

**StorageTek**

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**Multi-Platform  
Subsystem Test**

**Messages and Codes  
Manual**

**Version 2.04**

112151207

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### **Seventh Edition – April 2000**

This edition applies to version 2.04 of the Multi-Platform Subsystem Test software for MVS, VM, and PC/DOS operating systems. Information contained in this publication is subject to change. Comments concerning the contents of this manual should be directed to:

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## About this Book

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The *Multi-Platform Subsystem Test (MPST) Messages and Codes* manual describes the messages issued by MPST, the Stand-Alone Executive (SAE), the Control Card Editor, and MPST functions.

For messages issued by the StorageTekFRIEND function refer to the *StorageTekFRIEND Function for MPST Reference Manual*.

### Audience

This book was written for Storage Technology Corporation (StorageTek) personnel to support the testing and diagnostics of StorageTek products.

### Reader's Comments

We'd like to know what you think about this book. For that purpose, we've included a reader's comment form in the back of this book. Please copy the form, fill it out, and mail it to us.

## About the Software

The following MPST software levels are supported by this book:

- MPST/MVS Version 2.04
- MPST/VM Version 2.04
- MPST/PC Version 2.04

## How this Book is Organized

This book contains the messages issued by the Multi-Platform Subsystem Test (MPST) software program for MVS, VM, and PC/DOS operating systems. Messages are arranged in this book alpha-numerically by message number.

- Chapter 1. “Return and Abend Codes”.
- Chapter 2. “MPSTCCE.” Control Card Editor messages.
- Chapter 3. “MPSTCCW.” Channel Command-Word Trace messages.
- Chapter 4. “MPSTCKM.” Count-Key-Data Map messages.
- Chapter 5. “MPSTCPY.” Tape Copy messages.
- Chapter 6. “MPSTDEF.” DEFINE messages.
- Chapter 7. “MPSTGSA.” Generate Stand-Alone Programs messages.
- Chapter 8. “MPSTINT.” Attention Interrupt messages.
- Chapter 9. “MPSTLEX.” LSM Exerciser messages.
- Chapter 10. “MPSTLIB.” Library Mount messages.
- Chapter 11. “MPSTLOK.” Library Look messages.
- Chapter 12. “MPSTMAN.” MPST Main Processing messages.

- Chapter 13. “MPSTRLB.” Random Locate Block messages.
- Chapter 14. “MPSTTIP.” Tape Independent Protocol Set messages.
- Chapter 15. “MPSTTKD.” Track Dump messages.
- Chapter 16. “MPSTTMC.” Tape Monitor and Control messages.
- Chapter 17. “MPSTTSC.” Tape Scan messages.
- Chapter 18. “MPSTVSC.” Volume Scan messages.
- Chapter 19. “MPSTVTM.” Terminal Control Unit Verification messages
- Chapter 20. “MPSTWRC.” Write-Read Cartridge messages.
- Chapter 21. “MPSTWRD.” Write-Read Disk messages.
- Chapter 22. “MSAE.” MPST Stand-Alone Executive messages.
- Index

## Conventions for Reader Usability

Conventions are used to shorten and clarify explanations and examples within this book.

### Typographic

The following typographical conventions are used in this book:

- **Bold** is used to introduce new or unfamiliar terminology.
- Letter Gothic is used to indicate command names, filenames, and literal output by the computer.
- **Letter Gothic Bold** is used to indicate literal input to the computer.
- *Letter Gothic Italic* is used to indicate that you must substitute the actual value for a command parameter. In the following example, you would substitute your name for the “username” parameter.

**Logon** *username*

- A bar ( | ) is used to separate alternative parameter values. In the example shown below either username or systemname must be entered.

**Logon** *username | systemname*

- Brackets [ ] are used to indicate that a command parameter is optional.
- Ellipses ( ... ) are used to indicate that a command may be repeated multiple times.
- The use of mixed upper and lower case characters (for non-case sensitive commands) indicates that lower case letters may be omitted to form abbreviations. For example, you may simply enter **F** when executing the **modiFy** command.

**Keys** Single keystrokes are represented by double brackets `[[ ]]` surrounding the key name. For example, press `[[ESC]]` indicates that you should press only the escape key.

Combined keystrokes use double brackets and the plus sign (+). The double brackets surround the key names and the plus sign is used to add the second keystroke. For example, press `[[ALT]] + [[C]]` indicates that you should press the alternate key and the C key simultaneously.

**Enter Command** The instruction to “press the `[[ENTER]]` key” is omitted from most examples, definitions, and explanations in this book.

For example, if the instructions asked you to “enter”  
Logon pat, you would type in Logon pat *and* press  
`[[ENTER]]`.

However, if the instructions asked you to “type” Logon  
pat, you would type in Logon pat and you would *not*  
press `[[ENTER]]`.

**Symbols** The following symbols are used to highlight text in this book.



**Warning:** Information necessary to keep you from damaging your hardware or software.



**Caution:** Information necessary to keep you from corrupting your data.



**Hint:** Information that can be used to shorten or simplify your task or they may simply be used as a reminder.



**Note:** Information that may be of special interest to you. Notes are also used to point out exceptions to rules or procedures.

## Technical Support

Contact CS Software Support at 1–800–866–6789.

## Related Documentation

The following books provide more information about the MPST software product:

- *MPST/PC Installation and User's Guide*
- *MPST/PC Functions Reference Manual*
- *MPST/MVS Installation and User's Guide*
- *MPST/MVS Functions Reference Manual*
- *MPST/VM Installation and User's Guide*
- *MPST/VM Functions Reference Manual*
- *StorageTekFRIEND Function for MPST Reference Manual*

# Contents

---

<b>About this Book</b> .....	<b>iii</b>
Audience .....	iii
Reader's Comments .....	iii
About the Software .....	iv
How this Book is Organized .....	iv
Conventions for Reader Usability .....	vi
Typographic .....	vi
Keys .....	vii
Enter Command .....	vii
Symbols .....	vii
Technical Support .....	viii
Related Documentation .....	viii
<b>Chapter 1. Return and Abend Codes</b> .....	<b>1</b>
Program and Function Return Codes .....	1
Abnormal End (ABEND) Codes .....	2
<b>Chapter 2. MPSTCCE</b> .....	<b>5</b>
Control Card Editor Messages .....	5
<b>Chapter 3. MPSTCCW</b> .....	<b>15</b>
Channel Command-Word Trace (CCWTRACE) Messages .....	15
<b>Chapter 4. MPSTCKM</b> .....	<b>19</b>
Count-Key-Data Map (CKDMAP) Messages .....	19
<b>Chapter 5. MPSTCPY</b> .....	<b>25</b>
Tape Copy Messages .....	25

<b>Chapter 6. MPSTDEF</b> .....	<b>47</b>
DEFINE Messages .....	47
<b>Chapter 7. MPSTGSA</b> .....	<b>53</b>
Generate Stand-alone Programs (GENSAPGM) Messages .....	53
<b>Chapter 8. MPSTINT</b> .....	<b>61</b>
Attention Interrupt Messages .....	61
<b>Chapter 9. MPSTLEX</b> .....	<b>63</b>
Library Storage Module Exerciser (LSMEXER) Messages .....	63
<b>Chapter 10. MPSTLIB</b> .....	<b>91</b>
Library Mount (LIBMOUNT) Messages .....	91
<b>Chapter 11. MPSTLOK</b> .....	<b>109</b>
Library Look (LIBLOOK) Messages .....	109
<b>Chapter 12. MPSTMAN</b> .....	<b>117</b>
MPST Main Processing (MPSTMAIN) Messages .....	117
<b>Chapter 13. MPSTRLB</b> .....	<b>129</b>
Random Locate Block (RLB) Messages .....	129
<b>Chapter 14. MPSTTIP</b> .....	<b>151</b>
Tape Independent Protocol Set (TIPS) Messages .....	151
<b>Chapter 15. MPSTTKD</b> .....	<b>157</b>
Track Dump (TRKDUMP) Messages .....	157
<b>Chapter 16. MPSTTMC</b> .....	<b>171</b>
Tape Monitor and Control (TMC) Messages .....	171
<b>Chapter 17. MPSTTSC</b> .....	<b>177</b>
Tape Scan Messages .....	177
<b>Chapter 18. MPSTVSC</b> .....	<b>201</b>
Volume Scan (VOLSCAN) Messages .....	201
<b>Chapter 19. MPSTVTM</b> .....	<b>219</b>
Terminal Control Unit Verification (VTERM) Messages .....	219

<b>Chapter 20. MPSTWRC</b> .....	<b>223</b>
Write-Read Cartridge (WRCART) Messages .....	223
<b>Chapter 21. MPSTWRD</b> .....	<b>251</b>
Write-Read Disk (WRDISK) Messages .....	251
<b>Chapter 22. MSAE</b> .....	<b>263</b>
MPST Stand-Alone Executive (MPSTSAE) Messages .....	263
<b>Index</b> .....	<b>327</b>



# Chapter 1. Return and Abend Codes

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## Program and Function Return Codes

The return code sent to the system is the highest return code posted by any function to MPST. A return code is only sent if MPST executes successfully.

Refer to the appropriate Multi-Platform Subsystem Test *Functions Reference Manual* for additional information on TESTRC and function return code testing.

Return Code	Program Use	Function Use
0	No errors	No errors
4	Not used	Warning or minor error
8	Not used	Serious error
12	Control card error	Control card error or test device OPEN failure
16	File SYSPRINT or SYSIN failed to OPEN	

## Abnormal End (ABEND) Codes

ABEND codes indicate problems within the MPST program. The following ABEND codes apply to MPST:

### **ABEND Code 087**

An [E]STAE environment could not be established for an OS/VS environment. Contact CS Software Support.

### **ABEND Code 088**

GETMAIN for MPST Stack Manager Cell Control Stack failed. Increase the partition or region size and try again.

### **ABEND Code 089**

GETMAIN for MPST Stack Manager Cell Data Stack failed. Increase the partition or region size and try again.

### **ABEND Code 090**

Not used. Contact CS Software Support.

### **ABEND Code 091**

GETMAIN/FREEMAIN problem. Contact CS Software Support.

### **ABEND Code 092**

Test device OPEN/CLOSE problem. Contact CS Software Support.

### **ABEND Code 093**

Write to operator problem. Contact CS Software Support.

### **ABEND Code 094**

MPST program modules are not at the correct level. Remove all older versions of MPST from the system.

**ABEND Code 095**

The field test version of MPST has expired. Once a field test has expired MPST prompts the operator for a password. If the password is entered, execution continues; if the password is not entered, MPST abends. Install the latest version of MPST.

**ABEND Code 099**

Option ABEND is in effect and the specified trace point ID has been reached.



## Chapter 2. MPSTCCE

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### Control Card Editor Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for the Control Card Editor:

**MPSTCCE00 START CONTROL CARD EDITOR**

**Explanation:** This message is issued at the start of the Control Card Editor.

**Solution:** None required.

**MPSTCCE01 NO CONTROL CARDS FOUND IN SYSCCLIB|SYSCCDEF**

**Explanation:** Either the SYSCCLIB or SYSCCDEF file does not exist or there are no Control Cards in the existing file.

**Solution:** Check the SYSCCLIB or SYSCCDEF file for Control Cards.

**MPSTCCE03 DEFAULT CONTROL CARDS SET *num* NOT FOUND**

**Explanation:** The requested default Control Card set *num* was not found in the SYSCCDEF file.

**Solution:** Check the SYSCCDEF file for control cards set *num*.

**MPSTCCE04 INVALID FUNCTION NAME IN SYSIN|CONTROL CARDS**

**Explanation:** The MPST function listed is invalid.

**Solution:** Correct the function name listed in the SYSIN Control Card or in the Control Card.

**MPSTCCE05 EMPTY SYSIN**

**Explanation:** No SYSIN data was detected in the Job JCL.

**Solution:** Correct the Job JCL or use the Control Card Editor.

**MPSTCCE06 UNABLE TO SAVE CONTROL CARDS IN SYSCCLIB**

**Explanation:** The current Active and Alternate Control Cards failed to save to the SYSCCLIB file.

**Solution:** Check that the SYSCCLIB still exists and that data can be written to the file.

**MPSTCCE11 ENTER CC SET NAME, NUMB, HELP=(name), DEFAULT=(nn) or END**

**Explanation:** The Control Card Editor requires a response.

**Solution:** Enter one of the following:

- **HELP**—to list the Control Card Editor’s edit commands.
- **HELP=**—to list the control card sets defined in the SYSCCHLP file. **HELP=name** lists the control cards in control card set *name*.
- **DEFAult=**—to list the control card set numbers defined in the SYSCCDEF file. **Default=nn** lists the control cards for control card set *nn*.
- **END**—to terminate.

**MPSTCCE21 NO ACTIVE CONTROL CARDS**

**Explanation:** There is no active Control Card in the SYSCCLIB file.

**Solution:** Check the SYSCCLIB file for active Control Cards.

**MPSTCCE22 ACTIVE CONTROL CARDS --**  
**01** *control\_card\_contents*  
 ...  
**16** *control\_card\_contents*

**Explanation:** The current active control cards are all listed.

**Solution:** None required.

**MPSTCCE23 CHANGE CONTROL CARDS -- Edit or Prompt or Yes or No**

**Explanation:** The Control Card Editor requires a response.

**Solution:** Respond to message MPSTCCE23:

- Enter **Edit** if you want to list, swap, or modify alternate and/or active control card sets.
- Enter **Prompt** if you want to list the available control card set (*name*) or request a specific control card set *number*.
- Enter **Yes** if you want to build the control card set online.
- Enter **No** if you do not need to modify control card statements and you're ready to start MPST operation using the current, active control card set.

**MPSTCCE24 ENTER CONTROL CARD 01 ... 16 or 'END'**

**Explanation:** The Control Card Editor requires a response. Message MPSTCCE24 will sequentially display Control Card numbers 01 through 16 until END is entered.

**Solution:** Enter the text for the Control Cards. Enter **END** to terminate.

**MPSTCCE25 CONTROL CARD *num* ACCEPTED**

**Explanation:** The text entered for Control Card *num* was accepted. Message MPSTCCE24 follows this message and displays the next sequential Control Card number.

**Solution:** None required.

**MPSTCCE29 MAXIMUM NUMBER OF CONTROL CARDS ENTERED**

**Explanation:** The maximum number of Control Cards that can be entered for a set is 16.

**Solution:** None required.

**MPSTCCE32 THE FOLLOWING CONTROL CARDS ARE AVAILABLE --  
CONTROL CARD 1 THROUGH *num***

**Explanation:** Controls Cards 1 through *num* are listed for the current active Control Card set.

**Solution:** None required.

**MPSTCCE34 THE FOLLOWING PARAMETERS ARE AVAILABLE FOR CONTROL  
CARD *name***

**Explanation:** The parameters available for Control Card *name* function are listed.

**Solution:** None required.

**MPSTCCE39 THE FOLLOWING DEFAULT CONTROL CARD SETS ARE  
AVAILABLE -- DEFAULT SET 00 THROUGH DEFAULT SET 99**

**Explanation:** DEFault was entered and the available default Control Card sets are listed.

**Solution:** None required.

**MPSTCCE50 SYSCCHLP FILE NOT FOUND**

**Explanation:** The HELP file SYSCCHLP was not found.

**Solution:** Load the SYSCCHLP file. Refer to the installation instructions.

**MPSTCCE52 ENTER EDIT COMMAND or HELP or END**

**Explanation:** The Control Card Editor requires a response.

**Solution:** Enter the edit command to be performed, HELP to list the available edit commands, or END to terminate the edit function.

**MPSTCCE53 INVALID EDIT COMMAND - *edit\_cmd***

**Explanation:** The edit command *edit\_cmd* is not valid.

**Solution:** Enter the correct edit command or HELP to list the available edit commands.

**MPSTCCE54 VALID EDIT COMMANDS ARE --**

**BOT** - GO TO BOTTOM OF ACTIVE CARDS  
**C /T1/T2** - CHANGE TEXT T1 to T2  
**DOWN <N>** - DOWN N CARDS  
**DEL <N>** - DELETE N CARDS  
**DUP <N>** - DUPLICATE N TIMES  
**END** - END EDIT  
**GET N** - GET USER DEFINED CARD SET  
**HELP** - LIST VALID EDIT COMMANDS  
**INSA** - INSERT AFTER  
**INSB** - INSERT BEFORE  
**LACT** - LIST ACTIVE CARDS  
**LALT** - LIST ALTERNATE CARDS  
**RES** - RESTORE ALTERNATE CARDS  
**REP** - REPLACE CURRENT CARD  
**SAVE** - SAVE ACTIVE CARDS TO ALTERNATE  
**SWAP** - SWAP ACTIVE AND ALTERNATE  
**TOP** - GO TO TOP OF ACTIVE CARDS  
**UP <N>** - UP N CARDS

**NOTE:** <N> MAY BE 1 TO 9, DEFAULT=1.

**Explanation:** The valid edit commands are listed.

**Solution:** None required.

**MPSTCCE55 NO CARDS TO EDIT**

**Explanation:** Edit was requested, but there are no current Control Cards.

**Solution:** Enter the name or number for the current Control Card set.

**MPSTCCE56** *num 'control card contents'*

**Explanation:** The current Control Card *num* is listed with its contents.

**Solution:** None required.

**MPSTCCE57 NO CONTROL CARDS TO LIST**

**Explanation:** Either LACT (list active) or LALT (list alternate) was entered and there are no Control Cards for that request.

**Solution:** Enter the correct request.

**MPSTCCE58 ENTER REPLACEMENT CONTROL CARD**

**Explanation:** The edit command REP (replace) was entered. The Control Card Editor requires a response.

**Solution:** Enter the contents for the replacement Control Card.

**MPSTCCE59 ACTIVE CC SET FULL**

**Explanation:** Control Cards are being inserted into the Control Card Set and there is no more room. The maximum number of control cards allowed per control card set is 16.

**Solution:** End insert mode.

**MPSTCCE60 TEXT *from\_text* NOT FOUND**

**Explanation:** A change from/to command was entered and the change from text was not found in the current Control Card.

**Solution:** Enter the correct change command.

**MPSTCCE61 INSERT MODE -- ENTER CARD or END**

**Explanation:** Either INSA (insert after) or INSB (insert before) was entered. The Control Card Editor requires a response.

**Solution:** Enter the contents of the Control Card being inserted.

**MPSTCCE62 LIST ACTIVE CONTROL CARDS**

**Explanation:** The list of active Control Cards was requested and are listed as part of this message.

**Solution:** None required.

**MPSTCCE63 LIST ALTERNATE CONTROL CARDS**

**Explanation:** The list of alternate Control Cards was requested and are listed as part of this message.

**Solution:** None required.

**MPSTCCE71 REQUESTED CONTROL CARD SET *num* NOT FOUND**

**Explanation:** Default Control Card set *num* was requested and was not found in the SYSCCDEF file.

**Solution:** Enter the correct request.

**MPSTCCE91 ACTIVE CONTROL CARDS**

**Explanation:** The Active Control Cards are listed.

**Solution:** None required.

**MPSTCCE92 ALTERNATE CONTROL CARDS**

**Explanation:** The Alternate Control Cards are listed.

**Solution:** None required.

**MPSTCCE93 NO ACTIVE CONTROL CARDS**

**Explanation:** No Active Control Cards were found in the SYSCCLIB file.

**Solution:** None required.

**MPSTCCE94 NO ALTERNATE CONTROL CARDS**

**Explanation:** No Alternate Control Cards were found in the SYSCCLIB file.

**Solution:** None required.

**MPSTCCE99 END CONTROL CARD EDITOR**

**Explanation:** The Control Card Editor has terminated.

**Solution:** None required.



## Chapter 3. MPSTCCW

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### Channel Command-Word Trace (CCWTRACE) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Channel Command-Word Trace:

**MPSTCCW40 I|SIO CUU** - *id.uut*, **CAW** *ccw:addr*, **CC** *code*,  
**CSW** *key-next:ccw-uscs-byte*,  
**CCW AT** *ccw:addr - cc-data:addr-fg-00-byte*,  
**CCW DATA AT** *data:addr*

**Explanation:** This message is issued if CCWtrace is on at the start of I/O operation (SIO).

- **I|SIO**—if this is an immediate CCW, **I** is displayed at the start of the message. Otherwise, **SIO** is displayed.
- **CUU** - *id.uut*—the cpu id and the UUT of the control-unit unit.
- **CAW** *ccw:addr*—the channel-address word specifies the address of the channel-command word (CCW).
- **CC** *code*—the condition code.
- **CSW** *key-next:ccw-uscs-byte*—the channel-status word specifies the key, the next CCW in the chain, the unit status (*us*) and channel status (*cs*), and the byte count.
- **CCW AT** *ccw:addr - cc-data:addr-fg-00-byte*—**CCW AT** specifies the CCW address for the channel-command word, the command code (*cc*), data address, flag (*fg*), **00** (not used), and the byte count.
- **CCW DATA AT** *data:addr*—specifies the data address of the last CCW in the chain.

**Solution:** None required.

MPSTCCW41 \*INT\* CUU *id.uut*, CSW *key-next:ccw-uscs-byte*  
CCW AT *ccw:addr - cc-data:addr-fg-00-byte*,  
CCW DATA AT *data:addr*

**Explanation:** This message is issued if CCWtrace is on and an interrupt has occurred.

- **CUU** - *id.uut*—the cpu id and the UUT of the control-unit unit.
- **CSW** *key-next:ccw-uscs-byte*—the channel-status word specifies the key, the next CCW in the chain, the unit status (*us*) and channel status (*cs*), and the byte count.
- **CCW AT** *ccw:addr - cc-data:addr-fg-00-byte* — **CCW AT** specifies the CCW address for the channel-command word, the command code (*cc*), data address, flag (*fg*), **00** (not used), and the byte count.
- **CCW DATA AT** *data:addr*—specifies the data address of the last CCW in the chain.

**Solution:** None required.



## Chapter 4. MPSTCKM

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### Count-Key-Data Map (CKDMAP) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Count-Key-Data Map:

**MPSTCKM01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the CKDMAP function.

**Solution:** None required.

**MPSTCKM03 VOLUME DOES NOT HAVE A VALID LABEL**

**Explanation:** The record read from cylinder 0, head 0, record 3 of the test device was not a valid volume label.

**Solution:** None required.

**MPSTCKM04 VOLUME FORMAT IS NOT SUPPORTED**

**Explanation:** The volume is not in OS Count-Key-Data format.

**Solution:** None required.

**MPSTCKM10 DEVICE IS NOT DIRECT ACCESS**

**Explanation:** The test device is not a direct access device.

**Solution:** None required.

**MPSTCKM11 UNKNOWN DEVICE TYPE**

**Explanation:** The test device is not a supported device. Supported devices include:

- 2305–2
- 3330–1, 3330–11
- 3350
- 3380, 3380E, 3380J, 3380–3X
- 3390–1, 3390–2, 3390–3

**Solution:** None required.

**MPSTCKM13 ATTEMPT TO OPEN DEVICE FAILED**

**Explanation:** The test device failed to open.

**Solution:** None required.

**MPSTCKM14 FIRST DSCB NOT TYPE 4**

**Explanation:** The first DSCB read in the VTOC (volume table of contents) was not a type 4 DSCB. The VTOC is in error.

**Solution:** None required.

**MPSTCKM21 INSUFFICIENT SPACE IN VTOC TRACK LIST**

**Explanation:** The area GETMAIN'd to hold the internal track list was not large enough to contain the number of extents encountered. This should not happen.

**Solution:** Contact CSE Software Support.

**MPSTCKM22 INSUFFICIENT SPACE IN VTOC DSN LIST**

**Explanation:** The area GETMAIN'd for the internal data set list was not large enough to contain the number of data sets encountered. This should not happen.

**Solution:** Contact CSE Software Support.

**MPSTCKM23 ERROR FOUND IN VTOC – TOTALS MAY BE INCORRECT**

**Explanation:** An error was found in one or more extents during VTOC processing. The totals for allocated and free tracks may be incorrect due to the error.

**Solution:** None required.

**MPSTCKM24 BAD POINTER IN F2 or F3 READ**

**Explanation:** The FMT1 DSCB contains a pointer to a corresponding FMT2 or FMT3 DSCB. The record pointed to by this pointer was not a valid FMT2 or FMT3. The VTOC is in error.

**Solution:** None required.

**MPSTCKM25 BAD POINTER IN F6 READ**

**Explanation:** The FMT4 DSCB contains a pointer to the first FMT6 DSCB which then points to the next FMT6 DSCB and so on. The VTOC is in error.

**Solution:** None required.

**MPSTCKM26 OUT OF SPACE IN F6 TABLE**

**Explanation:** The CKDMAP function will only process up to 512 split cylinder allocations. More than 512 were encountered.

**Solution:** Decrease the number of split cylinder allocations.

**MPSTCKM27 INSUFFICIENT MEMORY TO HOLD LINKED LISTS**

**Explanation:** Two linked lists are created during VTOC processing. The first is a list of data set names with information concerning that data set. The second is a list of all extent allocations on the pack. The error occurred when GETMAINs were attempted for these lists and not enough storage was available.

**Solution:** Increase the region size and retry.

**MPSTCKM28 INSUFFICIENT MEMORY TO HOLD FMT6 TABLE**

**Explanation:** If a format 6 DSCB (split cylinder allocation) is encountered, a 2K table is GETMAIN'd to construct a list of all split cylinder allocations. The error occurred when GETMAIN was issued and not enough storage was available.

**Solution:** Increase the region size and retry.....

**MPSTCKM30 I/O ERROR**

**Explanation:** An I/O error was encountered while attempting to read the volume label at cylinder 0, head 0, record 3.

**Solution:** None required.

**MPSTCKM31 I/O ERROR**

**Explanation:** An I/O error was encountered while attempting to read a miscellaneous DSCB.

**Solution:** None required.

**MPSTCKM32 I/O ERROR**

**Explanation:** An I/O error was encountered while attempting to read the first DSCB (format 4) of the VTOC.

**Solution:** None required.



## Chapter 5. MPSTCPY

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### Tape Copy Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Tape Copy:

**MPSTCPY00 TAPECOPY CARTRIDGE**

**Explanation:** The TAPECOPY function will be executed on the devices listed by message MPSTCPY02.

**Solution:** None required.

**MPSTCPY01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the TAPECOPY function.

**Solution:** Enter the correct parameter.

**MPSTCPY02 UUT<sub>nm</sub>-CONFIGURED-ADDR *addr* VOLSER *vol* ICRC DRIVE STK  
3490E**

**Explanation:** Device UUT<sub>nm</sub> at address *addr* with volume serial number *vol* configured without error.

**Solution:** None required.

MPSTCPY03 TAPECOPY SUMMARY FOR DDNAME UUT<sub>nm</sub> ADDR *addr*  
 VOLSER *volser* CU SERIAL NUMBER *num*  
 DR PHYSICAL ADR *addr* DR LOGICAL ADR *addr*  
 TOTAL CLOCK ELAPSED TIME *hh:mm:ss*,  
 TOTAL SIO ELAPSED TIME *sec.thd\_sec* SECONDS

PASSES EXECUTED:  
 RECORDS PROCESSED:  
 TAPE MARKS PROCESSED:

COMPARE ERRORS:  
 SEQUENCE ERRORS:  
 TEMP READ ERRORS:  
 PERM READ ERRORS:  
 TEMP WRITE ERRORS:  
 PERM WRITE ERRORS:  
 DEGRADED ERRORS:

BYTES READ:  
 BYTES WRITTEN:

CU DET TEMP RD FWR:  
 CU DET TEMP RD BKW:  
 CU DET TEMP WRT:  
 CU DET RD BLK COR:  
 CU DET WRT BLK COR:  
 CU DET WRT ERG COUNT:  
 CU DET RD TRANS ERRS:  
 CU DET WRT TRANS ERR:

CU DET TEMP ERR:  
 CU CNT READ TIMEOUTS:  
 CU CNT WRITE TIMEOUTS:  
 CU CNT DATA XFER ER:  
 CU CNT TEMP DRIVE ER:  
 CU CNT READ RETRY:  
 CU CNT CH WRT BYTES:  
 CU CNT DEV WRT BYTES:  
 WR BYTE COMP/NCOMP %:  
 CU CNT CH RD BYTES:  
 CU CNT DEV RD BYTES:

**RD BYTE COMP/NCOMP %:**  
**CU CNT CH WRT BLOCK:**  
**CU CNT DEV WRT BLOCK:**  
**CU CNT CH RD BLOCK:**  
**CU CNT DEV RD BLOCK:**

**Explanation:** The summary for this execution of TAPECOPY for device *UUTnm* at address *addr* with volume serial number *volser* is printed.

- The number of passes executed and the number of records and tape marks processed is listed along with the total number of compare, sequence, temporary, and permanent read and write errors.
- The total elapsed time is the time used for all passes.
- The total bytes transferred, written, and read are also listed.
- If the RECOVERY parameter was specified, the number of control units detected (CU DET) functions for read and write temporary, erase gap, and read and write transient errors are listed.
- If NORECOVERY is specified, these counts are zero (0).
- If ICRC is active, the counts for ICRC functions are listed; otherwise they are zero (0).

