MIPS: *nnn.nnnnnn*

HHC02272I IO/s: *nnnn*

HHC02272I From *begin_new_interval* **to** *end_new_interval*

HHC02272I MIPS: *nnn.nnnnnn*

HHC02272I IO/s: *nnnn*

HHC02272I Current interval is *nnnn* **minutes**

Explanation

Message HHC02272I is the result of a MAXRATES console command either issued manually or driven by the interval. The current interval time in minutes is shown in the last message.

The first message block shows the maximum MIPS rate (million instructions per second) and the mximum IO/s (IO's per second) in the last interval, while the second blocks shows the rates for the current interval. The begin and end interval timestamps are in the format "Day Mon dd hh:mm:ss yyyy"

Severity

Information.

Action

None. This is an informational message.

HHC02273I

HHC02273I is not yet documented

Explanation

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Severity

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Action

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HHC02274I

HHC02274I is not yet documented

Explanation

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Severity

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Action

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HHC02275I

HHC02275I is not yet documented

Explanation

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Severity

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Action

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HHC02276I

HHC02276I is not yet documented

Explanation

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Severity

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Action

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HHC02277I

HHC02277I is not yet documented

Explanation

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Severity

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Action

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HHC02278I

HHC02280I is not yet documented

Explanation

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Severity

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Action

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HHC02279I

HHC02279I is not yet documented

Explanation

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Severity

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Action

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HHC02280I

HHC02280I is not yet documented

Explanation

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Severity

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Action

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HHC02281I

HHC02281I is not yet documented

Explanation

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Severity

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Action

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HHC02282I

HHC02282I is not yet documented

Explanation

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Severity

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Action

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HHC02283I

HHC02283I is not yet documented

Explanation

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Severity

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Action

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HHC02284I

HHC02284I is not yet documented

Explanation

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Severity

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Action

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HHC02285I

HHC02285I is not yet documented

Explanation

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Severity

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Action

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HHC02286I

HHC02286I is not yet documented

Explanation

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Severity

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Action

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HHC02287I

HHC02287I is not yet documented

Explanation

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Severity

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Action

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HHC02288I

HHC02288I is not yet documented

Explanation

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Severity

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HHC02289I

HHC02289I is not yet documented

Explanation

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Severity

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Action

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HHC02290I

HHC02290I is not yet documented

Explanation

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Severity

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Action

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HHC02291I

HHC02291I is not yet documented

Explanation

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Severity

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Action

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HHC02292I

HHC02292I is not yet documented

Explanation

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Severity

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Action

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HHC02293I

HHC02293I is not yet documented

Explanation

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Severity

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Action

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HHC02294I

HHC02294I is not yet documented

Explanation

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Severity

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Action

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HHC02298E

HHC02298E is not yet documented

Explanation

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Severity

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Action

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HHC02299E

HHC02299E is not yet documented

Explanation

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Severity

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Action

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29. Messages HHC02300s – HHC02399s (IEEE Component)

HHC02300I

HHC02300I is not yet documented

Explanation

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Severity

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Action

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HHC02301E

HHC02301E is not yet documented

Explanation

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Severity

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Action

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HHC02302W

HHC02302W is not yet documented

Explanation

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Severity

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Action

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HHC02303E

HHC02303E is not yet documented

Explanation

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Severity

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Action

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HHC02304W

HHC02304W is not yet documented

Explanation

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Severity

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Action

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HHC02305E

HHC02305E is not yet documented

Explanation

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Severity

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Action

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HHC02306E

HHC02306E is not yet documented

Explanation

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Severity

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Action

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HHC02307E

HHC02307E is not yet documented

Explanation

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Severity

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Action

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HHC02308W

HHC02308W is not yet documented

Explanation

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Severity

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Action

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HHC02309W

HHC02309W is not yet documented

Explanation

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Severity

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Action

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HHC02310S

HHC02310S is not yet documented

Explanation

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Severity

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Action

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HHC02311I

HHC02311I is not yet documented

Explanation

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Severity

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Action

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HHC02312W

HHC02312W is not yet documented

Explanation

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Severity

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Action

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HHC02313I

HHC02313I is not yet documented

Explanation

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Severity

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Action

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HHC02314I

HHC02314I is not yet documented

Explanation

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Severity

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Action

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HHC02315I

HHC02315I is not yet documented

Explanation

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Severity

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Action

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HHC02316E

HHC02316E is not yet documented

Explanation

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Severity

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Action

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HHC02318I

HHC02318I is not yet documented

Explanation

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Severity

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Action

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HHC02319I

HHC02319I is not yet documented

Explanation

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Severity

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Action

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HHC02386E

HHC02386E is not yet documented

Explanation

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Severity

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Action

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HHC02389E

HHC02389E is not yet documented

Explanation

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Severity

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Action

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30. Messages HHC02400s – HHC02499s (DASD Utilities)

HHC02400E

HHC02400E is not yet documented

Explanation

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Severity

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Action

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HHC02401E

HHC02401E is not yet documented

Explanation

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Severity

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Action

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HHC02402E

HHC02402E is not yet documented

Explanation

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Severity

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Action

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HHC02403E

HHC02403E is not yet documented

Explanation

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Severity

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Action

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HHC02404E

HHC02404E is not yet documented

Explanation

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Severity

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Action

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HHC02405I

HHC02405I is not yet documented

Explanation

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Severity

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Action

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HHC02410I

HHC02410I is not yet documented

Explanation

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Severity

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Action

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HHC02411E

HHC02411E is not yet documented

Explanation

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Severity

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Action

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HHC02412E

HHC02412E is not yet documented

Explanation

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Severity

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Action

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HHC02413E

HHC02413E is not yet documented

Explanation

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Severity

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Action

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HHC02414I

HHC02414I is not yet documented

Explanation

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Severity

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Action

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HHC02415E

HHC02415E is not yet documented

Explanation

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Severity

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Action

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HHC02416E

HHC02416E is not yet documented

Explanation

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Severity

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Action

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HHC02417E

HHC02417E is not yet documented

Explanation

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Severity

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Action

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HHC02418E

HHC02418E is not yet documented

Explanation

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Severity

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Action

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HHC02419E

HHC02419E is not yet documented

Explanation

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Severity

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Action

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HHC02420I

HHC02420I is not yet documented

Explanation

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Severity

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Action

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HHC02421E

HHC02421E is not yet documented

Explanation

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Severity

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Action

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HHC02422I

HHC02422I is not yet documented

Explanation

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Severity

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Action

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HHC02423I

HHC02420I is not yet documented

Explanation

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Severity

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Action

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HHC02430E

HHC02430E is not yet documented

Explanation

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Severity

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Action

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HHC02431E

HHC02431E is not yet documented

Explanation

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Severity

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Action

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HHC02432E

HHC02432E is not yet documented

Explanation

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Severity

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Action

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HHC02433E

HHC02433E is not yet documented

Explanation

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Severity

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Action

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HHC02434E

HHC02434E is not yet documented

Explanation

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Severity

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Action

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HHC02435I

HHC02435I is not yet documented

Explanation

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Severity

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Action

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HHC02436I

HHC02436I is not yet documented

Explanation

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Severity

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Action

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HHC02437I

HHC02437I is not yet documented

Explanation

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Severity

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Action

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HHC02438I

HHC02438I is not yet documented

Explanation

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Severity

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Action

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HHC02439I

HHC02439I is not yet documented

Explanation

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Severity

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Action

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HHC02444E

HHC02444E is not yet documented

Explanation

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Severity

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Action

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HHC02445E

HHC02445E is not yet documented

Explanation

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Severity

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Action

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HHC02446E

HHC02446E is not yet documented

Explanation

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Severity

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Action

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HHC02447E

HHC02447E is not yet documented

Explanation

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Severity

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Action

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HHC02448I

HHC02448I is not yet documented

Explanation

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Severity

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HHC02449I

HHC02449I is not yet documented

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HHC02450I

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HHC02451I

HHC02451I is not yet documented

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HHC02452E

HHC02452E is not yet documented

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HHC02453W

HHC02453W is not yet documented

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HHC02456E

HHC02456E is not yet documented

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HHC02457I

HHC02457I is not yet documented

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HHC02461E

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HHC02462I

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HHC02495I

HHC02495I is not yet documented

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Severity

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HHC02496I

HHC02496I is not yet documented

Explanation

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Severity

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HHC02499I

HHC02499I is not yet documented

Explanation

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Severity

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Action

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31. Messages HHC02500s – HHC02599s (DASD Utilities)

HHC02500E

HHC02500E is not yet documented

Explanation

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Severity

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Action

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HHC02501E

HHC02501E is not yet documented

Explanation

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Severity

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HHC02502E

HHC02502E is not yet documented

Explanation

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Severity

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HHC02503E

HHC02503E is not yet documented

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HHC02504E

HHC02504E is not yet documented

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HHC02505E

HHC02505E is not yet documented

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HHC02506E

HHC02506E is not yet documented

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HHC02507E

HHC02507E is not yet documented

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HHC02508E

HHC02508E is not yet documented

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HHC02509E

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HHC02510E

HHC02510E is not yet documented

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HHC02511E

HHC02511E is not yet documented

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HHC02512E

HHC02512E is not yet documented

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HHC02519E

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HHC02520I

HHC02520I is not yet documented

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HHC02521I

HHC02521I is not yet documented

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HHC02531E

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HHC02591I

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HHC02592I

HHC02592I is not yet documented

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HHC02593E

HHC02593E is not yet documented

Explanation

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Severity

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Action

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32. Messages HHC02600s – HHC02699s (Various Utilities)

HHC02600I

HHC02600I is not yet documented

Explanation

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Severity

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Action

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HHC02601I

HHC02601I is not yet documented

Explanation

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Severity

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HHC02602E

HHC02602E is not yet documented

Explanation

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Severity

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HHC02603E

HHC02603E is not yet documented

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HHC02604E

HHC02604E is not yet documented

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HHC02605I

HHC02605I is not yet documented

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HHC02606I

HHC02606I is not yet documented

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Severity

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HHC02607I

HHC02607I is not yet documented

Explanation

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Severity

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HHC02608I

HHC02608I is not yet documented

Explanation

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Severity

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Action

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33. Messages HHC02700s – HHC02799s (Tape Utilities)

HHC02700I

HHC02700I is not yet documented

Explanation

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Severity

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Action

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HHC02701E

HHC02701E is not yet documented

Explanation

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Severity

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HHC02702I

HHC02702I is not yet documented

Explanation

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Severity

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HHC02703E

HHC02703E is not yet documented

Explanation

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Severity

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HHC02704I

HHC02704I is not yet documented

Explanation

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Severity

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HHC02705E

HHC02705E is not yet documented

Explanation

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Severity

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HHC02706I

HHC02706I is not yet documented

Explanation

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Severity

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HHC02707E

HHC02707E is not yet documented

Explanation

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Severity

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HHC02708E

HHC02708E is not yet documented

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HHC02709E

HHC02709E is not yet documented

Explanation

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Severity

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HHC02710E

HHC02710E is not yet documented

Explanation

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HHC02711E

HHC02711E is not yet documented

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HHC02712E

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HHC02715E

HHC02715E is not yet documented

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HHC02716E

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HHC02717E

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HHC02718I

HHC02718I is not yet documented

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HHC02719I

HHC02719I is not yet documented

Explanation

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Severity

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HHC02720E

HHC02720E is not yet documented

Explanation

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HHC02721I

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HHC02726I

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HHC02728I

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HHC02740I

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HHC02741E

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HHC02742E

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HHC02744I

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HHC02745I

HHC02745I is not yet documented

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HHC02750E

HHC02750E is not yet documented

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HHC02751I

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HHC02756E

HHC02756E is not yet documented

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Severity

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HHC02757I

HHC02757I is not yet documented

Explanation

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Severity

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34. Messages HHC02800s – HHC02899s (Tape Utilities)

HHC02800I

HHC02800I is not yet documented

Explanation

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Severity

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Action

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HHC02801E

HHC02801E is not yet documented

Explanation

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Severity

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HHC02802I

HHC02802I is not yet documented

Explanation

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Severity

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HHC02803I

HHC02803I is not yet documented

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Severity

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HHC02804E

HHC02804E is not yet documented

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Severity

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HHC02805I

HHC02805I is not yet documented

Explanation

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Severity

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HHC02806I

HHC02806I is not yet documented

Explanation

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Severity

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35. Messages HHC03900s – HHC03999s (PTP Adapter Emulation)

HHC03901E

HHC03901E is not yet documented

Explanation

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Severity

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Action

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HHC03902E

HHC03902E is not yet documented

Explanation

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Severity

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HHC03903I

HHC03903I is not yet documented

Explanation

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Severity

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HHC03904I

HHC03904I is not yet documented

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HHC03905I

HHC03905I is not yet documented

Explanation

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Severity

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HHC03906I

HHC03906I is not yet documented

Explanation

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Severity

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Action

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HHC03907I

HHC03907I is not yet documented

Explanation

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Severity

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Action

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HHC03908I

HHC03908I is not yet documented

Explanation

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Severity

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Action

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HHC03909I

HHC03909I is not yet documented

Explanation

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Severity

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Action

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HHC03910I

HHC03910I is not yet documented

Explanation

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Severity

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Action

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HHC03911I

HHC03911I is not yet documented

Explanation

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Severity

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HHC03912E

HHC03912E is not yet documented

Explanation

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Severity

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HHC03913W

HHC03913W is not yet documented

Explanation

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Severity

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HHC03914W

HHC03914W is not yet documented

Explanation

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Severity

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HHC03915I

HHC03915I is not yet documented

Explanation

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Severity

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HHC03916I

HHC03916I is not yet documented

Explanation

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Severity

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HHC03917W

HHC03917W is not yet documented

Explanation

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Severity

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HHC03918W

HHC03918W is not yet documented

Explanation

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Severity

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HHC03921W

HHC03921W is not yet documented

Explanation

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Severity

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HHC03922W

HHC03922W is not yet documented

Explanation

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Severity

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HHC03923W

HHC03923W is not yet documented

Explanation

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Severity

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HHC03924W

HHC03924W is not yet documented

Explanation

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Severity

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HHC03931W

HHC03931W is not yet documented

Explanation

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Severity

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HHC03932W

HHC03932W is not yet documented

Explanation

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Severity

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HHC03933W

HHC03933W is not yet documented

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HHC03934W

HHC03934W is not yet documented

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HHC03935W

HHC03935W is not yet documented

Explanation

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Severity

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HHC03936W

HHC03936W is not yet documented

Explanation

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Severity

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HHC03937W

HHC03937W is not yet documented

Explanation

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Severity

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HHC03952I

HHC03952I is not yet documented

Explanation

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Severity

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HHC03953I

HHC03953I is not yet documented

Explanation

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Severity

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HHC03954I

HHC03954I is not yet documented

Explanation

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Severity

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HHC03983I

HHC03983I is not yet documented

Explanation

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Severity

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HHC03984I

HHC03984I is not yet documented

Explanation

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Severity

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HHC03985E

HHC03985E is not yet documented

Explanation

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Severity

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Action

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HHC03991I

HHC03991I is not yet documented

Explanation

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Severity

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Action

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HHC03992D

HHC03992D is not yet documented

Explanation

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Severity

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Action

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HHC03993D

HHC03993D is not yet documented

Explanation

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Severity

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Action

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HHC03995D

HHC03995D is not yet documented

Explanation

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Severity

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Action

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36. Messages HHC04100s – HHC04199s (Windows Specific Components)

HHC04100I

HHC04100I is not yet documented

Explanation

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Severity

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Action

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HHC04101I

HHC04101I is not yet documented

Explanation

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Severity

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Action

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HHC04102E

HHC04102E is not yet documented

Explanation

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Severity

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Action

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HHC04110W

HHC04110W is not yet documented

Explanation

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Severity

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Action

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HHC04111E

HHC04111E is not yet documented

Explanation

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Severity

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Action

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HHC04112S

HHC04112S is not yet documented

Explanation

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Severity

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Action

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37. Messages HHC17000s – HHC17099s (Query Commands)

HHC17000E

HHC17000E is not yet documented

Explanation

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Severity

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Action

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HHC17001I

HHC17001I is not yet documented

Explanation

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Severity

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HHC17002I

HHC17002I is not yet documented

Explanation

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Severity

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HHC17003I

HHC17003I is not yet documented

Explanation

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Severity

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HHC17004I

HHC17004I is not yet documented

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Severity

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HHC17005I

HHC17005I is not yet documented

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Severity

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HHC17007I

HHC17007I is not yet documented

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Severity

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HHC17008I

HHC17008I is not yet documented

Explanation

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Severity

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HHC17009I

HHC17009I is not yet documented

Explanation

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Severity

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HHC17010I

HHC17010I is not yet documented

Explanation

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Severity

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HHC17011I

HHC17011I is not yet documented

Explanation

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Severity

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HHC17012I

HHC17012I is not yet documented

Explanation

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Severity

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Action

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HHC17013I

HHC17013I is not yet documented

Explanation

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Severity

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Action

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38. Messages HHC17500s – HHC17599s (REXX Support)

HHC17500I

HHC17500I is not yet documented

Explanation

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Severity

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Action

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HHC17501I

HHC17501I is not yet documented

Explanation

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Severity

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Action

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HHC17502E

HHC17502E is not yet documented

Explanation

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Severity

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HHC17503E

HHC17503E is not yet documented

Explanation

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Severity

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HHC17504E

HHC17504E is not yet documented

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Severity

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HHC17505E

HHC17505E is not yet documented

Explanation

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Severity

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HHC17506E

HHC17506E is not yet documented

Explanation

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Severity

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HHC17507W

HHC17507W is not yet documented

Explanation

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Severity

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HHC17508W

HHC17508W is not yet documented

Explanation

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Severity

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HHC17509W

HHC17509W is not yet documented

Explanation

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Severity

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HHC17510W

HHC17510W is not yet documented

Explanation

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Severity

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HHC17521I

HHC17521I is not yet documented

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Severity

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HHC17522I

HHC17522I is not yet documented

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Severity

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HHC17523I

HHC17523I is not yet documented

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HHC17524I

HHC17524I is not yet documented

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HHC17525I

HHC17525I is not yet documented

Explanation

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Severity

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HHC17526I

HHC17521I is not yet documented

Explanation

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Severity

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HHC17527I

HHC17527I is not yet documented

Explanation

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Severity

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Action

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HHC17530E

HHC17530E is not yet documented

Explanation

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Severity

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HHC17531E

HHC17531E is not yet documented

Explanation

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Severity

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HHC17532E

HHC17532E is not yet documented

Explanation

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Severity

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HHC17533E

HHC17533E is not yet documented

Explanation

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Severity

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Action

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HHC17534E

HHC17534E is not yet documented

Explanation

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Severity

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Action

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39. Messages HHC90000s – HHC90099s (Debug Messages PTTRACE)

HHC90000D

HHC90000D is not yet documented

Explanation

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Severity

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Action

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HHC90010E

HHC90010E is not yet documented

Explanation

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Severity

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Action

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HHC90011E

HHC90011E is not yet documented

Explanation

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Severity

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HHC90012I

HHC90012I is not yet documented

Explanation

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Severity

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HHC90013E

HHC90012I is not yet documented

Explanation

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Severity

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HHC90014I

HHC90012I is not yet documented

Explanation

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Severity

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HHC90015E

HHC90012I is not yet documented

Explanation

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Severity

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HHC90016E

HHC90012I is not yet documented

Explanation

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Severity

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HHC90017I

HHC90012I is not yet documented

Explanation

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Severity

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Action

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HHC90018I

HHC90012I is not yet documented

Explanation

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Severity

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Action

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HHC90019W

HHC90012I is not yet documented

Explanation

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Severity

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Action

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40. Messages HHC90100s – HHC90199s (Debug Messages DYNCRYPT)

HHC90100D

HHC90100D is not yet documented

Explanation

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Severity

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Action

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HHC90101D

HHC90101D is not yet documented

Explanation

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Severity

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Action

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HHC90102D

HHC90102D is not yet documented

Explanation

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Severity

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HHC90103D

HHC90103D is not yet documented

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HHC90104D

HHC90104D is not yet documented

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Severity

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HHC90105D

HHC90105D is not yet documented

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Severity

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HHC90106D

HHC90106D is not yet documented

Explanation

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Severity

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HHC90107D

HHC90107D is not yet documented

Explanation

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Severity

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HHC90108D

HHC90108D is not yet documented

Explanation

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Severity

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HHC90109D

HHC90109D is not yet documented

Explanation

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Severity

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HHC90110D

HHC90110D is not yet documented

Explanation

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Severity

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HHC90111D

HHC90111D is not yet documented

Explanation

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Severity

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Action

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HHC90112D

HHC90112D is not yet documented

Explanation

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Severity

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Action

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HHC90190D

HHC90190D is not yet documented

Explanation

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Severity

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Action

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41. Messages HHC90200s – HHC90299s (Debug Messages SCSITAPE)

HHC90205D

HHC90205D is not yet documented

Explanation

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Severity

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Action

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42. Messages HHC90300s – HHC90399s (Debug Messages CMPSC)

HHC90300D

HHC90300D is not yet documented

Explanation

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Severity

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Action

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HHC90301D

HHC90301D is not yet documented

Explanation

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Severity

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Action

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HHC90302D

HHC90302D is not yet documented

Explanation

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Severity

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HHC90303D

HHC90303D is not yet documented

Explanation

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Severity

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HHC90304D

HHC90304D is not yet documented

Explanation

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HHC90305D

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HHC90306D

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Explanation

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Severity

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HHC90307D

HHC90307D is not yet documented

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HHC90308D

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HHC90309D

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HHC90364D

HHC90364D is not yet documented

Explanation

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Severity

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Action

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Part II: Old Messages

43. Messages HHCAOnnns - Hercules Automatic Operator

HHCAOnnns

Messages HHCAOnnns are not yet documented.

44. Messages HHCCAnnns - Communication Adapter Emulation

HHCCA001I

HHCCA001I *CCUU***:Connect out to** *ipaddr:port* **failed during initial status :** *System Cause Text*

Explanation
Hercules attempted to make an outgoing TCP connection to *ipaddr:port* but the system indicated that there was an error while processing the request.

System Action
The DIAL or ENABLE CCW that caused the connection attempt ends with Unit Check and Intervention Required. The reason for the failure is indicated in the *System Cause Text* field

Operator Action
None. This is an informational message.

Programmer Action
Correct the RHOST/RPORT configuration statements in the configuration file. If this message occured during a program initiated DIAL, correct the dial data.

HHCCA002I

HHCCA002I *CCUU***:Line Communication thread** *thread id* **started**

Explanation
The thread responsible for asynchronous operations for the BSC emulated line *CCUU* has been started.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA003E

HHCCA003E *CCUU***:Cannot obtain socket for incoming calls :** *System Cause Text*

Explanation
A system error occured while attempting to create a socket to listen for incoming calls.

System Action
The device creation is aborted.

Operator Action
None.

Programmer Action
Check the *System Cause Text* for any information relating to the host system. Notify support.

HHCCA004W

HHCCA004W *CCUU*:**Waiting 5 seconds for port** *port* **to become available**

Explanation
While attempting to reserve port *port* to listen to, the system indicated the port was already being used.

System Action
The system waits 5 seconds and then retries the operation.

Operator Action
Terminate the device if the port is in error.

Programmer Action
Determine the program holding the specified port. If the port cannot be made available, use a different port.

HHCCA005I

HHCCA005I *CCUU*:**Listening on port** *port* **for incoming TCP connections**

Explanation
The system is now listening on port *port* for incoming a tcp connection.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA006T

HHCCA006T *CCUU*:**Select failed :** *System Cause Text*

Explanation
An error occured during a 'select' system call.

System Action
The BSC thread is terminated.

Operator Action
None.

Programmer Action
Check the *System Cause Text* for any indication of where the error might come from. Notify Support.

HHCCA007W

HHCCA007W *CCUU***:Outgoing call failed during** *ENABLE|DIAL* **command :** *System Cause Text*

Explanation
The system reported that a previously initiated TCP connection could not be completed.

System Action
The I/O operation responsible for the TCP outgoing connection is ended with Unit Check and Intervention Required.

Operator Action
If the error indicates that the error is temporary, retry the operation.

Programmer Action
Check that the destination for this line is correctly configured. If the operation was a DIAL attempt, check in the application configuration or operation data.

HHCCA008I

HHCCA008I *CCUU***:cthread - Incoming Call**

Explanation
The BSC thread has received an incoming call.

System Action
Depending on configuration and operational status, the call is either accepted or rejected. Eventually an ongoing I/O operation may complete.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA009I

HHCCA009I *CCUU***:BSC utility thread terminated**

Explanation
The BSC thread has ended.

System Action
The system continues.

Operator Action
Refer to any previous error message to determine if this message was not unexpected.

Programmer Action
Refer to any previous error message to determine if this message was not unexpected.

HHCCA010I

HHCCA010I *CCUU***:initialization not performed**

Explanation
The Device initialization process has failed.

System Action
The system terminates or continues, depending on the reason for which the device was initialization was initiated.

Operator Action
Refer to any previous error message.

Programmer Action
Refer to any previous error message.