**Solution:** None required.

#### MPSTCPY04 NO DEVICES CONFIGURED

**Explanation:** No test devices were configured for this execution of TAPECOPY.

**Solution:** Verify defined devices.

**MPSTCPY05 GETMAIN FOR EXPECTED DATA BUFFER FAILED,  
DATA COMPARE NOT POSSIBLE**

**Explanation:** A GETMAIN for a portion of memory to be used for data comparison failed. Data comparison cannot be done.

**Solution:** For data comparison, increase the size of the region or partition where MPST is executing and then re-execute.

**MPSTCPY07 I/O ERROR...**

**Explanation:** An I/O error occurred during configuration.

This may occur when attempting to overwrite a tape using a non-expanded format device if the tape was previously written using an expanded format device.

**Solution:** Initialize the tape with a tape mark using a non-expanded format device to correct the problem.



**Warning:** Initializing the tape with a tape mark will result in all existing data on the tape being lost.

**MPSTCPY08 DDNAME UUT<sub>nm</sub> – NOT CONFIGURED – reason**

**Explanation:** Device UUT<sub>nm</sub> was not configured. *reasons* for not configuring:

- DD CARD NOT TYPE 5—The test device DD card is not a type 5 DD card.
- DRIVE ASSIGNED TO DIFFERENT PATH—The drive is assigned to another path.
- FILE PROTECTED—A test sequence with a write pass was specified but the cartridge is file protected. No testing can be done on this device.
- I/O ERROR—An I/O error occurred during configuration. The error was described in message MPSTCPY07.
- NO DDCARD FOR TEST DEVICE—No device has been defined for this DD name.
- ONLY UUT01 AND UUT02 ALLOWED—COMPARE is active and only UUT01 or UUT02 are allowed.
- OPEN FAILED—An open for the device failed.
- RDC AND DDTYPE MISMATCH—Device characteristics read do not match the DD type specified.
- SENSE FAILED—Unable to get sense data from the device.
- TEST DEVICE NOT CARTRIDGE—The test device DD card does not define a cartridge device.

**Solution:** Verify that the test devices are correctly defined, online and available.

**MPSTCPY11 UUT<sub>nm</sub> addr volser -- ALL PASSES COMPLETE**

**Explanation:** The number of passes specified by the NPASS parameter has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. Testing has terminated on that device but continues on other devices.

**Solution:** None required.

**MPSTCPY12 UUTnm addr volser -- STOPPED AT OPERATOR REQUEST**

**Explanation:** TAPECOPY has detected that a STOP command was entered at the operator's console. Testing on test device UUTnm at address *addr* with volume serial number *volser* has been stopped.

**Solution:** None required.

**MPSTCPY13 UUTnm addr volser -- TERMINATED DUE TO ERROR CONDITION**

**Explanation:** Testing on test device UUTnm at address *addr* with volume serial number *volser* has been terminated due to a permanent error.

**Solution:** None required.

**MPSTCPY15 UUTnm addr volser -- CMD REJ ON PSF CCW, CHECK MICROCODE LEVEL**

**Explanation:** PSF commands issued to configure the device were rejected.

**Solution:** Verify that the device has the current level of microcode.

**MPSTCPY20 COMPARE OK|FAILED - type**

**Explanation:** The tape comparison passed (OK) or failed and the data *type* is one of the following:

- *nnnnnn* Byte Record number *rrrrrr*
- Tape Mark number *rrrrrr*
- 2nd Tape Mark number *rrrrrr*

**Solution:** None required.

**MPSTCPY21 TRACE – DATA READ IS – *type***

**Explanation:** TRACE is active and the data *type* is:

- *nnnnnn* Byte Record number *rrrrrr*
- Tape Mark number *rrrrrr*
- 2nd Tape Mark number *rrrrrr*

**Solution:** None required.

**MPSTCPY22 CONFIRM – DATA READ IS – *type***

**Explanation:** CONFIRM is active and the data *type* is:

- *nnnnnn* Byte Record number *rrrrrr*
- Tape Mark number *rrrrrr*
- 2nd Tape Mark number *rrrrrr*

**Solution:** None required.

**MPSTCPY23 CONFIRM COPY DATA TO OUTPUT – ENTER NO, YES, or END**

**Explanation:** CONFIRM, CFMTM, or CFMDTM are active and the data has been detected.

**Solution:** Respond to the message:

- Respond **No** to *not* copy data to output.
- Respond **Yes** to copy data to output.
- Respond **End** to copy data to output and to end the confirmation operation.

**MPSTCPY24 SKIPPING** - *type*

**Explanation:** NO was entered for the confirm response and *type* is being skipped. *type* is one of the following:

- 2nd Tape Mark
- Tape Mark
- Record

**Solution:** None required.

**MPSTCPY25 DO YOU WANT TO ENABLE COPY AFTER SKIP? ENTER YES/NO**

**Explanation:** Skipping is active and copy has not yet started.

**Solution:** Respond to the message:

- Respond **No** to *not* start copy.
- Respond **Yes** to start copy.

**MPSTCPY26 SKIP ERPA *xx* ENTER NO/YES/FSB**

**Explanation:** An error with ERPA code *xx* detected.

**Solution:** Respond to the message:

- Respond **No** to *not* skip the error. TAPECOPY ends with an error.
- Respond **Yes** to skip the error and continue.
- Respond **Fsb** to skip the error and try to Forward Space Block. Depending on the error, this response may or may not work.

**MPSTCPY27 SKIPPING** *type*

**Explanation:** Yes or Fsb was entered for the skip ERPA message. *type* is one of the following:

- Error.
- Err & Fwr Space Block

**Solution:** None required.

**MPSTCPY28 DATARECV – COPY INPUT LABEL TO OUTPUT TAPE?  
ENTER YES/NO**

**Explanation:** DATARECV is active and the input cartridge tape has a standard label.

**Solution:** Respond to the message:

- Respond **No** to *not* copy the label.
- Respond **Yes** to copy the label.

**MPSTCPY29 COMPARE REQUESTED – ALL COPY FUNCTIONS DISABLED**

**Explanation:** The COMPARE parameter was entered and all copy functions have been disabled. Only compare operations will run.

**Solution:** None required.

**MPSTCPY30 UUT<sub>nm</sub> -- PHYSICAL END OF TAPE DETECTED**

**Explanation:** The physical end of tape was detected on UUT<sub>nm</sub>.

**Solution:** If UUT<sub>nm</sub> is the output tape, use a longer tape for output or enable ICRC on the output tape. Rerun TAPECOPY.

If UUT<sub>nm</sub> is the input tape, no action is required.

**MPSTCPY31** *UUTnm addr -- type* **PASS, INCORRECT STATUS** *stat*  
**ON cmd** **COMMAND**

**Explanation:** Incorrect status was received for an I/O operation to device *UUTnm* at address *addr* during a *type* pass. The actual status received was *stat* and the command executed was *cmd*.

**Solution:** None required.

**MPSTCPY33** *UUTnm addr --* **OPEN FAILED, OPERATION NOT POSSIBLE**

**Explanation:** An open for test device *UUTnm* at address *addr* failed after the cartridge volumes were exchanged. Testing on the device terminates.

**Solution:** None required.

**MPSTCPY39** **I/O ERROR . . .**

**Explanation:** The actual data read from a record did not match the expected data for that record.

**Solution:** None required.

**MPSTCPY40** *UUTnm addr --* **CARTRIDGE IN ICRC FORMAT AND DRIVE IS NOT CAPABLE OF ICRC**

**Explanation:** A read forward pass has started for device *UUTnm* at address *addr*. The cartridge was written in ICRC format and the drive is not capable of ICRC.

**Solution:** Move the cartridge to a device that is ICRC capable.

MPSTCPY41 UUT<sub>nm</sub> addr volser -- SUMMARY FOR WRITE PASS

BYTES WRITTEN:  
 RECORDS WRITTEN:  
 TAPE MARKS WRITTEN:

TEMPORARY ERRORS:  
 PERMANENT ERRORS:  
 DEGRADED ERRORS:

CU DET TEMP WRT:  
 CU DET WRT BLK COR:  
 CU DET ERG COUNT:  
 CU DET WRT TRANS ERRS:

CU CNT WRT TIMEOUTS:  
 CU CNT CH WRT BYTES:  
 CU CNT DEV WRT BYTES:  
 WR BYTE COMP/NCOMP %:  
 CU CNT CH WRT BLOCK:  
 CU CNT DEV WRT BLOCK:

**Explanation:** A write pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the write pass is contained within this message.

If ICRC is active, the counts for ICRC functions are listed; otherwise, they are zero.

**Solution:** None required.

MPSTCPY42 SUMMARY INFORMATION NOT KEPT FOR DRIVE UUT<sub>nm</sub> AND VOLUME *volser*

**Explanation:** The summary information for all passes for test device UUT<sub>nm</sub> and tape volume serial number *volser* is not being kept.

**Solution:** None required.

MPSTCPY43 UUT $nm$  addr volser -- SUMMARY FOR READ FORWARD PASS

BYTES READ:  
RECORDS READ:  
TAPE MARKS READ:

COMPARE ERRORS:  
SEQUENCE ERRORS:  
TEMPORARY ERRORS:  
PERMANENT ERRORS:  
DEGRADED ERRORS:

CU DET RD FWR:  
CU DET RD BLK COR:  
CU DET RD TRANS ERRS:

CU CNT CH RD BYTES:  
CU CNT DEV RD BYTES:  
RD BYTE COMP/NCOMP %:  
CU CNT CH RD BLOCK:  
CU CNT DEV RD BLOCK:

**Explanation:** A read forward pass has been completed for device UUT $nm$  at address  $addr$  with volume serial number  $volser$ . The summary report for the read forward pass is contained within this message.

If ICRC is active, the counts for ICRC functions are listed; otherwise, they are all zero.

**Solution:** None required.

**MPSTCPY44 UUT<sub>nm</sub> addr volser -- SUMMARY FOR READ BACKWARD PASS**

**BYTES READ:**  
**RECORDS READ:**  
**TAPE MARKS READ:**

**COMPARE ERRORS:**  
**SEQUENCE ERRORS:**  
**TEMPORARY ERRORS:**  
**PERMANENT ERRORS:**  
**DEGRADED ERRORS:**

**CU DET TEMP RD BKW:**  
**CU DET RD BLK COR:**  
**CU DET RD TRANS ERRS:**

**Explanation:** A read backward pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the read backward pass is contained within this message.

**Solution:** None required.

**MPSTCPY45 UUT<sub>nm</sub> addr -- CARTRIDGE ON ICRC FORMAT AND DRIVE IS NOT CAPABLE OF ICRC**

**Explanation:** A read backward pass has started for device UUT<sub>nm</sub> at address *addr*. The cartridge was written in ICRC format and the drive is not capable of ICRC.

**Solution:** Move the cartridge to a device that is ICRC capable.

```

MPSTCPY50 UUTnm addr volser -- LOGGING SENSE DATA --
REC-N rec REC-LEN num N-RETRYnum
CMD cmd SIO CCcode
STAT unit_chan CPU id PATH chan
SENSE bytes

```

**Explanation:** A temporary error was detected and the control unit is in forced logging mode on test device *UUTnm* at address *addr* with volume serial number *volser* mounted.

- REC-N *rec*—The record number of the record on which the error occurred.
- REC-LEN *num*—The number of bytes transferred at the time of the error.
- N-RETRY *num*—The number of times the operation has been retried.
- CMD *cmd*—The channel command being executed.
- SIO CC *code*—The SIO condition code.
- STAT *unit\_chan*—The unit and channel status for CSW.
- CPU *id*—The CPU ID of the CPU on which the error occurred.
- PATH *chan*—The actual channel path on which the error occurred.
- SENSE *bytes*—The sense bytes.

**Solution:** None required.

**MPSTCPY51** *UUTnm addr volser -- TEMPORARY ERROR AT*  
*hh:mm:ss mm/dd/yyyy*  
**REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num*  
**CMD** *cmd* **SIO CC** *code*  
**STAT** *unit\_chan* **CPU** *id* **PATH** *chan*  
**SENSE** *bytes*

**Explanation:** A temporary error has occurred on test device *UUTnm* at address *addr* with volume serial number *volser* at *hh:mm:ss mm:dd:yyyy*.

- **REC-N** *rec*—The record number of the record on which the error occurred.
- **REC-LEN** *num*—The number of bytes transferred at the time of the error.
- **N-RETRY** *num*—The number of times the operation has been retried.
- **CMD** *cmd*—The channel command being executed.
- **SIO CC** *code*—The SIO condition code.
- **STAT** *unit\_chan*—The unit and channel status for CSW.
- **CPU** *id*—The CPU ID of the CPU on which the error occurred.
- **PATH** *chan*—The actual channel path on which the error occurred.
- **SENSE** *bytes*—The sense bytes.

**Solution:** None required.

**MPSTCPY52** *UUTnm addr volser -- type ERROR AT*  
*hh:mm:ss: mm/dd/yyyy*  
**REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num*  
**CMD** *cmd* **SIO CC** *code*  
**STAT** *unit\_chan* **CPU** *id* **PATH** *chan*  
**SENSE** *bytes*  
**DESC** *message*

**Explanation:** A permanent error has occurred on test device *UUTnm* at address *addr* with volume serial number *volser*. *hh:mm:ss mm/dd/yyyy* indicates the date and time the error occurred. *type* indicates an error condition of either PERMANENT or DEGRADED.

- **REC-N** *rec*—The record number of the record on which the error occurred.
- **REC-LEN** *num*—The number of bytes transferred at the time of the error.
- **N-RETRY** *num*—The number of times the operation has been retried.
- **CMD** *cmd*—The channel command being executed.
- **SIO CC** *code*—The SIO condition code.
- **STAT** *unit\_chan*—The unit and channel status for CSW.
- **CPU** *id*—The CPU ID of the CPU on which the error occurred.
- **PATH** *chan*—The actual channel path on which the error occurred.
- **SENSE** *bytes*—The sense bytes.

- DESC *message* is a message describing the error. Some possible messages and their meanings are:
  - CHANNEL STATUS ERROR—The channel status byte of the CSW indicated a channel-type error.
  - ECB *XX*—The event control block (ECB) completion code was not 7F (no error) or 41 (permanent error). Any other ECB code is a fatal error.
  - NOT DATA CHK OR OVRN—The error was not a data check or an overrun. Data checks and overruns are retried. All other errors are considered permanent.
  - PERMANENT READ ERROR—Read error recovery failed to recover from a temporary read error. The error is now a permanent error.
  - PERMANENT WRITE ERROR—Write error recovery failed to recover from a temporary write error. The error is now a permanent error.
  - READ ERP FAIL, CMD = *cmd*—The error occurred during read error recovery. *cmd* is the command which failed during retry.
  - UNKNOWN CCW FAILED—The failing CCW could not be determined and no recovery action could be taken.
  - WRITE ERP FAIL, CMD = *cmd*—The error occurred during write error recovery. *cmd* is the command which failed during retry.

**Solution:** None required.

**MPSTCPY54 UUT<sub>nm</sub> addr volser -- LOAD DISPLAY COMMAND FAILED**  
**MESSAGE=***message*  
**SENSE** *bytes*

**Explanation:** The LOAD DISPLAY command issued to device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* failed.

**Solution:** None required.

**MPSTCPY55** *UUTnm addr volser -- xx IS A NEW ERPA CODE, CONTACT CSE SOFTWARE SUPPORT*

**Explanation:** An error occurred on device *UUTnm* at address *addr* with volume serial number *volser*. The ERPA code of *xx* is unsupported.

**Solution:** Notify CS Software Support of this message and give them the sense data.

**MPSTCPY56** *UUTnm addr volser -- BUFFERED LOG OVERFLOW SENSE bytes*

**Explanation:** The buffered log overflowed for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTCPY57** *UUTnm addr volser--BUFFERED LOG SENSE DATA AT END OF PASS SENSE bytes*

**Explanation:** The buffered log data is read at the end of each pass for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTCPY58** *UUTnm addr volser -- SIO CC code, STAT status, READ BUFFER LOG COMMAND FAILED*

**Explanation:** A read buffered log CCW was issued to obtain the current buffered log for device *UUTnm* at address *addr* with volume serial number *volser*. The CCW failed with an SIO condition code of *code* and STAT of *status*.

**Solution:** None required.

**MPSTCPY59** UUT*nm* *addr volser* -- END OF DATA ERROR – ERPA X'36',  
*type* PASS

**Explanation:** A unit check was posted due to end of data being detected on the cartridge tape. This is an excepted error. The type of pass (*type*) is WRT for a write pass, RDF for a read forward pass, or RDB for a read backward pass.

**Solution:** None required.

**MPSTCPY61** UUT*nm* *addr volser* -- START *type* PASS  
(PASS NUMBER *num*)

**Explanation:** A pass has been started on test device UUT*nm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass.

**Solution:** None required.

**MPSTCPY62** UUT*nm* *addr volser* -- END *type* PASS  
(PASS NUMBER *num*)  
START DATE/TIME *mm/dd/yyyy hh:mm:ss*  
END DATE/TIME *mm/dd/yyyy hh:mm:ss*  
*type* PASS, CLOCK ELAPSED TIME *hh:mm:ss*,  
SIO ELAPSED TIME *sec.thds* SECONDS

**Explanation:** A pass has ended on test device UUT*nm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass.

The start and end date and times, as well as the elapsed time for this pass, are listed.

**Solution:** None required.

**MPSTCPY63** *UUTnm addr volser -- CU SERIAL# sn*  
**DRIVE PHYSICAL ADDRESS** *phy\_addr*  
**DRIVE LOGICAL ADDRESS** *log\_addr*

**Explanation:** This message always follows message MPSTCPY61.

**Solution:** None required.

**MPSTCPY64** *UUTnm addr-- TERMINATED DUE TO INCOMPATIBILITY,*  
**DEVICE NOT CAPABLE OF READING 3480-2/XF FORMAT**

**Explanation:** A cartridge tape written in 3480-2 XF format is mounted on device *UUTnm* at address *addr* and the device does not support 3480-2 XF format.

**Solution:** None required.

**MPSTCPY80 OK TO DESTROY DATA ON UUTnm -- ENTER 'YES' or 'NO'**

**Explanation:** Data on output device *UUTnm* will be destroyed by TAPECOPY.

**Solution:** Respond to the message:

- Enter **YES** to continue TAPECOPY. The data currently on the output tape will be destroyed when the data on the input tape is copied to the output tape.
- Enter **NO** to drop the output device. The data currently on the output tape will not be destroyed nor will the information on the input tape be copied to the output tape.

**MPSTCPY91 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the `modiFy` command for the TAPECOPY function.

**Solution:** Re-enter the `modiFy` command using the correct parameter.

**MPSTCPY96 VALID MODIFY COMMANDS FOR TAPECOPY**

**Explanation:** The modify command CMDLIST was issued to TAPECOPY. The valid modify commands for TAPECOPY follow this message.

**Solution:** None required.

**MPSTCPY97 TAPECOPY DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the TAPECOPY function.

**Solution:** None required.

**MPSTCPY98 CURRENT *message***

**Explanation:** This message is issued in response to a modify *parameter* command requesting the current value of *parameter*.

**Solution:** None required.

## Chapter 6. MPSTDEF

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### DEFINE Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for DEFINE:

**MPSTDEF00 DEFINE**

**Explanation:** The DEFINE function is executing.

**Solution:** None required.

**MPSTDEF01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the DEFINE function.

**Solution:** None required.

**MPSTDEF02 REQUIRED PARAMETER NOT SPECIFIED**

**Explanation:** A required parameter for the DEFINE function was not specified.

**Solution:** Reissue the DEFINE function with the required parameters.

**MPSTDEF03 DDNAME UUT<sub>nm</sub> ALREADY DEFINED**

**Explanation:** This DD name UUT<sub>nm</sub> has already been defined.

**Solution:** None required.

**MPSTDEF04 DEVICE *addr* ALREADY DEFINED**

**Explanation:** This device address *addr* has already been defined.

**Solution:** None required.

**MPSTDEF05 DEVICE *addr* IS AN UNSUPPORTED DEVICE TYPE - X'*type*'**

**Explanation:** This device *type* is not supported by the DEFINE function.

**Solution:** None required.

**MPSTDEF06 DDTYPE *t* IS INVALID FOR DEVICE TYPE *type***

**Explanation:** The type *t* DD card specified is invalid for this device *type*.

**Solution:** Correct the DD card type.

**MPSTDEF07 DEVICE *addr* NOT DEFINED TO THE SYSTEM**

**Explanation:** The device at address *addr* is not defined to the operating system.

**Solution:** **ADD** the device to the current device definitions.

**MPSTDEF08 DATA SET NAME *dsn* IS INVALID FOR DDTYPE *t***

**Explanation:** A type 3 or 4 DD card was specified and the data set name does not match type 3 or 4 patterns.

**Solution:** None required.

**MPSTDEF10 DEVICE *addr* FAILED TO OPEN**

**Explanation:** The device at address *addr* failed to open.

**Solution:** None required.

**MPSTDEF12 UNABLE TO ALLOCATE DEVICE *addr* - *reason***

**Explanation:** Device *addr* could not be allocated, *reasons* are:

- **DEVICE IS ONLINE OR ASSIGNED**—The DEFINE function adds offline/unassigned devices to the current device definitions.
- **DEVICE IS OFFLINE BUT IN USE**—The device is offline but it is in use by another program that allocates offline devices.
- **ASSIGN FAILED**—An attempt to assign the device failed.

**Solution:** None required.

**MPSTDEF13 UNABLE TO OBTAIN DEB STORAGE**

**Explanation:** An attempt to obtain storage for a Data Extent Block (DEB) failed.

**Solution:** None required.

**MPSTDEF15 MAXIMUM NUMBER OF DEVICES DEFINED**

**Explanation:** The maximum number of devices (eight) have been defined.

**Solution:** None required.

**MPSTDEF17 DDNAME *UUTnm* DEFINED FOR ADDRESS *addr* FOR DDTYPE *t***

**Explanation:** DD name *UUTnm* has been defined for the device at address *addr* for a type *t* DD card.

**Solution:** None required.

**MPSTDEF18 DEVICE DEFINITIONS –**

<b>DDNAME</b>	<b>ADDRESS</b>	<b>DDTYPE</b>
<i>UUTnm</i>	<i>addr</i>	<i>t</i>
...		
<i>UUTnm</i>	<i>addr</i>	<i>t</i>

**Explanation:** This message lists the devices currently defined by the DEFINE function.

- *UUTnm* is the device's DD name.
- *addr* is the device address.
- *t* is the DD card type.

**Solution:** None required.

**MPSTDEF55 CONFIRM REQUEST TO INITIALIZE DEVICE *addr* – REPLY  
Y or N**

**Explanation:** The DEFINE function requires confirmation that device *addr* can be initialized.



**Warning:** If you respond Y (yes), all data currently on this device will be destroyed. Refer to message MPSTDEF48.

**Solution:** Respond to the message:

- Y to continue device initialization.
- N to terminate.

**MPSTDEF57 VARY DEVICE *addr* OFFLINE TO ALL OTHER SYSTEMS AND  
REPLY ANY CHARACTER**

**Explanation:** Device *addr* must be varied offline to all other systems.

**Solution:** Vary device *addr* offline. Once the device has been varied offline, enter any character from the operator console to continue DEFINE function execution.

**MPSTDEF58 CONFIRM DATA ON DEVICE *addr* CAN BE DESTROYED – REPLY  
Y or N**

**Explanation:** The DEFINE function requires confirmation that the data on the volume mounted on device *addr* can be destroyed.

**Solution:** Respond to the message:

- Y if the data can be destroyed.
- N if the data cannot be destroyed.

**MPSTDEF59 'FORCE' PARAMETER IN EFFECT**

**Explanation:** The FORCE parameter was specified and no confirmation for initialization *or* data destruction will be, or was, requested.

**Solution:** None required.

**MPSTDEF99 WRITE TO OFFLINE DASD NOT ALLOWED YET**

**Explanation:** Write to offline DASD is not yet allowed. This is a future enhancement.

**Solution:** DASD devices must be online.

## Chapter 7. MPSTGSA

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### Generate Stand-alone Programs (GENSAPGM) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for the Generate Stand-alone Programs Function:

**MPSTGSA00 GENERATE STAND-ALONE PROGRAMS**

**Explanation:** The GENSAPGM (Generate Stand-Alone Programs) function of MPST is executing.

**Solution:** None required.

**MPSTGSA01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the GENSAPGM function.

**Solution:** Enter the correct parameter.

**MPSTGSA02 AN IPL *type* WILL BE GENERATED**

**Explanation:** An MPSTSAE IPL *type* is being generated. *type* can be TAPE, DISK, or MDISK.

**Solution:** None required.

**MPSTGSA03 FILE UUT<sub>nm</sub> FAILED TO OPEN**

**Explanation:** An open for file UUT<sub>nm</sub> was unsuccessful.

**Solution:** Check the job EXECs. Verify that the referenced data sets exist.

**MPSTGSA06 IPL RECORDS CANNOT BE PLACED ON VOLUME**

**Explanation:** Either IPL text (other than MPSTSAE IPL text) or user volume labels exist on the MPSTSAE IPL disk volume. The GENSAPGM function cannot replace non-MPSTSAE IPL text. MPSTSAE IPL text will not be written to the volume.

**Solution:** Obtain a different disk volume.

**MPSTGSA07 UNABLE TO READ or WRITE IPL RECORDS**

**Explanation:** A permanent error has occurred. The error indicated in messages MPSTGSA04 and MPSTGSA05 could not be successfully retried.

**Solution:** Obtain different input and output devices.

**MPSTGSA10 GENERATE STAND-ALONE PROGRAMS SUCCESSFUL**

**Explanation:** The GENSAPGM function completed successfully and an MPSTSAE IPL tape, disk or minidisk was created.

**Solution:** None required.

**MPSTGSA11 GENERATE STAND-ALONE PROGRAMS NOT SUCCESSFUL**

**Explanation:** The GENSAPGM function did not complete successfully. No MPSTSAE IPL tape, disk or minidisk was created. A prior message should indicate why the function was unsuccessful.

**Solution:** Check PRINT|RDR file, correct the problem and rerun the GENSAPGM function.

**MPSTGSA12 OUTPUT DEVICE IS NOT A 3330, 3350, 3375, 3380 or 3390**

**Explanation:** The DEVTYPE=DISK parameter specified by the defined device is not a 3330-1, 3330-11, 3350, 3375, 3380 or 3390 type device.

**Solution:** Obtain correct disk type and rerun the GENSAPGM function.

**MPSTGSA13 DEFAULT CONTROL CARD DATA --**

*(control card data)*

**DEFAULT CONTROL CARD SET *nm* CREATED**

*or*

**DEFAULT CONTROL CARD SET *nm* CONTAINS NO CARDS**

**Explanation:** Either a default control card set has just been created or the control card set contains no cards.

**Solution:** None required.

**MPSTGSA14 INVALID DEFAULT CONTROL CARD DATA**

**Explanation:** The default control card set just created had an invalid format.

**Solution:** Correct the control card set format.

**MPSTGSA15 ERROR ON WRITE TO DEVICE 4FE -- *cc rc sns***  
**SEEK/SEARCH/COUNT -- *bbcchh/cchhr/cchhrkdd***  
*or*  
**FBA START BLOCK/NUMBER BLOCKS -- *block/num***

**Explanation:** A write to the IPL minidisk, at device address 4FE, failed.

- *bbcchh*—the last seek address.
- *cchhr*—the last Search ID Equal argument.
- *cchhrkdd*—the count field of the record that could not be written.
- *block*—the start block.
- *num*—the number of blocks.

**Solution:** Check the following:

- **When *cc=1* and *rc=01***, device 4FE is not attached. Ensure that the device at address 4FE is defined and retry GENSAPGM.
- **When *cc=1* and *rc=05***, device 4FE is busy or has an interrupt pending. Retry GENSAPGM.
- **When *cc=2* and *rc=02***, unit status contained unit exception. Report this error to CSE Software Support.
- **When *cc=2* and *rc=03***, channel status contained incorrect length. Report this error to CSE Software Support.
- **When *cc=3* and *rc=0D***, a permanent I/O error occurred or an unsupported device was specified. *sns* is sense bytes 0 and 1.

If the sense data is zero or it indicates a programming problem (such as command reject or no record found), report the error to CSE Software Support.

If the sense data indicates a device error (such as a data check or an equipment check), retry GENSAPGM.

**MPSTGSA16 DATA IN FILE POSTDIST IS NOT VALID**

**Explanation:** The input data set specified by the POSTDIST DD card or FILEDEF does not contain valid input for MPST GENSAPGM or the input data is for the wrong version of MPST.