HHCCA011E

HHCCA011E *CCUU***:Error parsing** *Keyword*

Explanation
The device keyword parser found an error while parsing a known keyword.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA012E

HHCCA012E *CCUU***:Unrecognized parameter** *Keyword*

Explanation
The device keyword parser found an unknown keyword in the device parameter list.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA013E

HHCCA013E *CCUU:***Incorrect** *local port|remote port|local host|remote host* **specification** *value*

Explanation
The device initialization routine could not correctly parse a parameter value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA014E

HHCCA014E *CCUU:***Incorrect switched/dial specification** *value***; defaulting to DIAL=OUT**

Explanation
The device initialization routine found an incorrect DIAL value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

HHCCA015E

HHCCA015E *CCUU:***Missing parameter : DIAL=***NO|IN|OUT|INOUT* **and**
LPORT|RPORT|LHOST|RHOST **not specified**

Explanation
The device initialization routine found that a mandatory parameter was not provided for a specific DIAL Value.

System Action
The system continues. The device initialization routine turns on a NOGO flag.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

Note
For DIAL=NO , LPORT, RPORT and RHOST are needed
For DIAL=IN , LPORT is required

For DIAL=OUT None of LPORT,LHOST,RPORT,RHOST are required
For DIAL=INOUT, LPORT is required

HHCCA016W

HHCCA016W *CCUU*:**Conflicting parameter : DIAL=***NO|IN|OUT|INOUT* **and**
LPORT|RPORT|LHOST|RHOST=value* **specified**

Explanation
The device initialization routine found that a parameter was provided for a parameter that is not relevant
for a specific DIAL value.

System Action
The parameter is ignored. The system continues.

Operator Action
For a runtime initialization, correct the device initialization parameters, otherwise notify the programmer.

Programmer Action
For an engine initialization, correct the device configuration parameters in the configuration file.

Note
For DIAL=IN , RPORT and RHOST are ignored
For DIAL=OUT , LPORT, LHOST, RPORT and RHOST are ignored
For DIAL=INOUT, RPORT and RHOST are ignored

HHCCA017I

HHCCA017I *CCUU*:*LPORT|RPORT|LHOST|RHOST* **parameter ignored**

Explanation
The system indicates that the parameter specified is ignored. This message is preceeded by message
HHCCA016W.

System Action
The system continues.

Operator Action
None. This is an informational message.

Programmer Action
None. This is an informational message.

HHCCA018E

HHCCA018E *CCUU*:**Bind failed :** *System Cause Text*

Explanation
While attempting to bind a socket to a specific host/port, the host system returned an uncorrectable error.

System Action
BSC Thread terminates.

Operator Action
None.

Programmer Action
Check that the LHOST parameter for this device is indeed a local IP address, otherwise notify support.

HHCCA019E

HHCCA019E *CCUU***:BSC comm thread did not initialise**

Explanation
The BSC communication thread reported that it terminated while the device was initialising.

System Action
The device is not initialised.

Operator Action
Check for any previously issued error message.

Programmer Action
Check for any previously issued error message.

HHCCA020E

HHCCA020E *CCUU***:Memory allocation failure for main control block**

Explanation
A memory allocation failure occurred, while attempting to reserve memory for the Communication Adapter control block.

System Action
The device is not initialised.

Operator Action
None.

Programmer Action
Contact support.

HHCCA021I

HHCCA021I *CCUU***:Initialization failed due to previous errors**

Explanation
The initialization process for device *CCUU* did not complete successfully.

System Action
The device is not initialised.

Operator Action
None.

Programmer Action
Refer to any previous error message.

HHCCA300D

HHCCA300D *Debug Message*

Explanation
This is a debug message. CCW Tracing has been turned on for this device and the Line Handler issues
debug messages to help diagnose interface, conformance and protocol issues.

System Action
The system continues.

Operator Action
If the debug messages are no longer necessary, turn off CCW tracing (panel command : 't-CCUU').

Programmer Action
None.

45. Messages HHCCFnnns - Configuration File Processing

HHCCF001S

HHCCF001S Error reading file *filename* line *lineno*: *error*

Explanation
An error was encountered reading the configuration file named *filename* at line number *lineno*. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCCF002S

HHCCF002S File *filename* line *lineno* is too long

Explanation
The line at line number *lineno* in the configuration file *filename* is too long and cannot be processed.

Action
Correct the line and restart Hercules.

HHCCF003S

HHCCF003S Cannot open file *filename*: *error*

Explanation
The configuration file named *filename* could not be opened. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCCF004S

HHCCF004S No device records in file *filename*

Explanation
The configuration file named *filename* does not contain any device definition records. Without these, Hercules cannot do any meaningful work.

Action
Specify one or more device definitions in the configuration file and restart Hercules.

HHCCF005S

HHCCF005S Unrecognized argument *argument*

Explanation
An invalid argument, *argument*, was specified on the HTTPPORT configuration statement in the file named *filename* at line number *lineno*. Only the arguments auth and noauth are valid.

Action
Correct the invalid argument and restart Hercules.

HHCCF006S

HHCCF006S Error in *filename* line *lineno*: Userid, but no password given *userid*

Explanation
A userid, *userid*, was specified on the HTTPPORT configuration statement in the file named *filename* at line number *lineno*, but no password was provided. A password is required if a userid is present.

Action
Either remove the userid, or specify a password, and restart Hercules.

HHCCF007S

HHCCF007S Error in *filename* line *lineno*: Missing argument

Explanation
The HTTPROOT configuration statement was specified in the file named *filename* at line number *lineno*, but no directory was specified. A directory is required.

Action
Specify the directory where the Hercules web server will find its HTML files and restart Hercules.

HHCCF008E

HHCCF008E Error in *filename* line *lineno*: Unrecognized keyword *keyword*

Explanation
An invalid configuration statement was specified in the file named *filename* at line number *lineno*. The invalid keyword was *keyword*.

Action
Correct the invalid statement and restart Hercules.

HHCCF009S

HHCCF009S Error in *filename* line *lineno*: Incorrect number of operands

Explanation
The configuration statement at line *lineno* of the file named *filename* had an invalid number of operands.
For all but the HTTPPORT statement exactly one operand is required.

Action
Correct the invalid statement and restart Hercules.

HHCCF010S

HHCCF010S Error in *filename* line *lineno*: Unknown or unsupported ARCHMODE specification *mode*

Explanation
The ARCHMODE configuration statement at line *lineno* of the file named *filename* specified an invalid
architecture. Only S/370, ESA/390, or ESAME are valid. If one of these was specified, then support for
that architecture was excluded when the copy of Hercules in use was compiled.

Action
Correct the specified value and restart Hercules. If the message was issued because support for the
desired architecture was excluded, then recompile Hercules.

HHCCF011S

HHCCF011S Error in *filename* line *lineno*: *serialno* is not a valid serial number

Explanation
The serial number *serialno* specified on the CPUSERIAL configuration statement at line number *lineno* of
the file named *filename* must be exactly six digits long and must be a valid hexadecimal number.

Action
Correct the serial number and restart Hercules.

HHCCF012S

HHCCF012S Error in *filename* line *lineno*: *modelno* is not a valid CPU model

Explanation
The model number *modelno* specified on the CPUMODEL configuration statement at line number *lineno*
of the file named *filename* must be exactly four digits long, and must be a valid hexadecimal number.

Action
Correct the model number and restart Hercules.

HHCCF013S

HHCCF013S Error in *filename* **line** *lineno***: Invalid main storage size** *size*

Explanation
The main storage size *size* specified on the MAINSIZE configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number whose value is at least 2. For 32-bit platforms the value must not exceed 4095.

Action
Correct the main storage size and restart Hercules.

HHCCF014S

HHCCF014S Error in *filename* **line** *lineno***: Invalid expanded storage size** *size*

Explanation
The expanded storage size *size* specified on the XPNDSIZE configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number between 0 and 16777215.

Action
Correct the expanded storage size and restart Hercules.

HHCCF015S

HHCCF015S Error in *filename* **line** *lineno***: Invalid console port number** *port*

Explanation
The console port number *port* specified on the CNSLPORT configuration statement at line number *lineno* of the file named *filename* must be a valid nonzero decimal number.

Action
Correct the console port number and restart Hercules.

HHCCF016S

HHCCF016S Error in *filename* **line** *lineno***: Invalid** *threadname* **thread priority** *priority*

Explanation
The thread priority *priority* specified on the *xxx*PRIO configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number.

Action
Correct the priority on the statement and restart Hercules.

HHCCF017W

HHCCF017W Hercules is not running as setuid root, cannot raise *threadname* priority

Explanation
A negative value for the *threadname* thread priority parameter *xxx*PRIO was specified but Hercules is not running as the root user (either directly or via the setuid mechanism). This parameter value would cause the priority of the CPU execution thread to be raised above the normal level if Hercules were running as root. Since it is not, however, the parameter will have no effect.

Action
Either specify a positive value to lower the CPU thread priority, zero to not alter the priority, or omit the statement entirely to use the Hercules default CPU thread priority of 15.

HHCCF018S

HHCCF018S Error in *filename* line *lineno*: Invalid number of CPUs *number*

Explanation
The number of emulated CPUs *number* specified on the NUMCPU configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2; this number is never more than 2 for S/370 mode, or 16 for ESA/390 or ESAME mode).

Action
Correct the number of emulated CPUs and restart Hercules.

HHCCF019S

HHCCF019S Error in *filename* line *lineno*: Invalid number of VFs *number*

Explanation
The number of emulated Vector Facility engines *number* specified on the NUMVEC configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number between 1 and the maximum number defined when Hercules was built (usually 2).

Action
Correct the number of emulated Vector Facility engines and restart Hercules.

HHCCF020W

HHCCF020W Vector Facility support not configured

Explanation
A request for Vector Facility support was made by the NUMVEC configuration statement, but Hercules was built without the Vector Facility code. The request has been ignored.

Action

If Vector Facility support is desired, recompile Hercules. If not, remove the NUMVEC configuration statement.

HHCCF021S

HHCCF021S Error in *filename* line *lineno*: Invalid maximum number of CPUs *number*

Explanation

The maximum number of emulated CPUs *number* specified on the MAXCPU configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number. It must not exceed the maximum number (MAX_CPU_ENGINES) defined when Hercules was built.

Action

Correct the MAXCPU parameter and restart Hercules.

HHCCF022S

HHCCF022S Error in *filename* line *lineno*: *epoch* is not a valid system epoch

Explanation

The system epoch *epoch* specified on the SYSEPOCH configuration statement at line number *lineno* of the file named *filename* must be one of the following: 1900, 1928, 1960, 1988, or 1970.

Action

Correct the system epoch and restart Hercules. If a different epoch is desired, a change must be made to the Hercules source file config.c and Hercules rebuilt.

HHCCF023S

HHCCF023S Error in *filename* line *lineno*: *offset* is not a valid timezone offset

Explanation

The system timezone offset *offset* specified on the TZOFFSET configuration statement at line number *lineno* of the file named *filename* must be five characters long and a valid decimal number of the form (+|-)number, where number must be between zero and 2359 (representing 23 hours, 59 minutes).

Action

Correct the time zone offset and restart Hercules.

HHCCF024S

HHCCF024S Error in *filename* line *lineno*: Invalid TOD clock drag factor *drag*

Explanation

The TOD clock drag factor *drag* specified on the TODDRAG configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number between 1 and 10000.

Action

Correct the TOD clock drag factor and restart Hercules.

HHCCF025S

HHCCF025S Error in *filename* line *lineno*: Invalid panel refresh rate *rate*

Explanation
The control panel refresh rate *rate* specified on the PANRATE configuration statement at line number *lineno* of the file named *filename* must be either F, S, or a valid decimal number between 1 and 5000.

Action
Correct the control panel refresh rate and restart Hercules.

HHCCF026S

HHCCF026S Error in *filename* line *lineno*: Unknown OS tailor specification *tailor*

Explanation
The OS tailoring value *tailor* specified on the OSTAILOR configuration statement at line number *lineno* of the file named *filename* must be either OS/390, VSE, VM, LINUX, NULL, or QUIET.

Action
Correct the OS tailoring value and restart Hercules.

HHCCF027S

HHCCF027S Error in *filename* line *lineno*: Invalid maximum device threads *threads*

Explanation
The maximum device threads *threads* specified on the DEVTMAX configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number greater than -1.

Action
Correct the maximum device threads and restart Hercules.

HHCCF028S

HHCCF028S Invalid program product OS permission *permission*

Explanation
The program product OS permission *permission* specified on the PGMPRDOS configuration statement must be either LICENSED or RESTRICTED. The alternative spelling LICENCED is also accepted.

Action
Correct the program product OS permission and restart Hercules.

HHCCF029S

HHCCF029S Invalid HTTP port number *port*

Explanation
The HTTP server port number `port` specified on the `HTTPPORT` configuration statement must be either 80, or a valid decimal number greater than 1024.

Action
Correct the HTTP server port number and restart Hercules.

HHCCF030S

HHCCF030S Error in *filename* **line** *lineno***: Invalid I/O delay value** *delay*

Explanation
The I/O delay value *delay* specified on the IODELAY configuration statement at line number *lineno* of the file named *filename* must be a valid decimal number.

Action
Correct the I/O delay value and restart Hercules.

HHCCF031S

HHCCF031S Cannot obtain *size***MB main storage:** *error*

Explanation
An attempt to obtain the amount of main storage specified by MAINSTOR failed for the reason described by *error*.

Action
Correct the error and restart Hercules.

HHCCF032S

HHCCF032S Cannot obtain storage key array: *error*

Explanation
An attempt to obtain storage for the array of storage keys failed for the reason described by *error*.

Action
Correct the error and restart Hercules.

HHCCF033S

HHCCF033S Cannot obtain *size*MB expanded storage: *error*

Explanation
An attempt to obtain the amount of expanded storage specified by XPNDSTOR failed for the reason
described by *error*.

Action
Correct the error and restart Hercules.

HHCCF034W

HHCCF034W Expanded storage support not installed

Explanation
A request was made for expanded storage by the XPNDSTOR configuration parameter, but Hercules was
built without expanded storage support. The request was ignored.

Action
Either remove the XPNDSTOR configuration parameter or recompile Hercules with expanded storage
support included.

HHCCF035S

HHCCF035S Error in *filename* line *lineno*: Missing device number or device type

Explanation
The I/O device definition statement at line number *lineno* of the file named *filename* did not contain a
device number or a device type.

Action
Supply the missing value and restart Hercules.

HHCCF036S

HHCCF036S Error in *filename* line *lineno*: *number* is not a valid device number(s) specification

Explanation
The I/O device definition statement at line number *lineno* of the file named *filename* specified an invalid
device number *number*. The device number must be one to four hexadecimal digits.

Action
Correct the device number and restart Hercules.

HHCCF037S

HHCCF037S Message pipe creation failed: *error*

Explanation
An attempt to create a pipe for communication with the control panel failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCCF038S

HHCCF038S Message pipe open failed: *error*

Explanation
An attempt to open the pipe for communication with the control panel failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCCF039W

HHCCF039W PGMPRDOS LICENSED specified. A licensed program product operating systems is running. You are responsible for meeting all conditions of your software license.

Explanation
The configuration parameter PGMPRDOS LICENSED was specified and Hercules has detected that the operating system is a licensed program product. This message is issued to remind you that compliance with the terms of the license for your system's software is your responsibility.

Action
Be sure you know what you are doing.

HHCCF040E

HHCCF040E Cannot create CPU *number* **thread:** *error*

Explanation
An attempt to create a new thread for execution of CPU *number* failed. The error is described by *error*. The CPU has not been added to the configuration.

Action
Correct the error and retry the operation.

HHCCF041E

HHCCF041E Device *address* already exists

Explanation
An attempt was made to define a device at address *address*. There is already a device at that address.

Action
Either choose another device address or use the detach command to remove the existing device.

HHCCF042E

HHCCF042E Device type *type* not recognized

Explanation
An attempt was made to define a device of type *type*. This device type is not supported by Hercules. It may also indicate that the system was unable to load the device handler for the specified device type.

Action
Specify a supported device type. If the device type is supported, make sure the the system can load the load modules necessary for device operations. Either use the LD_LIBRARY_PATH environment variable or use ldconfig(8) to customize the library search path.

HHCCF043E

HHCCF043E Cannot obtain device block for device *address*: *error*

Explanation
An attempt to allocate memory for the control block describing the device with address *address* failed. The error is described by *error*. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF044E

HHCCF044E Initialization failed for device *address*

Explanation
The device at address *address* could not be initialized. The device initialization routine has issued a message describing the problem in further detail; refer to that message for more information.

Action
Correct the error and retry the operation.

HHCCF045E

HHCCF045E Cannot obtain buffer for device *address*: *error*

Explanation
An attempt to allocate memory for the data buffer for the device with address *address* failed. The error is described by *error*. The device has not been defined.

Action
Correct the error and retry the operation.

HHCCF046E

HHCCF046E Device *address* does not exist

Explanation
An attempt was made to remove a device at address *address*. There is no device at that address.

Action
Choose another device address to remove, if desired.

HHCCF047I

HHCCF047I Device *address* detached

Explanation
The device at address *address* has been successfully removed from the system.

Action
None. This is an informational message.

HHCCF048E

HHCCF048E Device *address* does not exist

Explanation
An attempt was made to rename a device at address *address*. There is no device at that address.

Action
Choose another device address to rename, if desired.

HHCCF049E

HHCCF049E Device *address* already exists

Explanation
An attempt was made to rename a device to address *address*. There is already a device at that address.

Action

Either choose another device address or use the detach command to remove the existing device.

HHCCF050I

HHCCF050I Device *oldaddr* defined as *newaddr*

Explanation

The device which was previously defined with the address *oldaddr* has been changed to the address *newaddr*.

Action

None. This is an informational message.

HHCCF051S

HHCCF051S Error in *filename* line *lineno*: *verid* is not a valid CPU version code

Explanation

The version code *verid* specified on the CPUVERID configuration statement at line number *lineno* of the file named *filename* must be exactly two digits long and must be a valid hexadecimal number.

Action

Correct the model number and restart Hercules.

HHCCF052S

HHCCF052S DIAG8CMD invalid option: *option*

Explanation

The argument *option* on the DIAG8CMD is invalid. Valid options are *enable*, *disable*, *echo,* and *noecho*.

Action

Correct the statement and restart Hercules.

HHCCF053E

HHCCF053E Incorrect second device number in device range near character *c*

Explanation

The second argument of a device range contains an incorrect device number

Action

Correct the statement and restart Hercules.

HHCCF054E

HHCCF054E Incorrect Device count near character *c*

Explanation
The count field in a device count specification is invalid

Action
Correct the statement and restart Hercules.

HHCCF055E

HHCCF055E Incorrect device address specification near character *c*

Explanation
The first or only CUU in a device specification statement is invalid

Action
Correct the statement and restart Hercules.

HHCCF056E

HHCCF056E Incorrect device address range. *CUU1>CUU2*

Explanation
The first device number of a range is greater than the last device number

Action
Correct the statement and restart Hercules.

HHCCF057E

HHCCF057E *CUU* is on wrong channel (1st device defined on channel *CC*)

Explanation
At least one of the devices in a device number specification is on a different channel than a previously defined device number within the same specification. All device numbers on a single configuration line must be on a single channel (Group of 256 devices)

Action
Correct the statement and restart Hercules.

HHCCF058E

HHCCF058E Some or all devices in *CUU-CUU* duplicate devices already defined

Explanation
At least one of the device numbers on a device specification statement defines a device number that is already specified on that same statement.

Action

Correct the statement and restart Hercules.

HHCCF061W

HHCCF061W ECPS:VM Statement deprecated. Use ECPSVM instead

Explanation

The "ECPS:VM" statement was encountered. This statement is deprecated in favor of the "ECPSVM" statement.

Action

The configuration statement is still carried out but the statement syntax should be changed as soon as possible.

HHCCF062W

HHCCF062W Missing ECPSVM level value. 20 Assumed

Explanation

The "ECPSVM" statement keyword "LEVEL" was encountered but no numeric level followed it.

Action

The default level of 20 is used and the ECPS:VM feature is made available. The statement should be corrected as soon as possible.

HHCCF063W

HHCCF063W Specifying ECPSVM level directly is deprecated. Use the 'LEVEL' keyword instead

Explanation

The deprecated "ECPSVM" level syntax form (without the LEVEL keyword) was found.

Action

The ECPS:VM Level is set to the specified value. The configuration statement should be updated to include the "LEVEL" keyword.

HHCCF064W

HHCCF064W Hercules set priority *priority* failed: *error*

Explanation

An attempt to change the priority of the Hercules process to *priority* failed. The error is described by *error*. The process priority has not been changed. Hercules overall performance may be impaired as a result.

Action

If performance problems are noted, correct the error and restart Hercules.

HHCCF065I

HHCCF065I Hercules: tid=*threadid*, pid=*processid*, pgid=*processgroupid*, priority=*priority*

Explanation
Hercules thread id is *threadid*, its process id is *processid*, its process group id is *processgroupid* and its execution priority is *priority*.

Action
None. This is an informational message.

HHCCF066E

HHCCF066E Invalid HTTPROOT: *error*

Explanation
The pathname specified on your HTTPROOT statement is invalid. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCCF067S

HHCCF067S Incorrect keyword *keyword* for the ASN_AND_LX_REUSE statement

Explanation
The keyword specified for the ASN_AND_LX_REUSE statement is not *ENABLE* or *DISABLE*.

Action
Correct the error and restart Hercules.

HHCCF068E

HHCCF068E Invalid value: *value*; Enter "help scsimount" for help.

Explanation
The automatic SCSI tape mount value is not "NO" nor a value between 1 and 99 seconds inclusive.

Action
Reissue the SCSIMOUNT command.

HHCCF069I

HHCCF069I Run-options enabled for this run:
NUMCPU: n
ASN-and-LX-reuse: Enabled/Disabled
DIAG8CMD: Enabled/Disabled

Explanation
This message confirms the setting of various run-time options specified in the configuration file at startup time.

Action
None. This is an informational message.

HHCCF074E

HHCCF074E Unspecified error occured while parsing Logical Channel Subsystem Identification

Explanation
A logic error occured while parsing the Logical Channel Subsystem Identification component of a device number or device number group.

Action
Notify Hercules support. This is an error in the Hercules parsing routines.

HHCCF075E

HHCCF075E No more than 1 Logical Channel Subsystem Identification may be specified

Explanation
While specifying a device number or device number group, more than one ':' character was encountered while parsing the Logical Channel Subsystem Identification component. There can be only one Logical Channel Subsystem Identification for a device or group of devices.

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occured while issuing a command or while starting the engine.

HHCCF076E

HHCCF076E Non numeric Logical Channel Subsystem Identification *XX*

Explanation
While specifying a device number or device number group, a non-decimal value was encountered while parsing the Logical Channel Subsystem Identification component. The Logical Channel Subsystem Identification for a device or group of devices must be specified as a numeric value.

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occured while issuing a command or while starting the engine.

HHCCF077E

HHCCF077E Logical Channel Subsystem Identification *NN* exceeds maximum of 3

Explanation
While specifying a device number or device number group, a Logical Channel Identification was encountered that exceeded the architecture maximum value of *NN*. The Logical Channel Subsystem Identification for a device or group of devices must be within 0 and 3 (inclusive).

Action
Correct the device number or device number group specification and either reissue the command or restart the Hercules engine, depending on whether the error occured while issuing a command or while starting the engine.

HHCCF079A

HHCCF079A A licensed program product operating system has been detected. All processors have been stopped.

Explanation
Hercules has detected that the operating system is a licensed program product, but the PGMPRDOS LICENSED parameter was not specified in the Hercules configuration file.

Action
Hercules enters the stopped state. To run this operating system you must obtain a license from the operating system supplier and specify the PGMPRDOS LICENSED parameter in the configuration file. If you are unable to obtain a valid license allowing you to run this operating system on your machine, you must use another operating system (such as MVS 3.8J or Linux for System z) which does not require a license.

HHCCF081I

HHCCF081I *fname* will ignore include errors.

Explanation
An ignore include_errors statement was encountered in file *fname* requesting that any include statements subsequently found within file *fname* which happen to reference include files which do not exist should simply cause a HHCCF084W warning instead of a HHCCF085S fatal error.

Action
Processing continues. This is an informational-only message.

HHCCF082S

HHCCF082S Error in *fname* line *nnn*: Maximum nesting level (*nn*) reached

Explanation
The maximum number of nested include statements has been exceeded. The include statement which caused the maximum nesting level of *nn* to be exceeded is identified as statement number *nnn* of file *fname*.
Action
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct the error and restart Hercules.

HHCCF083I

HHCCF083I *fname1* Including *fname2* at *nnn*.

Explanation
An include statement for file *fname2* was encountered on line *nnn* of file *fname1*.

Action
Configuration file processing switches immediately to processing the statements contained in file *fname2*. Once all of the ststements in file *fname2* have been completely processed, configuration file processing will then return to statement *nnn*+1 of file *fname1*. This is an informational-only message.

HHCCF084W

HHCCF084W *fname1* Open error ignored file *fname2*: error

Explanation
File *fname1* contained an include statement for file *fname2* which could not be opened because of error.

Action
Processing continues. This is a informational warning only. Check to make sure the filename specified by *fname2* was spelled correctly and restart Hercules if desired.

HHCCF085S

HHCCF085S *fname1* Open error file *fname2*: error

Explanation
File *fname1* contained an include statement for file *fname2* which could not be opened because of error.

Action
This is a fatal error. Configuration file processing is immediately terminated and Hercules startup is aborted. Correct any misspelling of filename *fname2* and restart Hercules.

HHCCF086S

HHCCF086S Error in *filename*: NUMCPU *nn* must not exceed MAXCPU *mm*

Explanation
The number of online CPUs *nn* specified in the NUMCPU configuration statement in the file named *filename* cannot exceed the maximum number of CPUs *mm* specified in the MAXCPU configuration statement.