**Solution:** Check the following:

- Check the POSTDIST DD card or FILEDEF.
- Verify that the correct tape is mounted.
- Increase the number of cylinders on the 4FE device and retry GENSAPGM.

**MPSTGSA17 ACTIVE/ALTERNATE CC DATA --  
ACC/ALT DATA SET CREATED  
*or*  
ACT/ALT DATA SET EMPTY**

**Explanation:** Either an active or alternate control card set has just been created or the control card set contains no cards.

**Solution:** None required.

**MPSTGSA18 DEFAULT DEVICE DATA --  
DEFAULT DEVICE CARD CREATED  
*or*  
DEFAULT DEVICE CARD SET EMPTY**

**Explanation:** Either a default device definition card set has just been created or the device definition card set contains no cards.

**Solution:** None required.

**MPSTGSA19 INVALID DEFAULT DEVICE DATA**

**Explanation:** The default device data set just created had an invalid format.

**Solution:** Correct the device definition format and rerun GENSAPGM.

MPSTGSA20 GENERAL HELP DATA --  
GENERAL HELP DATA SET CREATED  
*or*  
GENERAL HELP DATA SET EMPTY

**Explanation:** Either a general help card set has just been created or the general help card set contains no cards.

**Solution:** None required.

MPSTGSA21 FRIEND HELP DATA --  
FRIEND HELP DATA SET CREATED  
*or*  
FRIEND HELP DATA SET EMPTY

**Explanation:** Either a StorageTekFRIEND help card set has just been created or the StorageTekFRIEND help card set contains no cards.

**Solution:** None required.



## Chapter 8. MPSTINT

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### Attention Interrupt Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Attention Interrupt:

**MPSTINT20 NO SLOTS AVAILABLE IN MPST ATTEN UCB  
TABLE FOR DEVICE *addr***

**Explanation:** MPST device *addr* is running under MVS/OS and is an attention interrupt type device. The MPST ATTEN UCB TABLE has no empty slots to support this device.

**Solution:** None required

**MPSTINT30 ENABLE PATH FOR DEVICE *addr* – REPLY 'U' TO  
CONTINUE 'C' TO CANCEL**

**Explanation:** No path was found for device *addr*.

**Solution:** To continue, vary a path **ON** for device *addr* and reply **U**. To cancel, reply **C**.

**MPSTINT40 VIO DEVICE NOT SUPPORTED BY STORAGETEK MPST**

**Explanation:** The current test device has been determined to be a VIO (virtual input output) device and is not supported by StorageTek MPST.

**Solution:** None required.

## Chapter 9. MPSTLEX

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### Library Storage Module Exerciser (LSMEXER) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for the Library Storage Module (LSM) Exerciser:

**MPSTLEX00 LIBRARY LSM EXERCISER**

**Explanation:** The library exerciser LSMEXER has started.

**Solution:** None required.

**MPSTLEX01 PARAMETER INCOMPLETE (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the LSMEXER function.

**Solution:** Enter the correct parameter.

**MPSTLEX02 DDNAME UUT<sub>nm</sub>-CONFIGURED OK -- ADDRESS *addr*  
VOLSER *volser***

**Explanation:** The cartridge tape drive UUT<sub>nm</sub> at address *addr* with volume serial number *volser* configured without error.

**Solution:** None required.

MPSTLEX03 LSMEXER SUMMARY FOR DDNAME UUT<sub>nm</sub> ADDR *addr*  
VOLSER *volser* CU SERIAL NUMBER *num*  
DR PHYSICAL ADDR *addr* DR LOGICAL ADDR *addr*

PASSES EXECUTED:  
RECORDS PROCESSED:  
TAPE MARKS PROCESSED:  
COMPARE ERRORS:  
SEQUENCE ERRORS:  
PERM READ ERRORS:  
PERM WRITE ERRORS:  
BYTES READ:  
BYTES WRITTEN:  
CU DET TEMP RD FWR:  
CU DET TEMP RD BKW:  
CU DET TEMP WRT:  
CU DET RD BLK COR:  
CU DET WRT BLK COR:  
CU DET ERG COUNT:

**Explanation:** The SUMmary for this execution of LSMEXER is printed. The number of passes executed and the number of records and tape marks processed is listed along with the total number of compare, sequence, and temporary and permanent read and write errors. The total number of bytes transferred and the number of bytes written and read is also listed.

**Solution:** None required.

**MPSTLEX04 INVALID PASSTHRU PATH PARAMETER *parm***

**Explanation:** The PASsthru parameter (*parm*) is invalid.

**Solution:** Enter the correct parameter.

**MPSTLEX05 GETMAIN FOR EXPECTED DATA BUFFER FAILED,  
DATA COMPARE NOT POSSIBLE**

**Explanation:** A GETMAIN for a portion of memory to be used for data comparison failed.

**Solution:** Increase the size of the region or partition that MPST is executing in and re-execute MPST.

**MPSTLEX06 MAXIMUM NUMBER OF DRIVES EXCEEDED FOR DEFINE**

**Explanation:** An attempt to DEFINE more than the maximum number of cartridge tape drives to LSMEXER failed. Message MPSTLEX01 displays the failing drives.

**Solution:** Reduce the number of cartridge tape drives being defined. Up to a maximum of sixty-four drives can be defined.

**MPSTLEX07 DDNAME UUT<sub>nm</sub> ERROR ON *cmd* COMMAND *text***

**Explanation:** An error occurred on device UUT<sub>nm</sub> while processing command *cmd*. Message MPSTLEX08 follows this message.

**Solution:** None required.

**MPSTLEX08 DDNAME UUT<sub>nm</sub> ADDRESS *addr* - NOT CONFIGURED - *reason***

**Explanation:** Device UUT<sub>nm</sub> at address *addr* was not configured. *reasons* for not configuring:

- DRIVE ASSIGNED TO DIFFERENT PATH—The device was assigned to another path by the HOST CPU.
- FILE PROTECTED—A test sequence with a write pass was specified but the cartridge is file protected. No testing will be done on this device.
- I/O ERROR—An I/O error occurred during configuration. The error is described in message MPSTLEX07.
- OPEN FAILED—An open for the device failed. Verify that the DD card is coded correctly.
- OS LABEL ON CARTRIDGE VOLUME—The cartridge volume mounted on this device contains a valid OS tape label. Testing will not be done on this device.
- TEST DEVICE NOT CARTRIDGE—The test device DD card for this DD name does not define a cartridge device. Verify that the DD card is correctly coded.

**Solution:** None required.

**MPSTLEX09 MAXIMUM NUMBER OF CELLS EXCEEDED FOR *function***

**Explanation:** The maximum number of Occupied or Empty cell locations was exceeded and the *function* terminates.

**Solution:** Reduce the number of Empty or OCCUPIED entries. Up to 200 each is allowed.

**MPSTLEX10 INVALID TIME PARAMETER** *time*

**Explanation:** The *time* specified for the SUMmary parameter was invalid.

**Solution:** *time* must be between 1 and 9999 minutes.

**MPSTLEX11 UUT<sub>nm</sub> addr volser -- ALL PASSES COMPLETED --**

**Explanation:** All passes specified for device UUT<sub>nm</sub> at drive *addr* with volume serial number *volser* have completed. Testing has terminated on that device for the cartridge with volume serial number *volser*.

**Solution:** None required.

**MPSTLEX12 UUT<sub>nm</sub> addr volser -- STOPPED AT OPERATOR REQUEST --**

**Explanation:** LSMEXER has detected that a stop command was entered at the operator's console. Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been stopped.

**Solution:** None required.

**MPSTLEX13 UUT<sub>nm</sub> addr volser - TERMINATED DUE TO ERROR CONDITION -**

**Explanation:** Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been terminated due to a permanent error.

**Solution:** None required.

**MPSTLEX14 GETMAIN FOR DRIVE DATA BUFFER FAILED,  
CARTRIDGE TAPE DRIVE EXERCISE NOT POSSIBLE**

**Explanation:** The DEFine parameter was entered and no memory was available for the drive data buffer. The mounts requested will not be performed.

**Solution:** If intervention is required, correct the problem and restart the program.

**MPSTLEX15 INVALID INPUT LSM PARAMETER ll**

**Explanation:** The LSM id (*ll*) for the INPut parameter was invalid.

**Solution:** The LSM id must be between 00 and 15.

**MPSTLEX16 NO CAP PANEL FOUND FOR LSM ll**

**Explanation:** No CAP panel was found for LSM *ll*.

**Solution:** This error indicates either an LMU configuration error or a hardware error.

**MPSTLEX18 num CLEANING OPERATIONS PERFORMED**

**Explanation:** This message is issued at the end of LSMEXER and indicates the number of times the cleaning cartridge was used.

**Solution:** Mark the cleaning cartridges indicating the number of passes.

**MPSTLEX19 DRIVE *addr* FAILED TO DEFINE**

**Explanation:** Dynamic device definition has failed on drive *addr*.

**Solution:** Check availability of device and retry.

**MPSTLEX20 *ddn1 addr1 volser* - CARTRIDGE WRITTEN ON *ddn2 addr2 ser\_num phy\_addr log\_addr time date***

**Explanation:** The message identifies the tape drive that created the cartridge being read and the tape drive reading the cartridge. *volser* is the volume serial number of the cartridge.

The drive reading the cartridge is identified by:

- *addr1*—The tape drive's address.
- *ddn1*—The DD name.

The drive that created the cartridge is identified by:

- *addr2*—The tape drive's address.
- *ddn2*—The DD name.
- *ser\_num*—The control unit's serial number.
- *phy\_addr*—The tape drive's physical address.
- *log\_addr*—The tape drive's logical address.

If the current pass is a read forward, *time* and *date* identify when the write pass started on the creating tape drive.

If the current pass is a read backward, *time* and *date* identify when the write pass ended on the creating tape drive.

**Solution:** None required.

**MPSTLEX21** *UUTnm addr - pass* **PASS, INCORRECT STATUS** *status* **ON**  
*cmd* **COMMAND**

**Explanation:** Incorrect *status* was received for an I/O operation for device *UUTnm* at drive *addr* during a *pass*.

**Solution:** None required.

**MPSTLEX22** *UUTnm addr volser -* **BOT LABEL RECORD MISSING,  
CARTRIDGE NOT WRITTEN BY LSMEXER**

**Explanation:** A read forward pass is being executed on test device *UUTnm* at address *addr* with volume serial number *volser*. The BOT label on the cartridge is not a BOT label that LSMEXER would write on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTLEX23** *UUTnm addr volser -* **EXPECTED EOT -**

**Explanation:** A data record was expected but an EOT label was read on a read forward pass of the cartridge on test device *UUTnm* at address *addr* with volume serial number *volser*. (The tape mark separating the data records and the EOT record was missed.) Testing on the device terminates.

**Solution:** None required.

**MPSTLEX24** *UUTnm addr volser -* **EOT LABEL RECORD MISSING**

**Explanation:** The cartridge on test device *UUTnm* at address *addr* with volume serial number *volser* mounted is missing the EOT label that LSMEXER writes on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTLEX25 UUT<sub>nm</sub> addr volser - BLOCK COUNT ERROR,  
EXPECTED *w\_num*, RECEIVED *r\_num***

**Explanation:** The number of blocks read (*r\_num*) does not compare with the number of blocks written (*w\_num*) as listed in the EOT label for the cartridge on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. This is the equivalent of an S237 ABEND. Testing on the device continues.

**Solution:** None required.

**MPSTLEX26 UUT<sub>nm</sub> addr volser - EOT LABEL RECORD MISSING -**

**Explanation:** A read backward pass is being executed on the cartridge on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* mounted. The first record read was not the EOT label, as expected; or the EOT record was not found after skipping a maximum of three tape marks. Testing on the device terminates.

**Solution:** None required.

**MPSTLEX27 UUT<sub>nm</sub> addr volser - MISSING TM BEFORE EOT RECORD -**

**Explanation:** A read backward pass is being executed on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* mounted. The EOT label was read successfully but the next record on the cartridge was not the tape mark preceding the EOT record. Testing on the device terminates.

**Solution:** None required.

**MPSTLEX28 UUTnm addr volser - UNEXPECTED BOT -**

**Explanation:** A read backward pass is being executed on test device UUTnm at address *addr* with volume serial number *volser* mounted. A data record was expected but a BOT label was read. (The tape mark separating the data records and the BOT record was missed.)

**Solution:** None required.

**MPSTLEX29 UUTnm addr volser - BOT LABEL RECORD MISSING -**

**Explanation:** The cartridge on test device UUTnm at address *addr* with volume serial number *volser* mounted is missing the BOT label that LSMEXER would write on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTLEX30 UUTnm addr volser - READ BACKWARD PASS NOT POSSIBLE**

**Explanation:** The last pass executed on test device UUTnm at address *addr* with volume serial number *volser* mounted was not a write pass or a read forward pass. A read backward pass cannot be executed.

The read backward pass is skipped and testing on the device continues.

**Solution:** Modify the TESTSEQ= parameter.

**MPSTLEX31** *UUTnm addr volser* - **WRONG LENGTH RECORD,**  
**EXPECTED *x\_num* BYTES, RECEIVED *r\_num* BYTES,**  
**RECORD *num***

**Explanation:** A record was read on test device *UUTnm* at address *addr* with volume serial number *volser* mounted that was not the length expected. LSMEXER expected record number *num* to have *x\_num* bytes but *r\_num* bytes were received.

**Solution:** None required.

**MPSTLEX33** **CARTRIDGE INIT ERROR - INVALID NUMBER OF CARTRIDGES**

**Explanation:** At initialization more cartridges were found than can fit into the CAP.

**Solution:** None required.

**MPSTLEX34** **INVALID MAGAZINE PARAMETER *parm***

**Explanation:** The MAGazine parameter entered (*parm*) is invalid.

**Solution:** Enter the correct parameter.

**MPSTLEX35** *UUTnm addr volser* - **SEQUENCE ERROR,**  
**EXPECTED RECORD|TAPE-MARK *x\_num***  
**RECEIVED RECORD|TAPE-MARK *r\_num***

**Explanation:** A sequence error occurred on test device *UUTnm* at address *addr* with volume serial number *volser* mounted. LSMEXER expected *x\_num* but received *r\_num*.

**Solution:** None required.

**MPSTLEX36** *UUTnm addr volser* - **ID FIELDS INCORRECT,**  
**RECORD** *rec* - **FIRST 4 BYTES** *ffff*, **LAST 4 BYTES** *llll*

**Explanation:** The record (*rec*) read on test device *UUTnm* at address *addr* with volume serial number *volser* had incorrect id fields. The first four bytes *ffff* did not match the last four bytes *llll*.

**Solution:** None required.

**MPSTLEX37** *UUTnm addr volser* - **UNKNOWN RECORD READ -**

**Explanation:** A short record was read on test device *UUTnm* at address *addr* with volume serial number *volser* mounted. A dump of the record follows.

**Solution:** None required.

**MPSTLEX38** *UUTnm addr volser* - **SEQUENCE ERROR,**  
**EXPECTED RECORD** *x\_rec* **RECEIVED** *r\_rec*

**Explanation:** A sequence error occurred on test device *UUTnm* at address *addr* with volume serial number *volser* mounted. LSMEXER expected record *x\_rec* but read record *r\_rec*

**Solution:** None required.

**MPSTLEX39** *UUTnm addr volser*, **RECORD** *number*

**Explanation:** The current compare record for device *UUTnm* at address *addr* with volume serial number *volser* is displayed.

**Solution:** None required.

**MPSTLEX41 UUT<sub>nm</sub> addr volser – SUMMARY FOR WRITE PASS**

**BYTES WRITTEN:**  
**RECORDS WRITTEN:**  
**TAPE MARKS WRITTEN:**  
**PERMANENT ERRORS:**  
**CU DET TEMP WRT:**  
**CU DET WRT BLK COR:**  
**CU DET ERG COUNT:**  
**CU DET TEMP DR ERR:**

**Explanation:** A write pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the write pass follows this message.

**Solution:** None required.

**MPSTLEX43 UUT<sub>nm</sub> addr volser – SUMMARY FOR READ FORWARD PASS**

**BYTES READ:**  
**RECORDS READ:**  
**TAPE MARKS READ:**  
**COMPARE ERRORS:**  
**SEQUENCE ERRORS:**  
**PERMANENT ERRORS:**  
**CU DET TEMP RD FWR:**  
**CU DET RD BLK COR:**

**Explanation:** A read forward pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the read forward pass follows this message.

**Solution:** None required.

**MPSTLEX44 UUT<sub>nm</sub> addr volser – SUMMARY FOR READ BACKWARD PASS**

**BYTES READ:**  
**RECORDS READ:**  
**TAPE MARKS READ:**  
**COMPARE ERRORS:**  
**SEQUENCE ERRORS:**  
**PERMANENT ERRORS:**  
**CU DET TEMP RD BKW:**  
**CU DET RD BLK COR:**

**Explanation:** A read backward pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the read backward pass follows this message.

**Solution:** None required.

**MPSTLEX48 UUT<sub>nm</sub> addr volser – CARTRIDGE IN ICRC FORMAT AND DRIVE IS NOT CAPABLE OF ICRC**

**Explanation:** A read forward pass has started for device UUT<sub>nm</sub> at address *addr*. The cartridge *volser* was written in ICRC format and the drive is not ICRC capable.

**Solution:** None required.

**MPSTLEX49 DEVICE *addr* NOT AVAILABLE. I/O DISABLED FOR THIS DEVICE.**

**Explanation:** Device *addr* has been defined to to the LSMEXER function using the DEFine parameter, but was not defined to MPST. I/O will not be performed on this device.

**Solution:** If you want to perform I/O on this device, the device must be defined.

**MPSTLEX51 UUT***nm addr volser* - **PERMANENT ERROR** -  
**REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num* **CMD** *chan*  
**SIO CC** *code* **STAT** *unit\_chan* **CPU** *id* **PATH** *chan*  
**SENSE** *bytes* **DESC** *message*

**Explanation:** A permanent error has occurred on test device UUT*nm* at address *addr* with volume serial number *volser* mounted. Testing on the device terminates.

- **REC-N** *rec*—The record number of the record on which the error occurred.
- **REC-LEN** *num*—The number of bytes transferred at the time of the error.
- **N-RETRY** *num*—The number of times the operation has been retried.
- **CMD** *cmd*—The channel command being executed.
- **SIO CC** *code*—The SIO condition code.
- **STAT** *unit\_chan*—The unit and channel status for CCW.
- **CPU** *id*—The CPU ID of the CPU on which the error occurred.
- **PATH** *chan*—The actual channel path on which the error occurred.
- **SENSE** *bytes*—The sense bytes.
- **DESC** *message*—A message describing the error. Some possible messages and their meanings are:
  - **CHANNEL STATUS ERROR**—The channel status byte of the CSW indicated a channel-type error.
  - **ECB NO 7F OR 41**—The event control block (ECB) completion code was not 7F (no error) or 41 (permanent error). Any other ECB code is a fatal error.
  - **EQUIPMENT CHECK**—The equipment check bit is set in the channel status.

- NOT DATA CHK OR OVRN—The error was not a data check or an overrun. Data checks and overruns are retried. All other errors are considered permanent.
- PERMANENT READ ERROR—Read error recovery failed to recover from a temporary read error. The error is now a permanent error.
- PERMANENT WRITE ERROR—Write error recovery failed to recover from a temporary write error. The error is now a permanent error.
- UNKNOWN CCW FAILED—The failing CCW could not be determined and no recovery action could be taken.

**Solution:** None required.

#### MPSTLEX53 UUT $nm$ *addr volser* - UNABLE TO REESTABLISH SEQUENCE

**Explanation:** Following a sequence error, LSMEXER attempts to get back in sync by resetting the record expected based upon the record just processed. If the record read is more than four off of the record expected, the error is too great to correct in this manner.

**Solution:** None required.

#### MPSTLEX54 UUT $nm$ *addr volser* - SIO CC *code*, STAT *code* LOAD DISPLAY COMMAND FAILED - MESSAGE = *message* SENSE *bytes*

**Explanation:** The LOAD DISPLAY command issued to device UUT $nm$  at address *addr* with volume serial number *volser* mounted failed with *message*.

**Solution:** None required.

**MPSTLEX55** *UUTnm addr volser - xx IS A NEW ERPA CODE,  
CONTACT CSE SOFTWARE SUPPORT  
SENSE bytes*

**Explanation:** An error occurred on device *UUTnm* at address *addr* with volume serial number *volser*. The ERPA code of *xx* is unsupported.

**Solution:** Notify CS Software Support of this message and give them the sense data.

**MPSTLEX56** *UUTnm addr volser - BUFFERED LOG OVERFLOW  
SENSE bytes*

**Explanation:** The buffered log overflowed for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTLEX60** *type PASS, COMMAND=cmd, DRIVE=addr,  
LSM LOCATION=llppdd00, VOLSER=volser,  
RECORD NUMBER=num*

**Explanation:** *type* is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLEX61** *UUTnm addr volser - START type PASS  
(PASS NUMBER num)*

**Explanation:** A pass has been started on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass. MPSTLEX63 follows this message.

**Solution:** None required.

**MPSTLEX62** *UUTnm addr volser - END type PASS (PASS NUMBER num)*

**Explanation:** A pass has ended on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass.

**Solution:** None required.

**MPSTLEX63** *UUTnm addr volser - CU SERIAL# sn  
DRIVE PHYSICAL ADDRESS phy\_addr  
DRIVE LOGICAL ADDRESS log\_addr*

**Explanation:** This message always follows message MPSTLEX61.

**Solution:** None required.

**MPSTLEX67** *CYCLING CLEAN CARTRIDGE volser WITH DRIVE addr AT  
LOCATION llpprrcc*

**Explanation:** The cleaning cartridge is being cycled.

**Solution:** None required.

**MPSTLEX68** *hh:mm:ss mm/dd/yyyy CARTRIDGE STATUS - message  
CARTRIDGE num, VOLSER volser, CAP-LOC llpprrcc,  
CURRLOC func llpprrcc  
MOVE counter, MOUNT counter, DMOUNT counter,  
PASSTHRU counter, MV ERR counter,  
MN ERR counter, DMN ERR counter*

**Explanation:** This message prints when the status (*message*) of the cartridges is requested by the `CARTLIST=` parameter. The original CAP location (CAP-LOC) and the current location (CURRLOC) are also displayed as part of this message.

**Solution:** None required.

**MPSTLEX69** *hh:mm:ss mm/dd/yyyy* - **CYCLED CARTRIDGE** *num*  
**FROM** *llpprrcc* **TO** *llpprrcc*

**Explanation:** This message prints when a CAP cycle is being performed with TRACE in effect.

**Solution:** None required.

**MPSTLEX70 NO CARTRIDGE DRIVE FOUND AVAILABLE FOR CARTRIDGE**  
**MOVE NUMBER** *num*

**Explanation:** The move count was equal to the mount count, enabling a mount transaction, but no drives were available. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLEX71 MOUNT FAILED** *hh:mm:ss mm/dd/yyyy*, **CART** *num*,  
**MOVE** *num*, *name*, **DRIVE** *addr*, **VOLSER** *volser*,  
**FROM** *llpprrcc*

**Explanation:** A mount transaction was issued and failed for drive *addr* volume serial number *volser* at *hh:mm:ss* on *mm/dd/yyyy* for cartridge *num*, move number *num*.

**Solution:** None required.

**MPSTLEX72** *hh:mm:ss mm/dd/yyyy* - **MOVED CARTRIDGE** *num*  
**FROM** *llpprrcc* **TO** *llpprrcc*

**Explanation:** The move for cartridge *num* was completed from LSM location *llpprrcc* to *llpprrcc*. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLEX73** *hh:mm:ss mm/dd/yyyy* - MOUNTED CARTRIDGE *num*  
ON DRIVE *addr* AT *llppdd00* FROM *llpprrcc*

**Explanation:** The mount for cartridge *num* was completed on drive *addr* at LSM location *llppdd00* from *llpprrcc*. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLEX74** *hh:mm:ss mm/dd/yyyy* - MOVE FAILED FOR CARTRIDGE  
MOVE NUMBER *num* FROM *llpprrcc* TO *llpprrcc*

**Explanation:** The MOVE failed for cartridge *num* from LSM location *llpprrcc* to *llpprrcc*.

**Solution:** None required.

**MPSTLEX75** *hh:mm:ss mm/dd/yyyy* - EXCEEDED THE ERROR LIMIT  
OF *num* FOR CONSECUTIVE ERRORS

**Explanation:** The number of errors has exceeded the limit (*num*) of errors (ELIMIT). The exercise terminates.

**Solution:** None required.

**MPSTLEX76** *hh:mm:ss mm/dd/yyyy* - EXCEEDED THE ERROR LIMIT  
OF *num* FOR DRIVE *addr* - DRIVE WILL NO LONGER BE USED

**Explanation:** The number of errors has exceeded the limit (*num*) of errors (DELIMIT) for cartridge tape drive *addr*. This drive will no longer be used.

**Solution:** None required.

**MPSTLEX77** *hh:mm:ss mm/dd/yyyy* - EXCEEDED THE ERROR LIMIT  
OF *err\_num* FOR CARTRIDGE *num* - CARTRIDGE WILL NO  
LONGER BE USED

**Explanation:** The number of errors has exceeded the limit of errors (CELIMIT) for cartridge number *num*. This cartridge will no longer be used.

**Solution:** None required.

**MPSTLEX78** *hh:mm:ss mm/dd/yyyy* - FATAL ERROR FOR DRIVE *addr* -  
DRIVE WILL NO LONGER BE USED

**Explanation:** A fatal error has occurred on drive *addr*. This drive will no longer be used.

**Solution:** If intervention is required, correct the condition and restart the program.

**MPSTLEX79** *hh:mm:ss mm/dd/yyyy* - FATAL ERROR FOR CARTRIDGE *num*  
- CARTRIDGE WILL NO LONGER BE USED

**Explanation:** A fatal error has occurred on cartridge *num*. This cartridge will no longer be used.

**Solution:** None required.

**MPSTLEX80** *hh:mm:ss mm/dd/yyyy* - NO CARTRIDGES AVAILABLE -  
LSMEXER TERMINATING

**Explanation:** No cartridges were available for movement. Either no cartridges were placed into the CAP or all cartridges were removed from use due to errors. LSMEXER terminates.

**Solution:** If intervention is required, correct the problem and restart the program.

**MPSTLEX81 STARTING MOVE # *counter*, USING CARTRIDGE # *num***

**Explanation:** This message prints if TRACE is active and move *counter* using cartridge *num* has started.

**Solution:** None required.

**MPSTLEX82 *hh:mm:ss mm/dd/yyyy* - NO LSM AVAILABLE - LSMEXER TERMINATING**

**Explanation:** LSMEXER has ended.

**Solution:** None required.

**MPSTLEX83 - SUMMARY FOR LSM *ll hh:mm:ss mm/dd/yyyy* -  
 CODE COMPAT LEVEL=*xx*  
 DUAL LMU IS|IS NOT CONFIGURED,  
 MASTER IS *addr1*,  
 STANDBY IS READY|NOT\_READY, *addr2*  
*num* LSM FIRST USED *hh:mm:ss mm/dd/yyyy*  
*num* CARTRIDGES SUCCESSFULLY MOVED IN THIS LSM  
*num* DRIVES SUCCESSFULLY MOUNTED IN THIS LSM  
*num* DRIVES SUCCESSFULLY DISMOUNTED IN THIS LSM  
*num* DRIVES CLEANED IN THIS LSM  
*num* CARTS ENTERED THIS LSM THRU A PASSTHRU PORT  
*num* CARTS EXITED THIS LSM THRU A PASSTHRU PORT  
*num* MOVE TRANSACTION ERRORS ENCOUNTERED WITH THIS  
 LSM  
*num* MOUNT TRANSACTION ERRORS ENCOUNTERED WITH THIS  
 LSM  
*num* DISMOUNT TRANSACTION ERRORS ENCOUNTERED WITH  
 THIS LSM  
*num* DRIVE ERRORS ENCOUNTERED WITH THIS LSM  
*num* CAP CYCLES PERFORMED**

**Explanation:** The status for LSM *ll* is printed. Either LSMEXER has ended or the time specified by the SUMMARY parameter has expired.

**Solution:** None required.

**MPSTLEX84 CLEANUP – MOVING CARTRIDGES BACK TO THE CAP**

**Explanation:** LSMEXER has ended and cleanup is moving the cartridges back to their original starting positions in the CAP.

**Solution:** None required.

**MPSTLEX85 CARTRIDGE # *num*, ORIGINAL LOCATION=*llpprrcc*,  
VOLSER=*volser* CAP *num***

**Explanation:** The CAP has completed its audit and the 20 cartridge volsers in the CAP are *volser* if a label was read, \*NONE\* if cartridge *num* had no label, or \*EMPTY\* if no cartridge was found in location *llpprrcc*.