Action
Either decrease the NUMCPU parameter, or increase the MAXCPU parameter, and restart Hercules.

HHCCF089S

HHCCF089S Error in *fname* line *linenum*: Invalid log option keyword *val*

Explanation
File *fname* containes an invalid log option keyword *val* on line *num*.

Action
Correct the log option keyword in file *fname* and restart Hercules.

46. Messages HHCCPnnns - CPU Emulation

HHCCP001W

HHCCP001W CPU thread set priority *priority* failed: *error*

Explanation
An attempt to change the priority of the CPU thread to *priority* failed. The error is described by *error*. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCCP002I

HHCCP002I CPU *number* thread started: tid=*threadid*, pid=*processid*, priority=*priority*

Explanation
The execution thread for CPU number *number* has been started. Its thread id is *threadid*, its process id is *processid* and its execution priority is *priority*.

Action
None. This is an informational message.

HHCCP003I

HHCCP003I CPU *number* architecture mode *mode*

Explanation
CPU *number* has been set to the *mode* architecture mode.

Action
None. This is an informational message.

If a different architecture mode is desired, it may be changed with the ARCHMODE configuration statement or the archmode control panel command.

HHCCP004I

HHCCP004I CPU *number* Vector Facility online

Explanation
The Vector Facility for CPU *number* is online and available for use.

Action
None. This is an informational message.

HHCCP005E

HHCCP005E CPU *number* thread already started

Explanation
An attempt was made to add CPU number *number* to the configuration. This CPU already exists.

Action
If another CPU is desired in the configuration, select a different number.

HHCCP006S

HHCCP006S Cannot create timer thread: *error*

Explanation
An attempt to create the thread used for timing functions has failed. The error is described by *error*. The CPU thread terminates and successful continuation of Hercules is not possible.

Action
Correct the error and restart Hercules.

HHCCP007I

HHCCP007I CPU *number* architecture mode set to *mode*

Explanation
CPU number *number* has been changed to the architecture mode *mode*.

Action
None. This is an informational message.

HHCCP008I

HHCCP008I CPU *number* thread ended: tid=*threadid*, pid=*processid*

Explanation
The execution thread for CPU number *number* has ended. Its thread id was *threadid*, and its process id was *processid*.

Action
None. This is an informational message.

HHCCP009E

HHCCP009E CPU MASK MISMATCH: *prevmask - currmask*. Last instruction: *instruction*.

Explanation
The CPU interrupt mask has changed unexpectedly. The previous mask was *prevmask* and the current mask is *currmask*. The last instruction executed was *instruction*. This is an internal error.

Action
Report this message and the circumstances to the Hercules developers.

HHCCP010I

HHCCP010I CPU *number* store status completed.

Explanation
CPU number *number* has completed a store status operation.

Action
None. This is an informational message.

HHCCP011I

HHCCP011I CPU *number*: Disabled wait state

Explanation
CPU number *number* has entered a disabled wait state. It will not execute any further instructions unless it is reset or restarted. This is usually done to report a severe error in execution of an operating system.

Action
Correct the error denoted by the wait state code if applicable.

HHCCP023I

HHCCP023I External interrupt: Interrupt key

Explanation
The CPU has taken an external interrupt because the operator pressed the interrupt key or issued the panel command `ext`.

Action
None. This is an informational message.

HHCCP024I

HHCCP024I External interrupt: Clock comparator

Explanation
The CPU has taken a clock comparator interrupt. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP025I

HHCCP025I External interrupt: CPU timer=*xx...xx*

Explanation
The CPU has taken a CPU timer interrupt. *xx...xx* is the hexadecimal value of the CPU timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP026I

HHCCP026I External interrupt: Interval timer

Explanation
The CPU has taken an external interrupt caused by the interval timer. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP027I

HHCCP027I External interrupt: Service signal *intparm*

Explanation
The CPU has taken a service signal external interrupt. *intparm* is the interrupt parameter. This message is issued only when the CPU is in single-stepping or instruction-tracing mode.

Action
None. This is an informational message. External interrupts are part of normal system operation.

HHCCP090W

HHCCP090W The configuration has been placed into a system check-stop state because of an incompatible service call

Explanation
A READ SCP INFO (code X'00020001') Service call has been issued from a CPU which is not a CP engine. All the CPUs in the configuration are put into a Check-Stop state.

Action
Ensure the CPU that issues the service call is a CP engine and restart the program.

47. Messages HHCCTnnns - Channel-to-Channel Adapter Emulation

HHCCTnnns

Messages HHCCTnnns are not yet documented.

48. Messages HHCCUnnns - CCKD Utilities

48.1 Format of the CCKD utilities messages

Messages generated by the CCKD utilities are in the format *message_id file message_text*. The format of the message ID is the same as with all other Hercules messages. *file* will either be the part of the file name following the last slash ("**/**" or "****") when called by a utility command, or will be *xxxx: file[n]* where *xxxx* is the device number and *n* is the shadow file number when called by Hercules.

The *file* portion of the message is omitted in the sections below for brevity.

HHCCU101I

HHCCU101I converting to *endian-format*

Explanation
The file is in the wrong endian (byte order) format for the host architecture. The file is being converted to the host endian format *endian-format*.

Action
None. This is an informational message.

HHCCU102I

HHCCU102I compress successful, *n* bytes released

Explanation
The compress function successfully completed and free *n* bytes from the file. If *n* is 0, then the level 2 tables were repositioned to the beginning of the file in order.

Action
None. This is an informational message.

HHCCU103I

HHCCU103I file already compressed

Explanation
The compress function determined that the file is already compressed. The file is not updated.

Action
None. This is an informational message.

HHCCU104I

HHCCU104I free space rebuilt

Explanation
Free space errors were detected and free space has been successfully rebuilt.

Action
None. This is an informational message.

HHCCU300I

HHCCU300I *number space* images recovered

Explanation
Recovery phase 1 completed, recovering *number spaces* (trks or blkgrps).

Action
None. This is an informational message.

HHCCU301I

HHCCU301I *space*[*id*] recovered offset *offset* len *length*

Explanation
The space *space* (trk or blkgrp) was recovered at offset *offset* and length *length*. *id* is the trk or blkgrp number.

Action
None. This is an informational message.

HHCCU500W

HHCCU500W recovery not completed, file opened read-only

Explanation
Phase 3 recovery did not complete because the file is not opened for write.

Action
Omit the *-ro* option for cckdcdsk or change the file permissions to enable the file to be opened for read-write for Hercules.

HHCCU501W

HHCCU501W recovery not completed, missing compression

Explanation
Phase 3 recovery did not complete because one or more trk or blkgrp images were compressed using a compression (zlib or bzip2) that was not built into Hercules.

Action
Processing terminates. The file has not been updated. Build Hercules with the missing compression libraries.

HHCCU502W

HHCCU502W free space not rebuilt, file opened read-only

Explanation
Free space errors were detected but the free space was not rebuilt because the file is not opened for write.

Action
Omit the *-ro* option for cckdcdsk or change the file permissions to enable the file to be opened for read-write by Hercules.

HHCCU600W

HHCCU600W forcing check level *level*[; *reason*]

Explanation
Errors have been detected in the compressed file that warrant the escalation of the check level to *level*. An additional explanation *reason* may be supplied.

Action
At a minimum, free space will be rebuilt.

HHCCU601W

HHCCU601W cdevhdr inconsistencies found code=*code*

Explanation
The space statistics in the cckddasd device header (cdevhdr) contain inconsistencies described by *code*. *code* is a 16-bit bit field and more than one bit may be on. See cckdutil.c for the different bit settings.

Action
At a minimum, free space will be rebuilt.

HHCCU602W

HHCCU602W *space* offset *offset* len *length* is out of bounds

Explanation
The space *space* (trk, blkgrp or l2) either precedes the end of the L1 table (at the beginning of the file) or exceeds the end of the file.

Action
The space will be recovered. If the space is an L2 table, then all tracks or block groups associated with the table will also be recovered.

HHCCU603W

HHCCU603W *space1* **offset** *offset1* **len** *length* **overlaps** *space2* **offset** *offset2*

Explanation
The space *space1* overlaps space *space2*.

Action
The spaces will be recovered. If either space is an L2 table, then all tracks or block groups associated with that table will also be recovered.

HHCCU604W

HHCCU604W *space* **l2 inconsistency: len** *length*, **size** *size*

Explanation
The space *space* (trk or blkgrp) has an inconsistent l2 entry. Either the length *length* is too small or is too large or exceeds the size *size.*

Action
The space will be recovered.

HHCCU610W

HHCCU610W free space errors detected

Explanation
Free space is not consistent.

Action
Free space will be rebuilt.

HHCCU620W

HHCCU620W *space*[*id*] **hdr error offset** *offset*: *xxxxxxxxxx*

Explanation
A header error was found for *space* (trk or blkgrp) during validation. *id* is the trk or blkgrp number. The header is located at file offset *offset*. The contents of the 5 byte header is *xxxxxxxxxx* in hex.

The first byte of the header should be either 00 (compress none), 01 (compress zlib) or 02 (compress bzip2).

For ckd, the next two bytes is the cylinder (in big-endian byte order) and the two bytes after that is the head (also in big-endian byte order).

For fba, the next four bytes is the block group number (in big-endian byte order).

The header contains an invalid value. Either the offset is incorrect or the header has been overlaid.

Action
The space will be recovered.

HHCCU621W

HHCCU621W *space*[*id*] **compressed using** *compression***, not supported**

Explanation
During validation, the header for *space* (trk or blkgrp) indicates that the space was compressed using *compression* (zlib or bzip2) but support for that compression method was not built into Hercules. *id* is the trk or blkgrp number.

Action
Processing continues. However no recovery will take place. Build Hercules with the specified compression library.

HHCCU622W

HHCCU622W *space*[*id*] **offset** *offset* **len** *length* **validation error**

Explanation
The *space* (trk or blkgrp) at offset *offset* and length *length* failed validation. *id* is the trk or blkgrp number. Either the space did not uncompress successfully or the uncompressed space contains some kind of error. This error is detected during check level 3 validation.

Action
The space will be recovered.

HHCCU700E

HHCCU700E open error: *error text*

Explanation
Open failed for the file. The text associated with the error number is displayed.

Action
Processing for the file terminates.

HHCCU701E

HHCCU701E fstat error: *error text*

Explanation
The file status system call failed. The text associated with the error number is displayed.

Action
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.

HHCCU702E

HHCCU702E lseek error offset *offset*: *error text*

Explanation
File reposition to offset *offset* failed. The text associated with the error number is displayed.

Action
Function processing terminates. Probable Hercules logic error. Contact the Hercules mailing list for assistance.

HHCCU703E

HHCCU703E read error rc=*retcode* **offset** *offset* **len** *length*: *error text*

Explanation
A read failed at offset *offset* for length *length*. If *retcode* is not negative then the read was incomplete and the value indicates how many bytes were read. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU704E

HHCCU704E write error rc=*retcode* **offset** *offset* **len** *length*: *error text*

Explanation
A write failed at offset *offset* for length *length*. If *retcode* is not negative then the write was incomplete and the value indicates how many bytes were written. Otherwise the text associated with the error number is displayed.

Action
Function processing terminates. Possible Hercules logic error. Possible hardware error. Contact the hercules mailing list for assistance.

HHCCU705E

HHCCU705E malloc error, size *size*: *error text*

Explanation
Malloc (allocate memory) failed for size *size*.

Action
Function processing terminates. Try reducing Hercules storage requirements (e.g. mainsize).

HHCCU706E

HHCCU706E calloc error, size *size*: *error text*

Explanation
Calloc (allocate cleared memory) failed for size *size*.

Action
Function processing terminates. Try reducing Hercules storage requirements (eg mainsize).

HHCCU707E

HHCCU707E OPENED bit is on, use -f

Explanation
The file OPENED bit is on in the cckd header but *-f* was not specified.

Action
File processing terminates. Make sure the file is not in use. If it is not, try the command again specifying the *-f* option.

HHCCU708E

HHCCU708E chkdsk errors

Explanation
The utility called cckd_chkdsk for the file and it returned in error.

Action
File processing terminates. Perform the actions suggested by the preceding cckd_chkdsk errors.

HHCCU900E

HHCCU900E dasd lookup error type=*type* cyls=*cyls*

Explanation
The device type *type* from the device header along with the number of cylinders *cyls* did not match a table entry in dasdtab.c. Note that *type* is the last two bytes of the device type (eg *90* for a *3390* device type).

Action
Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU901E

HHCCU901E bad trksize: *size1*, expecting *size2*

Explanation
The track size *size1* from the device header does match the track size *size2* from the table entry in dasdtab.c.

Action

Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU902E

HHCCU902E bad number of heads: *heads1*, **expecting** *heads2*

Explanation

The number of heads *heads1* from the device header does match the number of heads *heads2* from the table entry in dasdtab.c.

Action

Function processing terminates. Specify the correct file name or manually correct the device header.

HHCCU903E

HHCCU903E bad `numl1tab': *nbr1*, **expecting** *nbr2*

Explanation

The number of L1 table entries *nbr1* in the cckd device header does not match the number calculated *nbr2*. The number calculated is the number of cylinders times the number of heads (i.e. the number of tracks) divided by 256, rounded up by 1 if there is a remainder.

Action

Function processing terminates. Specify the correct file name or manually correct the device headers.

HHCCU904E

HHCCU904E file too small to contain L1 table: %*size1***, need** *size2*

Explanation

The size of the file *size1* is not large enough to contain all L1 table entries; the size required is *size2*. The minimum size of a cckd file is 512 **+** 512 **+** (4 * number of L1 entries).

Action

Function processing terminates. Specify the correct file name.

HHCCU905E

HHCCU905E not enough file space for recovery

Explanation

During phase 2 recovery there was not enough space in the maximum file size to contain the rebuilt L2 tables. This is an unusual situation and probably indicates some kind of programming error.

Action

Function processing terminates. The file has not been updated. Contact the hercules mailing list for assistance.

HHCCU910E

HHCCU910E error during swap

Explanation
Error occurred during cckd_swap().

Action
See the preceding error messages.

HHCCU999E

HHCCU999E not a compressed file

Explanation
The first 8 bytes of the file did not match an expected identifier. For a cckd file, the identifier must be either *CKD_C370* or *CKD_S370*. For a cfba file, the identifier must be either *FBA_C370* or *FBA_S370*.

Action
Function processing terminates. Specify the correct file name.

49. Messages HHCDAnnns - DASD Emulation (CKD, CCKD and FBA)

HHCDAnnns

Messages HHCDAnnns are not yet documented.

50. Messages HHCDCnnns - DASDCOPY Utility

HHCDC001E

HHCDC001E *progname*: *filename* **open error:** *error*

Explanation
An error was encountered when trying to open the input file named *filename* to determine its type. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDC002E

HHCDC002E *progname*: *filename* **read error:** *error*

Explanation
An error was encountered when trying to read the input file named *filename* to determine its type. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDC003E

HHCDC003E *progname*: *filename* **open failed**

Explanation
An error was encountered when trying to open the input file named *filename* for copying. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC004E

HHCDC004E *progname*: **ckd lookup failed for** *size* **cyls**

Explanation
There was no disk drive table entry that matched the number of cylinders in the CKD source file, *size*. The program cannot determine how much data to copy.

Action
Correct the error and retry the operation.

HHCDC005E

HHCDC005E *progname***: fba lookup failed, blks** *size*

Explanation
There was no disk drive table entry that matched the number of blocks in the FBA source file, *size*. The program cannot determine how much data to copy.

Action
Correct the error and retry the operation.

HHCDC006E

HHCDC006E *progname***:** *filename* **create failed**

Explanation
An error was encountered when trying to create the output file named *filename*. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC007E

HHCDC007E *progname***:** *filename* **open failed**

Explanation
An error was encountered when trying to open the newly created output file named *filename*. A previous message described the error.

Action
Correct the error and retry the operation.

HHCDC008E

HHCDC008E *progname***:** *filename* **read error (***track|block***)** *number* **stat=***status*

Explanation
An error was encountered when trying to read a block or track from the input file named *filename*. The block or track is number *number*. The status returned is shown as *status*.

Action
Correct the error and retry the operation.

HHCDC009E

HHCDC009E *progname***:** *filename* **write error (***track*|*block***)** *number* **stat=***status*

Explanation
An error was encountered when trying to read a block or track from the input file named *filename*. The block or track is number *number*. The status returned is shown as *status*.

Action
Correct the error and retry the operation.

HHCDC010I

HHCDC010I Copy successful !!!

Explanation
The copy operation has completed successfully.

Action
None. This is an informational message.

51. Messages HHCDGnnns - Dyngui.DLL

HHCDG001I

HHCDG001I dyngui.dll - *name* **- version** *vers* **initiated**

Explanation
The dyngui loadable module was successfully loaded and initiated.

Action
None. This is an informational message.

HHCDG002I

HHCDG002I dyngui.dll terminated

Explanation
The dyngui loadable module was successfully terminated.

Action
None. This is an informational message.

HHCDG003S

HHCDG003S select failed on input stream: *errmsg*

Explanation
The socket select function call failed on the input stream. *errmsg* describes the exact error.

Action
None; this is a fatal error, the system is immediately terminated.

HHCDG004S

HHCDG004S read failed on input stream: *errmsg*

Explanation
An unrecoverable i/o error occurred while reading from the input stream. *errmsg* describes the exact error.

Action
None; this is a fatal error; the system is immediately terminated.

HHCDG005E

HHCDG005E Device query buffer overflow! (device=*xxxx***)**

Explanation
The device query buffer is not large enough to hold all of the information returned by the device handler. *xxxx* is the device whose information was being queried at the time the error occurred.

Action

The system attempts to continue functioning but unpredictable results may occur (i.e. the system could crash). You should report this error to the Hercules developers immediately so that they can build you a new dyngui.dll with a larger device query buffer. Since the dyngui.dll is an unloadable module you will need to restart Hercules in order to begin using the newly fixed version of dyngui.dll.

HHCDG006S

HHCDG006S malloc pszInputBuff failed: *errmsg*

Explanation

There was not enough virtual memory on the host system to satisfy the malloc request for the input stream buffer. *errmsg* describes the exact error.

Action

None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).

HHCDG007S

HHCDG007S malloc pszCommandBuff failed: *errmsg*

Explanation

There was not enough virtual memory on the host system to satisfy the malloc request for the command processing buffer. *errmsg* describes the exact error.

Action

None; this is a fatal error, the system is immediately terminated. You should increase the size of your host system's virtual memory allocation so that there is enough for Hercules to run, or else decrease the amount of memory that Hercules needs in order to run (e.g. decrease your MAINSIZE value).

52. Messages HHCDInnns - DASDINIT Utility

HHCDI001I

HHCDI001I DASD initialization successfully completed.

Explanation
The requested DASD volume has been successfully initialized and is ready for use.

Action
None. This is an informational message.

HHCDI002I

HHCDI002I DASD initialization unsuccessful.

Explanation
Initialization of the requested DASD volume was not successful.

Action
None. This is an informational message. Refer to preceding error messages to determine the cause.

53. Messages HHCDLnnns - DASDLOAD Utility

HHCDL001E

HHCDL001E Cannot open *filename*: *error*

Explanation
The control file named *filename* cannot be opened. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL002E

HHCDL002E Volume serial statement missing from *filename*

Explanation
The control file named *filename* does not contain a volume serial statement. A volume serial is required.

Action
Supply a volume serial statement and rerun dasdload.

HHCDL003E

HHCDL003E Volume serial *serial* in *filename* line *lineno* is not valid

Explanation
The volume serial *serial* supplied in line *lineno* of the control file named *filename* is not valid. It must be from one to six characters long.

Action
Supply a valid volume serial and rerun dasdload.

HHCDL004E

HHCDL004E Device type *type* in *filename* line *lineno* is not recognized

Explanation
The device type *type* specified in line *lineno* of the control file named *filename* is not a supported CKD device.

Action
Specify a supported CKD device type and rerun dasdload.

HHCDL005E

HHCDL005E *count* **in** *filename* **line** *lineno* **is not a valid cylinder count**

Explanation
The requested number *count* of cylinders for the volume in line *lineno* of the control file named *filename* is invalid. It must be a decimal number.

Action
Supply a valid cylinder count and rerun dasdload.

HHCDL006I

HHCDL006I Creating *type* **volume** *serial*: *tracks* **trks/cyl,** *length* **bytes/track**

Explanation
The volume named *serial* of type *type* is being created with *tracks* tracks per cylinder and *length* bytes per track.

Message Level
0.

Action
None. This is an informational message.

HHCDL007E

HHCDL007E Cannot create *filename*

Explanation
The DASD image file named *filename* cannot be created. A previous message described the problem.

Action
Correct the reported error and rerun dasdload.

HHCDL008E

HHCDL008E Cannot open *filename*

Explanation
The DASD image file named *filename* could not be opened. A previous message described the problem.

Action
Correct the reported error and rerun dasdload.

HHCDL009I

HHCDL009I Loading *type* volume *serial*

Explanation
The newly created volume with serial *serial* of type *type* is being loaded.

Message Level
0.

Action
None. This is an informational message.

HHCDL010E

HHCDL010E Cannot obtain storage for DSCB pointer array: *error*

Explanation
An attempt to obtain storage for the array of DSCB pointers, which will populate the VTOC, failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL011E

HHCDL011E Invalid statement in *filename* line *lineno*

Explanation
An invalid control statement was found at line *lineno* of the control file named *filename*.

Action
Correct the invalid statement and rerun dasdload.

HHCDL012I

HHCDL012I Creating dataset *dsn* at cyl *cylinder* head *head*

Explanation
The dataset named *dsn* is being created. It begins at cylinder *cylinder* head *head*.

Message level
1

Action
None. This is an informational message.

HHCDL013I

HHCDL013I Dataset *dsn* contains *size* tracks

Explanation
The dataset named *dsn* is *size* tracks long.

Message level
2

Action
None. This is an informational message.

HHCDL014I

HHCDL014I Free space starts at cyl *cylinder* head *head*

Explanation
Free space on the volume begins at cylinder *cylinder* head *head* and extends to the end of the volume.

Message level
1

Action
None. This is an informational message.

HHCDL015W

HHCDL015W Volume exceeds *cylinders*

Explanation
The amount of space used on the volume exceeds the number of cylinders *cylinders* requested in the control file. The number of cylinders was explicitly requested instead of being allowed to default to the size of a full volume for the device type. The volume has been extended to accomodate the data written.

Action
Specify more cylinders in the control file or allow the number to default.

HHCDL016I

HHCDL016I Total of *count* cylinders written to *filename*

Explanation
A total of *count* cylinders have been written to the DASD image file named *filename*.

Message level
0

Action
None. This is an informational message.

HHCDL017I

HHCDL017I Updating VTOC pointer *pointer*

Explanation
The pointer to the VTOC in the volume label is being updated to point to the VTOC at location *pointer*.

Message level
5

Action
None. This is an informational message.

HHCDL018E

HHCDL018E Cannot read VOL1 record

Explanation
An attempt to read the volume label failed. A previous message described the error.

Action
Correct the error and rerun dasdload.

HHCDL019E

HHCDL019E Cannot read *filename* line *lineno*: *error*

Explanation
An error was encountered while trying to read the statement at line number *lineno* of the control file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL020E

HHCDL020E Line too long in *filename* line *lineno*

Explanation
The line at line number *lineno* of the control file named *filename* is too long to be processed. This error can be caused by failing to terminate the last line with an end-of-line marker.

Action
Correct the error and rerun dasdload.

HHCDL021E

HHCDL021E DSNAME or initialization method missing

Explanation
Either the dataset name or the method to be used to initialize it is missing from the control file. Both are required.

Action
Supply the missing value and rerun dasdload.

HHCDL022E

HHCDL022E Invalid initialization method: *method*

Explanation
The method specified to initialize the dataset *method* is invalid. It must be one of xmit, vs, empty, dip, cvol, vtoc, or seq.

Action
Correct the initialization method and rerun dasdload.

HHCDL023E

HHCDL023E Initialization file name missing

Explanation
A dataset was specified as being initialized by either the xmit, *vs*, or *seq* initialization methods but no source file was specified to provide the data to be loaded.

Action
Specify a source file name or specify the empty dataset initialization method if the dataset is not to be loaded.

HHCDL024E

HHCDL024E Invalid allocation units: *units*

Explanation
The allocation unit specified *units* is invalid. It must be either cyl or trk.

Action
Specify a valid allocation unit and rerun dasdload.

HHCDL025E

HHCDL025E Invalid primary space: *space*

Explanation
The primary space requested *space* is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL026E

HHCDL026E Invalid secondary space: *space*

Explanation
The secondary space requested *space* is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL027E

HHCDL027E Invalid directory space: *space*

Explanation
The PDS directory space requested *space* is not a valid decimal number greater than 0.

Action
Specify a valid space request and rerun dasdload.

HHCDL028E

HHCDL028E Invalid dataset organization: *dsorg*

Explanation
The requested dataset organization *dsorg* is invalid. It must be one of is, ps, da, or po.

Action
Specify a valid dataset organization and rerun dasdload.

HHCDL029E

HHCDL029E Invalid record format: *recfm*

Explanation
The requested record format *recfm* is invalid. It must be one of f, fb, fbs, v, vb, vbs, or u.

Action
Specify a valid record format and rerun dasdload.

HHCDL030E

HHCDL030E Invalid logical record length: *lrecl*

Explanation
The requested logical record length *lrecl* is invalid. It must be a decimal number between 0 and 32767.

Action
Specify a valid logical record length and rerun dasdload.

HHCDL031E

HHCDL031E Invalid block size: *blksize*

Explanation
The requested block size *blksize* is invalid. It must be a decimal number between 0 and 32767.

Action
Specify a valid block size and rerun dasdload.

HHCDL032E

HHCDL032E Invalid key length: *keylen*

Explanation
The requested key length *keylen* is invalid. It must be a decimal number between 0 and 255.

Action
Specify a valid key length and rerun dasdload.

HHCDL033E

HHCDL033E CCHH=*cchh* **not found in extent table**

Explanation
The absolute track address *cchh* was not found in the table listing the locations occupied by the dataset being loaded. There is likely a problem with the input file.

Action
Correct the input file and rerun dasdload.

HHCDL034E

HHCDL034E Cannot open *filename***:** *error*

Explanation
The file named *filename*, which was specified as the source of IPL text to be written to the volume, could not be opened. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL035E

HHCDL035E Cannot read *filename*: *error*

Explanation
An error was encountered while reading the IPL text file named *filename*. The error is described by *error*. If no error is reported, the file did not contain an integral number of 80-byte card images.

Action
Correct the reported error or supply a valid IPL text file consisting of 80-byte card images and rerun dasdload.

HHCDL036E

HHCDL036E *filename* is not a valid object file

Explanation
The IPL text file named *filename* is not a valid object file. A record read from the file did not contain the required flag in the first byte.

Action
Supply a valid object file and rerun dasdload.

HHCDL037I

HHCDL037I IPL text address=*addr* length=*length*

Explanation
The object code from the current record of the IPL text file will be loaded into memory at address *address*, and is *length* bytes long.

Message level
5

Action
None. This is an informational message.

HHCDL038E

HHCDL038E TXT record in *filename* has invalid count *length*

Explanation
A text record in the IPL text file named *filename* has an invalid length *length*. The length cannot exceed 56.

Action
Supply a valid IPL text file and rerun dasdload.

HHCDL039E

HHCDL039E IPL text in *filename* exceeds *buflen* bytes

Explanation
The IPL text file named *filename* is too long to fit in the available space on the volume. The IPL text cannot exceed *buflen* bytes in length.

Action
Supply a shorter IPL text file or specify a volume with a larger track size and rerun dasdload.

HHCDL040E

HHCDL040E Input record CCHHR=*cchhr* exceeds output device track size

Explanation
The block to be written at absolute address *cchhr* is too large to fit on a track on the disk being loaded.

Action
Specify a device with a larger track size and rerun dasdload.

HHCDL041E

HHCDL041E Dataset exceeds extent size: reltrk=*track*, maxtrk=*maxtrk*

Explanation
The data to be written to the dataset is too large for the space requested for it. If the space request was allowed to default, the input file is corrupt.

Action
If the space request was made explicitly, then request more space. If the request was defaulted, supply a valid input file. Rerun dasdload.

HHCDL042E

HHCDL042E Input record CCHHR=*cchhr* exceeds virtual device track size

Explanation
The block to be written at absolute address *cchhr* is too large to fit on a track on the disk being loaded. In addition, this message being issued instead of message HHCDL040E indicates an internal inconsistency in the way Hercules computes the space available on a track.

Action
Specify a device with a larger track size and rerun dasdload. Report the inconsistenct to the Hercules development team.

HHCDL043E

HHCDL043E *filename* **cyl** *cylinder* **head** *head* **read error**

Explanation
The data at cylinder *cylinder*, head *head* of the disk image file named *filename* could not be read in order to be updated. A previous message described the error.

Action
Correct the previously reported error and rerun dasdload.

HHCDL044E

HHCDL044E *filename* **cyl** *cylinder* **head** *head* **invalid track header** *header*

Explanation
The track header *header* at cylinder *cylinder*, head *head* in the disk image file named *filename* contained an address that did not match the actual address.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL045E

HHCDL045E *filename* **cyl** *cylinder* **head** *head* **record** *record* **record not found**

Explanation
The record requested for update at cylinder *cylinder*, head *head*, record *record* of the DASD image file named *filename* was not found.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL046E

HHCDL046E Cannot update cyl *cylinder* **head** *head* **rec** *record***: Unmatched KL/DL**

Explanation
The record to be written at cylinder *cylinder*, head *head*, record *record* does not have the same key or data length as the record that already exists at that location. This is not allowed for a record update operation.

Action
Rerun dasdload. If the error persists, report it to the Hercules development team.

HHCDL047E

HHCDL047E *filename* **cyl** *cylinder* **head** *head* **read error**

Explanation
A read error was encountered when reading the track at cylinder *cylinder*, head *head*, in the disk image file named *filename*. A previous message described the error.

Action
Correct the error reported by the previous message and rereun dasdload.

HHCDL048I

HHCDL048I Updating cyl *cylinder* **head** *head* **rec** *record* **kl** *keylen* **dl** *datalen*

Explanation
The record at cylinder *cylinder*, head *head*, record *record* is being updated. It has a key length of *keylen* and data length *datalen*.

Message level
4

Action
None. This is an informational message.

HHCDL049E

HHCDL049E Cannot obtain storage for DSCB: *error*

Explanation
An attempt to obtain storage to build a DSCB to describe a dataset on the volume being loaded failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL050E

HHCDL050E DSCB count exceeds *maximum***, increase MAXDSCB**

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.

HHCDL051E

HHCDL051E Cannot obtain storage for DSCB: *error*

Explanation
An attempt to obtain storage to build a DSCB to describe the VTOC on the volume being loaded failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL052E

HHCDL052E DSCB count exceeds *maximum*, **increase MAXDSCB**

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.

HHCDL053E

HHCDL053E Cannot obtain storage for DSCB: *error*

Explanation
An attempt to obtain storage to build a DSCB to describe the free space on the volume being loaded failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL054E

HHCDL054E DSCB count exceeds *maximum*, **increase MAXDSCB**

Explanation
There are too many datasets on the volume being loaded and an internal structure in dasdload is full.

Action
Increase the value of the symbol MAXDSCB in the source program and recompile dasdload, then rerun the program.

HHCDL055E

HHCDL055E VTOC too small, *tracks* **tracks required**

Explanation
The VTOC allocation of *tracks* is too small to hold the VTOC.

Action
Specify at least *tracks* tracks for the VTOC and rerun dasdload.

HHCDL056E

HHCDL056E Error reading VTOC cyl *cylinder* **head** *head*

Explanation
The first track of the VTOC could not be read so it could be updated. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL057I

HHCDL057I VTOC starts at cyl *cylinder* **head** *head* **and is** *tracks* **tracks**

Explanation
The VTOC on the volume being loaded starts at cylinder *cylinder*, head *head* and is *tracks* tracks long.

Message level
1

Action
None. This is an informational message.

HHCDL058I

HHCDL058I Format *format* **DSCB CCHHR=***cchhr* **(TTR=***ttr***)** *dsname*

Explanation
The format *format* DSCB is located at absolute address *cchhr* and relative address within the VTOC *ttr*. If *format* is 1, the dataset described by the DSCB is named *dsname*.

Message level
4

Action
None. This is an informational message.

HHCDL059I

HHCDL059I Format 0 DSCB CCHHR *cchhr* (TTR=*ttr*)

Explanation
A format 0 (empty) DSCB is located at absolute address *cchhr* and relative address within the VTOC *ttr*.

Message level
4

Action
None. This is an informational message.

HHCDL060E

HHCDL060E Error reading track cyl *cylinder* head *head*

Explanation
An error was encountered reading the track at cylinder *cyl*, head *head*. A previous message described the error.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL061E

HHCDL061E Incomplete text unit

Explanation
An text unit read from the input file was too short to contain a valid header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL062I

HHCDL062I *position tuname key fields*

Explanation
The text unit at *position* of the input buffer has the name *tuname* and the numeric key value *key*. There are *fields* fields in the text unit.

Message level
4

Action
None. This is an informational message.

HHCDL063E

HHCDL063E Too many fields in text unit

Explanation
A text unit was read from the input file that had too many fields in the header for that type of text unit. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL064E

HHCDL064E Incomplete text unit

Explanation
A text unit read from the input file was too short to contain a valid field length. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL065E

HHCDL065E Incomplete text unit

Explanation
A text unit read from the input file was shorter than the length in the field header. The input data is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL066E

HHCDL066E *filename* read error: *error*

Explanation
An error was encountered when reading the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL067E

HHCDL067E *filename* invalid segment header: *header*

Explanation
A segment read from the file named *filename* has an invalid header *header*. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL068E

HHCDL068E *filename* **first segment indicator expected**

Explanation

A segment read from the file named *filename* should have the first segment indicator set but does not. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL069E

HHCDL069E *filename* **first segment indicator not expected**

Explanation

A segment read from the file named *filename* should not have the first segment indicator set but does. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL070E

HHCDL070E *filename* **control record indicator mismatch**

Explanation

There was a mismatch between the first segment and the control record. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL071E

HHCDL071E *filename* **read error:** *error*

Explanation

An error was encountered when reading a segment from the input file named *filename*. The error is described by *error*.

Action

Correct the error and rerun dasdload.

HHCDL072E

HHCDL072E *filename* **read error:** *error*

Explanation
An error was encountered when reading a COPYR1 record from the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL073E

HHCDL073E *filename* **read error:** *error*

Explanation
An error was encountered when reading a COPYR2 record from the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL074E

HHCDL074E *filename* **read error:** *error*

Explanation
An error was encountered when reading a data block header from the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL075E

HHCDL075E *filename* **read error:** *error*

Explanation
An error was encountered when reading a data block from the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL076I

HHCDL076I File number: *number*

Explanation
The file being processed is number *number*.

Message level
4

Action
None. This is an informational message.

HHCDL077E

HHCDL077E Invalid text unit at offset *offset*

Explanation
An invalid text unit was read from position *offset*. A previous message described the error. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL078I

HHCDL078I File *filenum*: DSNAME=*dsname*

Explanation
The dataset name of file number *filenum* is *dsname*.

Message level
2

Action
None. This is an informational message.

HHCDL079I

HHCDL079I DSORG=*dsorg* RECFM=*recfm* LRECL=*lrecl* BLKSIZE=*blksize* KEYLEN=*keylen* DIRBLKS=*dirblks*

Explanation
For the dataset listed in the preceding HHCDL078I message the dataset organization is *dsorg*, the record format is *recfm*, the logical record length is *lrecl*, the block size is *blksize*, the key length is *keylen* and the directory block count is *dirblks*.

Message level
2

Action

None. This is an informational message.

HHCDL080E

HHCDL080E Invalid text unit at offset *offset*

Explanation

An invalid text unit was read from position *offset*. A previous message described the error. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL081E

HHCDL081E COPYR1 record length is invalid

Explanation

The length of the COPYR1 record is invalid. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL082E

HHCDL082E COPYR1 header identifier not correct

Explanation

The header identifier of the COPYR1 record is invalid. The input file is probably corrupt.

Action

Supply a valid input file and rerun dasdload.

HHCDL083E

HHCDL083E COPYR1 unload format is unsupported

Explanation

The COPYR1 record indicates that the file was unloaded in a format that is not supported by dasdload. The file may be corrupt or it may simply be in a newer format than is supported by this version of dasdload.

Action

Supply a supported input file and rerun dasdload.

HHCDL084I

HHCDL084I Original dataset: DSORG=*dsorg* RECFM=*recfm* LRECL=*lrecl* BLKSIZE=*blksize* KEYLEN=*keylen*

Explanation
For the original dataset, the dataset organization is *dsorg*, the record format is *recfm*, the logical record length is *lrecl*, the block size is *blksize*, the key length is *keylen* and the directory block count is *dirblks*.

Message level
2

Action
None. This is an informational message.

HHCDL085I

HHCDL085I Dataset was unloaded from device type *ucbtype* (*device*)

Explanation
The dataset was unloaded from a *device* device, with UCB device type *ucbtype*.

Message level
2

Action
None. This is an informational message.

HHCDL086I

HHCDL086I Original device has *cylinders* cyls and *heads* heads

Explanation
The device listed in the preceding HHCDL085I message has *cylinders* cylinders and *heads* heads.

Message level
2

Action
None. This is an informational message.

HHCDL087E

HHCDL087E COPYR2 record length is invalid

Explanation
The length of the COPYR2 record just read is not valid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL088E

HHCDL088E Invalid number of extents *extents*

Explanation
The number of extents reported in the COPYR2 record is invalid, either less than 1 or more than 16. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL089I

HHCDL089I Extent *extent***: Begin CCHH=***begcchh* **End CCHH=***endcchh* **Tracks=***tracks*

Explanation
For extent number *extent*, the extent starts at cylinder and head *begcchh*, and ends at *endcchh*, for a total of *tracks* tracks.

Message level
4

Action
None. This is an informational message.

HHCDL090I

HHCDL090I End of directory

Explanation
The end of the PDS directory has been reached.

Message level
3

Action
None. This is an informational message.

HHCDL091E

HHCDL091E Directory block record length is invalid

Explanation
The directory block read from the input file has the wrong length. It must be 276 bytes long. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL092E

HHCDL092E Cannot obtain storage for directory block: *error*

Explanation
An attempt to obtain storage for the directory block being processed failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL093E

HHCDL093E Number of directory blocks exceeds *maxdblk*, increase MAXDBLK

Explanation
The number of directory blocks in the dataset being processed exceeds the size of an internal control structure. The maximum number is *maxdblk*.

Action
Increase the value of the constant MAXDBLK in the program source and recompile dasdload.

HHCDL094E

HHCDL094E Directory block byte count is invalid

Explanation
The length of the current directory block is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL095I

HHCDL095I (Alias|Member) *memname* TTR=*ttr*
Userdata=*userdata*

Explanation
The alias or member named *memname* is located at relative address *ttr*. If user data is present, it is printed as *userdata*.

Message level
3

Action
None. This is an informational message.

HHCDL096I

HHCDL096I Member *name* TTR=*oldttr* replaced by *newttr*

Explanation
In the directory entry for member *name*, the old pointer to the mamber *oldttr* was replaced by the member's actual relative address *newttr*.

Message level
4

Action
None. This is an informational message.

HHCDL097E

HHCDL097E Member *name* TTR=*ttr*not found in dataset

Explanation
A request was made to update the directory entry for the member named *name* but there was no directory entry to update.

Action
This is likely an internal logic error. Report the error to the Hercules development team.

HHCDL098I

HHCDL098I Updating note list for member *name* at TTR=*ttr* CCHHR=*cchhr*

Explanation
The note list for the member named *name*, at relative address *ttr*, absolute address *cchhr*, is being updated.

Message level
4

Action
None. This is an informational message.

HHCDL099E

HHCDL099E *filename* cyl *cylinder* head *head* read error

Explanation
An attempt to read the track in the DASD image file named *filename* at cylinder *cylinder*, head *head*, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL100E

HHCDL100E *filename* **cyl** *cylinder* **head** *head* **invalid track header** *header*

Explanation
The header *header* of the track in the DASD image file named *filename* at cylinder *cylinder*, head *head* did not agree with the actual address of the track. This is probably an internal logic error.

Action
Report the error to the Hercules development team.

HHCDL101E

HHCDL101E *filename* **cyl** *cylinder* **head** *head* **rec** *record* **note list record not found**

Explanation
A request was made to update a note list record at cylinder *cylinder*, head *head*, record *record*, but the record was not found. The input dataset may be corrupt.

Action
Supply a valid input dataset and rerun dasdload.

HHCDL102E

HHCDL102E Member *member* **note list at cyl** *cylinder* **head** *head* **rec** *record* **dlen** *datalen* **is too short for** *numttrs* **TTRs**

Explanation
The data length *datalen* of the note list record for member *member* at cylinder *cylinder*, head *head*, record *record*, is too short to contain the requested number *numttrs* of record pointers. The input dataset is probably corrupt.

Action
Supply a valid input dataset and rerun dasdload.

HHCDL103E

HHCDL103E *filename* **track read error cyl** *cylinder* **head** *head*

Explanation
An attempt to read the track in the DASD image file named *filename* at cylinder *cylinder*, head *head*, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL104I

HHCDL104I Updating cyl *cylinder* head *head* rec *record* kl *keylen* dl *datalen*

Explanation
The record at cylinder *cylinder*, head *head*, record *record*, with key length *keynel* and data length *datalen* is being updated.

Message level
4

Action
None. This is an informational message.

HHCDL105E

HHCDL105E Directory block byte count is invalid

Explanation
The length of the current directory block is invalid. The input file is probably corrupt.

Action
Supply a valid input file and rerun dasdload.

HHCDL106E

HHCDL106E Cannot open file *filename*: *error*

Explanation
An attempt to open the IEBCOPY input file named *filename* failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL107E

HHCDL107E Cannot obtain input buffer: *error*

Explanation
An attempt to obtain a 64K byte input buffer for reaading the IEBCOPY input file failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL108E

HHCDL108E Cannot obtain storage for directory block array:*error*

Explanation
An attempt to obtain storage for the internal array used to store directory blocks failed. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL109E

HHCDL109E Cannot obtain storage for TTR table: *error*

Explanation
An attempt to obtain storage for the internal array used to store track pinters for later conversion failed. The error is described by *error*.

Action
Correct the error and rerun *dasdload*.

HHCDL110I

HHCDL110I Processing file *filename*

Explanation
The input file named *filename* is being processed.

Message level
1

Action
None. This is an informational message.

HHCDL111I

HHCDL111I Control record: *recname* length *length*

Explanation
A control record named *recname* of length *length* has been read.

Message level
4

Action
None. This is an informational message.

HHCDL112I

HHCDL112I File number: *filenum* ((not) selected)

Explanation
The data file, number *filenum*, was (or was not) selected for processing.

Message level
4

Action
None. This is an informational message.

HHCDL113I

HHCDL113I Data record: length *length*

Explanation
A data record of length *length* has been read.

Message level
4

Action
None. This is an informational message.

HHCDL114E

HHCDL114E write error: input record CCHHR=*cchhr* (TTR=*ttr*) KL=*keylen* DL=*datalen*

Explanation
An error was encountered writing the data record at absolute address *cchhr*, relative address *ttr*, with key length *keylen* and data length *datalen*. A previous message described the error.

Action
Correct the error described by the previous message and rerun dasdload.

HHCDL115I

HHCDL115I CCHHR=*incchhr* (TTR=*inttr*) KL=*keylen* DL=*datalen* -> CCHHR=*outcchhr* (TTR=*outttr*)

Explanation
The record at absolute address *incchhr*, relative address *inttr*, with key length *keylen* and data length *datalen*, is being written to the output DASD image at absolute address *outcchhr*, relative address *outttr*.

Message level
4

Action
None. This is an informational message.

HHCDL116E

HHCDL116E TTR count exceeds *maxttr*, increase MAXTTR

Explanation
The list of relative address pointers exceeds the size of the internal array used to contain them, *maxttr*.

Action
Increase the constant MAXTTR in the program source and recompile dasdload.

HHCDL117I

HHCDL117I Catalog block at cyl *cylinder* head *head* rec *record*

Explanation
A catalog record has been written to disk at cylinder *cylinder*, head *head* and record *record*.

Message level
4

Action
None. This is an informational message.

HHCDL118I

HHCDL118I Catalog block at cyl *cylinder* head *head* rec *record*

Explanation
A catalog index record has been written to disk at cylinder *cylinder*, head *head* and record *record*.

Message level
4

Action
None. This is an informational message.

HHCDL119I

HHCDL119I Catalog block at cyl *cylinder* head *head* rec *record*

Explanation
An empty catalog record has been written to disk at cylinder *cylinder*, head *head* and record *record*.

Message level
4

Action
None. This is an informational message.

HHCDL120I

HHCDL120I DIP complete at cyl *cylinder* head *head* record *record*

Explanation
The LOGREC dataset has been initialized. The last block written was at cylinder *cylinder*, head *head*, record *record*.

Message level
3

Action
None. This is an informational message.

HHCDL121E

HHCDL121E SEQ dsorg must be PS or DA: dsorg=*dsorg*

Explanation
The dataset organization specified for the input dataset was *dsorg*. It must be either PS or DA but is not.

Action
Specify a valid dataset organization for sequential file processing or specify the correct processing option for the file being loaded and rerun dasdload.

HHCDL122E

HHCDL122E SEQ recfm must be F or FB: recfm=*recfm*

Explanation
The record format specified for the input dataset was *recfm*. It must be either F or FB but is not.

Action
Specify a valid record format for sequential file processing and rerun dasdload.

HHCDL123E

HHCDL123E SEQ invalid lrecl or blksz: lrecl=*lrecl* blksz=*blksz*

Explanation
The logical record length specified for the input dataset was *lrecl*, and the block size was *blksz*. Either the block size was not a multiple of the logical record length and the record format was specified as FB or the block size was different from the logical record length and the record format was specified as F.

Action
Specify a valid logical record length and block size for sequential file processing and rerun dasdload.

HHCDL124E

HHCDL124E SEQ keyln must be 0 for blocked files

Explanation
The key length was specified as nonzero and the record format was specified as FB. This combination is invalid.

Action
If a key is required, specify a record format of F. If no key is required, specify a key length of 0. Rerun dasdload.

HHCDL125E

HHCDL125E Cannot open *filename*: *error*

Explanation
An error was encountered when attempting to open the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL126E

HHCDL126E Cannot stat *filename*: *error*

Explanation
An error was encountered when attempting to obtain the size of the file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL127E

HHCDL127E *filename* cyl *cylinder* head *head* read error

Explanation
An attempt to read the track in the DASD image file named *filename* at cylinder *cylinder*, head *head*, failed. A previous error described the failure.

Action
Correct the error reported by the previous message and rerun dasdload.

HHCDL128E

HHCDL128E *filename* **read error:** *error*

Explanation
An error was encountered reading the input file named *filename*. The error is described by *error*.

Action
Correct the error and rerun dasdload.

HHCDL130W

HHCDL130W WARNING -- XMIT file utility is not IEBCOPY; file *filename* **not loaded**

Explanation
The file *filename* cannot be loaded as an XMIT file because it is not an unloaded PDS.

Action
If *filename* is an unloaded sequential file, rerun DASDLOAD specifying XMSEQ instead of XMIT.

HHCDL131I

HHCDL131I Control record: *recname* **length** *length*

Explanation
A control record named *recname* of length *length* has been read.

Action
None.

HHCDL132I

HHCDL132I File number: *filenum* **((not) selected)**

Explanation
The date file, number *filenum* was (or was not) selected for processing.

Action
None.

HHCDL133I

HHCDL133I Data record: length *length*

Explanation
A data record of length *length* has been read.

Action
None.

HHCDL135I

HHCDL135I CCHHR=*outcchhr* (TTR=*outttr*) KL=*keylen* DL=*datalen*

Explanation
A record with key length *keylen* and date length *datalen* is being written to the output DASD image at absolute address *outcchhr*, relative address *outttr*.

Action
None.

HHCDL136E

HHCDL136E Cannot open file *filename*: *error*

Explanation
An attempt to open the sequential XMIT input file named *filename* failed. The error is described by *error*.

Action
Correct the error and rerun DASDLOD.

HHCDL137E

HHCDL137E Cannot obtain input buffer: *error*

Explanation
An attempt to obtain a 64K byte input buffer for reading the sequential XMIT input file failed. The error is described by *error*.

Action
Correct the error and rerun DASDLOD.

HHCDL138W

HHCDL130W WARNING -- XMIT file utility is not INMCOPY; file *filename* not loaded

Explanation
The file *filename* cannot be loaded as an XMSEQ file because it does not appear to contain an unloaded sequential file.

Action
If *filename* is an unloaded PDS file, rerun DASDLOAD specifying XMIT.

HHCDL139I

HHCDL139I Processinf file *filename*

Explanation
The input file named *filename* is being processed as a sequential XMIT file.

Action
None.

54. Messages HHCDSnnns - DASDISUP Utility

HHCDS001E

HHCDS001E Cannot obtain storage for member array: *error*

Explanation
An attempt to obtain storage for the array of SYS1.SVCLIB members failed. The error is described by *error*.

Action
Correct the error and rerun dasdisup.

HHCDS002I

HHCDS002I End of directory: *count* members selected

Explanation
The end of the SYS1.SVCLIB directory has been reached. *count* members have been selected for processing.

Action
None. This is an informational message.

HHCDS003E

HHCDS003E Directory block byte count is invalid

Explanation
The length of the directory block read is invalid. The SYS1.SVCLIB directory is probably corrupt.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup.

HHCDS004E

HHCDS004E Number of members exceeds MAX_MEMBERS

Explanation
SYS1.SVCLIB has too many members to fit in the array used to store their information.

Action
Increase the value of MAX_MEMBERS in dasdisup.c and recompile the program, then run it again.

HHCDS005E

HHCDS005E Member *member* **TTR count is zero**

Explanation
The member named *member* has no data associated with it. Since aliases have been skipped already, this means that the SYS1.SVCLIB directory is corrupt.

Action
Rebuild SYS1.SVCLIB and run dasdisup again.

HHCDS006W

HHCDS006W Member *member* **is not single text record**

Explanation
The member named *member* is not contained in a single text record. This is an invalid condition. The member will be skipped later and message HHCDS011E will be issued.

Action
If this member must be processed, rebuild SYS1.SVCLIB and rerun dasdisup.