**Solution:** None required.

**MPSTLEX86 LSM USAGE – HOST CPU TIMES – INCLUDES SYSTEM OVERHEAD**

*num* TOTAL CARTRIDGE MOVEMENTS

*hhhhh:mm:ss* TOTAL TIME FOR LSM EXERCISER RUN

*hhhhh:mm:ss* AVERAGE TIME FOR A CARTRIDGE MOVE

*hhhhh:mm:ss* ESTIMATED TIME FOR 2000 CARTRIDGE MOVES

**Explanation:** This message prints after all LSM summary messages have been printed. The status reflects the times computed by the host CPU including any overhead time due to host activity.

**Solution:** None required.

**MPSTLEX87 *hh:mm:ss mm/dd/yyyy* – LSM *num* NOT READY – WILL NO LONGER BE USED**

**Explanation:** LSM *num* went not ready at *hh:mm:ss mm/dd/yyyy* and will no longer be used.

**Solution:** None required.

**MPSTLEX88** *hh:mm:ss mm/dd/yyyy* **CYCLING CARTRIDGE IN/OUT OF CAP**

**Explanation:** LSMEXER is cycling the cartridge back to the CAP and then moving the next CAP cartridge to be tested. This occurs if CAPCYCLE= was specified.

**Solution:** None required.

**MPSTLEX89 VALID MODIFY COMMAND FOR LSMEXER**

**Explanation:** The modify command CMDLIST was issued to LSMEXER. The valid modify commands for LSMEXER follow this message.

**Solution:** None required.

**MPSTLEX90 LSM CELL USAGE MAP**

**Explanation:** This message lists the number of cartridges inserted into all possible LSM cells whenever the MAP parameter is specified.

**Solution:** None required.

**MPSTLEX91 PARAMETER ERROR (*parm*)**

**Explanation:** Parameter (*parm*) is either coded incorrectly or is invalid for the modify command for the LSMEXER function.

**Solution:** Enter the correct modify parameter.

**MPSTLEX92 NO LSM AVAILABLE FOR RANDOM GENERATION**

**Explanation:** No LSMs were found available for generating a random cell location. The current cartridge will not be moved, the consecutive error counter will increment, and the next cartridge will be tried.

**Solution:** None required.

**MPSTLEX93 INVALID PANEL TYPE - *type* - FOR RANDOM GENERATION**

**Explanation:** The panel *type* passed by the LSM status data was invalid.

**Solution:** None required.

**MPSTLEX94 RANDOM GENERATED LOCATION NOT AVAILABLE - TRYING ANOTHER LSM/CARTRIDGE**

**Explanation:** This message prints if TRACE is active and the random locations generated were not available after 16 attempts. If PASsthru is enabled, a location in another LSM will be tried. If PASsthru is not enabled, this cartridge will be skipped for this move.

**Solution:** None required.

**MPSTLEX95 *check\_a* COUNT SAME AS *check\_b* COUNT, *check\_a* HAS BEEN CHANGED TO *count***

**Explanation:** The mount and passthru check counts were the same. One of the counts was changed to *count*.

**Solution:** None required.

**MPSTLEX96 PASSTHRU COUNT WAS AN EVEN MULTIPLE OF MOUNT COUNT, PASSTHRU COUNT HAS BEEN CHANGED TO *count***

**Explanation:** The passthru check count was an even multiple of the mount check count and has been changed to *count*.

**Solution:** None required.

**MPSTLEX97 LSMEXER DOES NOT SUPPORT MODIFY (*parm*)**

**Explanation:** The modify parameter (*parm*) is not supported by the LSMEXER function.

**Solution:** Enter the correct modify parameter.

**MPSTLEX98 CURRENT** *message*

**Explanation:** This message is issued in response to a `modify parameter` command requesting the current value of `parameter`.

**Solution:** None required.

**MPSTLEX99 ERRORS MAY OCCUR IF LSMEXER IS RUN CONCURRENT WITH HSC or LDL – USE HSC COMMAND "CAPPREF" TO MINIMIZE THE CAP ERROR PROBLEM – REPLY GO TO CONTINUE or ANYTHING ELSE TO QUIT**

**Explanation:** The following conditions could effect the function of LSMEXER if:

- LSMEXER is run concurrently with the host software component (HSC) there is a possibility that the HSC CAP task will abend if it tries to reserve a CAP already reserved by MPST.
- MPST uses an empty cell just prior to HSC also using that cell, HSC will try to eject the MPST cartridge.
- The HOSTID used by MPST is also being used by HSC, the LMU will alternate all messages and responses between HSC and MPST.
- LSMEXER is run concurrently with LDL diagnostics, a conflict may occur causing LMU errors.

**Solution:** If the HSC command `CAPPREF` is issued for each HSC HOSTID, the problem with a CAP being reserved is minimized.



**Hint:** If you want to continue running LSMEXER, reply **GO** to this message.



## Chapter 10. MPSTLIB

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### Library Mount (LIBMOUNT) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Library Mount:

**MPSTLIB00 LIBMOUNT**

**Explanation:** The LIBMOUNT program has been loaded and started.

**Solution:** None required.

**MPSTLIB01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the LIBMOUNT function.

**Solution:** Enter the correct parameter.

**MPSTLIB02 MAXIMUM NUMBER OF *message* EXCEEDED FOR *parm***

**Explanation:** The maximum number of cartridge tape drives or requests has been exceeded for the parameter (*parm*) being decoded.

**Solution:** None required.

**MPSTLIB03 INVALID PARAMETER DATA - *type* - *data***

**Explanation:** The parameter data entered is invalid.

**Solution:** Enter the correct parameter data.

**MPSTLIB04 LMU INITIALIZATION ERROR**

**Explanation:** The HOST tried to initialize the LMU and failed. The LMU is either not attached, not defined, or failed.

**Solution:** Issue the LMU command to determine if the LMU exists.

**MPSTLIB05 I/O ERROR ...**

**Explanation:** An error occurred while executing a transaction with the LMU.

**Solution:** None required.

**MPSTLIB06 SENDING TRANSACTION TO LMU - *transaction***

**Explanation:** The *transaction* is being sent to the LMU. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB07 TIMEOUT - RESENDING TRANSACTION TO LMU - *transaction***

**Explanation:** The *transaction* is being resent to the LMU. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB08 NO VALID *msg* IN *sec* SECONDS FROM THE LMU, SEQ # *num* FOR *transaction***

**Explanation:** The *transaction* was sent to the LMU and no *msg* (acknowledge or response) was received from the LMU in *sec* seconds. The sequence number for the transaction is # *num*.

**Solution:** None required.

**MPSTLIB09 I/O ERROR ...**

**Explanation:** An error occurred while executing a read following an attention interrupt.

**Solution:** None required.

**MPSTLIB10 UNKNOWN RESPONSE RECEIVED - *data***

**Explanation:** An interrupt was received from the LMU but the *data* it presented was not recognized as valid data. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB11 MESSAGE FROM LMU – *message***

**Explanation:** A message was received from the LMU.

**Solution:** None required.

**MPSTLIB12 ERROR RESPONSE FROM LMU – *error\_transaction***

**Explanation:** An interrupt was received from the LMU and the response set the error indicator.

**Solution:** None required.

**MPSTLIB13 INVALID REQUEST TYPE – *message***

**Explanation:** An invalid request was issued to LIBMOUNT.

**Solution:** Enter a valid request.

**MPSTLIB14 EXCEED THE ALLOWED NUMBER OF DRIVES**

**Explanation:** An attempt to DEFINE a drive failed because no more drives are allowed.

**Solution:** Reduce the number of cartridge tape drives being defined. Up to a maximum of 64 drives can be defined.

**MPSTLIB15 *request* FAILED – DRIVE *addr* NOT DEFINED**

**Explanation:** A *request* to LIBMOUNT for a cartridge tape drive at address *addr* failed because the drive was not defined.

**Solution:** DEFINE the drive.

**MPSTLIB16 *request* FAILED – DRIVE *addr* ALREADY MOUNTED**

**Explanation:** A *request* to LIBMOUNT to mount a cartridge on drive *addr* failed because a cartridge is already mounted on that drive.

**Solution:** Mount the cartridge to another drive or issue a DISMount/MOUNT command to the drive.

**MPSTLIB17 INVALID BLOCK DATA FROM LMU - *block\_data***

**Explanation:** An interrupt was received from the LMU, and the *block\_data* is invalid.

**Solution:** None required.

**MPSTLIB18 INVALID TRANSACTION DATA FROM LMU - *transaction***

**Explanation:** The format of the data in the *transaction* received from the LMU is invalid.

**Solution:** None required.

**MPSTLIB19 *request* FAILED - DRIVE *addr* NOT MOUNTED**

**Explanation:** A *request* to LIBMOUNT to dismount a cartridge on drive *addr* failed because the drive is not mounted.

**Solution:** None required.

**MPSTLIB20 INVALID DRIVE PANEL LOCATION - *llppdd00***

**Explanation:** The location *llppdd00* is not a valid drive location in the LSM.

**Solution:** **DEFine** a valid location.

**MPSTLIB21 INVALID CELL PANEL LOCATION - *llpprrcc***

**Explanation:** The location *llpprrcc* is not a valid cell location in the LSM.

**Solution:** Specify a valid location.

**MPSTLIB22 EXCHANGE FAILED *addr1* - *addr2***

**Explanation:** The exchange request between drives *addr1* and *addr2* failed.

**Solution:** None required.

**MPSTLIB23 SWAP FAILED** *addr1 - addr2*

**Explanation:** The SWAp request between drives *addr1* and *addr2* failed.

**Solution:** None required.

**MPSTLIB24 PRIMARY|SECONDARY LMU CLOSE ERROR**

**Explanation:** An attempt to disband either the PRIMARY or SECONDARY LMU failed.

**Solution:** None required.

**MPSTLIB25 CLEANUP FAILED FOR DRIVE - *addr***

**Explanation:** An attempt to MOVE the cartridge from drive *addr* back to the last location for that cartridge failed.

**Solution:** None required.

**MPSTLIB26 BLOCK ERROR FROM LMU - *transaction***

**Explanation:** The *transaction* data received from the LMU was in error.

**Solution:** None required.

**MPSTLIB27 ERROR EXECUTING ...**

**Explanation:** An error occurred while executing a block ACK to the LMU.

**Solution:** None required.

**MPSTLIB28 DEFINED DRIVE - *addr***

**Explanation:** Drive *addr* has been defined.

**Solution:** None required.

**MPSTLIB29** *function* DRIVE - *addr* - *request* CARTRIDGE FROM  
LSM *ll*, PANEL *pp*, ROW *rr*, COLUMN *cc*  
NO\_CARTRIDGE|CARTRIDGE IN DRIVE

**Explanation:** This message only prints if LIBMOUNT was called by controls cards and the status of a cartridge has changed.

**Solution:** None required.

**MPSTLIB30** DRIVE UNAVAILABLE AT LOCATION *llpprrcc* STATUS *msg*

**Explanation:** The drive is unavailable at location *llpprrcc*. Possible *messages* are:

- LOADED CARTRIDGE INSTALLED
- NOT AVAILABLE
- NOT COMMUNICATING
- UNKNOWN
- UNLOADED CARTRIDGE INSTALLED

**Solution:** None required.

**MPSTLIB31** LSM *ll* IS NOT READY

**Explanation:** LSM status indicates that LSM *ll* is not ready.

**Solution:** None required.

**MPSTLIB32** *ll* IS NOT CONFIGURED

**Explanation:** LMU configuration data indicates that LSM *ll* is not configured.

**Solution:** None required.

**MPSTLIB33 LSM *ll* FAILED TO GO ONLINE|OFFLINE**

**Explanation:** A VARY LSM command (ONLINE or OFFLINE) issued to LSM *ll* failed.

**Solution:** None required.

**MPSTLIB34 DRIVE NOT FOUND AT LOCATION *llppdd00***

**Explanation:** A MOUNt was issued to a drive at LSM location *llppdd00* and no drive is located there.

**Solution:** None required.

**MPSTLIB35 *transaction* TRANSACTION CCW RETRY, CCW=*cc* STATUS=*ss* SENSE BYTE 0=*bb***

**Explanation:** A *transaction* was sent to the LMU and is being retried.

**Solution:** None required.

**MPSTLIB36 *transaction* REQUEST FAILED FOR DRIVE *addr***

**Explanation:** A *transaction* request issued to drive *addr* failed.

**Solution:** None required.

**MPSTLIB37 MOVE REQUEST FAILED – LOCATION *llpprrcc* NOT CURRENT EXERCISER LOCATION**

**Explanation:** A cartridge movement (MOVE) transaction is about to be issued but there is no active cartridge at location *llpprrcc*.

**Solution:** Specify an occupied location.

**MPSTLIB38 MOVE REQUEST FAILED – CARTRIDGE NUMBER *num* –  
FROM *llpprrcc* TO *llpprrcc***

**Explanation:** A MOVE request transaction was issued for cartridge *num* at LSM location *llpprrcc* and the request failed.

**Solution:** None required.

**MPSTLIB39 MOVE CARTRIDGE *num* FROM *llpprrcc* TO *llpprrcc***

**Explanation:** Cartridge *num* was successfully moved from LSM location *llpprrcc* to LSM location *llpprrcc*. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB40 CLEANUP FAILED FOR CARTRIDGE *num* AT *llpprrcc***

**Explanation:** The exerciser was trying to put cartridges back into the CAP. Cartridge *num* at LSM location *llpprrcc* was not entered into the CAP.

**Solution:** None required.

**MPSTLIB41 CAP *num* RESERVE|RELEASE FOR LSM *ll* FAILED**

**Explanation:** A REServe or RELease command issued to LSM *ll* CAP *num* failed.

**Solution:** None required.

**MPSTLIB42 CATALOG OF *request from-to* IN LSM *ll* FAILED,  
CURRENT RESPONSE COUNT=*num* LAST COUNT=*num***

**Explanation:** A CATALOG (audit) *request* issued for cells *from-to* for LSM *ll* failed. The responses received resulting from the request is *num* for both LAST COUNT and CURRENT RESPONSE COUNT.

**Solution:** None required.

**MPSTLIB43 CAP *num* ENTER|EJECT for LSM *ll* FAILED**

**Explanation:** An ENTER or EJECT command issued to LSM *ll* CAP *num* failed.

**Solution:** None required.

**MPSTLIB44 SHPG – *message* FAILED.**

**Explanation:** A Set Host Path Group transaction has failed for *message*.

**Solution:** None required.

**MPSTLIB45 INSERT|REMOVE YOUR CARTRIDGES INTO|FROM LSM *ll*'S CAP**

**Explanation:** The LSM exerciser has started or ended and the test cartridges must be inserted into or removed from the CAP at LSM location *ll*.

**Solution:** Insert or remove the cartridge.

**MPSTLIB46** *hh:mm:ss mm/dd/yy* **CATALOG DATA RESPONSE FOR**  
**LSM *ll* type panel loc\_type**  
*start\_cell end\_cell type loc\_type*  
**VOLSER DESCRIPTION** *description panel cell,*  
*volser description,*  
 ...  
*volser description*

**Explanation:** The CATALOG audit has ended for LSM *ll*.

**Solution:** None required.

**MPSTLIB47 CAP DOOR OPENED|CLOSED**

**Explanation:** The CAP door has been opened or closed in response to an ENTER or EJECT command.

**Solution:** None required.

**MPSTLIB48 CARTRIDGE LOST|STUCK**

**Explanation:** The cartridge listed in the previously displayed error message was lost or stuck.

**Solution:** Manually locate the cartridge.

**MPSTLIB49 DRIVE *addr* WAS STILL ACTIVE WHEN UNDEFINED**

**Explanation:** When cartridge tape drive *addr* was undefined after a DISMount transaction was attempted, drive *addr* was found active.

**Solution:** None required.

**MPSTLIB50 *num* RETRY WAITS, SEQ *#trans* - *message***

**Explanation:** MPST waited for *num* wait periods for transaction sequence *#trans* to either complete or fail. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB51 LOST ACK FOR SEQ *#trans* - *message***

**Explanation:** The acknowledgement for transaction sequence *#trans* has been lost and a response was detected for the transaction request. The transaction will be completed as if ACK was received.

**Solution:** None required.

**MPSTLIB52 CAP *num* ALREADY RESERVED TO HOSTID *id***

**Explanation:** CAP *num* cannot be reserved to HOSTID *id* because the specified CAP is already reserved to another HOST id.

**Solution:** None required.

**MPSTLIB53 CAP *num* RESERVED TO HOSTID *id***

**Explanation:** CAP *num* was successfully reserved to HOSTID *id*.

**Solution:** None required.

**MPSTLIB54 CAP *num* RELEASED FROM HOSTID *id***

**Explanation:** CAP *num* was successfully released from HOSTID *id*.

**Solution:** None required.

**MPSTLIB55 CAP *num* RESERVED FROM HOSTID *id* - CANNOT BE RELEASED**

**Explanation:** A CAP RElease command from HOSTID *id* to CAP *num* failed. The CAP is REServed to another HOSTID.

**Solution:** None required.

**MPSTLIB56 CAP NOT RESERVED TO THIS HOSTID - CANNOT PERFORM CAP ENTER**

**Explanation:** A CAP ENter command was requested but failed. The CAP is not reserved to the requesting HOST.

**Solution:** None required.

**MPSTLIB57 CAP NOT RESERVED TO THIS HOSTID - CANNOT PERFORM CAP EJECT**

**Explanation:** A CAP Eject command was requested but failed. The CAP is not reserved to the requesting HOST.

**Solution:** None required.

**MPSTLIB58 RETRY *num* – LMU BUFFER FULL ERROR CODE 0411**

**Explanation:** A command was retried *num* times, but the LMU buffer is full.

**Solution:** None required.

**MPSTLIB59 LSM *ll* STATUS = READY|NOT\_READY, *message*  
 HAND 1|0 *status*, *cart\_status*  
 CAP *status*, CAP DOOR OPEN|CLOSED, *res\_status*  
 LSM DOOR OPEN|CLOSED  
 DRIVE *num status*, CLEAN STATUS=*status*  
 ...  
 DRIVE *num status*, CLEAN STATUS=*status*  
 PASSTHRU PORT *num*, *status*, SLAVE LSM *num***

**Explanation:** The status is listed for LSM *ll*, and the status for all configured LSMs will be printed. *message* is:

- ONLINE or OFFLINE,
- OFFLINE PENDING, or
- MAINTENANCE MODE.

**Solution:** None required.

**MPSTLIB60 SENDING *message* ACK TO LMU – *transaction***

**Explanation:** This message prints if TRACE is active. *message* is the block message and *transaction* is the first 23 characters of the transaction.

**Solution:** None required.

**MPSTLIB61 RESENDING *message* ACK TO LMU – *transaction***

**Explanation:** This message prints if TRACE is active. *message* is the block message and *transaction* is the first 23 characters of the transaction.

**Solution:** None required.

**MPSTLIB62** *hh:mm:ss mm/dd/yyyy* **VERIFY VOLSER MISMATCH AT CELL** *num*

**Explanation:** The volser at cell *num* had a mismatch for either the first, second, or third pass of a verify request.

**Solution:** None required.

**MPSTLIB63** *hh:mm:ss mm/dd/yyyy* **NO VOLSER AT CELL** *num*

**Explanation:** No volser was found at cell location *num*.

**Solution:** None required

**MPSTLIB64** **OPEN AND CLOSE LSM** *ll*'S **CAP** *num* **DOOR**

**Explanation:** A CAP cycle is being performed with the CAPDOOR=YES parameter active. CAP *num* for LSM *ll* is to be opened and closed as part of the CAP cycle.

**Solution:** Open and close the CAP door.

**MPSTLIB66** **CARTRIDGE NUMBER** *num*, **VOLSER** *volser*, *message*

**Explanation:** This message prints when a cartridge recovery has been issued. *message* will be one of the following:

- LOCATED IN TRANSITION – RETRY REQUEST
- LOCATED AT SOURCE – TABLES NOT CHANGED
- LOCATED AT DESTINATION – TABLES UPDATED
- NOT LOCATED – CARTRIDGE LOST

**Solution:** None required.

**MPSTLIB70** LMU *addr* MASTER|STANDBY  
INTERFACE COMPATIBILITY LEVELS,  
LMU=*lv*, HOST=*lv*, RUN=*lv*

**Explanation:** This message prints at initialization of LIBMOUNT or LSMEXER. *lv* is the level of firmware.

**Solution:** None required.

**MPSTLIB71** OPEN ERROR ON *addr*

**Explanation:** An open error occurred on LMU *addr*.

**Solution:** None required.

**MPSTLIB72** ONLY ONE LMU, CANNOT PERFORM SWITCH

**Explanation:** An LMU switch was requested but only one LMU is configured.

**Solution:** None required.

**MPSTLIB73** DUAL LMU IS|IS\_NOT CONFIGURED,  
MASTER IS LMU A|B|0, *addr1*,  
STANDBY IS READY|NOT\_READY, *addr2*

**Explanation:** This message prints at initialization of LIBMOUNT or LSMEXER.

- *addr1* is the address of the master LMU if dual LMU is running, or the address of the LMU if dual LMU is not running.
- *addr2* is the address of the standby LMU if dual LMU is running.

**Solution:** None required.

**MPSTLIB74 DUAL LMU SWITCH ATTEMPT FAILED, SWITCHING A|B, *addr*, TO NEW MASTER, *failure\_type***

**Explanation:** A force or auto switch-over request failed with dual-LMU running.

- *addr* is the standby address.
- *failure\_type* is the type of switch-over failure that occurred.

**Solution:** None required.

**MPSTLIB75 NO FUNCTIONAL LMU**

**Explanation:** This message prints if a functional LMU cannot be found.

**Solution:** None required.

**MPSTLIB76 *hh:mm:ss mm/dd/yyyy* WAITING FOR *message***

**Explanation:** This message prints if TRACE is active. *message* will be one of the following:

- ACKNOWLEDGE
- RESPONSE
- LMU SWITCH

**Solution:** None required.

**MPSTLIB77 NEW MASTER|STANDBY LMU *addr* FAILED TO JOIN**

**Explanation:** An LMU join request failed. The MASTER|STANDBY LMU at address *addr* failed to join the HOST.

**Solution:** None required.

**MPSTLIB78 STANDBY LMU FAILED TO JOIN AFTER RESUMING COMMUNICATIONS**

**Explanation:** Communications between the master LMU and the standby LMU have been re-established. The standby LMU still failed to join with the HOST.

**Solution:** None required.

**MPSTLIB79 *hh:mm:ss mm/dd/yyyy* CHECKING FOR LMU SWITCH-OVER**

**Explanation:** An attention interrupt was received from the standby LMU. This message prints if TRACE is active.

**Solution:** None required.

**MPSTLIB91 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the modify command for the LIBMOUNT function.

**Solution:** Enter the command using the correct parameter.

**MPSTLIB96 VALID MODIFY COMMAND FOR LIBMOUNT**

**Explanation:** The modify command CMDLIST= was issued to LIBMOUNT. The valid modify commands for LIBMOUNT follow this message.

**Solution:** None required.

**MPSTLIB97 LIBMOUNT DOES NOT SUPPORT MODIFY PARM (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the LIBMOUNT function.

**Solution:** Enter the correct modify parameter.

**MPSTLIB98 CURRENT** *message*

**Explanation:** This message is issued in response to a modify QUERY command for the LIBMOUNT function and displays the current value for the requested parameter.

**Solution:** None required.

**MPSTLIB99 ERRORS MAY OCCUR IF LIBMOUNT IS RUN CONCURRENT WITH HSC or LDL – USE HSC COMMAND 'CAPPREF' TO MINIMIZE THE CAP ERROR PROBLEM – REPLY GO TO CONTINUE or ANYTHING ELSE TO QUIT**

**Explanation:** The following conditions could effect the function of LIBMOUNT:

- If LIBMOUNT is run concurrently with the host software component (HSC), there is a possibility of causing the HSC CAP task to abend if it tries to reserve a CAP already reserved by MPST.
- If MPST uses an empty cell just prior to HSC also using that cell, HSC tries to eject the MPST cartridge.
- Also, if the HOSTID used by MPST is also being used by HSC, the LMU alternates all messages and responses between HSC and MPST.
- If LIBMOUNT is run concurrently with LDL diagnostics, a conflict may occur causing LMU errors.

**Solution:** If the HSC command CAPPREF is issued for each HSC HOSTID, the problem is minimized.



**Hint:** If you want to continue running LIBMOUNT, reply **GO** to this message.

## Chapter 11. MPSTLOK

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### Library Look (LIBLOOK) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Library Look:

**MPSTL0K00 LIBRARY LOOK**

**Explanation:** The LIBLOOK program has been loaded and started.

**Solution:** None required.

**MPSTL0K01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the LIBLOOK function.

**Solution:** Enter the command using the correct parameter.

**MPSTL0K02 PARAMETER INCOMPLETE *parm***

**Explanation:** The parameter (*parm*) is incomplete.

**Solution:** Enter the complete parameter.

**MPSTL0K04 LSM *ll* CONFIGURATION**

PANEL	DESCRIPTION
<i>pp</i>	<i>panel type</i>
..	....
<i>pp</i>	<i>panel type</i>

**Explanation:** The configuration for panels *pp* through *pp* is listed for LSM *ll*.

**Solution:** None required.

**MPSTLOK05** LSM *ll* STATUS= *ready\_status*, *line\_status*  
 HAND *h* status, *cartridge\_status*  
 CAP *a* status, CAP DOOR *door\_status* reserve\_status  
 LSM DOOR OPEN|CLOSED  
 DRIVE *dd* transport\_status, CLEAN STATUS= required  
 .. .. . . . . . , .. ... ..  
 DRIVE *dd* transport\_status, CLEAN STATUS= required  
 PASS-THRU-PORT *p* port\_status, SLAVE LSM *sl*  
 SLOT 1 stats SLOT 2 stats SLOT 3 stats SLOT 4 stats

**Explanation:** The status of LSM *ll* is listed.

**Solution:** None required.

**MPSTLOK06 MAXIMUM NUMBER OF PANEL REQUEST EXCEEDED FOR LIST**

**Explanation:** The maximum number of panel audit requests (200) has been exceeded.

**Solution:** Respecify the number of panel audit requests.

**MPSTLOK07 MAXIMUM NUMBER OF CAP REQUEST EXCEEDED FOR LIST.**

**Explanation:** The maximum number of CAP audit requests (200) has been exceeded.

**Solution:** Respecify the number of CAP audit requests.

**MPSTLOK08 MAXIMUM NUMBER OF DRIVE REQUEST EXCEEDED FOR LIST.**

**Explanation:** The maximum number of cartridge tape drive audit requests (200) has been exceeded.

**Solution:** Respecify the number of cartridge tape drive audit requests.

**MPSTLOK09 MAXIMUM NUMBER OF CAP PARAMETERS EXCEEDED**

**Explanation:** The maximum number of CAP parameters (100), which result in CAP audit requests, has been exceeded.

**Solution:** Respecify the number of CAP parameters.

**MPSTLOK10 STOPPED BY OPERATOR REQUEST**

**Explanation:** The stop command was entered by the operator.

**Solution:** None required.

**MPSTLOK11 PARAMETER FLUSHED – CAP or CELL SELECTED, *cap\_parm* INVALID FOR *lsm\_device***

**Explanation:** The CAP parameter entered (*cap\_parm*) is invalid for the *lsm\_device*.

**Solution:** Use the modify command to enter the correct *cap\_parm*.

**MPSTLOK12 INVALID END COLUMN, NOT 19 or 23**

**LIST ENTRY = LSM *ll* PANEL *pprrcc-rrcc***

**Explanation:** The panel list parameters found by the LIBLOOK function are corrupted.

**Solution:** Exit MPST and notify CS Software Support. The printer output should be retained and given to CS Software Support.

**MPSTLOK13 INVALID PANEL NUMBER FOR 9740 DRIVE**

**LIST ENTRY = LSM *num* DRIVE *ppdd-dd***

**Explanation:** The panel number (*pp*) entered for a 9740 drive is invalid.

**Solution:** Respecify the panel number.

**MPSTLOK17 ERROR INITIALIZING LIBMOUNT**

**Explanation:** LIBLOOK tried to load the LIBMOUNT function and failed.

**Solution:** Exit MPST and notify CS Software Support. The printer output should be retained and given to CS Software Support.

**MPSTLOK20 TOTAL AUDIT TIME = *hh:mm:ss*,  
NUMBER OF AUDITABLE CELLS = *num*  
AVERAGE TIME / CELL = *hh:mm:ss:th***

**Explanation:** The audit request has ended. The time to run, the number of cells that were actually audited, and the average time per cell are listed.



**Hint:** Remember if VERify or VERIFYON was specified, the total time and cell count is three times that requested.

**Solution:** None required.

**MPSTLOK91 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the command for the LIBLOOK function.

**Solution:** Enter the command using the correct parameter.

**MPSTLOK95 USE MODIFY COMMAND TO ENTER PANe1, CAP, DRive, AND/OR END PARAMETERS**

**Explanation:** The LIBLOOK function is ready to accept commands via the **modiFy** command. This message is repeated, after the function processes input parameter, until an **END** parameter is received.

**Solution:** None required.

**MPSTLOK96 VALID MODIFY COMMANDS FOR LIBLOOK**

**Explanation:** The modify command CMDLIST was issued to LIBLOOK. The valid modify commands for LIBLOOK follow this message.

**Solution:** None required.

**MPSTLOK97 LIBLOOK DOES NOT SUPPORT MODIFY PARM (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the LIBLOOK function.

**Solution:** Enter the correct **modify** parameter.

**MPSTLOK98 CURRENT *message***

**Explanation:** This message is issued in response to a modify QUERY command for the LIBLOOK function and displays the current value for the requested parameter.

**Solution:** None required.

**MPSTLOK99 ERRORS MAY OCCUR IF LIBLOOK IS RUN CONCURRENT WITH HSC or LDL – USE HSC COMMAND 'CAPPREF' TO MINIMIZE THE CAP ERROR PROBLEM – REPLY GO TO CONTINUE or ANYTHING ELSE TO QUIT**

**Explanation:** The following conditions could effect the function of LIBLOOK:

- If LIBLOOK is run concurrently with the host software component (HSC), there is a possibility of causing the HSC CAP task to abend if it tries to reserve a CAP already reserved by MPST.
- If MPST uses an empty cell just prior to HSC also using that cell, HSC tries to eject the MPST cartridge.
- Also, if the HOSTID used by MPST is also being used by HSC, the LMU alternates all messages and responses between HSC and MPST.
- If LIBLOOK is run concurrently with LDL diagnostics, a conflict may occur causing LMU errors.

**Solution:** If the HSC command CAPPREF is issued for each HSC HOSTID, the problem is minimized.



**Hint:** If you want to continue running LIBLOOK, reply **GO** to this message.



## Chapter 12. MPSTMAN

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### MPST Main Processing (MPSTMAIN) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for MPST Main Processing:

**MPSTMAN02 HIGHEST RETURN CODE WAS *rc***

**Explanation:** This is the last message issued by MPST prior to normal termination. The highest return code encountered during execution was *rc*. This return code (*rc*) is returned to the system (calling program).

**Solution:** None required.

**MPSTMAN03 INVALID FUNCTION IN CONTROL STATEMENT**

**Explanation:** The last control card listed has requested an unknown function.

**Solution:** Correct the control card.

**MPSTMAN04 *func* STARTED AT *hh.mm.ss***

or

***func* ENDED AT *hh.mm.ss* RETURN CODE *rc*,  
EXCP COUNT *num*, ENVIRONMENTAL SENSE COUNT *num*  
LAST *num* OCCURRENCES OF ENVIRONMENTAL SENSE DATA ARE  
*message***

...

*message*

**Explanation:** The function *func* started or ended at time *hh.mm.ss* and the return code for the last function was *rc*. The function performed *num* EXCPs to the test device and environmental sense data was received *num* times. If the test device is a 33XX type device, the last *num* occurrences of environmental sense data are listed.

**Solution:** None required.

**MPSTMAN06 OPTION NOTERMINATE IN EFFECT**

**Explanation:** The NOTERMINATE option is in effect and the MPST online control card editor will be entered at the end of the current control card string.

**Solution:** NOTERMINATE will remain in effect until TERMINATE is specified.

**MPSTMAN07 OPTION REPEAT=*num* IN EFFECT**

**Explanation:** The REPEAT option is in effect while a control card set is being processed. The current value of *num* is the number of times to repeat the current control card set. This message is issued each time the control card set is repeated.

**Solution:** Execution ends when the value of *num* equals zero.

**MPSTMAN08 message**

**Explanation:** The following conditions could exist:

- A control card indicated that function parameters were continued on the next card, but an end of file occurred when MPST attempted to read the next card.
- The last control card contains more than 31 parameters or the total of all parameter characters exceeds 512.

One of the following messages is displayed:

- DETECTED END CARD WHILE IN A SUBLIST
- DETECTED START OF SUBLIST WHILE IN A SUBLIST
- DETECTED SUBLIST END WITHOUT A SUBLIST
- ENDING A SUBLIST AND EXCEEDED MAXIMUM NUMBER OF PARMS
- EXCEEDED MAXIMUM NUMBER OF PARMS FOR CONTROL CARDS
- EXCEEDED MAXIMUM NUMBER OF CHARACTERS FOR CONTROL CARDS
- INVALID CONTROL STATEMENT FOUND
- MISSING CONTINUATION CARD
- STARTED A SUBLIST AND EXCEEDED MAXIMUM NUMBER OF PARMS

**Solution:** Check for missing commas or missing blank spaces between parameters. Parameters must be separated by a comma or by blank spaces.

**MPSTMAN10 PARAMETER ERROR**

**Explanation:** The parameter is coded incorrectly or is invalid for the OPTION function.

**Solution:** Re-enter the OPTION command using the correct parameter.

**MPSTMAN11 OPTIONS IN EFFECT --**

**Explanation:** The current settings of the OPTION function parameters are listed.

**Solution:** Refer to the appropriate *MPST Functions Reference Manual* for an explanation of the listed options

**MPSTMAN12 DEVICE FOR SIDINFO|RDCINFO|RCDINFO PRINT NOT DEFINED**

**Explanation:** The requested device or devices are not defined.

**Solution:** Redefine the requested device or devices.

**MPSTMAN13 SID INFO FOR UUT<sub>nm</sub>**

**Explanation:** The requested Sense ID data for DD name UUT<sub>nm</sub> is displayed.

**Solution:** None required.

**MPSTMAN14 RDC INFO FOR UUT<sub>nm</sub>**

**Explanation:** The requested Read Device Configuration data for DD name UUT<sub>nm</sub> is displayed.

**Solution:** None required.

**MPSTMAN15 RCD INFO FOR UUT<sub>nm</sub>**

**Explanation:** The requested Read Configuration Data for DD name UUT<sub>nm</sub> is displayed.

**Solution:** None required.

**MPSTMAN19** *function* **DD CARD MISSING**

**Explanation:** During open the DD card is missing for *function*.

**Solution:** Correct the DD card.

**MPSTMAN20** **DEV** *addr* **ECB** *cc* **CSW** *cd-status-byte* **SNS** *byte*  
**FLG** *byte* **SEEK** *cyl.hd.rec* **YXFM** *byte* **YXFLAG** *byte*  
**YXCPU** *id* **YXUA** *path* **YXSNS** *sns-byte*  
**CCW(s)** *cc-flag-byte...*

**Explanation:** The IOSTAT parameter of the OPTION function was specified. This message lists the I/O status for an I/O operation when it is posted as completed.

- **DEV** *addr*—The device address.
- **ECB** *cc*—The ECB completion code.
- **CSW** *cd-status-byte*—The SIO condition code, the unit and channel status, and the residual byte count from the CSW.
- **SNS** *byte*—Sense bytes 0 and 1.
- **FLG** *byte*—The IOB flag bytes.
- **SEEK** *cyl.hd.rec*—The seek address in hex.
- **YXFM** *byte*—The DASD file mask byte.
- **YXFLAG** *byte*—The I/O appendages flag byte.
- **YXCPU** *id*—The CPU ID on which the operation occurred. If no error occurred, the *id* will be **XX**.
- **YXUA** *path*—The actual path used for the operation. If no error occurred, the *path* will be **XXXX**.
- **YXSNS** *sns-byte*—The sense bytes, if available.
- **CCW(s)** *cc-flag-byte*—The command code, flag byte, and the byte count for each CCW in the CCW chain. The format of the last CCW executed is *cc\*flag\*byte*.

**Solution:** None required.

**MPSTMAN21 TEST DEVICE OPEN** -- *UUTnm*, *addr*, *volser*, *type*,  
*cyl.hd*, *cyl.hd*, *track*

**Explanation:** The OPTION function IOSTAT parameter was specified. MPST lists the results of a successful open request.

- *UUTnm*—The DD name that was opened.
- *addr*—The device address
- *volser*—The volume serial number mounted on the device.
- *type*—The device type.
- *cyl.hd*—The hexadecimal address of the cylinder.head at the start of the first data set extent if a DASD device.
- *cyl.hd*—The hexadecimal address of the cylinder.head at the end of the first data set extent is a DASD device.
- *track*—The number of tracks in the data set extent.

**Solution:** None required.

**MPSTMAN22 TEST DEVICE CLOSE -- UUT $nm$** 

**Explanation:** The OPTION function IOSTAT parameter was specified. MPST indicates that a close request for device UUT $nm$  was successful.

**Solution:** None required.

**MPSTMAN23 STACKED ENVIRONMENTAL SENSE FOR DEVICE ADDRESS  $addr$** 

**Explanation:** Environmental data was detected for device address  $addr$ .

**Solution:** None required.

**MPSTMAN24 I/O OPERATION FOR DEVICE  $addr$   
POSTED COMPLETED BY MIH**

**Explanation:** The missing interrupt handler (MIH) has posted an MPST I/O operation completed. This message is normally followed by an error message from the MPST function that is executing on device  $addr$ .

**Solution:** Determine why the device lost the interrupt.

**MPSTMAN25 ENVIRONMENTAL SENSE FOR DEVICE ADDRESS  $addr$   
SENSE  $bytes$** 

**Explanation:** Environmental data was detected for device  $addr$ . The sense  $bytes$  contain the environmental data.

**Solution:** None required.

**MPSTMAN26 ASYNCHRONOUS SENSE DATA FOR DEVICE** *addr mm/dd/yyyy*  
*hh:mm:ss VOLSER=ser\_num DEVICE=dev\_code*  
**DEV TYPE**=*type-model*, **CTL TYPE**=*type-model*  
**ERROR**=*ec*, **SEVERITY**=*sc sc sim\_type repeat*  
**MFGR/PLANT**=*mfg\_id/plant\_id*, **SERIAL**=*plant\_serial*  
**SIM ID**=*id*, **REFCODES**=*rc rc*, **STEK SEQ**=*seq\_code*  
**MSG CODE**=*mc*, **MSG MODIFIERS**=*mm mm mm*  
**SNS** *bytes*

**Explanation:** The device at address *addr* has caused a SIM record to be logged.

- *mm/dd/yyyy* and *hh:mm:ss*—The data and time of the SIM.
- *VOLSER=ser\_num*—The DASD volser.
- *DEVICE=dev\_code*—The device code.
- *DEV TYPE =type-model*—The device type and model number.
- *CTL TYPE=type-model*—The controller type and model number.
- *ERROR=ec*—The error code.
- *SEVERITY=sc sc sim\_type repeat*—The severity code, SIM type, and an indicator that the SIM is repeated.
- *MFGR/PLANT=mfg-id/plant-id*—The manufacturer and plant ID.
- *SERIAL=plant\_serial*—The plant serial number.
- *SIM ID=id*—The SIM ID.
- *REFCODES=rc rc*—The reference codes.
- *STEK SEQ=seq\_code*—The ServiceTek sequence code.
- *MSG CODE=mc*—The message code.
- *MSG MODIFIERS=mm mm mm*—The message modifiers.
- *SNS bytes*—The raw sense byte.

**Solution:** None required.

**MPSTMAN27 VIO DEVICE NOT SUPPORTED BY STORAGE TEK MPST**

**Explanation:** SMS VIO (Virtual Input Output) devices are considered to be non-StorageTek devices and are not supported.

**Solution:** Special ACS Routines must be provided by the customer to successfully run MPST/MVS in an SMS controlled installation.

**MPSTMAN40 OPERATOR 'STOP' COMMAND RECEIVED**

**Explanation:** MPST has detected that a stoP command was entered at the operator's console. MPST terminates at the next available stop point.

**Solution:** None required.

**MPSTMAN41 NO CONTROL STATEMENTS FOUND**

**Explanation:** The control card file contained no control cards.

**Solution:** Verify that the SYSIN DD statement is present, correctly coded, and followed by one or more MPST function control cards.

**MPSTMAN42 *function* RETURN CODE GREATER THAN ZERO**

**Explanation:** The return code from the *function* was greater than zero. This condition indicates an error that does not allow MPST to perform properly and MPST terminates immediately. Previous errors should have indicated the errors that resulted in the return code being greater than zero.

**Solution:** Correct the errors and re-execute MPST.

**MPSTMAN43 LAST RETURN CODE GREATER THAN 'TESTRC'**

**Explanation:** The return code from the last function executed was greater than the return code allowed by the OPTION TESTRC paramete. MPST terminates immediately.

**Solution:** None required.

**MPSTMAN44 STOP COMMAND RECEIVED**

**Explanation:** A stoP command was entered at the operator's console and MPST operation terminates. All MPST control cards may not have been processed.

**Solution:** None required.

**MPSTMAN45 ENTER 'STOP' TO STOP MPST or NULL TO CONTINUE**

**Explanation:** MPST requires a response.

**Solution:** Enter the stoP command to stop the execution of MPST or enter null to continue MPST execution.

**MPSTMAN46 INVALID RESPONSE – ENTER 'STOP' TO STOP or NULL TO CONTINUE**

**Explanation:** The response to message MPSTMAN45 was neither stoP nor null.

**Solution:** Enter stoP to stop the execution of MPST or null to continue MPST execution.

**MPSTMAN70 VALID MODIFY COMMANDS FOR OPTION**

**Explanation:** The modiFy command CMDLIST was issued to OPTION. The valid modiFy commands for MPSTMAIN follow this message.

**Solution:** None required.

**MPSTMAN71 OPTION DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the OPTION function.

**Solution:** Enter the correct modify parameter.

**MPSTMAN72 MODIFY OPTION REPEAT REJECTED -- INCORRECT CONTROL CARD SOURCE**

**Explanation:** The modify parameter REPEAT for the OPTION function has been rejected. The control cards to be repeated must have been previously loaded into the control card buffer.

**Solution:** Re-run the operation with the correct control card source.

**MPSTMAN99 TRACE POINT *num***

**Explanation:** The OPTION function TRACE parameter was specified and trace point *num* was encountered.

**Solution:** None required.



## Chapter 13. MPSTRLB

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### Random Locate Block (RLB) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Random Locate Block:

**MPSTRLB00 RANDOM LOCATE BLOCK**

**Explanation:** The RLB function will be executed on the devices listed by message MPSTRLB02.

**Solution:** None required.

**MPSTRLB01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the RLB function.

**Solution:** Enter the correct parameter.

**MPSTRLB02 DDNAME UUT<sub>nm</sub> -- CONFIGURED OK -- ADDR *addr*  
VOLSER *volser* ICRC DRIVE**

**Explanation:** Device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* configured without error.

**Solution:** None required.

**MPSTRLB03 RLB SUMMARY FOR DDNAME UUT<sub>nm</sub> ADDR *addr*  
VOLSER *volser* CU SERIAL NUMBER *num*  
DR PHYSICAL ADR *addr* DR LOGICAL ADR *addr*  
PASSES EXECUTED:  
RECORDS PROCESSED:  
TAPE MARKS PROCESSED:  
TEMP WRITE ERRORS:  
PERM WRITE ERRORS:  
DEGRADED ERRORS:  
BYTES WRITTEN:  
CU DET TEMP WRT:  
CU DET WRT BLK COR:  
CU DET ERG COUNT:  
CU DET WRT TRANS ERR:  
CU DET TEMP ERR:  
CU CNT WRITE TIMEOUTS:  
CU CNT DATA XFER ER:  
CU CNT TEMP DRIVE ER:  
CU CNT CH WRT BYTES:**

```

CU CNT DEV WRT BYTES:
WR BYTE COMP/NCOMP %:
CU CNT CH WRT BLOCK:
CU CNT DEV WRT BLOCK:
CU CNT CH RD BLOCK:
CU CNT DEV RD BLOCK:
CU DET WRT DC W/O HARD IND: *
CU WRITE CORRECTABLES:      *
CU SERVO WRITE ERRORS:      *
CU SECTOR COUNT:           *
CU SERVO COUNT:             *
CU NON DATA ERRORS:        *
CU DET TEMP WRT DATA CHK:  *
CU TEMP WRITE SERVO ERR:    *
CU TEMP WRITE MATRIX CORR:  *
CU SERVO UNITS CROSSED:     *

```

**Explanation:** The summary for this execution of RLB for device *UUTnm* at address *addr* with volume serial number *volser* is printed.

- The number of passes executed and the number of records and tape marks processed is listed along with the total number of compare, sequence, temporary, and permanent write errors.
- The total bytes transferred by write are also listed.
- If the `RECOVERY` parameter was specified, the number of control units detected (CU DET) functions for write temporary, erase gap, and write transient errors are listed.
- If `NORECOVERY` is specified, these counts are zero (0).
- If `ICRC` is active, the counts for `ICRC` functions are listed; otherwise they are zero (0).



**Note:** The information in the summary report marked with an asterisk is not always included in this message.

**Solution:** None required.

**MPSTRLB04 NO DEVICES CONFIGURED**

**Explanation:** No test devices were configured for this execution of RLB.

**Solution:** Verify defined devices.

**MPSTRLB06 INVALID BLOCK SIZE SPECIFIED, SET TO *size-size***

**Explanation:** The `BLKSIZE` parameter specified a value of less than 28 or greater than the maximum size allowed. The `BLKSIZE` parameter was changed to reflect the correct range for *size*.

- On MVS either 320000 or the device maximum is the maximum *size* allowed.
- On the PC 32000 is the maximum *size* allowed.
- On VM either 320000 or the device maximum is the maximum *size* allowed.

**Solution:** None required.

**MPSTRLB07 I/O ERROR...**

**Explanation:** An I/O error occurred during configuration.

This may occur when attempting to overwrite a tape using a non-expanded format device if the tape was previously written using an expanded format device.

**Solution:** Initialize the tape with a tape mark using a non-expanded format device to correct the problem.



**Warning:** Initializing the tape with a tape mark will result in all existing data on the tape being lost.

**MPSTRLB08 DDNAME UUT $nm$  – NOT CONFIGURED – *reason***

**Explanation:** Device UUT $nm$  was not configured. *reasons* for not configuring:

- DD CARD NOT CORRECT TYPE, IT IS A TYPE *num*—The test device is not defined as the correct DD card type. Correct the DD card type.
- DD CARD TYPE 6 AND WRITE SPECIFIED—DD card type 6 specifies read-only operations. Correct DD card type.
- DRIVE ASSIGNED TO DIFFERENT PATH—The drive is assigned to another path.
- FILE PROTECTED—A test sequence with a write pass was specified but the cartridge is file protected. No testing can be done on this device.
- GET MAIN FOR I/O BUFFER FAILED—A GETMAIN for a 20K I/O buffer failed. Increase the size of the region or partition in which MPST is executing.
- I/O ERROR—An I/O error occurred during configuration. The error was described in message MPSTRLB07.
- NO DDCARD FOR TEST DEVICE—No device has been defined for this DD name. Verify the device definition.
- OPEN FAILED—An open for the device failed. Verify the device definition.
- OS LABEL ON CARTRIDGE VOLUME AND NOT FILE PROTECTED—The cartridge volume mounted on this device contains a valid OS tape label and is not file protected to prevent an inadvertent write. Testing cannot be done on this device. With an OS tape label and file protection all write pass commands will be changed to table build pass commands.

- SENSE FAILED—The SENSE command has failed more than 10 times on this device.
- TEST DEVICE NOT CARTRIDGE—The test device definition does not define a cartridge device. Verify the device definition.

**Solution:** Verify that the test devices are correctly defined, online, and available.

**MPSTRLB09 DDNAME UUT<sub>nm</sub> HAS NOT BEEN DEFINED,  
VOLSER *volser* WILL BE IGNORED**

**Explanation:** VOLSER parameter detected but UUT<sub>nm</sub> was not defined. Volume serial number *volser* will be ignored.

**Solution:** None required.

**MPSTRLB10 \*\*NOTE: BLKSIZE <4K = LONG EXECUTE TIME \*\***

**Explanation:** If the block size specified by the BLKSIZE= parameter is less than 4098, the time to execute RLB to completion may be very long.

**Solution:** None required.

**MPSTRLB11 UUT<sub>nm</sub> *addr volser* -- ALL PASSES COMPLETED**

**Explanation:** The number of passes specified by the NPASS parameter has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. Testing has terminated on that device but continues on other devices.

**Solution:** None required.

**MPSTRLB12 UUT<sub>nm</sub> *addr volser* -- STOPPED AT OPERATOR REQUEST**

**Explanation:** RLB has detected a stop command entered at the operator's console. Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been stopped.

**Solution:** None required.

**MPSTRLB13** *UUTnm addr volser* -- TERMINATED DUE TO ERROR  
CONDITION

**Explanation:** Testing on test device *UUTnm* at address *addr* with volume serial number *volser* has been terminated due to a permanent error.

**Solution:** None required.

**MPSTRLB14** *UUTnm addr volser* -- BLOCK SIZE CHANGED TO MAX READ  
SIZE FOR CONTROL UNIT - 2 (*size*)

**Explanation:** The `BLKSIZE` parameter requested a larger block size than the device can handle. The block size has been changed to the correct *size* for this device.

- On MVS either 320000 or the device maximum is the maximum *size* allowed.
- On the PC 32000 is the maximum *size* allowed.
- On VM either 320000 or the device maximum is the maximum *size* allowed.

**Solution:** None required.

**MPSTRLB15** *UUTnm addr* ERROR IN SEGMENT, READ=*seg\_num*  
SEGMENT COMPARED TO IN TABLE=*num*

**Explanation:** The test device *UUTnm* at address *addr* encountered an error in the segment number while performing a write pass or a table build pass. The segment number was neither equal to nor one greater than the previously retrieved segment number.

**Solution:** None required.

**MPSTRLB16** *UUTnm addr* **SEQUENTIAL LOCATE PERFORMED ON *blockid1***  
**BLOCK ID READ FOLLOWING LOCATE *blockid2***

**Explanation:** The test device *UUTnm* at address *addr* had a sequential locate performed on block identifier *blockid1*. The block identifier sought (*blockid1*) should be identical to the block identifier read (*blockid2*). If these block identifiers are not identical, the message MPSTRLB16 is flagged with trailing asterisks (\*).

The block identifier is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

**Solution:** None required.

**MPSTRLB17** *UUTnm addr* **RANDOM LOCATE PERFORMED ON *blockid1***  
**ID READ FOLLOWING LOCATE *blockid2***

**Explanation:** The test device *UUTnm* at address *addr* had a random locate performed on block identifier *blockid1*. The block identifier sought (*blockid1*) should be identical to the block identifier read (*blockid2*). If these block identifiers are not identical, the message MPSTRLB17 is flagged with trailing asterisks (\*).

The block identifier is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

**Solution:** None required.

**MPSTRLB18** *UUTnm addr ERROR, GENERATED LBN blockid1 TABLE ENTRY COMPARED TO blockid2*

**Explanation:** The test device *UUTnm* at address *addr* encountered an error while building a block identifier using a randomly generated logical block number. The randomly generated logical block number did not fit within the boundaries of the Block ID Table and the table was corrupted.

The block identifier is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

**Solution:** Notify CS Software Support.

**MPSTRLB19** *ddname1 addr1 volser -- CARTRIDGE BEING CREATED ON ddname2 addr2 cu\_sn phys\_addr log\_addr hh:mm:ss mm/dd/yyyy num*

**Explanation:** This message identifies the tape drive that is creating the cartridge.

- The drive reading the cartridge is identified by *ddname1*, drive address *addr1* and *volser*.
- The drive creating the cartridge is identified by *ddname2*, drive address *addr2*, control unit serial number *cu\_sn*, tape drive physical address *phys\_addr*, and tape drive logical address *log\_addr*.
- The time is specified by hour:minute:second (*hh:mm:ss*) and the date is specified by month:day:year (*mm:dd:yyyy*). They identify when the write pass started.
- *num* is the number of records per file.

If this device is a Model 3490E, the characters '3490E' will follow *num*.

**Solution:** None required.

**MPSTRLB20** *UUTnm addr ERROR, LAST BLOCK ID READ=blockid1  
PREVIOUS VALID BLOCK ID READ=blockid2 WRT|TBL*

**Explanation:** The test device *UUTnm* at address *addr* encountered an error while performing a block identifier read during a write pass or a table build pass. Either the logical block number or the segment number was out of sequence. The PREVIOUS VALID BLOCK ID READ field (*blockid2*) remains the same on subsequent messages until a proper sequence is reestablished.

The block identifier is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

The format mode bits are not used in the calculations made to determine if the block identifier is in error.

**Solution:** None required.

**MPSTRLB21** *UUTnm addr -- type PASS, INCORRECT STATUS stat  
ON cmd COMMAND*

**Explanation:** Incorrect status was received for an I/O operation to device *UUTnm* at address *addr* during a *type* pass. The actual status received was *stat* and the command executed was *cmd*.

**Solution:** None required.

**MPSTRLB22** *UUTnm addr ERROR, ZERO LBN -- LAST TABLE ENTRY FROM TAPE=table\_entry*

**Explanation:** The test device *UUTnm* at address *addr* encountered a logical block number of zero in the last entry of the Block ID Table during a random locate pass.

The table entry is 8 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.
- The fifth byte is reserved and always contains zeros.
- The sixth, seventh, and eighth bytes are the highest logical block number of the segment.

**Solution:** None required.

**MPSTRLB23** *UUTnm addr BLOCK ID READ=blockid*

**Explanation:** For each block identifier read during a write pass or a table build pass both the test device *UUTnm* and the address are identified, and the block identifier number read is listed.

The BLOCK ID READ field (*blockid*) is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

**Solution:** To stop message MPSTRLB23 from being issued, enter the NOBLKIDPRT parameter.

**MPSTRLB24 UUT<sub>nm</sub> addr LAST BLOCKID ENTERED IN TABLE (*blockid*)**

**Explanation:** The test device UUT<sub>nm</sub> at address *addr* completed a write pass or a table build pass. The last block identifier (*blockid*) resulting from this pass is entered into the Block ID Table.

If the write pass or the table build pass was successful, this *blockid* number should match the block identifier in message MPSTRLB26.



**Note:** If the completed table build pass was performed on a tape previously created by a write pass, the *blockid* number is one less than the block identifier number displayed in the message accompanying the initial write pass.

The block identifier is 4 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.

**Solution:** None required.

**MPSTRLB25 UUT<sub>nm</sub> addr ERROR, BLOCK IDENTIFIER READ IS ZERO**

**Explanation:** The test device UUT<sub>nm</sub> at address *addr* encountered a block identifier of zero when a Read Block ID was performed.

**Solution:** None required.

**MPSTRLB26 UUT<sub>nm</sub> addr LAST BLOCKID RETRIEVED FROM TAPE (*blockid*)**

**Explanation:** The test device UUT<sub>nm</sub> at address *addr* completed a write pass or a table build pass. *blockid* was the last block identifier retrieved from the tape.

**Solution:** None required.

**MPSTRLB28** UUT $nm$  DEFERRED UC DURING TABLE BUILD, CSW=*bytes1*,  
SENSE BYTES 0-3=*bytes2*

**Explanation:** The test device UUT $nm$  encountered a deferred unit check during a table build pass. The first four bytes (*bytes1*) of the channel status word (CSW) and the first four sense bytes (*bytes2*) are displayed

**Solution:** None required.

**MPSTRLB29** BLOCK ID TABLE FULL, PROCESSING EXISTING TABLE ENTRIES

**Explanation:** The Block ID Table was filled during a write pass or a table build pass and the pass was terminated. Subsequent passes are executed using the entries in the table which may not include all the Block ID's on the tape.

**Solution:** None required.

**MPSTRLB41** UUT $nm$  *addr volser* -- SUMMARY FOR WRITE PASS  
BYTES WRITTEN:  
RECORDS WRITTEN:  
TAPE MARKS WRITTEN:

TEMPORARY ERRORS:  
PERMANENT ERRORS:  
DEGRADED ERRORS:

CU DET TEMP WRT:  
CU DET WRT BLK COR:  
CU DET ERG COUNT:  
CU DET WRT TRANS ERRS:

CU CNT WRT TIMEOUTS:  
CU CNT CH WRT BYTES:  
CU CNT DEV WRT BYTES:  
WR BYTE COMP/NCOMP %:  
CU CNT CH WRT BLOCK:  
CU CNT DEV WRT BLOCK:  
CU CNT DATA XFER ER:

CU CNT TEMP DRIVE ER:  
 CU DET TEMP ERROR:

CU DET WRT DC W/O HARD IND: \*  
 CU WRITE CORRECTABLES: \*  
 CU SERVO WRITE ERRORS: \*  
 CU SECTOR COUNT: \*  
 CU SERVO COUNT: \*  
 CU NON DATA ERRORS: \*  
 CU DET TEMP WRT DATA CHK: \*  
 CU TEMP WRITE SERVO ERR: \*  
 CU TEMP WRITE MATRIX CORR: \*  
 CU SERVO UNITS CROSSED: \*

**Explanation:** A write pass has been completed for device UUT $nm$  at address *addr* with volume serial number *volser*. The summary report for the write pass is contained within this message.