HHCDS007W

HHCDS007W Member *member* **size** *size* **exceeds X'7F8' bytes**

Explanation
The member named *member* is too long. The maximum length of an OS/360 SVC load module is X'7F8' (2040 decimal) bytes. The member will be processed but OS/360 may not process it correctly.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.

HHCDS008W

HHCDS008W Member *member* **size** *size* **is not a multiple of 8**

Explanation
The member named *member* is not a multiple of 8 bytes long. Its actual size is *size*. This is not valid for an OS/360 load module. OS/360 will issue an ABEND when an attempt is made to load the module.

Action
Correct the member in SYS1.SVCLIB and rerun dasdisup.

HHCDS009I

HHCDS009I Alias *alias* skipped

Explanation
The alias named *alias* has been skipped, since no processing is necessary for it.

Action
None. This is an informational message.

HHCDS010I

HHCDS010I Member *member* skipped

Explanation
The member named *member* has been skipped, since it does not have an XCTL table.

Action
None. This is an informational message. If the member should have an XCTL table, rebuild it in SYS1.SVCLIB and rerun dasdisup.

HHCDS011E

HHCDS011E Member *member* has multiple text records

Explanation
The member named *member* has multiple text records. This is not a valid condition for an OS/360 SVC module. The member will not be processed. Message HHCDS006W was issued for this member earlier.

Action
If this member must be processed, rebuild it in SYS1.SVCLIB and rerun dasdisup.

HHCDS012E

HHCDS012E Member *member* has invalid TTR *ttr*

Explanation
The pointer to the text record for the member named *member* is invalid. The pointer found is *ttr*. The member cannot be located to be processed. The SYS1.SVCLIB directory is probably corrupt.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup.

HHCDS013I

HHCDS013I Processing member *member* text record TTR=*ttr* CCHHR=*cchhr*

Explanation
The member named *member* is being processed. Its relative location is *ttr* and its absolute location is *cchhr*.

Action
None. This is an informational message.

HHCDS014E

HHCDS014E Member *member* error reading TTR *ttr*

Explanation
An attempt to read the member named *member*, at the relative location *ttr*, failed. The member cannot be processed.

Action
Rebuild SYS1.SVCLIB and rerun dasdisup. If this is unsuccessful, rebuild the entire DASD volume.

HHCDS015E

HHCDS015E Member *member* TTR *ttr* text record length *length* is not valid

Explanation
The length *length* of the text record at location *ttr* of the member named *member* is less than 8, greater than 1024, or not a multiple of 8. All of these conditions must be met for the length to be valid. The member is probably corrupt.

Action
Rebuild the member in SYS1.SVCLIB and rerun dasdisup.

HHCDS016E

HHCDS016E Member *member* TTR *ttr* text record length *textlength* does not match length *dirlength* in directory

Explanation
The length *textlength* of the text record at location *ttr* is not the same as the length *dirlength* in the directory entry for member *member*. Either the member, or the directory, is probably corrupt.

Action
Rebuild the member in SYS1.SVCLIB and rerun dasdisup. If this does not correct the problem, rebuild SYS1.SVCLIB in its entirety.

HHCDS017E

HHCDS017E Member *member* TTR *ttr* XCTL table improperly terminated

Explanation
The XCTL table in member *member* at location *ttr* runs past the end of the text record. The member is probably corrupt.

Action
Rebuild the member and rerun dasdisup.

HHCDS018I

HHCDS018I *member* (Alias|Member) skipped

Explanation
The member or alias named *member* is not an Open, Close, or EOV module, and so does not have an XCTL table that needs to be updated. It has been skipped.

Action
None. This is an informational message.

HHCDS019I

HHCDS019I In member *member*: *reference* TTRL=*ttrl status*

Explanation
A reference to the member named *reference* in the member named *member* was found, the referenced member is at the location *ttrl* in the table. *status* is optional; it may be one of:

** Member *reference* not found
The referenced member was not found in SYS1.SVCLIB. The reference cannot be updated.

replaced by TTRL=*newttrl flag*
The reference was updated to point to the referenced member's actual location at *newttrl*. If *flag* is ****, the actual length of the referenced member is different from the length of the member in the reference pointer.

Action
None. This is an informational message.

55. Messages HHCDTnnns - DASDCAT Utility

HHCDT001E

HHCDT001E failed to open image *filename*

Explanation
An error was ancountered trying to open the DASD image file named *filename*. A previous message described the error.

Action
Correct the error and rerun dasdcat.

HHCDT002E

HHCDT002E Can't make 80 column card images from block length *length*

Explanation
A block read from the member specified is not a multiple of 80 characters long, and so cannot be split evenly into 80-character card images. The actual length read is *length*.

Action
Select a different member, or omit the c flag from the member specification.

HHCDT003E

HHCDT003E Directory block byte count is invalid

Explanation
The length of a PDS directory block in the specified dataset is invalid. The PDS directory is corrupt or the dataset is not a PDS.

Action
Make sure the dataset specified is a PDS (partitioned dataset). If it is, then the dataset is corrupt.

HHCDT004E

HHCDT004E non-PDS-members not yet supported

Explanation
This version of dasdcat does not support reading sequential datasets.

Action
Specify a PDS as input to dasdcat.

HHCDT005E

HHCDT005E unknown dataset name option: '*option*'

Explanation
An invalid option was specified on the dataset name specification. Only the options 'a' and 'c' are valid.

Action
Remove the invalid option from the dataset name specification and rerun dasdcat.

56. Messages HHCDUnnns - DASD Utilities Common Functions

HHCDU001I

HHCDU001I Updating cyl *cylinder* **head** *head*

Explanation
The track at cylinder number *cylinder* and head number *head* is being rewritten after being modified. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU002E

HHCDU002E *filename* **write track error: stat=***status*

Explanation
An attempt to rewrite a track from the DASD image named *filename* failed. The status returned was *status*.

Action
Correct the error and retry the operation.

HHCDU003I

HHCDU003I Reading cyl *cylinder* **head** *head*

Explanation
The track at cylinder number *cylinder* and head number *head* is being read. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU004E

HHCDU004E *filename* **read track error: stat=***status*

Explanation
An attempt to read a track from the DASD image named *filename* failed. The status returned was *status*.

Action
Correct the error and retry the operation.

HHCDU005I

HHCDU005I Searching extent 0 begin (*begcyl*,*beghead*) end (*endcyl*,*endhead*)

Explanation
The first extent of the dataset is being searched for a key. The extent starts at the track at cylinder *begcyl*, head *beghead*, and ends at the track at cylinder *endcyl*, head *endhead*. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU006I

HHCDU006I Searching extent *extent* begin (*begcyl*,*beghead*) end (*endcyl*,*endhead*)

Explanation
An extent, *extent*, of the dataset is being searched for a key. The extent starts at the track at cylinder *begcyl*, head *beghead*, and ends at the track at cylinder *endcyl*, head *endhead*. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU007E

HHCDU007E Track *track* not found in extent table

Explanation
An attempt was made to convert a track number to an absolute address, but the track specified, *track*, is beyond the end of the dataset.

Action
Correct the error and retry the operation. The dataset, the VTOC, or the DASD image may be corrupt.

HHCDU008E

HHCDU008E Cannot obtain storage for device descriptor buffer: *error*

Explanation
An attempt to obtain storage for the buffer used to hold a CKD DASD image description failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU009E

HHCDU009E Cannot open *filename*: *error*

Explanation
The CKD image file named *filename* could not be opened. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU010E

HHCDU010E *filename* read error: *error*

Explanation
An error was encountered while reading the CKD header record from the file named *filename*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU011E

HHCDU011E *filename* CKD header invalid

Explanation
The file *filename* is not a valid CKD DASD image file. Either the first record is not the length of a CKD header record or the marker in the header record is not correct.

Action
Supply the name of a valid CKD DASD image file and retry the operation.

HHCDU012E

HHCDU012E DASD table entry not found for devtype *type*

Explanation
The device type in the CKD header record does not correspond to any known DASD device. The CKD DASD image file may be corrupt or the device is not supported by Hercules.

Action
Supply the name of a supported CKD DASD image file and retry the operation.

HHCDU013E

HHCDU013E CKD initialization failed for *filename*

Explanation
The device-specific initialization routine for the file named *filename* failed. Another message describes the specific failure.

Action
See the specific message for the action needed.

HHCDU014I

HHCDU014I *filename* heads=*heads* trklen=*trklen*

Explanation
The device represented by the CKD DASD image file named *filename* has *heads* heads and tracks of *trklen* bytes length. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU015I

HHCDU015I Updating cyl *cylinder* head *head*

Explanation
During processing of a request to close the CKD image file, the track at cylinder number *cylinder* and head number *head* is being rewritten, since it has been modified. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU016E

HHCDU016E *filename* write track error: stat=*status*

Explanation
During processing of a request to close the CKD image file, an attempt to rewrite a track from the DASD image named *filename* failed. The status returned was *status*.

Action
Correct the error and retry the operation.

HHCDU017E

HHCDU017E Cannot obtain storage for device descriptor buffer: *error*

Explanation
An attempt to obtain storage for the buffer used to hold a FBA DASD image description failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU018E

HHCDU018E DASD table entry not found for devtype *type*

Explanation
The default FBA device type does not correspond to any known DASD device. This is likely an internal programming error.

Action
Report the bug to the Hercules development team.

HHCDU019E

HHCDU019E FBA initialization failed for *filename*

Explanation
The device-specific initialization routine for the file named *filename* failed. Another message describes the specific failure.

Action
See the specific message for the action needed.

HHCDU020I

HHCDU020I *filename* sectors=*sectors* size=*size*

Explanation
The device represented by the FBA DASD image file named *filename* has *sectors* sectors of *size* bytes length. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU021E

HHCDU021E VOL1 record not found

Explanation
The volume being processed does not have a volume label. It is probably blank and unformatted.

Action
Format the volume or specify a formatted volume and retry the operation.

HHCDU022I

HHCDU022I VOLSER=*serial* VTOC=*cchhr*

Explanation
The volume being processed has the volume serial *serial* and its VTOC format 4 DSCB is at absolute location *cchhr*. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU023I

HHCDU023I VTOC start *begcchh* end *endcchh*

Explanation
The VTOC of the volume being processed begins at cylinder and head *begcchh* and ends at cylinder and head *endcchh*. This message is only issued if verbose message reporting has been selected.

Action
None. This is an informational message.

HHCDU024E

HHCDU024E Dataset *dsn* not found in VTOC

Explanation
The requested dataset *dsn* was not found in the VTOC and does not exist on this volume.

Action
Specify the correct dataset name or select the volume on which it appears.

HHCDU025I

HHCDU025I DSNAME=*dsn* F1DSCB CCHHR=*cchhr*

Explanation
The format 1 DSCB for the requested dataset *dsn* is at absolute location *cchhr*. This message is only issued if verbose message reporting has been selected.

Action

None. This is an informational message.

HHCDU026E

HHCDU026E F1DSCB record not found

Explanation

The requested dataset is listed in the VTOC but its format 1 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

Action

Recreate the dataset and retry the operation.

HHCDU027E

HHCDU027E F3DSCB record not found

Explanation

The requested dataset is reported to contain more than three extents in the format 1 DSCB but its format 3 DSCB record was not found when an attempt was made to read it. The VTOC may be corrupt.

Action

Recreate the dataset and retry the operation.

HHCDU028E

HHCDU028E *filename* open error: *error*

Explanation

An attempt to create the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU029E

HHCDU029E *filename* device header write error: *error*

Explanation

An attempt to write the device header to the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU030E

HHCDU030E *filename* **compressed device header write error:** *error*

Explanation
An attempt to write the compressed device header to the CKD DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU031E

HHCDU031E Cannot obtain l1tab buffer: *error*

Explanation
An attempt to obtain storage for the primary lookup table buffer failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU032E

HHCDU032E *filename* **primary lookup table write error:** *error*

Explanation
An attempt to write the primary lookup table to the CKD DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU033E

HHCDU033E *filename* **secondary lookup table write error:** *error*

Explanation
An attempt to write the secondary lookup table to the CKD DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU034E

HHCDU034E *filename* **dasdcopy ftruncate error:** *error*

Explanation
An attempt to truncate the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU035E

HHCDU035E *filename* **cylinder** *cyl* **head** *head* **write error:** *error*

Explanation

An attempt to write the track at cylinder *cyl*, head *head* to the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU036E

HHCDU036E *filename* **compressed device header lseek error:** *error*

Explanation

An attempt to reposition to the beginning of the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU037E

HHCDU037E *filename* **compressed device header write error:** *error*

Explanation

An attempt to rewrite the compressed device header record of the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU038E

HHCDU038E *filename* **secondary lookup table lseek error:** *error*

Explanation

An attempt to reposition to the secondary lookup table of the CKD DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU039E

HHCDU039E *filename* **secondary lookup table write error:** *error*

Explanation
An attempt to rewrite the secondary lookup table of the CKD DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU040E

HHCDU040E *filename* **close error:** *error*

Explanation
An attempt to close the CKD DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU041I

HHCDU041I *count* **cylinders successfully written to file** *filename*

Explanation
The CKD DASD image file named *filename* has been successfully created. It contains *count* cylinders.

Action
None. This is an informational message.

HHCDU042E

HHCDU042E Cylinder count *count* **is outside range** *min-max*

Explanation
The requested number of cylinders *count* is outside the valid range from *min* to *max*.

Action
Specify a valid number of cylinders and retry the operation.

HHCDU043E

HHCDU043E Cannot obtain track buffer: *error*

Explanation
An attempt to obtain storage for the track buffer failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU044I

HHCDU044I Creating *type* **volume** *serial*: *cylinders* **cyls,** *tracks* **trks/cyl,** *length* **bytes/track**

Explanation
A new volume is being created of device type *type* and volume serial number *serial*. It has *cylinders* cylinders, *tracks* tracks per cylinder and *length* bytes per track.

Action
None. This is an informational message.

HHCDU045E

HHCDU045E Sector count *count* **is outside range** *min-max*

Explanation
The requested number of sectors *count* is outside the valid range from *min* to *max*.

Action
Specify a valid number of cylinders and retry the operation.

HHCDU046E

HHCDU046E Cannot obtain sector buffer: *error*

Explanation
An attempt to obtain storage for the sector buffer failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU047I

HHCDU047I Creating *type* **volume** *serial*: *sectors* **sectors,** *length* **bytes/sector**

Explanation
A new volume is being created of device type *type* and volume serial number *serial*. It has *sectors* sectors and *length* bytes per sector.

Action
None. This is an informational message.

HHCDU048E

HHCDU048E *filename* **open error:** *error*

Explanation
An attempt to create the FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU049E

HHCDU049E *filename* **dasdcopy ftruncate error:** *error*

Explanation
An attempt to truncate the FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU050E

HHCDU050E *filename* **sector** *sector* **write error:** *error*

Explanation
An attempt to write sector number *sector* to the FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU051E

HHCDU051E *filename* **close error:** *error*

Explanation
An attempt to close the FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU052I

HHCDU052I *count* **sectors successfully written to file** *filename*

Explanation
The FBA DASD image file named *filename* has been successfully created. It contains *count* sectors.

Action

None. This is an informational message.

HHCDU053E

HHCDU053E File size too large: *size* [*l1tab*]

Explanation

The requested file size *size* would result in a primary lookup table that is too large. The DASD image cannot be created as a compressed image.

Action

Either specify fewer sectors or create the DASD image uncompressed.

HHCDU054E

HHCDU054E *filename* **open error:** *error*

Explanation

An attempt to create the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU055I

HHCDU055I Creating *type* **compressed volume** *serial*: *sectors* **sectors,** *length* **bytes/sector**

Explanation

A new compressed FBA volume is being created of device type *type* and volume serial number *serial*. It has *sectors* sectors and *length* bytes per sector.

Action

None. This is an informational message.

HHCDU056E

HHCDU056E *filename* **devhdr write error:** *error*

Explanation

An attempt to write the device header to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCDU057E

HHCDU057E *filename* **cdevhdr write error:** *error*

Explanation
An attempt to write the compressed device header to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU058E

HHCDU058E *filename* **l1tab write error:** *error*

Explanation
An attempt to write the primary lookup table to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU059E

HHCDU059E *filename* **l2tab write error:** *error*

Explanation
An attempt to write the secondary lookup table to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU060E

HHCDU060E *filename* **block header write error:** *error*

Explanation
An attempt to write a compressed block header to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU061E

HHCDU061E *filename* **block write error:** *error*

Explanation
An attempt to write a compressed block to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU062E

HHCDU062E *filename* **block write error:** *error*

Explanation
An attempt to write an uncompressed block to the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU063E

HHCDU063E *filename* **cdevhdr lseek error:** *error*

Explanation
An attempt to reposition to the beginning of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU064E

HHCDU064E *filename* **cdevhdr rewrite error:** *error*

Explanation
An attempt to rewrite the compressed device header record of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU065E

HHCDU065E *filename* **l2tab lseek error:** *error*

Explanation
An attempt to reposition to the secondary lookup table of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU066E

HHCDU066E *filename* **l2tab rewrite error:** *error*

Explanation
An attempt to rewrite the secondary lookup table of the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU067E

HHCDU067E *filename* **close error:** *error*

Explanation
An attempt to close the compressed FBA DASD image file named *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCDU068I

HHCDU068I *count* **sectors successfully written to file** *filename*

Explanation
The compressed FBA DASD image file named *filename* has been successfully created. It contains *count* sectors.

Action
None. This is an informational message.

57. Messages HHCHDnnns - Hercules Dynamic Loader

HHCHD001E

HHCHD001E registration alloc failed for *entry*

Explanation
Storage could not be obtained to register entrypoint *entry*

Action
Correct the error and restart Hercules.

HHCHD002E

HHCHD002E cannot allocate memory for DLL descriptor: *error*

Explanation
Initialisation of the dynamic loader environment failed due to the error described by *error*.

Action
Correct the error and restart Hercules.

HHCHD003E

HHCHD003E unable to open Hercules as DLL: *error*

Explanation
The main Hercules load module could not be opened by the dynamic loader. The dynamic loader error is described by *error*

Action
Correct the error and restart Hercules.

HHCHD004I

HHCHD004I No initializer in *module*: *error*

Explanation
The initializer in DLL named *module* could not be found. The error is described by *error*

Action
Correct the error and restart Hercules.

HHCHD005E

HHCHD005E *module* **already loaded.**

Explanation
An attempt was made to load an already loaded module.

Action
Unload to module first.

HHCHD006S

HHCHD006S cannot allocate memory for DLL descriptor: *error*

Explanation
Initialisation of the dynamic loader environment failed due to the error described by *error*.

Action
Correct the error and restart Hercules.

HHCHD007E

HHCHD007E unable to open DLL *module***:** *error*

Explanation
The DLL named *module* could not be opened. The error is described by *error*.

Action
Ensure that the correct module is specified and is accessible.

HHCHD008I

HHCHD008I No initializer in *module***:** *error*

Explanation
The initializer in DLL named *module* could not be found. The error is described by *error*

Action
Correct the error and restart Hercules.

HHCHD009E

HHCHD009E *module* **not found**

Explanation
An attempt was made to unload a module that was not loaded.

Action
No action required.

HHCHD010I

HHCHD010I Dependency check failed for *module*, version(*vers_actual*) expected(*vers_exp*)

Explanation
The version of the module's required dependency does not match the version of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD011I

HHCHD011I Dependency check failed for *module*, size(*size_actual*) expected(*size_exp*)

Explanation
The size of the modules required dependency does not match the size of the dependency in the module that contains the dependency.

Action
No action required.

HHCHD012E

HHCHD012E No depency section in *module*: *error*

Explanation
The module being loaded does not contain the required dependency section. The error is described by *error*.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.

HHCHD013E

HHCHD013E No depency section in *module*: *error*

Explanation
The module being loaded does not contain the required dependency section. The error is described by *error*.

Action
Rebuild the module with the required HDL_DEPENDENCY_SECTION defined.

HHCHD014E

HHCHD014E Dependency check failed for module *module*

Explanation
One or more required dependencies were not satisfied. The preceding HHCHD010I and/or HHCHD011I message(s) identifies which of the dependencies failed and the reason why.

Action
If the module was not loaded, rebuild the module using the same version of the required dependency as the module that contains the dependency and try again.

HHCHD015E

HHCHD015E Unloading of *module* not allowed

Explanation
An attempt was made to unload a module that was not allowed to be unloaded.

Action
No action required.

HHCHD018I

HHCHD018I Loadable module directory is *dir*

Explanation
The default loadable module directory was manually changed to *dir* via either a supplied MODPATH configuration file statement or via the -d command line option.

Action
No action required.

HHCHD100I

HHCHD100I Loading *module* ...

Explanation
Module *module* is being loaded.

Action
No action required.

HHCHD101I

HHCHD101I Module *module* loaded

Explanation
Module *module* has been loaded.

Action
No action required

HHCHD102I

HHCHD102I Unloading *module* ...

Explanation
Module *module* is being unloaded.

Action
No action required

HHCHD103I

HHCHD103I Module *module* unloaded

Explanation
Module *module* has been unloaded.

Action
No action required

58. Messages HHCHEnnns - HETINIT Utility

HHCHEnnns

Messages HHCHEnnns are not yet documented.

59. Messages HHCHGnnns - HETGET Utility

HHCHGnnns

Messages HHCHGnnns are not yet documented.

60. Messages HHCHMnnns - HETMAP Utility

HHCHMnnns

Messages HHCHMnnns are not yet documented.

61. Messages HHCHTnnns - HTTP Server

HHCHT001I

HHCHT001I HTTP listener thread started: tid=*threadid*, pid=*processid*

Explanation
The HTTP server thread to accept and process incoming requests has been started. The thread id is *threadid* and the process id is *processid*.

Action
No action required.

HHCHT002E

HHCHT002E socket: *error*

Explanation
An attempt to obtain a TCP socket to receive HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT003W

HHCHT003W Waiting for port *port* to become free

Explanation
The thread that handles HTTP connection requests is waiting for the TCP port denoted by *port* to become available for use.

Action
If this message persists, some other program has control of the TCP port listed. Find out which one it is and terminate it.

HHCHT004E

HHCHT004E bind: *error*

Explanation
An attempt to bind the socket to the TCP port to receive HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT005E

HHCHT005E listen: *error*

Explanation
An attempt to put the socket into listening state for HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT006I

HHCHT006I Waiting for HTTP requests on port *port* **pid=***num*

Explanation
Hercules is ready to accept HTTP requests on port *port*.

Action
No action required.

HHCHT007E

HHCHT007E select: *error*

Explanation
An attempt to wait for data from HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT008E

HHCHT008E accept: *error*

Explanation
An attempt to accept a TCP connection for HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT009E

HHCHT009E fdopen: *error*

Explanation
An attempt to open the socket for reading HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT010E

HHCHT010E http_request create_thread: *error*

Explanation
An attempt to create a thread for processing HTTP requests failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCHT011E

HHCHT011E html_include: Cannot open *filename***:** *error*

Explanation
The file named *filename*, which was included from another file, could not be opened. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCHT014I

HHCHT014I HTTPROOT = pathname

Explanation
The root directory path for the HTTP server is `pathname`.

Action
No action required.

62. Messages HHCHUnnns - HETUPD Utility

HHCHUnnns

Messages HHCHUnnns are not yet documented.

63. Messages HHCIFnnns - Network Interface Configuration Handler (hercifc)

HHCIF001E

HHCIF001E *programname*: **Must be called from within Hercules.**

Explanation
This program can only be called from Hercules itself and may not be executed from the command line. The program was executed using the name *programname*.

Action
Don't do that.

HHCIF002E

HHCIF002E *programname*: **Cannot obtain socket:** *error*

Explanation
An attempt to obtain a socket for controlling the destination interface failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.

HHCIF003E

HHCIF003E *programname*: **I/O error on read:** *error*

Explanation
An attempt to read a request from Hercules failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.

HHCIF004W

HHCIF004W *programname*: **Unknown request:** *request*.

Explanation
The request from Hercules was invalid. The request code was *request*. The request has been ignored. The program was executed using the name *programname*.

Action
Make sure that the hercifc program is the same version as the running copy of Hercules. If so, this is an internal error. Report it.

HHCIF005E

HHCIF005E *programname*: **ioctl error doing** *operation* **on** *interface*: *error*

Explanation
An attempt to perform an ioctl operation *operation* on interface *interface* failed. The error is described by *error*. The program was executed using the name *programname*.

Action
Correct the error and retry the operation.

64. Messages HHCINnnns - Hercules Initialization

HHCIN001S

HHCIN001S Cannot register SIGINT handler: *error*

Explanation
An attempt to register a handler for the SIGINT signal failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN002E

HHCIN002E Cannot suppress SIGPIPE signal: *error*

Explanation
An attempt to ignore the SIGPIPE signal failed. The error is described by *error*. This will cause Hercules to terminate abnormally if a printer device is defined to a pipe and that pipe is closed while data is being written to it.

Action
Correct the error and restart Hercules. Do not print to a pipe until you have corrected the error.

HHCIN003S

HHCIN003S Cannot register SIGILL/FPE/SEGV/BUS/USR handler: *error*

Explanation
An attempt to register a handler for one of the listed signals failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN004S

HHCIN004S Cannot create watchdog thread: *error*

Explanation
An attempt to create the watchdog thread to monitor Hercules execution failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN005S

HHCIN005S Cannot create http_server thread: *error*

Explanation
An attempt to create the HTTP server thread failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN006S

HHCIN006S Cannot create panel thread: *error*

Explanation
An attempt to create the operator control panel thread failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN007S

HHCIN007S Cannot create *devnum* connection thread: *error*

Explanation
The shared device server was unable to create the thread meant to manage remote device *devnum*. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCIN008S

HHCIN008S DYNGUI.DLL load failed; Hercules terminated.