If ICRC is active, the counts for ICRC functions are listed; otherwise, they are zero.



**Note:** The information in the summary report marked with an asterisk is not always included in this message.

**Solution:** None required.

#### MPSTRLB42 SUMMARY INFORMATION NOT KEPT FOR DRIVE UUT $nm$ AND VOLUME *volser*

**Explanation:** The summary information for all passes for test device UUT $nm$  and tape volume serial number *volser* is not being kept.

**Solution:** None required.

```

MPSTRLB50 UUTnm addr volser -- LOGGING SENSE DATA --
REC-N rec REC-LEN num N-RETRY num
CMD cmd SIO CC code
STAT unit_chan CPU id PATH chan
SENSE bytes

```

**Explanation:** A temporary error was detected and the control unit is in forced logging mode on test device *UUTnm* at address *addr* with volume serial number *volser* mounted.

- REC-N *rec*—The record number of the record on which the error occurred.
- REC-LEN *num*—The number of bytes transferred at the time of the error.
- N-RETRY *num*—The number of times the operation has been retried.
- CMD *cmd*—The channel command being executed.
- SIO CC *code*—The SIO condition code.
- STAT *unit\_chan*—The unit and channel status for CSW.
- CPU *id*—The CPU ID of the CPU on which the error occurred.
- PATH *chan*—The actual channel path on which the error occurred.
- SENSE *bytes*—The sense bytes.

**Solution:** None required.

**MPSTRLB51** *UUTnm addr volser -- TEMPORARY ERROR AT*  
*hh:mm:ss mm/dd/yyyy*  
**REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num*  
**CMD** *cmd* **SIO CC** *code*  
**STAT** *unit\_chan* **CPU** *id* **PATH** *chan*  
**SENSE** *bytes*

**Explanation:** A temporary error has occurred on test device *UUTnm* at address *addr* with volume serial number *volser* at *hh:mm:ss* on *mm:dd/yyyy*.

- **REC-N** *rec*—The record number of the record on which the error occurred.
- **REC-LEN** *num*—The number of bytes transferred at the time of the error.
- **N-RETRY** *num*—The number of times the operation has been retried.
- **CMD** *cmd*—The channel command being executed.
- **SIO CC** *code*—The SIO condition code.
- **STAT** *unit\_chan*—The unit and channel status for CSW.
- **CPU** *id*—The CPU ID of the CPU on which the error occurred.
- **PATH** *chan*—The actual channel path on which the error occurred.
- **SENSE** *bytes*—The sense bytes.

**Solution:** None required.

```

MPSTRLB52 UUTnm addr volser -- PERMANENT|DEGRADED ERROR AT
hh:mm:ss mm/dd/yyyy
REC-N rec REC-LEN num N-RETRY num
CMD cmd SIO CC code
STAT unit_chan CPU id PATH chan
SENSE bytes

```

**Explanation:** Either a permanent or a degraded error has occurred on test device UUTnm at address *addr* with volume serial number *volser* at *hh:mm:ss* on *mm:dd:yyyy*.

- REC-N *rec*—The record number of the record on which the error occurred.
- REC-LEN *num*—The number of bytes transferred at the time of the error.
- N-RETRY *num*—The number of times the operation has been retried.
- CMD *cmd*—The channel command being executed.
- SIO CC *code*—The SIO condition code.
- STAT *unit\_chan*—The unit and channel status for CSW.
- CPU *id*—The CPU ID of the CPU on which the error occurred.
- PATH *chan*—The actual channel path on which the error occurred.
- SENSE *bytes*—The sense bytes.

**Solution:** None required.

**MPSTRLB54** *UUTnm addr volser -- SIO CC code STAT unit\_chan*  
**LOAD DISPLAY COMMAND FAILED**  
**MESSAGE=***message*  
**SENSE** *bytes*

**Explanation:** The LOAD DISPLAY command issued to device *UUTnm* at address *addr* with volume serial number *volser* failed.

**Solution:** None required.

**MPSTRLB55** *UUTnm addr volser -- xx IS A NEW ERPA CODE, CONTACT*  
**CSE SOFTWARE SUPPORT**

**Explanation:** An error occurred on device *UUTnm* at address *addr* with volume serial number *volser*. The error recovery procedure action (ERPA) code of *xx* is unsupported.

**Solution:** Gather the sense data and notify CS Software Support.

**MPSTRLB56** *UUTnm addr volser -- BUFFERED LOG OVERFLOW|DISMOUNT*  
**SENSE** *bytes*

**Explanation:** The buffered log overflowed for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics. This message will specify when the overflow was caused by a dismount.

**Solution:** None required.

**MPSTRLB57** *UUTnm addr volser -- BUFFERED LOG SENSE DATA AT END*  
**OF PASS**  
**SENSE** *bytes*

**Explanation:** The buffered log data is read at the end of each pass for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTRLB58** *UUTnm addr volser -- SIO CC code, STAT status, READ BUFFER LOG COMMAND FAILED*

**Explanation:** A read buffered log CCW was issued to obtain the current buffered log for device *UUTnm* at address *addr* with volume serial number *volser*. The CCW failed with an SIO condition code of *code* and STAT of *status*.

**Solution:** None required.

**MPSTRLB59** *UUTnm addr volser -- END OF DATA ERROR - ERPA X'36', SENSE: bytes*

**Explanation:** A unit check was posted due to end of data being detected on the cartridge tape. This is an expected error.

**Solution:** None required.

**MPSTRLB60** *UUTnm addr volser RECORD SEQUENCE ERROR, ERPA X'41' FOLLOWING TM*

**Explanation:** The control until detected an incorrect block identifier sequence on test device *UUTnm* at address *addr* with volume serial number *volser* mounted. An error recovery procedure action (ERPA) code of X'41' is returned.

**Solution:** None required.

**MPSTRLB61** *UUTnm addr volser -- START type PASS (PASS NUMBER num)*

**Explanation:** A pass has been started on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is TBL for a table build pass, SEQ for a sequential read block identifier pass, RDM for a random locate pass, or WRT for a write pass.

**Solution:** None required.

**MPSTRLB62** *UUTnm addr volser -- END type PASS*  
**(PASS NUMBER num)**

**Explanation:** A pass has ended on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is TBL for a table build pass, SEQ for a sequential read block identifier pass, RDM for a random locate pass, or WRT for a write pass.

**Solution:** None required.

**MPSTRLB63** *UUTnm addr volser -- CU SERIAL# sn*  
**DRIVE PHYSICAL ADDRESS** *phy\_addr*  
**DRIVE LOGICAL ADDRESS** *log\_addr*

**Explanation:** This message always follows message MPSTRLB61.

**Solution:** None required.

**MPSTRLB64** *UUTnm addr-- TERMINATED DUE TO INCOMPATIBILITY,*  
**DEVICE NOT CAPABLE OF READING 3480-2/XF FORMAT**

**Explanation:** A cartridge tape written in 3480-2 XF format is mounted on device *UUTnm* at address *addr* and the device does not support 3480-2 XF format.

**Solution:** None required.

**MPSTRLB65** *table\_entry1 table\_entry2*

**Explanation:** If the TBLPRT parameter was specified, this message is displayed at the conclusion of a write pass or a table build pass. Each message contains two eight byte table entries. Message MPSTRLB65 is repeated until all table entries have been listed.

The table entry is 8 bytes long.

- The first byte is the segment number.
- The first two bits of the second byte identify the format mode.
- The last six bits of the second byte and the third and fourth bytes are the logical block number.
- The fifth byte is reserved and always contains zeros.
- The first two bits of the sixth byte identify the format mode.
- The last six bits of the sixth byte and the seventh and eighth bytes are the logical block number for the last block of this segment.

**Solution:** None required.

**MPSTRLB91 PARAMETER ERROR** (*parm*)

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the `modiFy` command for the RLB function.

**Solution:** Re-enter the `modiFy` command using the correct parameter.

**MPSTRLB96 VALID MODIFY COMMANDS FOR RLB**

**Explanation:** The modify command CMDLIST was issued to RLB. The valid modify commands for RLB follow this message.

**Solution:** None required.

**MPSTRLB97 RLB DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the RLB function.

**Solution:** None required.

**MPSTRLB98 CURRENT *message***

**Explanation:** This message is issued in response to a modify *parameter* command requesting the current value of *parameter*.

**Solution:** None required.

## Chapter 14. MPSTTIP

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### Tape Independent Protocol Set (TIPS) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Tape Independent Protocol Set:

**MPSTTIP00 TAPE INDEPENDENT PROTOCOL SET**

**Explanation:** The TIPS function is executing.

**Solution:** None required.

**MPSTTIP01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the TIPS function.

**Solution:** Enter the correct parameter.

**MPSTTIP02 DEVICE *addr* - STARTING**

**Explanation:** Device *addr* is starting.

**Solution:** None required.

**MPSTTIP03 NO TIPS DEVICES DEFINED**

**Explanation:** A TIPS command was entered; but no devices are currently defined.

**Solution:** Define devices.

**MPSTTIP04 DEVICE *addr* - ENDING**

**Explanation:** TIPS is ending operation with the specified device.

**Solution:** None required.

**MPSTTIP06 MAXIMUM NUMBER OF DRIVES EXCEEDED FOR DEFINE**

**Explanation:** Up to 128 devices can be defined at one time.

**Solution:** Define fewer drives.

**MPSTTIP07 DDNAME UUT<sub>nm</sub> ERROR ON *cmd* COMMAND**

**Explanation:** Command *cmd* failed on device UUT<sub>nm</sub>.

**Solution:** Correct the problem and reissue the command.

**MPSTTIP08 DDNAME UUT<sub>nm</sub> ADDRESS *addr message***

**Explanation:** Device UUT<sub>nm</sub> at address *addr* failed. *message* specifies why it failed.

**Solution:** Correct the problem and reissue the command.

**MPSTTIP09 MAXIMUM NUMBER OF COMMANDS EXCEEDED**

**Explanation:** Only 29 commands are allowed per TIPS operation.

**Solution:** Delete commands from this operation of TIPS.

**MPSTTIP11 TIPS SHUTDOWN DUE TO TIMEOUT**

**Explanation:** A 15 second timeout has occurred.

**Solution:** Retry device.

**MPSTTIP19 DRIVE *addr* FAILED TO DEFINE**

**Explanation:** Dynamic device definition has failed on drive *addr*.

**Solution:** Check availability of device and retry.

**MPSTTIP20 TAPE INDEPENDENT PROTOCOL SET (TIPS) *summary***

**Explanation:** Summary information for the TIPS operation follows this message header.

**Solution:** None required.

**MPSTTIP21 DRIVE *addr* COMMAND SUMMARY**

*cmd* COMPLETED|FAILED

...

*cmd* COMPLETED|FAILED

**Explanation:** This message lists the TIPS commands that completed or failed for each test device.

**Solution:** None required.

**MPSTTIP22 TIPS MODE DIDN'T VERIFY**

**Explanation:** The TIPS command did not receive a correct TIPS key reply.

**Solution:** Verify that the device is TIPS capable.

**MPSTTIP23 REQUIRED INPUT DEVICE NOT DEFINED**

**Explanation:** TIPS was unable to allocate the requested device.

**Solution:** Verify that the device is accessible.

**MPSTTIP30 I, R, or C - ERROR EXECUTING TIPS - DEVICE *addr***

**Explanation:** An error occurred on device *addr* while TIPS was executing.

**Solution:** Enter **I** (ignore this device), **R** (retry this device), or **C** (cancel operation).

**MPSTTIP84 ERROR SAVING FILE**

**Explanation:** An error occurred while trying to save the transferring file.

**Solution:** Check the JCL or the data set name.

**MPSTTIP85 ERROR READING FILE FROM TAPE**

**Explanation:** The size transferred did not match the size in the tape header. This is probably a bad tape.

**Solution:** None required.

**MPSTTIP86 ERROR READING DUMP/LOG**

**Explanation:** Size mismatch or no dump is available.

**Solution:** Issue a **STATUS** command and verify availability. Then, reissue the **ReadDuMP** command.

**MPSTTIP87 FILE NOT CREATED**

**Explanation:** The file specified by the TIPS command could not be accessed.

**Solution:** Check the file name, data set name, or JCL.

**MPSTTIP88 REQUIRED FILE NOT AVAILABLE**

**Explanation:** The file specified by the TIPS command could not be accessed.

**Solution:** Check the file name, data set name, or JCL.

**MPSTTIP96 NO VALID MODIFY COMMANDS FOR TIPS**

**Explanation:** The *modify parameter* is not supported by the TIPS function.

**Solution:** None required.

**MPSTTIP97 -- CONFIGURATION QUERY INFORMATION --**

SERIAL NUMBER =  
DSE MODE =  
EMULATION MODE =  
COMPRESS MODE =  
LOGICAL ADDRESS =  
LIBRARY ADDRESS =  
CSL MODE =

**Explanation:** This message is issued in response to a QUERY command.

**Solution:** None required.

**MPSTTIP98 DRIVE STATUS INFORMATION**

DRIVE TYPE =  
ESCON PORTS =  
FILE SAFE =  
META DATA =  
LOGICAL PATHS =  
TRANSFER RATE =  
DUMP AVAILABLE =  
PWR ON HRS =  
ATTACHED LIBRARY =

**Explanation:** This message is issued in response to a STATUS command.

**Solution:** None required.

**MPSTTIP99 DEVICE *addr cmd* COMPLETED|FAILED**

**Explanation:** This message lists the TIPS commands that completed or failed for the test device.

**Solution:** None required.

## Chapter 15. MPSTTKD

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### Track Dump (TRKDUMP) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Track Dump:

**MPSTTKD00 TRACK-DUMP -- DEVICE ADDRESS *addr*. VOLSER *volser*,  
DEVICE TYPE *type* [DEVICE IS A 4305 IN 3380 MODE]**

**Explanation:** The TRKDUMP function is executed on device *addr* with volume *volser* on a *type* device.

**Solution:** None required.

**MPSTTKD01 GETMAIN FOR I/O BUFFER FAILED**

**Explanation:** A GETMAIN macro for an I/O buffer has failed.

**Solution:** Increase the size of the memory for MPST and rerun the job.

**MPSTTKD02 TEST DEVICE FAILED TO OPEN OR NOT DASD**

**Explanation:** An open for the test device failed or the test device is not a DASD device.

**Solution:** Verify that the first test device DD card is coded correctly.

**MPSTTKD03 CYLINDER OR HEAD SPECIFIED IS NOT VALID**

**Explanation:** The cylinder or head number specified by the TRACK parameter is not valid for the current test device.

**Solution:** Enter the correct cylinder or head number.

**MPSTTKD04 ERROR LIMIT REACHED, SKIPPING TO NEXT TRACK**

**Explanation:** The home address (HA) or record zero (R0) record could not be read, or the number of permanent errors reading data records exceeded the number specified by the ELIMIT parameter. Dumping of that track terminates and dumping of the next track (if specified) begins.

**Solution:** None required.

**MPSTTKD05 UNABLE TO READ RECORD, SKIPPING TO NEXT RECORD**

**Explanation:** A permanent error occurred dumping a data record. Any data that could be read is printed. Dumping of that record terminates and dumping of the next record begins.

**Solution:** None required.

**MPSTTKD06 THE FOLLOWING DATA MAY CONTAIN ERRORS**

**Explanation:** A permanent error occurred reading a data record. Any data that could be read is printed but may not be the exact data that was in the record.

**Solution:** None required.

**MPSTTKD07 OPERATOR 'STOP' COMMAND RECEIVED**

**Explanation:** A stoP command was accepted by the TRKDUMP function.

**Solution:** None required.

**MPSTTKD08 END OF SA CYL REACHED BEFORE ALL TRACKS REQUESTED  
COULD BE DUMPED**

**Explanation:** The NUMBER parameter requested is greater than the number of tracks remaining on the SA cylinder.

**Solution:** Reduce the number of tracks requested.

**MPSTTKD09 END OF CE CYL REACHED BEFORE ALL TRACKS REQUESTED  
COULD BE DUMPED**

**Explanation:** The NUMBER parameter requested is greater than the number of tracks remaining on the CE cylinder.

**Solution:** Reduce the number of tracks to dump.

**MPSTTKD10 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the TRKDUMP function.

**Solution:** Enter the correct parameter.

**MPSTTKD11 I/O ERROR...**

**Explanation:** An error occurred while attempting to read the home address (HA) record.

**Solution:** None required.

**MPSTTKD12 I/O ERROR...ERROR READING *cyl.hd.rec***

**Explanation:** An error occurred while attempting to read record zero (R0).

**Solution:** None required.

**MPSTTKD13 I/O ERROR...ERROR ON SEARCH ID EQUAL FOR *cyl.hd.rec*  
or  
ERROR READING *cyl.hd.rec***

**Explanation:** An error occurred while attempting to read or search for a data record.

**Solution:** None required.

**MPSTTKD14 I/O ERROR...**

**Explanation:** An error occurred while executing a sense (04) command on initial startup.

**Solution:** None required.

**MPSTTKD15 I/O ERROR...**

**Explanation:** An error occurred while attempting to read the count field of a data record.

**Solution:** None required.

**MPSTTKD16 SPACE COUNT DUMP OF TRACK --**

**Explanation:** The dump which follows is a space count dump of the track.

**Solution:** None required.

**MPSTTKD17 NO DATA TRANSFERRED FOR SPACE COUNT READ**

**Explanation:** A space count dump was requested but no data was transferred by the space count CCW chain.

**Solution:** None required.

**MPSTTKD18 I/O ERROR...SPACE COUNT READ FAILED**

**Explanation:** An error occurred while executing a space count (0F) and read data (06) command chain.

**Solution:** None required.

**MPSTTKD19 END OF VOLUME REACHED BEFORE ALL TRACKS REQUESTED  
COULD BE DUMPED**

**Explanation:** The NUMBER parameter requested is greater than the number of tracks remaining on the volume. Tracks are dumped until end of volume is reached. Then, TRKDUMP terminates with return code 4

**Solution:** Reduce the number of tracks requested.

**MPSTTKD20 I/O ERROR...RD DEVICE CHARACTERISTICS FAILED**

**Explanation:** A read device characteristics command failed while trying to initialize the device.

**Solution:** Retry TRKDUMP. If the problem persists, printer output should be retained and given to CS Software Support.

**MPSTTKD21 START OF TRACK *cyl.hd* (HEX) -- *cyl.hd* (DECIMAL)**

**Explanation:** This is the start of the dump of a track. *cyl.hd* is the track address in hexadecimal and in decimal.

**Solution:** None required.

**MPSTTKD22 END OF TRACK *cyl.hd* (HEX) -- *cyl.hd* (DECIMAL)**

**Explanation:** This is the end of the dump of a track. *cyl.hd* is the track address in hexadecimal and in decimal.

**Solution:** None required.

**MPSTTKD23 RECORD *cyl.hd.rec* (HEX) -- *cyl.hd.rec* (DECIMAL)**

**Explanation:** This is the dump of a record on a track. The *cyl.hd.rec* is the record address in hexadecimal and in decimal.

**Solution:** None required.

**MPSTTKD24 THIS IS A DEFECTIVE ALTERNATE TRACK, NO DATA TO DUMP**

**Explanation:** The track to be dumped is a defective alternate track. Dumping of that track terminates and dumping of the next track (if specified) begins.

**Solution:** None required.

**MPSTTKD25 THIS IS A DEFECTIVE TRACK, DATA WILL BE DUMPED FROM THE ALTERNATE**

**Explanation:** The track to be dumped is a defective track. The alternate track assigned to this track will be dumped.

**Solution:** None required.

**MPSTTKD26 THIS IS AN UNASSIGNED ALTERNATE TRACK, NO DATA TO DUMP**

**Explanation:** The track to be dumped is an unassigned alternate track. Dumping of that track terminates and dumping of the next track (if specified) begins.

**Solution:** None required.

**MPSTTKD27 THIS IS AN ASSIGNED ALTERNATE TRACK, DATA FOLLOWS**

**Explanation:** The track to be dumped is an assigned alternate track. The dump of that track follows this message.

**Solution:** None required.

**MPSTTKD28 SUMMARY OF RECORDS ON TRACK --**

----- HEX -----	----- DECIMAL -----
CCCC HHHH RR KK DDDD	CCCC HH RRR KKK DDDDD
...	

**Explanation:** The table printed is a summary of the records on the track being dumped. The cylinder (*cccc*), head (*hhhh* and *hh*), record number (*rr* and *rrr*), key field length (*kk* and *kkk*), and data field length (*dddd* and *dddd*) for each record on the track is listed in hexadecimal and decimal.

**Solution:** None required.

**MPSTTKD29 FORCED NO CE/SA CYLINDER**

**Explanation:** The device for TRKDUMP has no valid CE or SA cylinders.

**Solution:** None required.

**MPSTTKD30 TRACK PARM NOT SPECIFIED**

**Explanation:** The TRACK parameter was not specified and the TRKDUMP function terminates. TRACK=*cyl.hd* is a required parameter for TRKDUMP.

**Solution:** Correct the TRKDUMP control card.

**MPSTTKD31 END OF FILE RECORD**

**Explanation:** The record dump was an end-of-file record.

**Solution:** None required.

**MPSTTKD32 SEGMENT OF AN OVERFLOW RECORD**

**Explanation:** The record dumped was part of an overflow record.

**Solution:** None required.

**MPSTTKD33 BYTES USED ON THIS TRACK ARE *num*, NOT INCLUDING HA AND RO**

**Explanation:** The number of bytes used on this track up to and including this record, but not including home address (HA) and record zero (RO), is *num*.

**Solution:** None required.

**MPSTTKD34 TRACK CAPACITY EXCEEDED, MAXIMUM BYTES ALLOWED ARE *num*, NOT INCLUDING HA AND RO**

**Explanation:** The number of bytes read for this track exceed the track capability of the device.

**Solution:** None required.

**MPSTTKD41 HA DATA (*fcch*) --**

**Explanation:** The data that follows is the data from the home address (HA) record. The five bytes dumped are the flag byte, the cylinder address (two bytes), and the head address (2 bytes).

**Solution:** None required.

**MPSTTKD42 COUNT FIELD (*cchhrkdd*) --**

**Explanation:** The data that follows is the data from the count field for the record. The eight bytes dumped are the cylinder address (two bytes), the head address (two bytes), the record number (one byte), the key field length (one byte), and the data field length (two bytes).

**Solution:** None required.

**MPSTTKD43 KEY FIELD --**

**Explanation:** The data that follows is the data from the key field for the record.

**Solution:** None required.

**MPSTTKD44 DATA FIELD --**

**Explanation:** The data that follows is the data from the data field for the record.

**Solution:** None required.

**MPSTTKD51 NO DATA TRANSFERRED FOR RECORD**

**Explanation:** No data was transferred when the record was read.

**Solution:** None required.

**MPSTTKD52 COUNT FIELD IS NOT COMPLETE --**

**Explanation:** Less than eight bytes were transferred when the record was read. The complete count field was not transferred and the length of the key and data fields is unknown. These fields will not be dumped.

**Solution:** None required.

**MPSTTKD53 KEY AND/OR DATA FIELD(S) NOT TRANSFERRED**

**Explanation:** Exactly eight bytes were transferred when the record was read (only the count field) but the count field indicated that the data field length was greater than zero (not an end of file record).

**Solution:** None required.

**MPSTTKD54 PARTIAL KEY FIELD --**

**Explanation:** The key field length in the count field was greater than zero but less than the number of bytes transferred when the record was read. A dump of the partial key field follows this message.

**Solution:** None required.

**MPSTTKD55 PARTIAL DATA FIELD**

**Explanation:** The data field length in the count field was greater than zero but less than the number of bytes transferred when the record was read. A dump of the partial data field follows this message.

**Solution:** None required.

**MPSTTKD56 EXTRA DATA BYTES TRANSFERRED**

**Explanation:** When the record was read, more data bytes were transferred than the total for the key and data field as indicated in the count field. The extra data bytes follow this message.

**Solution:** None required.

**MPSTTKD57 DATA AT OFFSET *+area* IS IN ERROR -- CORRECTED DATA IS *data***

**Explanation:** A correctable data check occurred while this record was being read. The uncorrected data is printed for the record.

**Solution:** The data at offset *area* is in error and should be corrected to *data*.

**MPSTTKD60 RECORD *num* REQUESTED BUT NOT FOUND ON THIS TRACK**

**Explanation:** The record *num*, requested in the PRINT option, was not found on the specified track.

**Solution:** Specify **PRINT=SUMMARY** to obtain a summary of the records on this track.

**MPSTTKD91 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or invalid for the `modiFy` command for the `TRKDUMP` function.

**Solution:** There are no `modiFy` command parameters for `TRKDUMP`.

**MPSTTKD92 DEVICE NOT DEFINED**

**Explanation:** The `DEVICE=addr` parameter was specified, but the device is not defined.

**Solution:** If the first device defined in the device definition is not the device to be used, specify the correct address or `DD` name in the parameter.

**MPSTTKD93 DEVICE PATH NOT AVAILABLE**

**Explanation:** The `DEVICE=addr` parameter specified does not have a path available.

**Solution:** Select another device.

**MPSTTKD94 DEVICE DISABLED**

**Explanation:** The `DEVICE=addr` parameter specified is not enabled.

**Solution:** Enable the device and try again.

**MPSTTKD96 VALID MODIFY COMMANDS FOR TRKDUMP**

**Explanation:** The `modiFy` command `CMDLIST` was issued to `TRKDUMP`. There are no `modiFy` command parameters for `TRKDUMP`.

**Solution:** None required.

**MPSTTKD97 TRKDUMP DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the TRKDUMP function.

**Solution:** None required.



## Chapter 16. MPSTTMC

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### Tape Monitor and Control (TMC) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Tape Monitor and Control:

**MPSTTMC00 CARTRIDGE TAPE MONITOR AND CONTROL**

```

* * * * * WARNING * * * * *
* WHILE THE 4480 IS IN FORCE LOGGING MODE,
* LARGE AMOUNTS OF LOGREC ENTRIES MAY BE
* GENERATED. BE SURE THE FORCE LOGGING MODE
* IS DISABLED WHEN THE REQUIREMENT IS NO
* LONGER NEEDED!
* * * * * WARNING * * * * *

```

**Explanation:** The TMC function is executing.

**Solution:** None required.

**MPSTTMC01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the TMC function.

**Solution:** Enter the command using the correct parameter.

```

MPSTTMC02 DEVICE CFL STATUS - pass_type
ADDR FORCE LOG .... ADDR FORCE LOG
...

```

**Explanation:** The CFL status for all defined drives is listed.

**Solution:** None required.

**MPSTTMC03 NO TMC DEVICES DEFINED**

**Explanation:** A TMC command was entered; but no devices are currently defined.

**Solution:** Define devices.

**MPSTTMC04 ENTER MPST TMC MODIFY COMMAND**

**Explanation:** TMC is waiting for another modify command to be entered.

**Solution:** You can enter a modify command now.

**MPSTTMC05 TRACE - *position***

**Explanation:** The TRACEon parameter was entered and *position* is the trace point position.

**Solution:** None required.

**MPSTTMC06 MAXIMUM NUMBER OF DRIVES EXCEEDED FOR DEFINE**

**Explanation:** Too many devices are being defined.

**Solution:** The maximum number of device definitions is 8.

**MPSTTMC07 DDNAME UUT<sub>nm</sub> ERROR ON *name* COMMAND -- *message***

**Explanation:** Device UUT<sub>nm</sub> encountered an error on the *name* command.

**Solution:** None required.

**MPSTTMC08 DDNAME UUT<sub>nm</sub> ADDRESS *addr* - FAILED TO CONFIGURE:  
*message***

**Explanation:** Device UUT<sub>nm</sub> at address *addr* failed to configure. *message* specifies why it failed.

**Solution:** Correct the problem and reissue the command.

**MPSTTMC09 MAXIMUM NUMBER OF TMC COMMAND SLOTS EXCEEDED**

**Explanation:** Too many commands were entered at one time.

**Solution:** Enter fewer commands.

```

MPSTTMC10 * * * * * * * * * * WARNING * * * * * * * * * *
* ADDR addr - LEFT WITH FORCED LOGGING ENABLED
* ...
* ADDR addr - LEFT WITH FORCED LOGGING ENABLED
* * * * * * * * * * WARNING * * * * * * * * * *

```

**Explanation:** TMC has terminated and devices *addr* were left with forced logging enabled.

**Solution:** Disable force logging mode.

#### MPSTTMC11 TMC SHUTDOWN DUE TO TIMEOUT

**Explanation:** The timer was set to a value other than zero and has timed out.

**Solution:** None required.

#### MPSTTMC12 DEFINE *message*

**Explanation:** TMC called the DEFine function and the call type failed. *message* describes the failure.

**Solution:** Correct the problem described in the failure *message*.

#### MPSTTMC13 DEVICE *addr* WAS NOT DEFINED PRIOR TO REQUESTING: *command*

**Explanation:** An attempt was made to request a TMC *command* for device *addr*, prior to that device being defined to TMC.

**Solution:** DEFine device and reissue the command.

```

MPSTTMC14 * * * * * * * * * WARNING * * * * * * * * *
* IF THE 4480 IS LEFT IN THE FORCE LOGGING
* MODE, LARGE AMOUNTS OF LOGREC ENTRIES MAY
* BE GENERATED. BE SURE THE FORCE LOGGING
* MODE IS DISABLED WHEN THE REQUIREMENT IS
* NO LONGER NEEDED !
* * * * * * * * * WARNING * * * * * * * * *

```

**Explanation:** The message is sent in response to the timer value being set to zero.

**Solution:** None required.

**MPSTTMC19 DRIVE *addr* FAILED TO DEFINE**

**Explanation:** Dynamic device definition has failed on drive *addr*.

**Solution:** Check availability of device and retry.

**MPSTTMC91 PARAMETER ERROR (*parm*)**

**Explanation:** Parameter (*parm*) is either coded incorrectly or is invalid for the TMC function.

**Solution:** Enter the command using the correct parameter.

**MPSTTMC95 DEFINE MUST BE THE FIRST COMMAND ENTERED**

**Explanation:** When entering the DEFine command, DEFine must be entered before any other commands.

**Solution:** Correct the problem.

- If DEFine was entered as a run-time command, using modify, re-enter the commands with DEFine entered first.
- If DEFine was entered in an incorrect position in a control statement, TMC function ends. Correct the control card and restart TMC.

**MPSTTMC96 VALID MODIFY COMMANDS FOR TMC**

**Explanation:** The modify command CMDLIST was issued to TMC. The valid modify commands for TMC follow this message.

**Solution:** None required.

**MPSTTMC97 TMC DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the TMC function.

**Solution:** None required.

**MPSTTMC98 CURRENT *message***

**Explanation:** This message is issued in response to a modify *parameter* command requesting the current value of *parameter*.

**Solution:** None required.

**MPSTTMC99 DEVICE *addr message***

**Explanation:** This is an informational message.

**Solution:** None required.

## Chapter 17. MPSTTSC

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### Tape Scan Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Tape Scan:

**MPSTTSC00 TAPESCAN – DEVICE ADDRESS *addr*, VOLSER *volser*,  
DEVICE TYPE *type***

**Explanation:** The TAPESCAN function is executed on device *addr* with volume *volser* on a *type* device.

**Solution:** None required.

**MPSTTSC01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the TAPESCAN function.

**Solution:** Correct the error and restart TAPESCAN.

**MPSTTSC02 SENSE COMMAND FAILED**

**Explanation:** A sense command failed to complete successfully.

**Solution:** None required.

**MPSTTSC03 TAPE MARK DETECTED (TM)**

**Explanation:** TAPESCAN has detected a tape mark condition.

**Solution:** None required.

**MPSTTSC04 DEVICE TYPE NOT SUPPORTED OR 7TRK**

**Explanation:** The only device types supported for TAPESCAN are 3480 and 3490.

**Solution:** None required.

**MPSTTSC05 TEST DEVICE FAILED TO OPEN**

**Explanation:** An open for the test device failed.

**Solution:** Verify that the first test device DD card is coded correctly.

**MPSTTSC06 IO ERROR TRYING TO READ LABEL, TAPESCAN CAN NOT DETERMINE LABEL TYPE - SL, NL, NSL**

**Explanation:** An error has occurred while trying to read the first record on the tape. TAPESCAN is unable to determine the label type. No additional processing of this tape will occur.

**Solution:** None required.

**MPSTTSC07 \* \* \* \* \* WARNING \* \* \* \* \*  
BLOCK COUNTS DO NOT MATCH**

**Explanation:** The number of physical blocks counted within the data file does not compare to the block count written in the trailer record. This message applies to standard label (SL) tapes only.

**Solution:** None required.

**MPSTTSC08 I/O ERROR TRYING TO READ LABEL, WHILE ATTEMPTING LABEL DUMP**

**Explanation:** An I/O error has occurred while trying to read a label during a label dump.

**Solution:** None required.

**MPSTTSC09 OPERATOR 'STOP' COMMAND RECEIVED**

**Explanation:** A stoP command was accepted by the TAPESCAN function and TAPESCAN terminates.

**Solution:** None required.

**MPSTTSC10 TAPESCAN BEING TERMINATED - PERMANENT ERROR DETECTED**

**Explanation:** A permanent error was detected causing TAPESCAN to terminate.

**Solution:** Determine the cause of the permanent error and restart TAPESCAN.

**MPSTTSC11 FILE ID IN HDR1 IS ALL ZEROES. THE LAST WRITE OPERATIONS WERE HEADER LABEL REWRITES (INIT)**

**Explanation:** The file ID and the data set name in HDR1 contains all zeroes. This is usually the result of a program (such as IEHINIT) that rewrites header labels. An all-zero file ID is a dummy HDR1 record.

The last operations to the tape were label rewrites.

**Solution:** None required.

**MPSTTSC12 STARTING TAPESCAN LABEL DUMP FUNCTION (LABEL)**

**Explanation:** The TAPESCAN label dump function has started.

**Solution:** None required

**MPSTTSC13 \* \* \* \* \* WARNING \* \* \* \* \***  
**FILE ID IN HDR1 DIFFERS FROM**  
**FILE ID IN TRAILER LABEL**

**Explanation:** The file ID (data set name) in HDR1 does not compare to the next EOF1/EOV1's file ID.

This condition indicates that this tape was not closed out properly when it was last used as an output tape. The trailer records are old and not associated with the HDR1 records.

**Solution:** Check the system or console log for any unusual conditions that may have occurred while this tape was being created (such as INTERVENTION REQUIRED or a SYSTEM IPL).

**MPSTTSC14 AFTER ERROR RECORD, THE NEXT RECORD WAS IN SEQUENCE. WILL CONTINUE LABEL DUMP.**

**Explanation:** The label dump will continue after skipping the error record.

**Solution:** None required.

**MPSTTSC15 REWIND COMMAND FAILED**

**Explanation:** The rewind command has failed.

**Solution:** None required.

**MPSTTSC16 TAPESCAN HAS DETERMINED VOLUME IS CLOSED OUT AT BEGINNING OF TAPE (TM-EOF/EOV 80 BYTE RECORD)**

**Explanation:** The tape has either two tape marks in a row or has a tape mark followed by a trailer label at the beginning of the tape.

This may indicate that while this tape was being created an ABEND occurred, INTERVENTION REQUIRED was received, and the operator made the volume READY at load point to satisfy the intervention. (The operator should have used a “dummy” tape to satisfy any intervention.)

**Solution:** This volume requires re-initialization before it can be used as an SL tape.

**MPSTTSC17 TAPESCAN, *addr*, *volser*, NO PROBLEMS DETECTED**

**Explanation:** TAPESCAN did not detect any problems while performing this function.

**Solution:** None required.

**MPSTTSC18 ERROR READING FIRST RECORD ON TAPE – THIS TAPE REQUIRES RE-INITIALIZATION OR TAPE MARK BEFORE IT CAN BE REUSED**

**Explanation:** An error occurred while TAPESCAN was attempting to read the first record on the tape.

**Solution:** Re-initialization or a tape mark may be required before the volume can be reused.

**MPSTTSC19 TAPESCAN SKIPPING DATA FILE IN ORDER TO READ AND PRINT TRAILER RECORDS**

**Explanation:** This message indicates that data records are being skipped (via FSB commands) in order to get to the next tape mark where the trailer records should reside.

If the tape is not closed out and an old tape mark is not present, unpredictable results can occur after this point.

**Solution:** None required.

**MPSTTSC20 ERROR, IMMEDIATELY FOLLOWING A TAPE MARK. THIS ERROR IS MOST PROBABLY CAUSED BY READING INTO "OLD" DATA**

**Explanation:** The tape was read immediately after detection of a tape mark and the last tape mark was probably the last valid record written. This error is caused by "old data" being read.

**Solution:** None required.

**MPSTTSC21 ERROR READING LABEL-INCORRECT LENGTH RECORD DETECTED**

**Explanation:** A read CCW with a byte count of 80 and no SLI was executed and resulted in an INCORRECT LENGTH indicator being set. A record other than 80 bytes in length was read when a label record was expected.

**Solution:** None required.

**MPSTTSC22 TAPESCAN HAS DETERMINED VOLUME BEGINS WITH TWO TAPE MARKS, NO OTHER PROCESSING OF TAPE WILL BE PERFORMED**

**Explanation:** The volume being read starts with two tape marks. TAPESCAN will only process NL tapes until two tape marks are detected. Testing on this tape terminates.

**Solution:** None required.

**MPSTTSC23 ERROR READING RECORD *number* IN FILE *name***

**Explanation:** The failing record *number* is reported for file *name*.

**Solution:** None required.

**MPSTTSC24 TAPE IS DETERMINED TO BE SL (STANDARD LABEL)**

**Explanation:** An 80 byte record with VOL1 as the first four bytes was detected as the first record at load point.

**Solution:** None required.

**MPSTTSC25 TAPE IS DETERMINED TO BE *message***

**Explanation:** If *message* is NL (TAPE MARK), a tape mark was the first record detected at load point.

If *message* is NSL (non-standard label), the tape is determined to have a non-standard label.

**Solution:** None required.

**MPSTTSC27 LABEL OR BLKCNT PARMS CANNOT BE PROCESSED AGAINST AN 'NL' OR 'NSL' TYPE TAPE**

**Explanation:** LABEL and BLKCNT will only be executed against SL (standard label) tapes.

**Solution:** None required.

**MPSTTSC28 AFTER ERROR RECORD SKIPPED, THE NEXT RECORD WAS OUT OF SEQUENCE. WILL TRY TO CONTINUE DUMP.**

**Explanation:** The next record following the error record was not in sequence indicating “old data” was read. The label dump will try to continue after skipping the error record.

**Solution:** None required.

**MPSTTSC29 BACK SPACE BLOCK FAILED DURING ERROR RECOVERY  
PROCESSING LABEL**

**Explanation:** The back space block command failed during program error recovery of a label record.

**Solution:** None required.

**MPSTTSC30 NO ERROR WHEN READING: *message* INDIVIDUAL RECORD(S)  
WITHIN FILE: *name***

**Explanation:** No error was detected while reading the records within file *name*.

**Solution:** None required.

**MPSTTSC31 NO DATA TRANSFERRED ON READ FORWARD – RECORD MAY BE  
PARTIAL AT THE BEGINNING. WILL TRY READ BACKWARD**

**Explanation:** Since no data was transferred on the read-forward command, the record may have a partial beginning. TAPESCAN will attempt a read-backward command at this point.

**Solution:** None required.

**MPSTTSC32 TAPE HAS BEEN POSITIONED AT POINT OF DATA CHECK.  
EXAMINE TAPE FOR DAMAGE.**

**Explanation:** TAPESCAN has positioned the tape for visual examination after a data check.

**Solution:** Visually examine the tape for damage.

**MPSTTSC33 FILE *name*, RECORD *number* DATA IS:**

**Explanation:** The first 80 bytes of data for file *name*, record *number* follow this message.

**Solution:** None required.

**MPSTTSC34 FORWARD SPACE FAILED TRYING TO POSITION TAPE TO THE NEXT LABEL**

**Explanation:** A forward space file (FSF) command failed while the program was trying to position the tape to the next set of labels.

**Solution:** None required.

**MPSTTSC35 FIRST *num* BYTE(S) TRANSFERRED ON READ FORWARD OF ERROR RECORD. DATA FOLLOWS:**

**Explanation:** A minimum of one byte and up to a maximum of 80 bytes of data transferred forward. The error record follows this message.

**Solution:** None required.

**MPSTTSC36 SKIPPED OVER ERROR RECORD AND ATTEMPTING TO CONTINUE.**

**Explanation:** TAPESCAN has successfully skipped over the error record.

**Solution:** None required.

**MPSTTSC37 TAPESCAN HAS DETERMINED PRIOR READ ERROR WAS A RESULT OF PROGRAM READING INTO "OLD" DATA DUE TO:**

**Explanation:** TAPESCAN has determined that the program had read into "old data".

This may indicate that when the new data set was created it did not complete properly and data, from a prior write operation, was left on the tape. The tape is not closed out.

**Solution:** None required.

**MPSTTSC38 THIS TAPE WAS NOT CLOSED OUT PROPERLY WHEN IT WAS AN "OUTPUT" TAPE. CHECK SYSLOG WHEN IT WAS CREATED.**

**Explanation:** The volume under test did not complete normally when it was last used as an output tape.

This may indicate that while this tape was being created a system problem occurred and the CPU needed to be IPL'd.

**Solution:** Check the system and console logs for unusual conditions such as: ABENDs, re-IPL of CPU, or interventions.

**MPSTTSC39 THIS TAPE WAS EITHER: DAMAGED AFTER CREATION OR CREATED OUT OF SPECIFICATION**

**Explanation:** The tape appears to TAPESCAN to have completed properly when created, but the tape now has a read error.

**Solution:** Check the tape for damage.

- If the tape is damaged, check the last two devices that used the tape.
- If the tape is not damaged, check the device used to create the tape.



**Note:** If the tape stick is visible, replace the volume.

**MPSTTSC40 THE FOLLOWING IS TAPESCAN ANALYSIS OF FIRST ERROR:**

**Explanation:** The analysis of the first error follows this message.

**Solution:** None required.

**MPSTTSC41 SUGGEST REVIEWING LABEL DUMP OUTPUT TO ENSURE ALL  
HEADER LABELS ARE FOLLOWED BY PROPER TRAILER LABELS**

**Explanation:** This message suggest that the label dump output be reviewed.

**Solution:** Review the label dump output.

- SL tapes should have HDR labels followed by TRAILER labels.
- The file ID in HDR1 should match the file ID in EOF1 or EOV1.

**MPSTTSC42 SUGGEST RUNNING TAPESCAN WITH 'LABEL' PARAMETER**

**Explanation:** This messages suggests that TAPESCAN be re-run with the LABEL parameter.

**Solution:** Re-run TAPESCAN with the LABEL parameter.

**MPSTTSC43 SUGGEST RUNNING TAPESCAN WITH 'STOPDC' PARAMETER AND  
LOOK FOR DAMAGED TAPE.  
IF NO DAMAGE IS VISIBLE, SUSPECT CREATING TAPE UNIT.**

**Explanation:** This message suggests that TAPESCAN be re-run with the STOPDC parameter.

**Solution:** Re-run TAPESCAN with the STOPDC parameter.

**MPSTTSC44 NO DATA TRANSFERRED ON READ BACKWARD – RECORD MAY BE  
PARTIAL AT END.**

**Explanation:** While attempting to read an error record in the backward direction no data was transferred. This may indicate a partial record at end-of-record.

**Solution:** None required.

**MPSTTSC45 LAST *num* BYTE(S) ON READ BACKWARD OF ERROR RECORD.  
DATA FOLLOWS (END OF RECORD):**

**Explanation:** A read backward command of an error record caused data transfer. From 1 to 80 bytes are printed.

**Solution:** None required.

**MPSTTSC46 STARTING TAPESCAN BLOCK COUNT FUNCTION (BLKCNT)**

**Explanation:** The BLKCNT function has started.

**Solution:** None required.

**MPSTTSC47 FILE *name* CONTAINS - *message***

**Explanation:** If *message* is Header records (HDR), the first record of this file is a VOL1/HDR1 record.

If *message* is 'DATA' records, the first record of this file is a DATA record.

If *message* is Trailer records (EOF/EOV), the first record of this file is an EOF1 or EOVI record.

**Solution:** None required.

**MPSTTSC48 AFTER SKIPPING OVER ERROR RECORD, THE NEXT OPERATION  
ENCOUNTERED A TAPEMARK|AN ERROR.**

**Explanation:** After skipping over an error record, the next operation was either “read a tape mark” or an “error” while reading the next record.

**Solution:** None required.

**MPSTTSC49 THE NUMBER OF BYTES TRANSFERRED WAS *r\_num*  
AND SHOULD HAVE BEEN *x\_num***

**Explanation:** An incorrect record length was detected. TAPESCAN expected *x\_num* and received *r\_num*.

**Solution:** None required.

**MPSTTSC50 NUMBER OF PHYSICAL BLOCKS COUNTED IN FILE *name*  
IS *number***

**Explanation:** The *number* of blocks counted by TAPESCAN within file *name*.

**Solution:** None required.

**MPSTTSC51 BLOCK COUNT RETRIEVED FROM TRAILER LABEL  
(IN FILE *name*) IS *count***

**Explanation:** The *count* should be the number of physical blocks written in data file *name* preceding the trailer label at the time of creation.

**Solution:** None required.

**MPSTTSC52 BLKCNT OPTION COMPLETE – NUMBER OF FILES PROCESSED  
ON TAPE WAS *number***

**Explanation:** The *number* of files processed includes all HDR, TRAILER, and DATA files.

**Solution:** None required.

**MPSTTSC54 FORWARD SPACE BLOCK COMMAND FAILED**

**Explanation:** The forward space block command failed.

**Solution:** None required.

**MPSTTSC55 LABEL DUMP COMPLETE**

**Explanation:** The label dump utility completed successfully.

**Solution:** None required.

**MPSTTSC56 READ FORWARD COMMAND FAILED**

**Explanation:** The read forward command (02) failed.

**Solution:** None required.

**MPSTTSC57 READ OF LABEL RECORD FAILED**

**Explanation:** Read forward command (02) failed while attempting to read a record label.

**Solution:** None required.

**MPSTTSC58 TAPESCAN COMPLETE – NUMBER OF FILES PROCESSED ON TAPE WAS *num***

**Explanation:** TAPESCAN has finished; the number of files processed (*num*) includes HDR, TRAILER, and DATA files.

**Solution:** None required.

**MPSTTSC59 STARTING BASIC TAPESCAN ANALYSIS (READ FORWARD)**

```
* * * * *
* WARNING: IF TAPE IS NOT CLOSED OUT PROPERLY OR
* DOES NOT CONFORM TO THIS TYPE OF LABEL
* CONVENTION, UNPREDICTABLE RESULTS CAN OCCUR
* * * * *
```

**Explanation:** The TAPESCAN ANALYSIS parameter will read all files and report any errors found. If a second error is detected, unpredictable results may occur.

**Solution:** None required.

**MPSTTSC60 FILE ID CREATED IN HDR1 OF THIS DATA SET IS:**

**Explanation:** The data following this message is the 17-byte file ID field of HDR1.

**Solution:** None required.

**MPSTTSC61 FILE ID IN THE TRAILER AFTER DATA SET IS:**

**Explanation:** The data following this message is the 17-byte file ID field of EOF1 or EOV1.

**Solution:** None required.

**MPSTTSC62 THE DATE FAILING DATA SET WAS CREATED:**

DAY *ddd* YEAR *yyyy*

**Explanation:** The Julian day and year are retrieved from HDR1 of the failing data set file. If the system date was properly set by operations, this should be the date the failing data was created.

**Solution:** None required.

**MPSTTSC63 THIS TAPE MOST LIKELY ABENDED WHILE IT WAS BEING CREATED. (LAST RECORD IN DATA SET FAILED.)**

**Explanation:** The last record within the data file failed.

This may indicate that a write data check or a write equipment check ABEND'd the job during the creation phase.

**Solution:** Check the system and console logs for errors.

**MPSTTSC64 SUGGEST CHECKING THE SYSTEM LOG ON THE DATE THIS TAPE WAS LAST MOUNTED FOR OUTPUT.**

**Explanation:** This message suggests that the system and console logs be checked for any unusual conditions.

**Solution:** Check the system and console logs for unusual conditions such as: ABENDS, re-IPL of CPU, or interventions.

**MPSTTSC65 TAPESCAN HAS DETECTED AN ERROR IN A *type* LABEL ON THIS TAPE.**

**Explanation:** An error was detected reading a *type* label.

**Solution:** None required.

**MPSTTSC67 THE FOLLOWING ERROR DATA IS FOR THE NEXT ERROR RECORD.**

**Explanation:** The next I/O error will be the second sequential error in a row.

**Solution:** None required.

**MPSTTSC68 OPERATOR REPLIED:** *text*

**Explanation:** Operator reply to a console message.

**Solution:** None required.

**MPSTTSC69 TAPE IS NOT FILE PROTECTED – REPLY 'I' (IGNORE), 'U' (UNLOAD), or 'C' (CANCEL)**

**Explanation:** TAPESCAN detected that the tape is not file protected. TAPESCAN is a read-only function and can only process FILE PROTECTED tapes.

**Solution:** Reply to the message.

- If “**I**” is entered, the function will ignore the write enabled condition.
- If “**U**” is entered, the function will unload the tape and prompt the operator to file protect the tape and remount.
- If “**C**” is entered, TAPESCAN will cancel.

**MPSTTSC70 BLANK TAPE WAS DETECTED. REVIEW LABEL OUTPUT. THIS ERROR WAS NOT EXPECTED FOR STANDARD LABEL DUMP.**

**Explanation:** Blank tape was detected during the LABEL dump utility.

**Solution:** None required.

**MPSTTSC71 MISSING INTERRUPT CONDITION MAY BE RESULT OF BLANK TAPE, IF CONTROL UNIT DOES NOT HAVE BLANK TAPE FEATURE.**

**Explanation:** If the tape control unit does not have the blank tape detection feature installed, the tape can 'run away' when blank tape is read. This could cause a missing interrupt condition or it may cause an IFCC (interface control check) condition.

**Solution:** None required.

**MPSTTSC72 TAPE MAY HAVE RUN OFF END OF REEL. CHECK LABEL DUMP OUTPUT.**

**Explanation:** If the tape was not closed out properly, it may have run off the end of the reel.

**Solution:** Check the label dump output.

**MPSTTSC73 INTERFACE CONTROL CHECK (IFCC) HAS BEEN DETECTED. SHOULD CHECK THE CONTROL UNITS FOR A SERVICE REQUIRED CONDITION.**

**Explanation:** An interface control check has been received.

**Solution:** Ensure that the tape control units are still in proper working order.

**MPSTTSC74 THE RECORD FOLLOWING THE ERROR RECORD WAS READ WITHOUT ANY ERROR CONDITIONS ENCOUNTERED**

**Explanation:** No error conditions were encountered while reading the record after the error.

**Solution:** None required.

**MPSTTSC75 RE-MOUNT THE TAPE 'FILE PROTECTED' AND WHEN MOUNTED, PRESS ANY CHARACTER TO CONTINUE**

**Explanation:** The tape was not file protected.

**Solution:** Unload and file protect the tape. Remount the tape. Press any character on the keyboard to continue.

**MPSTTSC76 TAPESCAN HAS DETECTED A BLOCK ID SEQUENCE ERROR IN THE LABEL. SUSPECT A PRIOR WRITE ERROR IN THE LABEL.**

**Explanation:** A block ID sequence error was detected within the label of this tape.

This may indicate that a prior write error has occurred and caused this condition.

**Solution:** The tape may require re-initialization before it can be reused.

**MPSTTSC77 TAPESCAN HAS DETECTED A BLOCK ID SEQUENCE ERROR. SUSPECT THIS TAPE WAS NOT CLOSED OUT.**

**Explanation:** A block ID sequence error was detected.

This may indicate that the last job that wrote to this tape did not complete properly.

**Solution:** Check the system and console logs for errors.

**MPSTTSC78 TAPESCAN HAS DETECTED AN INCORRECT LENGTH RECORD IN THE LABEL. SUSPECT A PRIOR WRITE ERROR IN THE LABEL.**

**Explanation:** An incorrect length record was read within the label of this tape.

This may indicate that a prior write error has occurred and caused this condition.

**Solution:** The tape may require re-initialization before it can be reused.

**MPSTTSC79 THIS TAPE REQUIRES RE-INITIALIZATION BEFORE IT CAN BE REUSED**

**Explanation:** This messages states that the tape will require re-initialization before it can be reused.

**Solution:** Re-initialize the tape.

**MPSTTSC80 READ BLOCK ID COMMAND (22) FAILED. SENSE DATA  
FOLLOWS:**

**Explanation:** A read block ID command (22) has failed. The sense data for this error follow this message.

**Solution:** None required.

**MPSTTSC81 LOCATE BLOCK COMMAND (4F) FAILED. SENSE DATA  
FOLLOWS:**

**Explanation:** A locate block command (4F) has failed. The sense data for this error follow this message.

**Solution:** None required.

**MPSTTSC82 TAPESCAN ANALYSIS OF NON (STANDARD) LABEL TAPE IS  
COMPLETE - NO ERRORS WERE DETECTED**

**Explanation:** No errors were detected while scanning an NL/NSL tape.

**Solution:** None required.

**MPSTTSC83 TAPE MARK WAS DETECTED IMMEDIATELY AFTER DATA CHECK.  
THIS MAY INDICATE TAPE FAILED WHEN BEING CREATED.**

**Explanation:** The last record within the data file failed.

This may indicate that a write data check or a write equipment check ABEND'd the job during the creation phase.

**Solution:** Check the system and console logs for errors.

**MPSTTSC84 A TAPE VOID WAS DETECTED AFTER ERROR RECORD. THIS MAY INDICATE FAILURE OF JOB OR SYSTEM WHEN CREATED.**

**Explanation:** A tape void was detected immediately after an error record.

This may indicate that while this tape was being created a system problem occurred and the CPU needed to be IPL'd.

**Solution:** Check the system and console logs for unusual conditions such as: ABENDS, re-IPL of CPU, or interventions.

**MPSTTSC85 AT PHYSICAL EOT. THIS MAY INDICATE TAPE FAILED WHEN IT WAS BEING CREATED.**

**Explanation:** The first error during input was PEOT.

This may indicate that the output job wrote into the physical EOT (end of tape).

**Solution:** None required.

**MPSTTSC86 OVERRUN DETECTED DUE TO RECORD SIZE LARGER THAN BUFFER**

**Explanation:** The record size exceeds the buffer size.

**Solution:** None required.

**MPSTTSC87 A SEQUENCE ERROR WAS DETECTED AFTER ERROR RECORD. THIS MAY INDICATE FAILURE OF JOB OR SYSTEM WHEN CREATED.**

**Explanation:** A sequence error was detected after an error record.

This may indicate that while this tape was being created a system problem occurred and the CPU needed to be IPL'd.

**Solution:** Check the system and console logs for unusual conditions such as: ABENDS, re-IPL of CPU, or interventions.

**MPSTTSC88 THE FOLLOWING DATA IS FROM THE READ COMMAND THAT WAS ATTEMPTING TO READ THE RECORD AFTER THE FAILURE**

**Explanation:** After the error record, the beginning of the next record is printed. A maximum of 80 bytes of data are transferred. This data may help determine if “old data” was the cause of the first error.

**Solution:** None required.

**MPSTTSC89 \* \* \* \* \* WARNING \* \* \* \* \***  
**INCORRECT LENGTH RECORD WAS DETECTED**

**Explanation:** An incorrect length record was detected within the data set. All data set records are checked for block size if record format was variable or fixed.

Message MPSTTSC90 follows this message.

**Solution:** None required.

**MPSTTSC90 THE FOLLOWING IS THE ACTUAL AND EXPECTED RECORD LENGTHS FOR FILE *name*, RECORD *number***

**Explanation:** The record *number* for file *name* is incorrect. Message MPSTTSC96 follows this message.

**Solution:** None required.

**MPSTTSC91 PARAMETER ERROR (*parm*)**

**Explanation:** Parameter (*parm*) is either coded incorrectly or is invalid for the `modiFy` command for the TAPESCAN function.

**Solution:** Enter the `modiFy` command using the correct parameter.

**MPSTTSC92 LENGTH OF RECORD READ=*num* BYTES**

**Explanation:** The record read had a length of *num* bytes.

**Solution:** None required.

**MPSTTSC93 DUE TO MULTIPLE ERRORS, TAPESCAN IS NOT ABLE TO ANALYZE TAPE ERRORS.**

**Explanation:** Multiple errors were detected; the analysis of the first error cannot be completed.

**Solution:** None required.

**MPSTTSC94 BLOCK ID EXPECTED=*id***

**Explanation:** The expected block *id* was received. It is +1 from the last readable record.

**Solution:** None required.

**MPSTTSC95 BLOCK ID READ=*id*. WILL ATTEMPT TO CONTINUE.**

**Explanation:** The block *id* read from the tape was written when the record was created. If the *id* read is out of sequence with the prior record (indicating “old data” was read), a BLOCK ID SEQUENCE error (ERPA code 41) will occur.

This may indicate that the output job did not complete normally or was not closed out properly. It may also indicate that subsystem error recovery positioned the tape at an unexplained section of the tape.

**Solution:** None required.

**MPSTTSC98 CURRENT *message***

**Explanation:** This message is issued in response to a `modiFy parameter` command requesting the current value of *parameter*.