Explanation
The external GUI interface module 'dyngui.dll' could not loaded. The preceding HHCHD007E message should provide the reason for the failure.

Action
Correct the error and restart Hercules. If the error is Win32 error 126 ("The specified module could not be found"), check your Windows PATH setting and/or your MODPATH control statement to ensure one or both of them includes the directory where Hercules is executing from.

HHCIN099I

HHCIN099I Hercules terminated

Explanation
Hercules has ended.

Action
No action required.

65. Messages HHCLCnnns - LCS Emulation

HHCLC001E

HHCLC001E *nnnn* unable to allocate LCSBLK

Explanation
There is insufficient storage to allocate the control block for LCS device number *nnnn*.

Action
Correct the error and restart Hercules.

HHCLC017E

HHCLC017E *nnnn* invalid device name *devname*

Explanation
The value of the -n or -dev parameter in the configuration statement for LCS device number *nnnn* is missing or too long.

Action
Correct the parameter and reinitialize the device.

HHCLC018E

HHCLC018E *nnnn* invalid MAC address *macaddr*

Explanation
The value of the -m or -mac parameter in the configuration statement for LCS device number *nnnn* is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC019E

HHCLC019E *nnnn* too many arguments in statement

Explanation
The configuration statement for LCS device number *nnnn* contains too many positional parameters.

Action
Correct the statement and restart Hercules.

HHCLC020E

HHCLC020E *nnnn* **invalid IP address** *ipaddr*

Explanation
The first positional parameter in the configuration statement for LCS device number *nnnn* is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC021E

HHCLC021E Invalid HWADD statement in *filename: stmt*

Explanation
The port number parameter of the HWADD statement *stmt* in OAT file *filename* is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC022E

HHCLC022E Invalid MAC in HWADD statement in *filename: stmt (macaddr)*

Explanation
The second positional parameter of the HWADD statement *stmt* in OAT file *filename* is not a valid MAC address.

Action
Correct the parameter and reinitialize the device.

HHCLC023E

HHCLC023E Invalid ROUTE statement in *filename: stmt*

Explanation
The port number parameter of the ROUTE statement *stmt* in OAT file *filename* is not numeric.

Action
Correct the statement and reinitialize the device.

HHCLC024E

HHCLC024E Invalid net address in ROUTE *filename: stmt (netaddr)*

Explanation
The second positional parameter of the ROUTE statement *stmt* in OAT file *filename* is not a valid IP network address.

Action
Correct the parameter and reinitialize the device.

HHCLC025E

HHCLC025E Invalid net mask in ROUTE *filename: stmt (netaddr)*

Explanation
The third positional parameter of the ROUTE statement *stmt* in OAT file *filename* is not a valid IP network mask.

Action
Correct the parameter and reinitialize the device.

HHCLC026E

HHCLC026E Error in *filename:* Missing device number or mode

Explanation
The OAT file *filename* contains a statement which cannot be identified.

Action
Correct the statement and reinitialize the device.

HHCLC027E

HHCLC027E Error in *filename: devnum:* Invalid device number

Explanation
The device number *devnum* specified in the OAT file *filename* is not a valid hexadecimal number.

Action
Correct the statement and reinitialize the device.

HHCLC028E

HHCLC028E Error in *filename: stmt:* Missing PORT number

Explanation
Statement *stmt* in OAT file *filename* for the IP port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC029E

HHCLC029E Error in *filename: port:* Invalid PORT number

Explanation
The port number *port* specified in the OAT file *filename* for the IP port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.

HHCLC031E

HHCLC031E Error in *filename: stmt:* Invalid entry starting at *text*

Explanation
The parameter *text* specified in statement *stmt* in the OAT file *filename* should be PRI, SEC, or NO.

Action
Correct the statement and reinitialize the device.

HHCLC032E

HHCLC032E Error in *filename: stmt:* Invalid IP address (ipaddr)

Explanation
The parameter *ipaddr* specified in statement *stmt* in the OAT file *filename* is not a valid IP address.

Action
Correct the statement and reinitialize the device.

HHCLC033E

HHCLC033E Error in *filename: stmt:* Missing PORT number

Explanation
Statement *stmt* in OAT file *filename* for the SNA port of an LCS device does not contain a port number.

Action
Correct the statement and reinitialize the device.

HHCLC034E

HHCLC034E Error in *filename: port:* Invalid PORT number

Explanation
The port number *port* specified in the OAT file *filename* for the SNA port of an LCS device is not a valid decimal number.

Action
Correct the statement and reinitialize the device.

HHCLC035E

HHCLC035E Error in *filename: stmt:* SNA does not accept any arguments

Explanation
Statement *stmt* in OAT file *filename* for the SNA port of an LCS device contains positional parameters which are not used for SNA ports.

Action
Correct the statement and reinitialize the device.

HHCLC036E

HHCLC036E Error in *filename: mode:* Invalid MODE

Explanation
Mode *mode* specified in a device statement in the OAT file *filename* should be IP or SNA.

Action
Correct the statement and reinitialize the device.

HHCLC037E

HHCLC037E Error reading file *filename* line *nnnn: description*

Explanation
An error occurred reading the OAT file for an LCS device. *description* is the operating system's
description of the error. The error occurred at line *nnnn* of file *filename*.

Action
Check that the correct OAT file name is specified in the configuration file.

HHCLC038E

HHCLC038E File *filename* line *nnnn* is too long

Explanation
An error occurred reading the OAT file for an LCS device. The error occurred at line *nnnn* of file *filename*.
Either the line exceeds 255 characters, or there is no linefeed at the end of the file.

Action
Correct the OAT file.

HHCLC039E

HHCLC039E Cannot open file *filename: description*

Explanation
An error occurred opening the OAT file *filename* for an LCS device. *description* is the operating system's
description of the error.

Action
Check that the correct OAT file name is specified in the configuration file.

HHCLC040E

HHCLC040E *nnnn* LCSDEV *mmmm* not in configuration

Explanation
The device number *mmmm* specified in the OAT file does not match the LCS device number *nnnn* in the
configuration file.

Action

None.

HHCLC055I

HHCLC055I *tapn* **using MAC** *hh:hh:hh:hh:hh:hh*

Explanation

The MAC address assigned the TUN/TAP device *tapn* is *hh:hh:hh:hh:hh:hh*.

Action

None. This is an informational message.

HHCLC056W

HHCLC056W *tapn* **NOT using MAC** *hh:hh:hh:hh:hh:hh*

Explanation

MAC address *hh:hh:hh:hh:hh:hh* was requested in the configuration statement or in the OAT file for an LCS device but the operating system did not accept the request to change the MAC address for TUN/TAP device *tapn*.

Action

The device will use the MAC address shown in the preceding HHCLC055I message.

HHCLC073I

HHCLC073I *nnnn:* **TAP device** *tapn* **opened**

Explanation

LCS device number *nnnn* is now associated with the kernel TUN/TAP device named *tapn*.

Action

None. This is an informational message.

66. Messages HHCLGnnns - System Log Functions

HHCLG001E

HHCLG001E Error redirecting stdout: *error*

Explanation
The stdout stream could not be redirected to the system logger. The error is described by *error*.

HHCLG002E

HHCLG002E Error reading syslog pipe: *error*

Explanation
An error occurred while reading the syslog pipe. The error is described by *error*.

HHCLG003E

HHCLG003E Error writing hardcopy log: *error*

Explanation
The error as indicated by *error* occurred while writing the hardcopy log.

HHCLG004E

HHCLG004E Error duplicating stderr: *error*

Explanation
Stdout could not be redirected to stderr. The error is described by *error*.

HHCLG005E

HHCLG005E Error duplicating stdout: *error*

Explanation
Stderr could not be redirected to stdout. The error is described by *error*.

HHCLG006E

HHCLG006E Duplicate error redirecting hardcopy log: *error*

Explanation
The error described by *error* occurred whilst redirecting the hardcopy log.

HHCLG007S

HHCLG007S Hardcopy log fdopen failed: *error*

Explanation
An attempt to open a stream for the hardcopy log failed. The error is described by *error*.

HHCLG008S

HHCLG008S logbuffer malloc failed: *error*

Explanation
An instorage buffer for the system log could not be obtained. The error is described by *error*.

HHCLG009S

HHCLG009S Syslog message pipe creation failed: *error*

Explanation
An attempt to create the pipe for the system logger failed. The error is described by *error*.

Action
Check that your firewall is not preventing Hercules from opening a listening pipe.

HHCLG012E

HHCLG012E Cannot create logger thread: *error*

Explanation
An attempt to create the logger thread failed. *Error* is the description of the error code returned by the pthread_create call.

Action
If the error is "No error" ensure that Hercules has been correctly linked with the pthread library.

HHCLG014E

HHCLG014E Log not active

Explanation
A *log off* command was issued but there was no active log file.

Action
None.

HHCLG015I

HHCLG015I Log closed

Explanation
The active log file has been closed as a result of a *log off* command.

Action
None. This is an informational message.

HHCLG016E

HHCLG016E Error opening log file *filename: error*

Explanation
The new log file requested by a *log* command could not be opened. *error* is the description of the error code returned by the open call.

Action
Reissue the *log* command with the correct filename.

HHCLG017S

HHCLG017S Log file fdopen failed for *filename: error*

Explanation
The logger was unable to obtain the file descriptor for the new log file requested by a *log* command. *error* is the description of the error code returned by the fdopen call.

Action
Reissue the *log* command with the correct filename.

HHCLG018I

HHCLG018I Log switched to *filename*

Explanation
As a result of a *log* command the logger is now writing to the requested log file.

Action
None. This is an informational message.

67. Messages HHCPNnnns - Control Panel Command Messages

HHCPN001I

HHCPN001I Control panel thread started: tid=*threadid*, pid=*processid*

Explanation
The control panel thread has been started. Its thread id is *threadid* and its process id is *processid*.

Action
No action required.

HHCPN002S

HHCPN002S Cannot obtain keyboard buffer: *error*

Explanation
An attempt to obtain memory for the keyboard buffer, used to hold operator input, failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCPN003S

HHCPN003S Cannot obtain message buffer: *error*

Explanation
An attempt to obtain memory for the message buffer, used to hold operator output, failed. The error is described by *error*.

Action
Correct the error and restart Hercules.

HHCPN004E

HHCPN004E select: *error*

Explanation
An error was encountered while waiting for input from the console. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPN005E

HHCPN005E keyboard read: *error*

Explanation
An error was encountered while attempting to read keyboard input. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPN006E

HHCPN006E message pipe read: *error*

Explanation
An error was encountered while attempting to read from the pipe used to communicate to the control panel thread from the rest of Hercules. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPN007E

HHCPN007E RC file *filename* **open failed:** *error*

Explanation
The RC file containing commands to be executed at Hercules startup, named *filename*, could not be opened. The error is described by *error*.

Action
Correct the error and restart Hercules if necessary. The commands contained in the file may be issued manually.

HHCPN008I

HHCPN008I RC file processing thread started using file *filename*

Explanation
Processing of the commands contained in the file named *filename* has begun.

Action
No action required.

HHCPN009E

HHCPN009E RC file buffer malloc failed: *error*

Explanation
An attempt to obtain storage for the buffer for commands being read from the startup command file failed. The error is described by *error*.

Action
Correct the error and restart Hercules, if needed. The comands contained in the file may be issued manually.

HHCPN010W

HHCPN010W Ignoring invalid RC file pause statement: *argument*

Explanation
The argument *argument* on the pause statement in the startup command file is invalid. It must be a decimal number between 0 and 999. Processing will continue without any pause.

Action
Correct the invalid argument and restart Hercules, if desired.

HHCPN011I

HHCPN011I Pausing RC file processing for *delay* seconds...

Explanation
Processing of the startup command file is being delayed for *delay* seconds because of a pause statement in the file.

Action
No action required.

HHCPN012I

HHCPN012I Resuming RC file processing...

Explanation
Processing of the startup command file has resumed at the expiration of the delay interval.

Action
No action required.

HHCPN013I

HHCPN013I EOF reached on RC file. Processing complete.

Explanation
The end of the startup command file has been reached and processing of the file is complete.

Action
No action required.

HHCPN014E

HHCPN014E I/O error reading RC file: *error*

Explanation
An error was encountered while reading a command from the startup command file. The error is described by *error*. Any remaining commands in the file will not be processed.

Action
Correct the error and restart Hercules if desired. Any unprocessed commands may be issued manually.

HHCPN052E

HHCPN052E Target CPU *nnnn* **type** *cputype* **does not allow ipl**

Explanation
An IPL command was issued but the target CPU *nnnn* is a processor engine of type *cputype* which does not support the initial program load procedure.

Action
Use the CPU command to set the target CPU to a processor of type CP, IFL, or ICF, then re-issue the IPL command.

HHCPN162I

HHCPN162I Hercules instruction trace displayed in { regsfirst | noregs | traditional } mode

Explanation
This message shows the current setting of the traceopt mode.

Action
None. This is an informational message.

HHCPN180E

HHCPN180E 'sh' commands are disabled

Explanation
The 'sh' (shell) command has been purposely disabled via a SHCMDOPT configuration file statement. Shell commands entered via the Hercules hardware console will not be processed.

Action
Remove or modify the SHCMDOPT configuration file statement and restart Hercules.

HHCPN181E

HHCPN181E Device number s:CCUU not found

Explanation
The device number "CCUU" on Logical Channel Subsystem "s" was not found in the configuration.

Action
Reissue the command with an existing device number.

HHCPN195I

HHCPN195I Log options: *val*

Explanation
This message displays the current logging options. It is issued when the LOGOPT command is entered without operands. *val* is TIMESTAMP or NOTIMESTAMP.

Action
None. This is an informational message.

HHCPN196E

HHCPN196E Invalid logopt value *val*

Explanation
This message is issued when the operand of a LOPGOPT command is an invalid value. Valid values for *val* are TIMESTAMP or NOTIMESTAMP.

Action
Reenter the LOGOPT command with a valid operand.

HHCPN197I

HHCPN197I Log option set: *val*

Explanation
As the result of the LOGOPT command, the Hercules logging option *val* has been set. *val* is TIMESTAMP or NOTIMESTAMP.

Action
None. This is an informational message.

68. Messages HHCPRnnns - Printer Emulation

HHCPR001E

HHCPR001E File name missing or invalid for printer *address*

Explanation
There was no file name specified for the printer at address *address*, or else there was one specified but it was too long.

Action
Correct the error in the Hercules configuration file. The device may be made available by specifying a filename with the devinit command.

HHCPR002E

HHCPR002E Invalid argument for printer *address*: *argument*

Explanation
An invalid argument was specified on the definition of the printer at address *address*.

Action
Correct or remove the invalid argument.

HHCPR003E

HHCPR003E *address* Error writing to *filename*: *error*

Explanation
An error was encountered when writing output for the printer at address *address* to the file named *filename*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR004E

HHCPR004E Error opening file *filename*: *error*

Explanation
An error was encountered when opening the file named *filename*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR005E

HHCPR005E *address* **device initialization error: pipe:** *error*

Explanation
An error was encountered when opening a pipe for the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR006E

HHCPR006E *address* **device initialization error: fork:** *error*

Explanation
An error was encountered when starting the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR007I

HHCPR007I pipe receiver (pid=*processid***) starting for** *address*

Explanation
The program to process the output from the printer at address *address* is starting. Its process id is *processid*.

Action
No action required.

HHCPR008E

HHCPR008E *address* **dup2 error:** *error*

Explanation
The file descriptor for stdin could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR009E

HHCPR009E *address* **dup2 error:** *error*

Explanation
The file descriptor for stdout could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR010E

HHCPR010E *address* **dup2 error:** *error*

Explanation
The file descriptor for stderr could not be duplicated for the program to process the output from the printer at address *address*. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPR011I

HHCPR011I pipe receiver (pid=*processid***) terminating for** *address*

Explanation
The program to process the output from the printer at address *address* has ended sucessfully. Its process id was *processid*.

Action
No action required.

HHCPR012E

HHCPR012E *address* **Unable to execute** *program***:** *error*

Explanation
The program named *program* to process the output from the printer at address *address* could not be started. The error is described by *error*.

Action
Correct the error and retry the operation.

69. Messages HHCPUnnns - Card Punch Emulation

HHCPU001E

HHCPU001E File name missing or invalid

Explanation
The file name specified for punched output is invalid or no file name is given.

Action
Correct the error and retry the operation.

HHCPU002E

HHCPU002E Invalid argument: *argument*

Explanation
An invalid argument *argument* was specified for the card punch. Valid arguments are ascii, ebcdic, and crlf.

Action
Correct the invalid argument and retry the operation.

HHCPU003E

HHCPU003E Error opening file *filename*: *error*

Explanation
The file named *filename* could not be opened for output of card punch data. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCPU004E

HHCPU004E Error writing to *filename*: *error*

Explanation
The file named *filename* encountered an error while writing card punch data. The error is described by *error*.

Action
Correct the error and retry the operation.

70. Messages HHCRDnnns - Card Reader Emulation

HHCRD001E

HHCRD001E Out of memory

Explanation
A request to allocate memory for the list of files to be read failed.

Action
Correct the error and retry the operation.

HHCRD002E

HHCRD002E File name too long (max=*max*): "*filename*"

Explanation
The file name specified by *filename* is too long. The maximum length is *max*.

Action
Specify a shorter name.

HHCRD003E

HHCRD003E Unable to access file "*filename*": *error*

Explanation
The file specified by *filename* could not be accessed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCRD004E

HHCRD004E Out of memory

Explanation
A request to allocate memory for the list of files to be read failed.

Action
Correct the error and retry the operation.

HHCRD005E

HHCRD005E Specify 'ascii' or 'ebcdic' (or neither) but not both

Explanation
Both of the character set translation options ascii and ebcdic were specified. At most one is allowed.

Action
Select only one character set translation option.

HHCRD006E

HHCRD006E Only one filename (sock_spec) allowed for socket devices

Explanation
More than one filename argument was given for a socket card reader device. Only one is allowed. This error can also result if an option name is misspelled.

Action
Remove the extraneous filenames or correct the misspelled options.

HHCRD007I

HHCRD007I Defaulting to 'ascii' for socket device *address*

Explanation
The socket card reader device at address *address* has been set to ASCII mode since neither translation option was specified. The socket card reader device cannot automatically select the translation option.

Action
If you wish to read cards without translation from ASCII to EBCDIC, you must specify the ebcdic option on the reader definition.

HHCRD008W

HHCRD008W 'multifile' option ignored: only one file specified

Explanation
Only one file was specified for input to the card reader and the multifile option was specified. This option is Explanationless with only one input file. The option has been ignored.

Action
If you wish to read more than one input file without signalling end-of-file or intervention required between them, then all files must all be specified on the same reader definition. If you only wish to process one file, omit the multifile option.

HHCRD009E

HHCRD009E File name too long (max=*max*): "*filename*"

Explanation
The file name specified by *filename* is too long. The maximum length is *max*.

Action
Specify a shorter name.

HHCRD010E

HHCRD010E Unable to access file "*filename*": *error*

Explanation
The file specified by *filename* could not be accessed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCRD011E

HHCRD011E Close error on file "*filename*": *error*

Explanation
An attempt to close the file specified by *filename* failed. The error is described by *error*.

Action
Correct the error and retry the operation.

HHCRD012I

HHCRD012I *ipaddr* (*hostname*) disconnected from device *address* (*socketspec*)

Explanation
The client on the host named *hostname*, with the IP address *ipaddr*, has disconnected from the socket card reader device at address *address*, specified by *socketspec*.

Action
No action required.

HHCRD013E

HHCRD013E Error opening file *filename*: *error*

Explanation
The file named *filename* could not be opened for reading. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCRD014E

HHCRD014E Error reading file *filename*: *error*

Explanation

An error was encountered while attempting to read the first 160 bytes of the file named *filename* in order to determine its character set. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCRD015E

HHCRD015E Seek error in file *filename*: *error*

Explanation

An error was encountered while attempting to return to the beginnning of file named *filename* after determining its character set. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCRD016E

HHCRD016E Error reading file *filename*: *error*

Explanation

An error was encountered while attempting to read an EBCDIC card image from the file named *filename*. The error is described by *error*.

Action

Correct the error and retry the operation.

HHCRD017E

HHCRD017E Unexpected end of file on *filename*

Explanation

Too few characters were read from the file named *filename*. The autopad option was not specified.

Action

Either ensure that all records in the file are 80 bytes long, or specify the autopad option on the reader definition.

HHCRD018E

HHCRD018E Error reading file *filename*: *error*

Explanation
An error was encountered while attempting to read an ASCII card image from the file named *filename*.
The error is described by *error*.

Action
Correct the error and retry the operation.

HHCRD019E

HHCRD019E Card image exceeds *size* bytes in file *filename*

Explanation
A line in the file named *filename* is too long to fit on one card. The trunc option was not specified. The
maximum length is *size* bytes.

Action
Either ensure that all lines in the file are less than *size* bytes long or specify the trunc option on the reader
definition.

71. Messages HHCSDnnns - Socket Devices Common Functions

HHCSDnnns

Messages HHCSDnnns are not yet documented.

72. Messages HHCTAnnns - Tape Device Emulation

HHCTAnnns

Messages HHCTAnnns are not yet documented.

73. Messages HHCTCnnns - TAPECOPY Utility

HHCTCnnns

Messages HHCTCnnns are not yet documented.

74. Messages HHCTEnnns - Terminal Emulation

HHCTE001I

HHCTE001I Console connection thread started: tid=*threadid*, pid=*processid*

Explanation
The thread that handles connection requests from console devices has been started.

Action
No action required.

HHCTE002W

HHCTE002W Waiting for port *port* to become free

Explanation
The thread that handles connection requests from console devices is waiting for the TCP port denoted by *port* to become available for use.

Action
If this message persists, some other program has control of the TCP port listed. Determine the program involved and terminate it.

HHCTE003I

HHCTE003I Waiting for console connection on port *port* pid=*num*

Explanation
Hercules is ready to accept console connections on port *port*.

Action
No action required.

HHCTE004I

HHCTE004I Console connection thread terminated

Explanation
The thread that handles connection requests from console devices has been terminated.

Action
No action required.

HHCTE005E

HHCTE005E Cannot create console thread: *reason*

Explanation
The thread that handles connection requests from console devices could not be started. The reason is shown as *reason*.

Action
Correct the reason listed and restart Hercules.

HHCTE006A

HHCTE006A Enter input for console device *address*

Explanation
The 1052 console device at *address* is waiting for input.

Action
Type the desired input for the console and press the ENTER key. If you do not wish to get this message when input is requested, define the console with the option noprompt.

HHCTE007I

HHCTE007I Device *address* **closed by client** *ipaddr*

Explanation
The client at IP address *ipaddr* that was connected to the 3270 console at address *address* has closed the connection. The device is no longer available for use.

Action
No action required.

HHCTE008I

HHCTE008I Device *address* **closed by client** *ipaddr*

Explanation
The client at IP address *ipaddr* that was connected to the 1052 console at address *address* has closed the connection. The device is no longer available for use.

Action
No action required.

HHCTE009I

HHCTE009I Client *ipaddr* connected to *type* device *address*

Explanation
The client at IP address *ipaddr* has connected to Hercules as a *type* device and is now available at address *address.*

Action
No action required.

HHCTE010E

HHCTE010E CNSLPORT statement invalid: *statement*

Explanation
The CNSLPORT statement in the Hercules configuration file is invalid.

Action
Correct the CNLSPORT statement in the configuration file and restart Hercules.

HHCTE011E

HHCTE011E Device *devn*: Invalid IP address: *ipaddr*

Explanation
The IP address *ipaddr* is invalid.

Action
Correct the IP address in the configuration file and restart Hercules.

HHCTE012E

HHCTE012E Device *devn*: Invalid mask value: *ipmask*

Explanation
The mask value ipmask is invalid.

Action
Correct the mask value in the configuration file and restart Hercules.

HHCTE013E

HHCTE013E Device *devn*: Extraneous argument(s): *xxx...*

Explanation
The argument(s) *xxx* and any which follow it (if any) was not recognized or understood and are thus invalid.

Action
Correct the arguments in the configuration file and restart Hercules.

HHCTE014I

HHCTE014I *type* device *devn* disconnected.

Explanation
The client connected to device $devn$ has abruptly terminated the connection (ECONNRESET).

Action
No action required.

HHCTE017E

HHCTE017E Device *devn*: Duplicate SYSG console definition.

Explanation
Device number *devn* has been defined as an integrated 3270 (SYSG) console, but a SYSG console already exists. Only one SYSG console can be defined per system.

Action
Correct the statement in the configuration file and restart Hercules.

75. Messages HHCTMnnns - TAPEMAP Utility

HHCTMnnns

Messages HHCTMnnns are not yet documented.

76. Messages HHCTSnnns - TAPESPLT Utility

HHCTSnnns

Messages HHCTSnnns are not yet documented.

77. Messages HHCTTnnns - TOD Clock and Timer Services

HHCTT001W

HHCTT001W Timer thread set priority *priority* failed: *error*

Explanation
An attempt to change the priority of the timer thread to *priority* failed. The error is described by *error*. The thread priority has not been changed. Hercules overall performance may be impaired as a result.

Action
If performance problems are noted, correct the error and restart Hercules.

HHCTT002I

HHCTT002I Timer thread started: tid=*threadid*, pid=*processid*, priority=*priority*

Explanation
The thread for timing functions has been started. Its thread id is *threadid*, its process id is *processid* and the thread priority is *priority*.

Action
No action required.

HHCTT003I

HHCTT003I Timer thread ended

Explanation
The thread for timing functions has ended.

Action
No action required.

78. Messages HHCTUnnns - TUN / TAP Driver Support

HHCTUnnns

Messages HHCTUnnns are not yet documented.

79. Messages HHCVMnnns - VM / CP Emulation

HHCVM001I

HHCVM001I **panel_command*** panel command Module guest**

Explanation
The guest operating system has issued a DIAGNOSE 8 instruction to perform the *panel_command* panel command to be carried out by the Hercules panel command processor

System Action
The Hercules panel command processor carries out the command if possible.

Operator Action
None. This is an informational message.

Programmer Action
No action is requested if this behaviour is expected. If this behaviour poses a security concern, the *DIAG8CMD* configuration statement should either be ommited or specified with the *disabled* argument.

HHCVM002I

HHCVM002I **panel_command*** command complete**

Explanation
The *panel_command*panel command has been carried out by the panel command processor. Note that this message only appears if the guest issued diagnose 8 instruction specified that it did not request the command response to be placed in a supplied buffer.

System Action
The system continues

Operator Action
None. This is an informational message

Programmer Action
None. This is an informational message

HHCVM003I

HHCVM003I Host command processing disabled by configuration statement

Explanation
The guest operating system attempted using the DIAGNOSE 8 Instruction to carry out a panel command, but the system configuration disabled this feature (with the *DIAG8CMD* configuration statement)

System Action
The panel command is ignored.

Operator Action
None. This is an informational message.

Programmer Action
If it is deemed necessary for the guest operating system to issue DIAGNOSE 8 commands to issue panel commands, the *DIAG8CMD* with the *enable* argument should be specified in the configuration file.

HHCVM004E

HHCVM004E Host command processing not included in engine build

Explanation
The Hercules engine has been built without Diagnose 8 panel command facility support

System Action
The panel command is not issued. The system continues.

Operator Action
None.

Programmer Action
If it is desired that DIAGNOSE 8 Instruction be carried out as panel commands, the facility should be included in the build process. Additionally, the *DIAG8CMD* configuration statement should be specified with the *enable* parameter.

Appendix A. Message Index (New → Old)

The following list shows each Hercules message ID in the new message format followed by the related message ID in the old message format. There are five possible cases for the index entries.

A.1 Replacement

This is the normal case, where a new message ID replaces exactly one old message ID.

Example:

```
HHC01303I – HHCCP064I
```

The new message "HHC01303I" replaces the old message "HHCCP064I".

A.2 New message

New messages, that have not existed before, have no related old message ID.

Example:

```
HHC00069I – none
```

Message "HHC00069I" is a new message that did not exist before.

A3. Removed message

Old messages that have been deleted do not have a relaed new message ID.

Example:

```
None – HHCPR019E
```

Message "HHCPR019E" is an old message that has been deleted and therefore has no new message ID.

A.4 Consolidation

There are cases where one new message ID replaces several old message IDs. This can happen, if there have been several old messages that had the same or a similar message text, but different message IDs. These messages have now been consolidated under one new message ID.

Example:

```
HHC02209E – HHCPN017E
HHC02209E – HHCPN024E
HHC02209E – HHCPN034E
```

The old messages "HHCPN017E", "HHCPN024E" and "HHCPN034E" have been consolidated and replaced through the new message "HHC02209E".

A.5 Split

In some rare cases an old message has been split into two or more new messages.

Example:

```
HHC02235E – HHCPN053E

HHC02236E – HHCPN053E
```

The old message with ID "HHCPN053E" has been split into two new messages with IDs "HHC02235E" and "HHC02236E".

A.5 Message Index (New → Old)

```
HHC00001I – none          HHC00016E – none          HHC00085E – HHCAO024E

HHC00002E – HHCCP036E     HHC00017I – none          HHC00086I – HHCAO025I

HHC00002E – HHCCP037E     HHC00018I – none          HHC00087I – HHCAO005I

HHC00002E – HHCCP081E     HHC00018W – none          HHC00088I – HHCAO005I

HHC00003E – HHCCP038E     HHC00069I – none          HHC00089I – HHCAO006I

HHC00004I – HHC770I       HHC00070E – HHCAO007E

HHC00004I – HHC771I       HHC00071E – HHCAO010E     *********************

HHC00004I – HHC772I       HHC00071E – HHCAO017E

HHC00004I – HHC773I       HHC00072E – HHCAO011E     HHC00100I – HHCAO001I

HHC00004I – HHC774I       HHC00072E – HHCAO017E     HHC00100I – HHCCA002I

HHC00004I – HHCCP040I     HHC00073E – HHCAO012E     HHC00100I – HHCCD001I

HHC00005W – HHCCP909W     HHC00073E – HHCAO018E     HHC00100I – HHCCD002I

HHC00006I – HHCCP041I     HHC00074E – HHCAO013E     HHC00100I – HHCCD003I

HHC00006I – HHCCP042I     HHC00075E – HHCAO014E     HHC00100I – HHCCF065I

HHC00007I – none          HHC00075E – HHCAO015E     HHC00100I – HHCCP002I

HHC00008I – none          HHC00075E – HHCAO015E     HHC00100I – HHCCT002I

HHC00009I – none          HHC00075E – HHCMS001E     HHC00100I – HHCHT001I

HHC00010A – HHC1C001A     HHC00076E – HHCAO021E     HHC00100I – HHCPN001I

HHC00011E – HHCCH001E     HHC00077I – HHCAO016I     HHC00100I – HHCSD020I

HHC00011E – HHCCH002W     HHC00078E – HHCAO026E     HHC00100I – HHCSH045I

HHC00011E – HHCCH003W     HHC00079E – HHCAO008E     HHC00100I – HHCSH049I

HHC00011E – HHCCH004W     HHC00080I – HHCAO022I     HHC00100I – HHCTE001I

HHC00011E – HHCCH006E     HHC00081I – HHCAO003I     HHC00101I – HHCAO002I

HHC00012W – HHCCH005W     HHC00082I – none          HHC00101I – HHCCA009I

HHC00013I – none          HHC00083E – HHCAO023E     HHC00101I – HHCCA009I

HHC00014E – none          HHC00084E – HHCAO009E     HHC00101I – HHCCD011I

HHC00015E – none          HHC00084E – HHCAO009E     HHC00101I – HHCCD012I
```

```
HHC00101I - HHCCD013I        HHC00137E - HHCTU002E        HHC00202E - HHCTA508E

HHC00101I - HHCCP008I        HHC00138E - HHCTU003E        HHC00203E - HHCTA108E

HHC00101I - HHCCT003I        HHC00139E - HHCTU004E        HHC00204E - HHCTA103E

HHC00101I - HHCHT009I        HHC00140E - HHCTU005E        HHC00204E - HHCTA104E

HHC00101I - HHCSD022I        HHC00140E - HHCTU007E        HHC00204E - HHCTA105E

HHC00101I - HHCSH048I        HHC00140E - HHCTU009E        HHC00204E - HHCTA106E

HHC00101I - HHCTE004I        HHC00140E - HHCTU011E        HHC00204E - HHCTA109E

HHC00102E - HHCAO004S        HHC00140E - HHCTU014E        HHC00204E - HHCTA110E

HHC00102E - HHCAO007E        HHC00140E - HHCTU016E        HHC00204E - HHCTA111E

HHC00102E - HHCCA022E        HHC00140E - HHCTU017E        HHC00204E - HHCTA112E

HHC00102E - HHCCF040E        HHC00140E - HHCTU021E        HHC00204E - HHCTA113E

HHC00102E - HHCCP067E        HHC00141E - HHCTU006E        HHC00204E - HHCTA114E

HHC00102E - HHCCP006S        HHC00142E - HHCTU008E        HHC00204E - HHCTA115E

HHC00102E - HHCCP068E        HHC00142E - HHCTU018E        HHC00204E - HHCTA116E

HHC00102E - HHCHT010E        HHC00142E - HHCTU022E        HHC00204E - HHCTA117E

HHC00102E - HHCIN004S        HHC00143E - HHCTU010E        HHC00204E - HHCTA118E

HHC00102E - HHCIN006S        HHC00143E - HHCTU019E        HHC00204E - HHCTA119E

HHC00102E - HHCIN007S        HHC00143E - HHCTU023E        HHC00204E - HHCTA252E

HHC00102E - HHCPR015E        HHC00144E - HHCTU012E        HHC00204E - HHCTA253E

HHC00102E - HHCSD023E        HHC00144E - HHCTU013E        HHC00204E - HHCTA254E

HHC00102E - HHCSH061E        HHC00145E - HHCTU015E        HHC00204E - HHCTA255E

HHC00102E - HHCSR133E        HHC00146E - HHCTU020E        HHC00204E - HHCTA256E

HHC00102E - HHCTA323I        HHC00146E - HHCTU024E        HHC00204E - HHCTA257E

HHC00102E - HHCTE005E        HHC00147I - none            HHC00204E - HHCTA258E

HHC00102E - HHCVM010E        HHC00148I - none            HHC00204E - HHCTA259E

HHC00102S - HHCCP006S        HHC00149I - none            HHC00204E - HHCTA260E

HHC00102S - HHCIN005S        HHC00150I - none            HHC00204E - HHCTA261E

HHC00103I - none             HHC00151I - none            HHC00204E - HHCTA262E

HHC00105E - none             HHC00152E - none            HHC00204E - HHCTA263E

HHC00130W - HHCCF079W        HHC00153E - none            HHC00204E - HHCTA414E

HHC00131A - none             HHC00154E - none            HHC00204E - HHCTA415E

HHC00135E - HHCTU001E        HHC00160I - none            HHC00204E - HHCTA416E

HHC00136E - HHCTU001E        HHC00161E - none            HHC00204E - HHCTA417E

HHC00136E - HHCTU025E                                    HHC00204E - HHCTA418E

HHC00136E - HHCTU026E        *******************         HHC00204E - HHCTA419E

HHC00136E - HHCTU027E                                    HHC00204E - HHCTA420E

HHC00136E - HHCCF064W        HHC00201I - HHCTA101I       HHC00204E - HHCTA421E

HHC00136E - HHCCP001W        HHC00201I - HHCTA501I       HHC00204E - HHCTA503E

HHC00136E - HHCCT001W        HHC00202E - HHCTA107E       HHC00204E - HHCTA504E
```

```
HHC00204E – HHCTA506E       HHC00205E - HHCTA373W       HHC00224I – HHCTA010I

HHC00204E – HHCTA507E       HHC00205E - HHCTA376E       HHC00225E – none

HHC00204E – HHCTA510E       HHC00205E - HHCTA380E       HHC00226I – none

HHC00204E – HHCTA511E       HHC00205E - HHCTA381E       HHC00227I – none

HHC00204E – HHCTA512E       HHC00205E - HHCTA382E       HHC00228I – none

HHC00204E – HHCTA513E       HHC00205E - HHCTA383E       HHC00229I – none

HHC00204E – HHCTA514E       HHC00205E - HHCTA389E       HHC00235I – none

HHC00204E – HHCTA515E       HHC00205E - HHCTA401E       HHC00243W – none

HHC00204E – HHCTA516E       HHC00205E - HHCTA402E

HHC00204E – HHCTA517E       HHC00205E – HHCTA488E       *********************

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HHC00205E - HHCTA002E       HHC00207E - HHCTA247E       HHC00304E – HHCCD102E

HHC00205E - HHCTA090E       HHC00207E - HHCTA248E       HHC00305E – HHCCD110E

HHC00205E - HHCTA092E       HHC00207E - HHCTA249E       HHC00306E – HHCCD121E

HHC00205E - HHCTA102E       HHC00208I - HHCTA430I       HHC00307E – HHCCD122E

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HHC00327E – HHCCD180E   HHC00368W – none   HHC00412E – HHCDA018E

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HHC00466I – none	********************	HHC00715E – HHCSH023E
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	HHC00600E – HHCSC011E	HHC00717E – HHCSH026E
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	HHC00600E – HHCSC031E	HHC00719E – HHCSH028E
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HHC01200E – HHCRD001E          HHC01311I – HHCCP074I          HHC01414I – none
HHC01200E – HHCRD003E          HHC01312I – HHCCP075I          HHC01415I – HHCPN142I
HHC01200E – HHCRD004E          HHC01313I – HHCCP076I          HHC01416I – none
HHC01200E – HHCRD010E          HHC01314I – HHCCP077I          HHC01417I – none
HHC01200E – HHCRD011E          HHC01315I – HHCCP048I          HHC01418E – none
HHC01200E – HHCRD013E          HHC01316I – HHCCP049I          HHC01419E – none
HHC01200E – HHCRD014E          HHC01317I – HHCCP050I          HHC01420I – HHCIN900I
HHC01200E – HHCRD015E          HHC01318I – HHCCP051I          HHC01422I – HHCIN902I
HHC01200E – HHCRD016E          HHC01319I – HHCCP052I          HHC01423I – HHCIN903I
HHC01200E – HHCRD017E          HHC01329I – HHCCP053I          HHC01424I – HHCIN904I
HHC01200E – HHCRD018E          HHC01330I – HHCCP054I          HHC01425I – HHCIN909I
HHC01201E – HHCPU001E          HHC01330I – HHCCP055I          HHC01426I – HHCIN998I
HHC01201E – HHCRD002E          HHC01332I – HHCCP056I          HHC01427I – none
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HHC01430S – HHCCF031S   HHC01459I – HHCCF050I   HHC01493I – none

HHC01430S – HHCCF032S   HHC01460E – HHCCF043E

HHC01430S – HHCCF033S   HHC01460E – HHCCF045E   ********************

HHC01430S – HHCCF900S   HHC01461E – HHCCF041E

HHC01431I – HHCCF034W   HHC01461E – HHCCF049E   HHC01500I – HHCHD900I

HHC01432S – HHCCF001S   HHC01462E – HHCCF042E   HHC01501I – HHCHD901I

HHC01432S – HHCCF003S   HHC01463E – HHCCF044E   HHC01502I – HHCHD902I

HHC01433S – HHCCF002S   HHC01464E – HHCCF046E   HHC01504I – HHCHD909I

HHC01435I – HHCCF081I   HHC01464E – HHCCF048E   HHC01505E – HHCHD018I

HHC01436S – HHCCF082S   HHC01465I – HHCCF047I   HHC01506W – none

HHC01437I – HHCCF083I   HHC01466E – HHCCF074E   HHC01507W – none

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HHC01439S – HHCCF085S   HHC01468E – HHCCF076E   HHC01509I – HHCHD010I

HHC01441E – HHCCF008E   HHC01469E – HHCCF077E   HHC01510I – HHCHD011I

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HHC01443S – HHCCF016S   HHC01472E – HHCCF057E   HHC01514I – HHCHD052I

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HHC01443S – HHCCF074S   HHC01481I – none   HHC01523E – HHCHD017E

HHC01443S – HHCCF075S   HHC01482I – none   HHC01524E – HHCHD009E

HHC01447I – HHCCF090I   HHC01483E – none   HHC01525E – none

HHC01448S – HHCCF035S   HHC01484I – none   HHC01526I – HHCHD100I

HHC01451E – none   HHC01485I – none   HHC01527I – HHCHD101I

HHC01452W – none   HHC01486I – none   HHC01528I – HHCHD102I

HHC01453S – none   HHC01487I – none   HHC01529I – HHCHD103I

HHC01454S – none   HHC01488I – none   HHC01530E – none

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HHC01457E – none   HHC01491I – none   HHC01533I – none

HHC01458W – HHCCF078W   HHC01492I – none   HHC01534I – none

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HHC01540I – none              HHC01718E – HHCEV011E         HHC01907I – HHCVM007I
HHC01541I – HHCDG001I         HHC01719I – HHCEV011I         HHC01908E – HHCVM006E
HHC01542I – HHCDG002I         HHC01720E – HHCEV008E         HHC01908E – HHCVM011E
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                              HHC01722I – HHCEV011I         HHC01920I – HHCVM013I
********************          HHC01723W – none              HHC01921I – HHCVM022I
                                                            HHC01922I – HHCVM018I
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HHC01602I – HHCPN140I         ********************          HHC01924I – HHCVM019I
HHC01603I – HHCPN140I                                       HHC01925I – HHCVM019I
HHC01604I – HHCPN142I         HHC01800E – HHCHT002E         HHC01926I – HHCVM017I
HHC01605E – none              HHC01800E – HHCHT004E         HHC01927I – HHCVM009E
HHC01606I – none              HHC01800E – HHCHT005E         HHC01928I – HHCVM015I
HHC01607I – none              HHC01800E – HHCHT007E         HHC01929I – HHCVM020I
HHC01608W – none              HHC01800E – HHCHT008E         HHC01930I – HHCVM016I
HHC01609E – none              HHC01800E – HHCHT011E         HHC01931I – HHCVM020I
HHC01610I – none              HHC01801E – HHCCF066E         HHC01932I – HHCVM020I
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                              HHC01802I – none              HHC01934I – HHCVM014I
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HHC01701I – HHCEV001I         HHC01806W – none              HHC01938E – HHCVM009E
HHC01702I – HHCVE002I         HHC01807I – none              HHC01939I – HHCVM015I
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HHC01704I – HHCEV005I         HHC01809I – none              HHC01941I – HHCVM016I
HHC01705I – HHCEV006I         HHC01810I – none              HHC01942I – HHCVM020I
HHC01706I – none              HHC01811I – none              HHC01943I – HHCVM020I
HHC01707I – HHCEV015I         HHC01812E – none              HHC01944I – HHCVM020I
HHC01708I – HHCEV016I         HHC01813I – none              HHC01945I – HHCVM014I
HHC01709I – HHCEV003I         HHC01814E – none              HHC01950I – HHCVM001I
HHC01710I – HHCEV014I         HHC01815E – none              HHC01950I – HHCVM002I
HHC01711I – HHCEV014I                                       HHC01951W – HHCVM005W
HHC01712I – HHCEV016I                                       HHC01952I – none
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HHC01717I – HHCEV010I         HHC01905I – HHCVM023I         ********************
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HHC02001E – HHCSR010E         HHC02019E – HHCSR016E        HHC02203I – HHCPN053I
HHC02001E – HHCSR011E         HHC02020E – HHCSR001E        HHC02203I – HHCPN056I
HHC02001E – HHCSR012E         HHC02020E – HHCSR013E        HHC02203I – HHCPN060I
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HHC02002W – HHCSR103W                                      HHC02203I – HHCPN162I
HHC02003W – HHCSR104W         ********************          HHC02203I – HHCPN190I
HHC02004E – HHCSR015E                                      HHC02203I – HHCPN195I
HHC02005E – HHCSR103E         HHC02100E – HHCLG014E        HHC02203I – HHCPN210I
HHC02006E – HHCSR104E         HHC02101I – HHCLG015I        HHC02203I – HHCPN212I
HHC02007I – HHCSR001I         HHC02102E – HHCLG016E        HHC02203I – HHCPN216I
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HHC02009E – HHCSR106E         HHC02103I – none             HHC02204I – HHCPN030I
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HHC02009E – HHCSR108E         HHC02105I – none             HHC02204I – HHCPN037I
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HHC02010E – HHCSR113E         ********************          HHC02204I – HHCPN136I
HHC02011E – HHCSR114E                                      HHC02204I – HHCPN137I
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HHC02013E – HHCSR116E         HHC02201E – HHCPN031E        HHC02204I – HHCPN197I
HHC02014E – HHCSR117E         HHC02201E – HHCPN054E        HHC02205E – HHCPN029E
HHC02015E – HHCSR118E         HHC02201E – HHCPN057E        HHC02205E – HHCPN039E
HHC02016E – HHCSR132E         HHC02201E – HHCPN058E        HHC02205E – HHCPN055E
HHC02016W – HHCSR119W         HHC02202E – HHCPN062E        HHC02205E – HHCPN059E
HHC02017E – HHCSR120E         HHC02202E – HHCPN093E        HHC02205E – HHCPN060S
HHC02017E – HHCSR121E         HHC02202E – HHCPN099E        HHC02205E – HHCPN066E
HHC02017E – HHCSR122E         HHC02202E – HHCPN108E        HHC02205E – HHCPN067E
HHC02017E – HHCSR123E         HHC02202E – HHCPN114E        HHC02205E – HHCPN075E
HHC02017E – HHCSR124E         HHC02202E – HHCPN188E        HHC02205E – HHCPN077E
HHC02017E – HHCSR125E         HHC02202E – HHCPN200E        HHC02205E – HHCPN087E
HHC02017E – HHCSR126E         HHC02202E – HHCPN201E        HHC02205E – HHCPN089E
HHC02017E – HHCSR127E         HHC02202E – HHCPN204E        HHC02205E – HHCPN091E
HHC02017E – HHCSR128E         HHC02202E – HHCPN213E        HHC02205E – HHCPN100E
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HHC02205E – HHCPN143E        HHC02216E – HHCPN217E        HHC02236E – HHCPN053E

HHC02205E – HHCPN144E        HHC02217I – HHCPN203I        HHC02237W – HHCPN147W

HHC02205E – HHCPN145E        HHC02218E – HHCPN205E        HHC02238E – HHCPN182E

HHC02205E – HHCPN162E        HHC02219E – HHCPN007E        HHC02239I – HHCPN072I

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HHC02205E – HHCPN187E        HHC02219E – HHCPN106E        HHC02243E – HHCPN083E

HHC02205E – HHCPN192E        HHC02219E – HHCPN107E        HHC02244E – HHCPN097E

HHC02205E – HHCPN196E        HHC02219E – HHCPN109E        HHC02245I – HHCPN098I

HHC02205E – HHCPN207E        HHC02219E – HHCPN118E        HHC02246E – HHCPN148E

HHC02205E – HHCPN208E        HHC02219E – HHCPN119E        HHC02247E – HHCPN102E

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HHC02205S – HHCCF052S        HHC02219E – HHCUT002I        HHC02249I – HHCPN120I

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HHC02205S – HHCCF066S        HHC02219E – HHCUT004I        HHC02251E – HHCPN116E

HHC02205S – HHCCF067S        HHC02219E – HHCUT005I        HHC02252E – none

HHC02205W – HHCPN103E        HHC02220I – HHCPN214I        HHC02253E – HHCPN127E

HHC02206I – none             HHC02221E – HHCPN218E        HHC02254I – none

HHC02207I – none             HHC02222E – HHCPN219E        HHC02255I – none

HHC02208I – HHCPN018I        HHC02223I – none             HHC02256W – HHCPN150W

HHC02209E – HHCPN017E        HHC02224E – HHCPN035E        HHC02257I – HHCPN161I

HHC02209E – HHCPN024E        HHC02226I – none             HHC02259E – HHCPN998E

HHC02209E – HHCPN034E        HHC02227E – HHCPN163E        HHC02260I – HHCPN008I

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HHC02211E – none             HHC02228I – HHCPN038I        HHC02262I – HHCPN011I

HHC02212I – none             HHC02228I – HHCPN050I        HHC02263I – HHCPN012I

HHC02213E – HHCPN019E        HHC02229I – HHCPN040I        HHC02264I – HHCPN013I

HHC02213E – HHCPN020E        HHC02230I – HHCPN045I        HHC02265I – HHCPN999I

HHC02213E – HHCPN021E        HHC02231E – HHCPN046E        HHC02266A – none

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HHC02215W – HHCPN026W        HHC02232E – HHCPN047E        HHC02268I – none
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	HHC02416E – none	HHC02465E – none
********************	HHC02417E – none	HHC02465I – none
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HHC02508E – none          HHC02547E – none          HHC02586E – none

HHC02509E – none          HHC02548E – none          HHC02587E – none

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```

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HHC02702I – none             HHC02755I – none          HHC03933W – none
HHC02703E – none             HHC02756E – none          HHC03934W – none
HHC02704I – none             HHC02757I – none          HHC03935W – none
HHC02705E – none                                       HHC03936W – none
HHC02706I – none             ********************       HHC03937W – none
HHC02707E – none                                       HHC03952I – none
HHC02708E – none             HHC02800I - none          HHC03953I – none
HHC02709E – none             HHC02801E - none          HHC03954I – none
HHC02710E – none             HHC02802I - none          HHC03983I – none
HHC02711E – none             HHC02803I - none          HHC03984I – none
HHC02712E – none             HHC02804E - none          HHC03985E – none
HHC02713E – none             HHC02805I - none          HHC03991I – none
HHC02714E – none             HHC02806I - none          HHC03992D – none
HHC02715E – none                                       HHC03993D – none
HHC02716E – none             ********************       HHC03995D – none
HHC02717E – none             HHC03901E – none
HHC02718I – none             HHC03902E – none          ********************
HHC02719I – none             HHC03903I – none
HHC02720E – none             HHC03904I – none          HHC04100I – none
HHC02721I – none             HHC03905I – none          HHC04101I – none
HHC02722I – none             HHC03906I – none          HHC04102E – none
```

```
HHC04110W – HHCCP085W      HHC17524I – none           HHC90300D – none
HHC04111E – HHCCP084E      HHC17525I – none           HHC90301D – none
HHC04111E – HHCCP086E      HHC17526I – none           HHC90302D – none
HHC04111E – HHCCP087E      HHC17527I – none           HHC90303D – none
HHC04111E – HHCCP088E      HHC17530E – none           HHC90304D – none
HHC04111E – HHCCP089E      HHC17531E – none           HHC90305D – none
HHC04112S – none           HHC17532E – none           HHC90306D – none
                           HHC17533E – none           HHC90307D – none
                           HHC17534E – none           HHC90308D – none
********************                                   HHC90309D – none
                           ********************        HHC90310D – none
HHC17000E – none                                      HHC90311D – none
HHC17001I – none                                      HHC90312D – none
HHC17002I – none           HHC90000D – HHCCA300D       HHC90313D – none
HHC17003I – none           HHC90000D – HHCEV300D       HHC90314D – none
HHC17004I – none           HHC90010E – HHCPT002E
HHC17005I – none           HHC90011E – HHCPT001E       HHC90315D – none
HHC17007I – none           HHC90012I – HHCPT003I       HHC90316D – none
HHC17008I – none           HHC90013E – none           HHC90317D – none
HHC17009I – none           HHC90014I – none           HHC90318D – none
HHC17010I – none           HHC90015E – none           HHC90319D – none
HHC17011I – none           HHC90016E – none           HHC90320D – none
HHC17012I – none           HHC90017I – none           HHC90321D – none
HHC17013I – none           HHC90018I – none           HHC90322D – none
HHC17100I – none           HHC90019W – none           HHC90323D – none
HHC17199I – none           HHC90100D – none           HHC90324D – none
HHC17500I – none           HHC90101D – none           HHC90325D – none
HHC17501I – none           HHC90102D – none           HHC90326D – none
HHC17502E – none           HHC90103D – none           HHC90327D – none
HHC17503E – none           HHC90104D – none           HHC90328D – none
HHC17504E – none           HHC90105D – none           HHC90329D – none
HHC17505E – none           HHC90106D – none           HHC90330D – none
HHC17506E – none           HHC90107D – none           HHC90331D – none
HHC17507W – none           HHC90108D – none           HHC90332D – none
HHC17508W – none           HHC90109D – none           HHC90333D – none
HHC17509W – none           HHC90110D – none           HHC90334D – none
HHC17510W – none           HHC90111D – none           HHC90335D – none
HHC17521I – none           HHC90112D – none           HHC90336D – none
HHC17522I – none           HHC90190D – none           HHC90337D – none
HHC17523I – none           HHC90205D - HHCTA382W       HHC90338D – none
```

```
HHC90339D – none          HHC90351D – none          HHC90362D – none

HHC90340D – none          HHC90352D – none          HHC90363D – none

HHC90341D – none          HHC90353D – none          HHC90364D – none

HHC90342D – none          HHC90354D – none

HHC90343D – none          HHC90355D – none          ********************

HHC90344D – none          HHC90356D – none

HHC90345D – none          HHC90357D – none          none – HHCPR001E

HHC90346D – none          HHC90358D – none          none – HHCPR002E

HHC90347D – none          HHC90359D – none          none – HHCPR019E

HHC90349D – none          HHC90360D – none          none – HHCTE006A

HHC90350D – none          HHC90361D – none
```

Appendix B. Message Index (Old → New)

The following list shows each Hercules message ID in the old message format followed by the related message ID in the new message format. There are four possible cases for the index entries.

B.1 Replacement

This is the normal case, where a new message ID replaces exactly one old message ID.

Example:

```
HHCCP064I - HHC01303I
```

The new message "HHC01303I" replaces the old message "HHCCP064I".

B.2 New message

New messages, that have not existed before and have no related old message ID.

Example:

```
none - HHC00069I
```

Message "HHC00069I" is a new message that did not exist before.

B3. Removed message

Old messages, that have been deleted do not have a related new message ID.

Example:

```
HHCPR09E - none
```

Message "HHCPR019E" has been removed.

B.4 Consolidation

There are cases where one new message ID replaces several old message IDs. This can happen, if there have been several old messages that had the same or a similar message text, but different message IDs. These messages have now been consolidated under one new message ID.

Example:

```
HHCPN017E - HHC02209E
HHCPN024E - HHC02209E
HHCPN034E - HHC02209E
```

The old messages "HHCPN017E", "HHCPN024E" and "HHCPN034E" have been consolidated and replaced through the new message "HHC02209E".

B.5 Split

In some rare cases an old message has been split into two or more new messages.

Example:

```
HHCPN053E – HHC02235E
```

```
HHCPN053E – HHC02236E
```

The old message with ID "HHCPN053E" has been split into two new messages with IDs "HHC02235E" and "HHC02236E".

B.5 Message Index (Old → New)

```
HHC1C001A – HHC00010A      HHCAO015E – HHC00075E      HHCCA012E – HHC01019E

HHC770I   – HHC00004I      HHCAO016I – HHC00077I      HHCCA013E – HHC01007E

HHC771I   – HHC00004I      HHCAO017E – HHC00071E      HHCCA014E – HHC01013E

HHC772I   – HHC00004I      HHCAO017E – HHC00072E      HHCCA015E – HHC01008E

HHC773I   – HHC00004I      HHCAO018E – HHC00073E      HHCCA016W – HHC01009W

HHC774I   – HHC00004I      HHCAO021E – HHC00076E      HHCCA017I – HHC01010I

                           HHCAO022I – HHC00080I      HHCCA018E – HHC01000E

********************       HHCAO023E – HHC00083E      HHCCA019E – HHC01015E

                           HHCAO024E – HHC00085E      HHCCA020E – HHC01000E

HHCAO001I – HHC00100I      HHCAO025I – HHC00086I      HHCCA021I – HHC01014I

HHCAO002I – HHC00101I      HHCAO026E – HHC00078E      HHCCA022E – HHC00102E

HHCAO003I – HHC00081I                                 HHCCA300D - HHC01048D

HHCAO004S – HHC00102E      ********************       HHCCA300D - HHC01049D

HHCAO005I – HHC00087I                                 HHCCA300D - HHC01050D

HHCAO005I – HHC00088I      HHCCA001I – HHC01001I      HHCCA300D - HHC01051D

HHCAO006I – HHC00089I      HHCCA002I – HHC00100I      HHCCA300D - HHC01052D

HHCAO007E – HHC00070E      HHCCA003E – HHC01002E      HHCCA300D - HHC01053D

HHCAO007E – HHC00102E      HHCCA004W – HHC01003W      HHCCA300D - HHC01054D

HHCAO008E – HHC00079E      HHCCA005I – HHC01004I      HHCCA300D - HHC01055D

HHCAO009E – HHC00084E      HHCCA006T – HHC01000E      HHCCA300D - HHC01056D

HHCAO009E – HHC00084E      HHCCA007W – HHC01005W      HHCCA300D - HHC01057D

HHCAO010E – HHC00071E      HHCCA008I – HHC01006I      HHCCA300D - HHC01058D

HHCAO011E – HHC00072E      HHCCA009I – HHC00101I      HHCCA300D - HHC01059D

HHCAO012E – HHC00073E      HHCCA009I – HHC00101I      HHCCA300D - HHC01060D

HHCAO013E – HHC00074E      HHCCA010I – HHC01011I      HHCCA300D - HHC01061D

HHCAO014E – HHC00075E      HHCCA011E – HHC01012E      HHCCA300D - HHC01062D

HHCAO015E – HHC00075E      HHCCA012E – HHC01012E      HHCCA300D - HHC01063D
```

```
HHCCA300D - HHC01064D    HHCCD130E - HHC00301E    HHCCD217I - HHC00340I

HHCCA300D - HHC01065D    HHCCD130E - HHC00302E    HHCCD218I - HHC00341I

HHCCA300D - HHC01066D    HHCCD130E - HHC00303E    HHCCD900I - HHC00399I

HHCCA300D - HHC01067D    HHCCD142E - HHC00311E

HHCCA300D - HHC01068D    HHCCD151E - HHC00312E    ********************

HHCCA300D - HHC01069D    HHCCD160E - HHC00317E

HHCCA300D - HHC01070D    HHCCD161E - HHC00313E    HHCCF001S - HHC01432S

HHCCA300D - HHC01071D    HHCCD161E - HHC00314E    HHCCF002S - HHC01433S

HHCCA300D - HHC01072D    HHCCD161E - HHC00319E    HHCCF003S - HHC01432S

HHCCA300D - HHC01074D    HHCCD162I - HHC00320I    HHCCF004S - none

HHCCA300D - HHC01075D    HHCCD165W - HHC00318W    HHCCF005S - HHC02205S

HHCCA300D - HHC01076D    HHCCD170E - HHC00317E    HHCCF008E - HHC01441E

HHCCA300D - HHC01077D    HHCCD171E - HHC00323E    HHCCF009E - none

HHCCA300D - HHC01078D    HHCCD172E - HHC00324E    HHCCF012S - HHC01443S

HHCCA300D - HHC01079D    HHCCD173E - HHC00324E    HHCCF013S - HHC01443S

HHCCA300D - HHC01080D    HHCCD174E - HHC00324E    HHCCF014S - HHC01443S

HHCCA300D - HHC01081D    HHCCD175W - HHC00322W    HHCCF016S - HHC01443S

HHCCA300D - HHC01082D    HHCCD179I - HHC00321I    HHCCF017W - none

HHCCA300D - HHC01083D    HHCCD180E - HHC00326E    HHCCF018S - HHC01443S

HHCCA300D - HHC01084D    HHCCD180E - HHC00327E    HHCCF019S - HHC01443S

HHCCA300D - HHC90000D    HHCCD181I - HHC00325I    HHCCF020W - none

                         HHCCD190E - HHC00342E    HHCCF022S - HHC01443S

********************     HHCCD193E - HHC00343E    HHCCF023S - HHC01443S

                         HHCCD194E - HHC00344E    HHCCF028I - HHC02204I

HHCCD001I - HHC00100I    HHCCD205W - HHC00317E    HHCCF028S - HHC02205S

HHCCD002I - HHC00100I    HHCCD206W - HHC00329W    HHCCF029S - HHC01443S

HHCCD003I - HHC00100I    HHCCD206W - HHC00331W    HHCCF029S - HHC02205S

HHCCD011I - HHC00101I    HHCCD207I - HHC00315I    HHCCF031S - HHC01430S

HHCCD012I - HHC00101I    HHCCD207I - HHC00328I    HHCCF032S - HHC01430S

HHCCD013I - HHC00101I    HHCCD207I - HHC00330I    HHCCF033S - HHC01430S

HHCCD092I - HHC00316I    HHCCD208I - HHC00332I    HHCCF034W - HHC01431I

HHCCD101E - HHC00300E    HHCCD209W - HHC00317E    HHCCF035S - HHC01448S

HHCCD102E - HHC00304E    HHCCD210I - HHC00333I    HHCCF036S - HHC01443S

HHCCD110E - HHC00305E    HHCCD211I - HHC00334I    HHCCF040E - HHC00102E

HHCCD121E - HHC00306E    HHCCD212I - HHC00335I    HHCCF041E - HHC01461E

HHCCD122E - HHC00307E    HHCCD213I - HHC00336I    HHCCF042E - HHC01462E

HHCCD123E - HHC00308E    HHCCD214I - HHC00337I    HHCCF043E - HHC01460E

HHCCD124E - HHC00309E    HHCCD215I - HHC00338I    HHCCF044E - HHC01463E

HHCCD125E - HHC00310E    HHCCD216I - HHC00339I    HHCCF045E - HHC01460E
```

```
HHCCF046E – HHC01464E      HHCCF083I – HHC01437I      HHCCP025I – HHC00842I

HHCCF047I – HHC01465I      HHCCF084W – HHC01438W      HHCCP026I – HHC00843I

HHCCF048E – HHC01464E      HHCCF085S – HHC01439S      HHCCP027E – HHC00828E

HHCCF049E – HHC01461E      HHCCF086S – none           HHCCP027I – HHC00846I

HHCCF050I – HHC01459I      HHCCF090I – HHC01447I      HHCCP028I – HHC00845I

HHCCF051E – HHC01475E      HHCCF900S – HHC01430S      HHCCP030E – HHC00828E

HHCCF051S – HHC01443S                                 HHCCP031I – HHC00844I

HHCCF051W – none           ********************        HHCCP031I – HHC01329I

HHCCF052S – HHC02205S                                 HHCCP036E – HHC00002E

HHCCF053E – HHC01470E      HHCCH001E – HHC00011E      HHCCP037E – HHC00002E

HHCCF054E – HHC01470E      HHCCH002W – HHC00011E      HHCCP038E – HHC00003E

HHCCF054S – HHC02205S      HHCCH003W – HHC00011E      HHCCP040I – HHC00004I

HHCCF055E – HHC01470E      HHCCH004W – HHC00011E      HHCCP041I – HHC00006I

HHCCF056E – HHC01471E      HHCCH005W – HHC00012W      HHCCP042I – HHC00006I

HHCCF057E – HHC01472E      HHCCH006E – HHC00011E      HHCCP043I – HHC00800I

HHCCF058E – HHC01473E                                 HHCCP044I – HHC00804I

HHCCF061W – none           ********************        HHCCP045I – HHC00805I

HHCCF062W – none                                      HHCCP046I – HHC00806I

HHCCF063W – none           HHCCP001W – HHC00136E      HHCCP048I – HHC01315I

HHCCF064W – HHC00136E      HHCCP002I – HHC00100I      HHCCP049I – HHC01316I

HHCCF065I – HHC00100I      HHCCP003I – HHC00811I      HHCCP050I – HHC01317I

HHCCF066E – HHC01801E      HHCCP004I – HHC00812I      HHCCP051I – HHC01318I

HHCCF066S – HHC02205S      HHCCP006S – HHC00102E      HHCCP052I – HHC01319I

HHCCF067S – HHC02205S      HHCCP007I – HHC00811I      HHCCP053I – HHC01329I

HHCCF070S – HHC01443S      HHCCP008I – HHC00101I      HHCCP054I – HHC01330I

HHCCF072I – HHC01474I      HHCCP010I – HHC00808I      HHCCP055I – HHC01330I

HHCCF072W – none           HHCCP011I – HHC00809I      HHCCP056I – HHC01332I

HHCCF073W – none           HHCCP014I – HHC00801I      HHCCP057I – HHC01300I

HHCCF074E – HHC01466E      HHCCP015I – HHC00802I      HHCCP058I – HHC01300I

HHCCF074S – HHC01443S      HHCCP016I – HHC00803I      HHCCP059I – HHC01300I

HHCCF075E – HHC01467E      HHCCP017I – HHC00822I      HHCCP060I – HHC01333I

HHCCF075S – HHC01443S      HHCCP018I – HHC00823I      HHCCP061I – HHC01333I

HHCCF076E – HHC01468E      HHCCP019I – HHC00824I      HHCCP062I – HHC01300I

HHCCF077E – HHC01469E      HHCCP020E – HHC00825E      HHCCP063I – HHC01302I

HHCCF077I – HHC00827I      HHCCP021E – HHC00826E      HHCCP064I – HHC01303I

HHCCF078W – HHC01458W      HHCCP021I – HHC01319I      HHCCP065I – HHC01304I

HHCCF079W – HHC00130W      HHCCP022I – HHC00807I      HHCCP066I – HHC01305I

HHCCF081I – HHC01435I      HHCCP023I – HHC00840I      HHCCP067E – HHC00102E

HHCCF082S – HHC01436S      HHCCP024I – HHC00841I      HHCCP068E – HHC00102E
```

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HHCCP069I – HHC01306I      HHCCT014E – HHC00906E      HHCCT055E – HHC00916E

HHCCP070I – HHC01307I      HHCCT015I – HHC00907I      HHCCT056E – HHC00915E

HHCCP071I – HHC01308I      HHCCT016E – HHC00908E      HHCCT056E – HHC00916E

HHCCP072I – HHC01309I      HHCCT017E – HHC00909E      HHCCT057E – HHC00915E

HHCCP073I – HHC01310I      HHCCT018I – HHC00934I      HHCCT058E – HHC00916E

HHCCP074I – HHC01311I      HHCCT019E – HHC00936E      HHCCT059E – HHC00916E

HHCCP075I – HHC01312I      HHCCT020E – HHC00973E      HHCCT060E – HHC00915E

HHCCP076I – HHC01313I      HHCCT021E – HHC00973E      HHCCT061E – HHC00916E

HHCCP077I – HHC01314I      HHCCT022I – HHC00913I      HHCCT062E – HHC00916E

HHCCP078I – HHC01301I      HHCCT023E – HHC00974E      HHCCT063E – HHC00916E

HHCCP079E – HHC00813E      HHCCT024E – HHC00915E      HHCCT064E – HHC00916E

HHCCP080E – HHC00813E      HHCCT025E – HHC00900E      HHCCT065E – HHC00916E

HHCCP081E – HHC00002E      HHCCT026E – HHC00900E      HHCCT066E – HHC00915E

HHCCP084E – HHC04111E      HHCCT027E – HHC00900E      HHCCT067E – HHC00916E

HHCCP085W – HHC04110W      HHCCT027E – HHC00915E      HHCCT068E – HHC00916E

HHCCP086E – HHC04111E      HHCCT028E – HHC00916E      HHCCT069E – HHC00916E

HHCCP087E – HHC04111E      HHCCT029E – HHC00975E      HHCCT070E – HHC00916E

HHCCP088E – HHC04111E      HHCCT030E – HHC00975E      HHCCT071E – HHC00915E

HHCCP089E – HHC04111E      HHCCT031E – HHC00975E      HHCCT072W – HHC00914W

HHCCP909W – HHC00005W      HHCCT032E – HHC00976E      HHCCT073I – HHC00901I

                           HHCCT033E – HHC00900E      HHCCT074W – HHC00902W

********************       HHCCT034E – HHC00970E      HHCCT075W – HHC00902W

                           HHCCT037E – HHC00900E

HHCCT001E – HHC00915E      HHCCT038E – HHC00900E      ********************

HHCCT001W – HHC00136E      HHCCT040I – HHC00904I

HHCCT002E – HHC00915E      HHCCT041E – HHC00905I      HHCDA001E – HHC00400E

HHCCT002I – HHC00100I      HHCCT042E – HHC00906E      HHCDA002E – HHC00401E

HHCCT003E – HHC00916E      HHCCT043I – HHC00907I      HHCDA003E – HHC00402E

HHCCT003I – HHC00101I      HHCCT044E – HHC00908E      HHCDA004I – HHC00403I

HHCCT004E – HHC00916E      HHCCT045E – HHC00909E      HHCDA005E – HHC00404E

HHCCT005E – HHC00916E      HHCCT046E – HHC00910I      HHCDA006E – HHC00405E

HHCCT006E – HHC00916E      HHCCT047E – HHC00911E      HHCDA007E – HHC00404E

HHCCT007E – HHC00900E      HHCCT048E – HHC00912E      HHCDA008E – HHC00404E

HHCCT008E – HHC00900E      HHCCT049I – HHC00913I      HHCDA009E – HHC00404E

HHCCT009I – HHC00971I      HHCCT050E – HHC00916E      HHCDA010E – HHC00406E

HHCCT010E – HHC00900E      HHCCT051E – HHC00916E      HHCDA011E – HHC00407E

HHCCT011E – HHC00900E      HHCCT052E – HHC00916E      HHCDA012E – HHC00404E

HHCCT012E – HHC00900E      HHCCT053E – HHC00916E      HHCDA013E – HHC00404E

HHCCT013I – HHC00972I      HHCCT054E – HHC00916E      HHCDA014E – HHC00408E
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HHCDA015I – HHC00409I      HHCDA080E – HHC00511E      HHCEV006I – HHC01708I

HHCDA016E – HHC00410E      HHCDA081E – HHC00512E      HHCEV008E – HHC01720E

HHCDA017E – HHC00411E      HHCDA082E – HHC00502E      HHCEV008E – HHC01721E

HHCDA018E – HHC00412E      HHCDA901E – HHC00513E      HHCEV010I – HHC01717I

HHCDA019E – HHC00413E      HHCDA902E – HHC00514E      HHCEV011E – HHC01718E

HHCDA020I – HHC00414I      HHCDA903E – HHC00515E      HHCEV011I – HHC01719I

HHCDA021E – HHC00415E      HHCDA999E – HHC00443E      HHCEV011I – HHC01722I

HHCDA022E – HHC00416E                                 HHCEV012I – HHC01717I

HHCDA023I – HHC00417I      ********************       HHCEV014I – HHC01710I

HHCDA026E – HHC00404E                                 HHCEV014I – HHC01711I

HHCDA027E – HHC00404E      HHCDG001I – HHC01541I      HHCEV015I – HHC01707I

HHCDA032E – HHC00404E      HHCDG002I – HHC01542I      HHCEV016I – HHC01708I

HHCDA033E – HHC00404E                                 HHCEV016I – HHC01712I

HHCDA035E – HHC00418E      ********************       HHCEV016I – HHC01714I

HHCDA042E – HHC00419E                                 HHCEV017I – HHC01713I

HHCDA046E – HHC00419E      HHCDL130W – none           HHCEV017W – HHC01715W

HHCDA049E – HHC00420E      HHCDL131I – none           HHCEV018W – HHC01715W

HHCDA051E – HHC00421E      HHCDL132I – none           HHCEV019I – HHC01716I

HHCDA053E – HHC00422E      HHCDL133I – none           HHCEV300D – HHC90000D

HHCDA055I – HHC00423I      HHCDL135I – none

HHCDA056E – HHC00500E      HHCDL136E – none           ********************

HHCDA057E – HHC00501E      HHCDL137E – none

HHCDA058E – HHC00502E      HHCDL138W – none           HHCGC001E – HHC01351E

HHCDA059E – HHC00502E      HHCDL139I – none           HHCGC002T – HHC01352T

HHCDA060E – HHC00502E                                 HHCGC003E – HHC01350E

HHCDA061E – HHC00502E      ********************       HHCGC999W – HHC01353W

HHCDA062E – HHC00502E

HHCDA063E – HHC00503E      HHCDN001I – HHC01900I      ********************

HHCDA064E – HHC00502E      HHCDN002I – HHC01901I

HHCDA065E – HHC00505E      HHCDN003I – HHC01902I      HHCGI001I – HHC01016I

HHCDA066E – HHC00506E                                 HHCGI002I – HHC01016I

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HHCDA079E – HHC00510E      HHCEV006I – HHC01705I      HHCHD007E – HHC01516E
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********************         HHCLC021E – HHC00954E         ********************
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                              HHCPN051I - HHC02203I      HHCPN104I - HHC02248I

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HHCPN152I – HHC00819I      HHCPN215E – HHC02219E      HHCPU003E – HHC01200E

HHCPN153I – HHC00820I      HHCPN216I – HHC02203I      HHCPU004E – HHC01200E

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Appendix C. Links

- **The Hercules System/370, ESA/390, and z/Architecture Emulator**

  http://www.hercules-390.eu

- **Hercules source code repositories**

  https://github.com/rbowler/spinhawk   (release 3.xx development stream)

  https://github.com/rbowler/sandhawk   (release 4.xx development stream)

  https://github.com/hercules-390/hyperion   (cutting-edge developer sandbox)

- **Hercules Developer Snapshots (Dave Wade)**

  http://www.smrcc.org.uk/members/g4ugm/snapshots/

- **Hercules PDF Documentation (Peter Glanzmann)**

  http://hercdoc.glanzmann.org

- **The MVS Tur(n)key System, Version 3 (Volker Bandke)**

  http://www.bsp-gmbh.com/turnkey/index.html

- **Hercules WinGUI ("Fish", David B. Trout)**

  http://www.softdevlabs.com/Hercules/hercgui-index.html

- **CTCI-WIN ("Fish", David B. Trout)**

  http://www.softdevlabs.com/Hercules/CTCI-WIN-index.html

- **Hercules Studio (Jacob Dekel)**

  http://www.mvsdasd.org/hercstudio

- **Hebe – Hercules Image Manager (Robin Atwood)**

  http://kde-apps.org/content/show.php/Hebe?content=126738

- **WinPcap, Politecnico di Torino**

  http://www.winpcap.org

- **Vista tn3270, Tom Brennan Software**

  http://www.tombrennansoftware.com

- **X3270, Paul Mattes**

  http://x3270.bgp.nu

- **AWSBROWSE ("Fish", David B. Trout)**

  http://www.softdevlabs.com/Hercules/hercgui-index.html

- **XMIT Manager**

  www.cbttape.org

- **CBT MVS Utilities Tape (CBTTAPE)**

  www.cbttape.org

- **Microsoft Visual C++ 2008 Express**

  http://www.microsoft.com/express/download/

- **ZLIB**

  http://www.zlib.net

  http://www.softdevlabs.com/Hercules/ZLIB1-1.2.3-bin-lib-inc-vc2008-x86-x64.zip

- **BZIP2**

  http://www.bzip.org

  http://www.softdevlabs.com/Hercules/BZIP2-1.0.5-bin-lib-inc-vc2008-x86-x64.zip

- **PCRE**

  http://www.pcre.org

  http://www.softdevlabs.com/Hercules/PCRE-6.4.1-bin-lib-inc-vc2008-x86-x64.zip

- **Regina REXX**

  http://regina-rexx.sourceforge.net/

- **Open Object Rexx (ooRexx)**

  http://www.oorexx.org/

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Hercules Emulator

H

Hercules System/370, ESA/390, z/Architecture Emulator

Messages and Codes

Version 4 Release 00

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HEMC040000-00
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