**Solution:** None required.

MPSTTSC99 \* \* \* \* \*  
 \* WARNING: IF TAPE IS NOT CLOSED OUT PROPERLY  
 \* OR DOES NOT CONFORM TO THIS TYPE OF LABEL  
 \* CONVENTION, UNPREDICTABLE RESULTS CAN OCCUR  
 \* \* \* \* \*

**Explanation:** This warning is placed on the reports if SL tapes are being processed.

TAPESCAN attempts to process SL labels as IBM or ANSI standard. Tapes that use an 80-byte VOL1 record as the first record on the tape will be treated as an SL-labeled volume.

Any other types of labels, that begin with a VOL1 record, may cause unpredictable results.

**Solution:** None required.

MPSTTSC100 WILL SKIP OVER 1ST RECORD AFTER DOUBLE TAPE MARK AND ATTEMPT TO PROCEED TO THE VOID/PHYSICAL EOT

**Explanation:** TAPESCAN will attempt to proceed to the void/physical EOT after skipping the 1st record after a double tape mark.

**Solution:** None required.

MPSTTSC101 NUMBER OF DOUBLE TAPE MARKS PROCESSED WAS *num*

**Explanation:** The number of double tape marks processed by TAPESCAN is *num*.

**Solution:** None required.

MPSTTSC102 TAPESCAN COMPLETE - NUMBER OF FILES BEFORE DOUBLE TM WAS *num*

**Explanation:** TAPESCAN has finished; the number of files processed (*num*) includes HDR, TRAILER, and DATA files.

**Solution:** None required.

**MPSTTSC103 TAPESCAN COMPLETE – NUMBER OF FILES PROCESSED  
WAS *num***

**Explanation:** TAPESCAN has finished; the number of files processed (*num*) includes HDR, TRAILER, and DATA files.

**Solution:** None required.

**MPSTTSC104 TAPESCAN COMPLETE – TOO MANY ERRORS TO PROCESS PAST  
THIS VOLUME**

**Explanation:** TAPESCAN has finished. There were too many errors found and TAPESCAN will not continue past this volume.

**Solution:** None required.

**MPSTTSC105 LAST ERPA CODE WAS *code***

**Explanation:** The last ERPA code received was *code*.

**Solution:** None required.

**MPSTTSC206 ENTERING COUNTALL PROCESSING**

**Explanation:** The COUNTALL process has started.

**Solution:** None required.

**MPSTTSC208 RECORD COUNT BEFORE COUNTER RESET *num***

**Explanation:** The record count was *num* just before the counter was reset.

**Solution:** None required.

## Chapter 18. MPSTVSC

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### Volume Scan (VOLSCAN) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Volume Scan:

**MPSTVSC00 VOLSCAN -- DEVICE ADDRESS *addr* VOLSER *volser*  
DEVICE TYPE *type* [DEVICE IS A 4305 IN 3380 MODE]**

**Explanation:** The VOLSCAN function is executed on the device at address *addr* with volume serial number *volser*. The device *type* is:

- 3330-1 (3330 Mod 1), 3330-11 (3330 Mod II)
- 3350 C1 (3350 in 3330 Mod 1 compat mode), 3350 C11 (3350 in 3330 Mod 11 compat mode), 3350 N (3350 in native mode)
- 3380, 3380E (3380 2X), 3380J, 3380K
- 3390-1, 3390-2, 3390-3, 3390-9

**Solution:** None required.

**MPSTVSC01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter *parm* is either coded incorrectly or is invalid for the VOLSCAN function.

**Solution:** Enter the command using the correct parameter.

**MPSTVSC02 I/O ERROR...**

**Explanation:** An I/O error occurred while attempting to execute a sense (04) command.

**Solution:** Retry the command. If the problem persists, notify CS Software Support.

**MPSTVSC03 *cyl.hd* (*cyl.hd*) END OF VOLUME DETECTED**

**Explanation:** The VOLSCAN function terminated because the end of a VM/370 mini-disk, or the end of a 4305 in 3380 mode, was detected. *cyl.hd* is displayed in decimal and hex.

**Solution:** None required.

**MPSTVSC04 INVALID CLIMIT OR HLIMIT PARAMETER**

**Explanation:** The value specified for the CLIMIT or the HLIMIT parameter is not valid for the device being tested.

**Solution:** Correct the value and retry the command.

**MPSTVSC05 TEST DEVICE FAILED TO OPEN OR NOT DASD**

**Explanation:** The test device failed to open, the test device is not a DASD device, or the program does not recognize the type of DASD.

**Solution:** Verify that the first test device defined is coded correctly.

**MPSTVSC06 I/O ERROR...**

**Explanation:** An I/O error occurred while reading a data record. VOLSCAN is executing in RANDOM mode. In this mode, a random record on a track is read.

**Solution:** Try scanning in normal mode to see if the error is permanent.

MPSTVSC07 VOLSCAN SUMMARY-VOLSCAN COMPLETED REQUESTED TRACKS  
 or  
 VOLSCAN DID NOT COMPLETE REQUESTED TRACKS  
 LAST CYLINDER *cccc*

ERRORS BY HEAD:

			TOTAL DEFECT	TOTAL TRACKS WITH DEFECT
...	HEAD	ERRORS	SKIPS	SKIPS

...

ERRORS BY TYPE:

0X:

8X:

OTHER:

**Explanation:** This message prints a table of errors by head and a table of errors by type. Only one error will be counted per track and errors encountered during retry do not appear in this table.

The ERRORS BY HEAD table lists the total number of errors encountered for each head and the total number of defect skips assigned for all tracks scanned for that head and the total number of tracks that had any defect skips assigned. The head number is listed in decimal and in hexadecimal.

The ERRORS BY TYPE table lists the total number of errors for all tracks scanned for each format error type. OTHER errors are errors which are not format 0 through format 8 errors. Correctable format 4 errors are counted as format 5 errors here. Format 6 errors are not presented.

**Solution:** None required.

**MPSTVSC08 HEAD/CYLINDER ERROR SUMMARY --**

```

HEAD ----- CYLINDER -----
 0 (00)
...
```

**Explanation:** This message prints a table of cylinders with errors by head. The head number is listed in decimal and hexadecimal. If the message TABLE OVERFLOW is also printed, more than 512 errors occurred.

**Solution:** None required.

**MPSTVSC09 OPERATOR 'STOP' COMMAND RECEIVED**

**Explanation:** A stoP command was entered and accepted by the VOLSCAN function and VOLSCAN terminates.

**Solution:** None required.

**MPSTVSC10 VOLSCAN TERMINATED -- FATAL ERROR DETECTED**

**Explanation:** VOLSCAN is unable to continue because an unrecoverable error occurred. An unrecoverable error could be a channel error or intervention required.

**Solution:** If intervention is required, correct the condition and restart the program.

**MPSTVSC11 VOLSCAN, *addr*, *volser*, NO ERRORS DETECTED**

**Explanation:** No errors were detected by the VOLSCAN function on the device at address *addr* with volume serial number *volser*.

**Solution:** None required.

**MPSTVSC12 VOLSCAN, *addr*, *volser*, TEMPORARY ERROR DETECTED**

**Explanation:** Correctable/temporary errors were detected by VOLSCAN on the device at address *addr* with volume serial number *volser*.

**Solution:** This message indicates problems that should be investigated at the next scheduled maintenance period. The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC13 VOLSCAN, *addr*, *volser*, DEVICE ERRORS DETECTED, POSSIBLE DEVICE PROBLEM, NOTIFY CSE**

**Explanation:** Device errors were detected by VOLSCAN on the device at address *addr* with volume serial number *volser*.

**Solution:** This message indicates problems that should be investigated as soon as possible. The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC14 UNABLE TO PERFORM CE CYLINDER SCAN**

**Explanation:** The CE cylinder could not be scanned due to an error in the parameter list.

**Solution:** Notify CS Software Support.

**MPSTVSC15 I/O ERROR...**

**Explanation:** An I/O error occurred while attempting to execute a sense ID (E4) command.

**Solution:** None required.

**MPSTVSC16 VOLSCAN, *addr*, *volser*, CORRECTABLE DATA CHECKS DETECTED, NOTIFY CSE**

**Explanation:** Correctable data checks were detected by VOLSCAN on the device at address *addr* with volume serial number *volser*.

**Solution:** This message indicates possible problems that should be investigated at the next scheduled maintenance period. The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC17 VOLSCAN, *addr*, *volser*, NO PROBLEMS DETECTED**

**Explanation:** No problems were detected by the VOLSCAN function on the device at address *addr* with volume serial number *volser*.

**Solution:** None required.

**MPSTVSC18 I/O ERROR...**

**Explanation:** An I/O error occurred while attempting to execute a read device characteristics command.

**Solution:** None required.

**MPSTVSC20** *cyl.hd (cyl.hd) -- ERROR READING ALT TRK HA/R0*  
**ALT TRK SHOULD BE** *cyl.hd (cyl.hd)*  
**CPUID=***id* **DATA ADDR=***path* **CC=***cc* **STATUS=***unit\_channel*  
**ECB=***cmp\_code* **SENSE=***byte..byte*

**Explanation:** An error occurred while attempting to read the home address (HA) and record zero (R0) of the alternate track that is assigned to this defective track. The address of the alternate track found in the count field of the defective track is printed with the error information.

- *cyl.hd*—The cylinder/head address in decimal and hexadecimal.
- *id*—The CPU id.
- *path*—The actual path where the error occurred.
- *unit\_channel*—The unit and channel status from the CSW.
- *cc*—The condition code.
- *cmp\_code*—The ECB completion code.
- *byte..byte*—The sense bytes.

**Solution:** The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC21** *cyl.hd (cyl.hd)* -- **ERROR READING TRACK**  
**CPUID=*id* PATH=*path* STATUS=*unit\_channel* ECB=*cmp\_code***  
**SENSE=*byte..byte***

**Explanation:** An error occurred while reading the track.

- *cyl.hd*—The cylinder/head address in decimal and hexadecimal.
- *id*—The CPU id.
- *path*—The actual path where the error occurred.
- *unit\_channel*—The unit and channel status from the CSW.
- *cmp\_code*—The ECB completion code.
- *byte..byte*—The sense bytes.

**Solution:** The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC22** *cyl.hd (cyl.hd)* **ERROR READING HA/RO LOOP=*retry***

**Explanation:** An error occurred reading the home address (HA) and the record zero (R0) of this track.

**Solution:** The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC23** *cyl.hd (cyl.hd)* **ERROR READING RECORD *dnum* (*hex\_num*)**  
**LOOP=*num***

**Explanation:** An error occurred reading record number *dnum* (decimal) or *hex\_num* (hexadecimal) of this track. LOOP=*num* is the retry count for LOOP.

**Solution:** The MPST printer output should be retained and given to CS Software Support.

**MPSTVSC24** *cyl.hd (cyl.hd)* **TRK IS FLAGGED DEFECTIVE**  
**ALT TRK IS** *cyl.hd (cyl.hd)*

**Explanation:** The track is flagged as a defective track, and the alternate track assigned is listed in decimal and hexadecimal.

**Solution:** None required.

**MPSTVSC25** *cyl.hd (cyl.hd)* **TRK IS DEFECTIVE ALT**

**Explanation:** The track is an alternate track that is flagged as defective.

**Solution:** None required.

**MPSTVSC26** *cyl.hd (cyl.hd)* **ERROR READING DEFECTIVE TRK HA/R0**  
**DEFECTIVE TRK SHOULD BE** *cyl.hd (cyl.hd)*

**Explanation:** The track is an alternate track and an error occurred while reading the home address (HA) and the record zero (R0) of the defective track.

**Solution:** None required.

**MPSTVSC27** *cyl.hd (cyl.hd)* **ILLEGAL DEF/ALT PAIR**

**Explanation:** Two possible conditions may exist:

- The track was flagged as defective, but the alternate track pointed to does not point back to the defective track.
- The track is an assigned alternate, but the defective track pointed to by this alternate track does not point back to the alternate.

**Solution:** None required.

**MPSTVSC28** *cyl.hh (cyl.hd)* **RECORD NUMBER NOT STANDARD**  
**COUNT FIELD**=*cchhrkdd*

**Explanation:** The count field of the record read was not in standard format. The actual record count field is printed as cylinder (*cc*), head (*hh*), record (*r*), key (*k*), and data (*dd*).

The following possible conditions could exist:

- R0 is a file mark (data field length equals zero).
- The record number of this record is less than or equal to the record number of the previous record read (indicating duplicate or out-of-sequence records).

**Solution:** None required.

**MPSTVSC29** *cyl.hd (cyl.hd)* **HA/R0 NOT STANDARD**  
**HA**=*ffcccchhhh*  
**R0 COUNT**=*cccchhhrrkkddd*

**Explanation:** Home address (HA) and record zero (R0) were read without error, but were not in standard format. The following possible conditions could exist:

- Bits 0–5 of the HA flag byte are not zero.
- The cylinder or the head address is not correct.
- The R0 count field record number is not zero.
- The R0 record has a key field.
- The R0 record data field is not 8 bytes.

The record zero field is: flag/cylinder/head.

The home address field is: cylinder/head/record/key/data\_length.

**Solution:** None required.

**MPSTVSC30** *cyl.hd (cyl.hd)* **NO ERROR WHEN READING INDIVIDUAL RECORDS**

**Explanation:** An error occurred when reading this track, but when the records on the track were re-read, one at a time, the error did not recur.

**Solution:** None required.

**MPSTVSC31** *cyl.hd (cyl.hd)* **LOOP COUNT REACHED**

**Explanation:** The maximum number of retries specified by the LOOP parameter has been reached without retry being successful. VOLSCAN terminates scanning of the current record and proceeds to the next track to be scanned.

**Solution:** None required

**MPSTVSC32** *cyl.hd (cyl.hd)* **TRACK IS AN ASSIGNED ALT DEFECTIVE TRK IS** *cyl.hd (cyl.hd)*

**Explanation:** The track is an assigned alternate track and the defective mate to which this track is assigned is listed.

**Solution:** None required.

**MPSTVSC33** *cyl.hd (cyl.hd)* **ERROR ON** *message* **LOOP=num**

**Explanation:** An error occurred attempting to obtain the defect skip data for this track. LOOP=num is the retry count for LOOP.

- For a 3350 type device *message* is READ HA/SENSE
- For a 3380 type device *message* is DIAG READ HA

**Solution:** None required.

**MPSTVSC34** *cyl.hd (cyl.hd)* **ERROR LIMIT REACHED, SKIPPING TO NEXT TRACK**

**Explanation:** The following possible conditions could exist:

- The home address (HA) or record zero (R0) record could not be read.
- The number of permanent errors that occurred while reading data records exceeded the number specified by the ELIMIT parameter.

Scanning of that track terminates and scanning of the next track begins.

**Solution:** None required.

**MPSTVSC35 ERROR LIMIT REACHED**

**Explanation:** The number of errors encountered while executing VOLSCAN RANDOM has exceeded the maximum allowed by the ELIMIT parameter and testing terminates.

**Solution:** None required.

**MPSTVSC36** *cyl.hd (cyl.hd)* **INVALID STATUS OF UNIT EXCEPTION RECEIVED**

**Explanation:** A status of unit exception was received on a read multiple CKD command. Unit exception on CKD DASD indicates an end of file mark was encountered. On a read multiple CKD command, the end of file mark should be transferred to the system as part of the data.

**Solution:** None required.

**MPSTVSC37** *cyl.hd (cyl.hd)* **INVALID TRACK FORMAT, SKIPPING TO NEXT TRACK**

**Explanation:** An invalid track format was detected and no further testing will be attempted. Invalid track format bypasses ELIMIT checking and immediately skips to the next track.

**Solution:** None required.

**MPSTVSC50** *cyl.hd (cyl.hd)* **DS3=addr DS2=addr DS1=addr**

**Explanation:** This track of a 3350 type device was scanned and the defect skip information was read from home address (HA) and printed.

DS1 specifies the location of the first defect on the track, DS2 specifies the location of the second defect on the track, and DS3 specifies the location of the third defect on the track

**Solution:** None required.

**MPSTVSC51** *cyl.hd (cyl.hd)* **DS1=addr DS2=addr...DS7=addr**

**Explanation:** This track of a 3380 type device was scanned and the defect skip information was read from home address (HA) and printed. *addr* is a decimal value.

DS1 specifies the location of the first defect on the track, DS2 specifies the location of the second defect on the track, and . . . DS7 specifies the location of the seventh defect on the track

**Solution:** None required.

**MPSTVSC52** *cyl.hd (cyl.hd)* **DEFECT SKIPS NOT AVAILABLE**

**Explanation:** The defect skip data for this track is not available due to errors. This message is preceded by message MPSTVSC33 which describes the error.

**Solution:** None required.

**MPSTVSC60 SENSE ID = FF** *cu\_type cu\_model dev\_type dev\_model*

**Explanation:** A Sense ID command (X'E4') was issued to the test device. The data, if any, returned by this command is displayed in this message. This message indicates NOT AVAILABLE if:

- The test device command rejects this command.
- The first byte of data returned is not FF.
- The number of bytes returned is other than seven.
- An I/O error occurs.

If an I/O error, other than command reject occurs, it is reported by message MPSTVSC15.

The Sense ID data is printed as:

- *cu\_type*—The control unit type (2 bytes).
- *cu\_model*—The control unit model (1 byte).
- *dev\_type*—The device type (2 bytes).
- *dev\_model*—The device model (1 byte).

**Solution:** None required.

**MPSTVSC61 FORCED NO CE CYL**

**Explanation:** The device for VOLSCAN has no valid CE cylinder.

**Solution:** None required.

**MPSTVSC62 NO PRINT DEFECT SKIP INFO FORCED**

**Explanation:** The device for VOLSCAN has no defect skip information available. Parameter forced off.

**Solution:** None required.

**MPSTVSC63 FORCE END (FORCEND) COMMAND PROCESSED**

**Explanation:** The FORCEND modify command has been processed and VOLSCAN terminates.

**Solution:** None required.

**MPSTVSC82 DEVICE NOT DEFINED**

**Explanation:** The DEVICE=*addr* parameter was specified, but the device is not defined.

**Solution:** If the first device defined is not the device to be used, specify the correct address or DD name.

**MPSTVSC83 DEVICE PATH NOT AVAILABLE**

**Explanation:** The DEVICE=*addr* parameter specified does not have a path available.

**Solution:** Select another device.

**MPSTVSC84 DEVICE DISABLED**

**Explanation:** The DEVICE=*addr* parameter specified is not enabled.

**Solution:** Enable the device and try again.

**MPSTVSC91 PARAMETER ERROR (*parm*)**

**Explanation:** Parameter (*parm*) is either coded incorrectly or is invalid for the modify command for the VOLSCAN function.

**Solution:** Enter the command using the correct parameter.

**MPSTVSC96 VALID MODIFY COMMANDS FOR VOLSCAN**

**Explanation:** The modify command CMDLIST was issued to VOLSCAN.

**Solution:** None required.

**MPSTVSC97 VOLSCAN DOES NOT SUPPORT MODIFY (*parameter*)**

**Explanation:** The modify *parameter* is not supported by the VOLSCAN function.

**Solution:** None required. FORCEND and CMDLIST are the only valid modify parameters.

**MPSTVSC99 PROGRAM ERROR IN SWITCH – VOLSCAN PRINT SUMMARY**

or

**PROGRAM ERROR IN SWITCH – VOLSCAN VOLUME SCAN**

or

**PROGRAM ERROR IN SWITCH – VOLSCAN VALIDATE TRACK**

**Explanation:** Program check failed.

**Solution:** The MPST printer output should be retained and given to CS Software Support.



## Chapter 19. MPSTVTM

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### Terminal Control Unit Verification (VTERM) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Terminal Control Unit Verification:

**MPSTVTM00 START TERMINAL CONTROL UNIT VERIFY**

**Explanation:** The terminal control unit verification test has started.

**Solution:** None required.

**MPSTVTM01 ILLEGAL DD TYPE OR NO UUT01 DEFINED**

**Explanation:** The test device must be defined as a type 5 DD card.

**Solution:** Redefine the test device.

**MPSTVTM02 INSUFFICIENT MEMORY TO GET TERMINAL WORK AREA**

**Explanation:** The memory allocation for a 4k I/O buffer failed and the function terminates.

**Solution:** Increase memory or reduce the number of concurrent tasks that are running.

**MPSTVTM03 FULL SCREEN RIPPLE DISPLAY**

**Explanation:** The full pattern ripple display test has started.

**Solution:** None required.

**MPSTVTM04 INDIVIDUAL CHARACTER DISPLAY**

**Explanation:** The individual character display test has started.

**Solution:** None required.

**MPSTVTM05 DATA COMPARE ERROR AT BYTE *num* DATA  
SHOULD BE ==> *x* <===**

**Explanation:** The data read from the screen buffer was not what was expected. The data at byte *num* should have been *x*.

**Solution:** Repeat the test using a different monitor. If the problem persists, the controller is in error. This is a severe error indicator.

**MPSTVTM06 AWAITING TCU VISUAL CONFIRMATION AT TERMINAL**

**Explanation:** This message is displayed on the console.

**Solution:** Look at the test monitor and confirm the screen contents.

**MPSTVTM07 VISUAL CONFIRMATION FAILURE – TEST ABORTED**

**Explanation:** The user indicated that the previous display was incorrect and the function terminates.

**Solution:** None required.

**MPSTVTM08 TCU VISUAL CONFIRMATION NORMAL**

**Explanation:** The user indicated that the previous display was correct and the function continues.

**Solution:** None required.

**MPSTVTM09 I/O ERROR OCCURRED – TEST ABORTED**

**Explanation:** An I/O error occurred and the test terminates.

**Solution:** None required.

**MPSTVTM10 AWAITING INPUT CHARACTER AT TERMINAL**

**Explanation:** The user has been prompted to enter a single character on the test device.

**Solution:** User enters the prompted character at the test terminal.

**MPSTVTM11 NOW DISPLAYING ==> x <=== AT TERMINAL**

**Explanation:** The user entered character *x* on the test device and character *x* is now being displayed.

**Solution:** None required.

**MPSTVTM12 END TERMINAL CONTROL UNIT VERIFICATION**

**Explanation:** The terminal control unit verification test has been terminated.

**Solution:** None required.

**MPSTVTM13 INCORRECT DEVICE TYPE FOR TERMINAL VERIFICATION**

**Explanation:** The LMU must be disconnected from its controller and replaced with a standard 3278 terminal before beginning this test series.

**Solution:** Attach the 3278 terminal and/or ensure that the correct location was entered in the device definition.

**MPSTVTM14 INVALID KEY PRESSED OR INVALID CHARACTER ENTERED**

**Explanation:** An invalid key was pressed or an invalid character was entered for the test sequence.

**Solution:** Enter a valid LMU character. Valid characters consist of upper case alphabet, numbers 0–9, and the characters < > ( ) ? and blank. Or, press `[[F3]]` to terminate the test.

## Chapter 20. MPSTWRC

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### Write-Read Cartridge (WRCART) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Write-Read Cartridge:

**MPSTWRC00 WRITE-READ CARTRIDGE**

**Explanation:** The WRCART function will be executed on the devices listed by message MPSTWRC02.

**Solution:** None required.

**MPSTWRC01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the WRCART function.

**Solution:** Enter the correct parameter.

**MPSTWRC02 UUT<sub>nm</sub>-CONFIGURED-ADDR *addr* VOLSER *vol* ICRC DRIVE STK  
3490E**

**Explanation:** Device UUT<sub>nm</sub> at address *addr* with volume serial number *vol* configured without error.

**Solution:** None required.

MPSTWRC03 WRCART SUMMARY FOR DDNAME UUT<sub>nm</sub> ADDR *addr*  
 VOLSER *volser* CU SERIAL NUMBER *num*  
 DR PHYSICAL ADR *addr* DR LOGICAL ADR *addr*  
 TOTAL CLOCK ELAPSED TIME *hh:mm:ss*,  
 TOTAL SIO ELAPSED TIME *sec.thd\_sec* SECONDS

PASSES EXECUTED:  
 RECORDS PROCESSED:  
 TAPE MARKS PROCESSED:

COMPARE ERRORS:  
 SEQUENCE ERRORS:  
 TEMP READ ERRORS:  
 PERM READ ERRORS:  
 TEMP WRITE ERRORS:  
 PERM WRITE ERRORS:  
 DEGRADED ERRORS:

BYTES READ:  
 BYTES WRITTEN:

CU DET TEMP RD FWR:  
 CU DET TEMP RD BKW:  
 CU DET TEMP WRT:  
 CU DET RD BLK COR:  
 CU DET WRT BLK COR:  
 CU DET WRT ERG COUNT:  
 CU DET RD TRANS ERRS:  
 CU DET WRT TRANS ERR:

CU DET TEMP ERR:  
 CU CNT READ TIMEOUTS:  
 CU CNT WRITE TIMEOUTS:  
 CU CNT DATA XFER ER:  
 CU CNT TEMP DRIVE ER:  
 CU CNT READ RETRY:  
 CU CNT CH WRT BYTES:  
 CU CNT DEV WRT BYTES:  
 WR BYTE COMP/NCOMP %:  
 CU CNT CH RD BYTES:  
 CU CNT DEV RD BYTES:

**RD BYTE COMP/NCOMP %:**  
**CU CNT CH WRT BLOCK:**  
**CU CNT DEV WRT BLOCK:**  
**CU CNT CH RD BLOCK:**  
**CU CNT DEV RD BLOCK:**

**Explanation:** The summary for this execution of WRCART for device *UUTnm* at address *addr* with volume serial number *volser* is printed.

- The number of passes executed and the number of records and tape marks processed is listed along with the total number of compare, sequence, temporary, and permanent read and write errors.
- The total elapsed time is the time used for all passes.
- The total bytes transferred, written, and read are also listed.
- If the RECOVERY parameter was specified, the number of control units detected (CU DET) functions for read and write temporary, erase gap, and read and write transient errors are listed.
- If NORECOVERY is specified, these counts are zero (0).
- If ICRC is active, the counts for ICRC functions are listed; otherwise they are zero (0).

**Solution:** None required.

#### MPSTWRC04 NO DEVICES CONFIGURED

**Explanation:** No test devices were configured for this execution of WRCART.

**Solution:** Verify defined devices.

**MPSTWRC05 GETMAIN FOR EXPECTED DATA BUFFER FAILED,  
DATA COMPARE NOT POSSIBLE**

**Explanation:** A GETMAIN for a portion of memory to be used for data comparison failed. Data comparison cannot be done.

**Solution:** For data comparison, increase the size of the region or partition where MPST is executing and then re-execute.

**MPSTWRC06 BLOCK SIZE PARM CHANGED, SET TO *size-size***

**Explanation:** The BLKSIZE parameter specified a value of less than 28 or greater than the maximum size allowed. The BLKSIZE parameter was changed to reflect the correct range for *size*.

- On MVS either 320000 or the device maximum is the maximum *size* allowed.
- On the PC 32000 is the maximum *size* allowed.
- On VM either 320000 or the device maximum is the maximum *size* allowed.

**Solution:** None required.

**MPSTWRC07 I/O ERROR...**

**Explanation:** An I/O error occurred during configuration.

This may occur when attempting to overwrite a tape using a non-expanded format device if the tape was previously written using an expanded format device.

**Solution:** Initialize the tape with a tape mark using a non-expanded format device to correct the problem.



**Warning:** Initializing the tape with a tape mark will result in all existing data on the tape being lost.

**MPSTWRC08 DDNAME UUT<sub>nm</sub> – NOT CONFIGURED – reason**

**Explanation:** Device UUT<sub>nm</sub> was not configured. *reasons* for not configuring:

- DD CARD NOT TYPE 5—The test device DD card is not a type 5 DD card.
- DRIVE ASSIGNED TO DIFFERENT PATH—The drive is assigned to another path.
- FILE PROTECTED—A test sequence with a write pass was specified but the cartridge is file protected. No testing can be done on this device.
- GET MAIN FOR I/O BUFFER FAILED—A GETMAIN for a 20K I/O buffer failed. Increase the size of the region or partition in which MPST is executing.
- I/O ERROR—An I/O error occurred during configuration. The error was described in message MPSTWRC07.
- NO DDCARD FOR TEST DEVICE—No device has been defined for this DD name.
- OPEN FAILED—An open for the device failed.
- OS LABEL ON CARTRIDGE VOLUME—The cartridge volume mounted on this device contains a valid OS tape label. Testing cannot be done on this device.
- RDC AND DDTYPE MISMATCH—Device characteristics read do not match the DD type specified.
- SENSE FAILED—Unable to get sense data from the device.
- TEST DEVICE NOT CARTRIDGE—The test device DD card does not define a cartridge device.

**Solution:** Verify that the test devices are correctly defined, online and available.

**MPSTWRC09 DDNAME UUT<sub>nm</sub> HAS NOT BEEN DEFINED,  
VOLSER *volser* WILL BE IGNORED**

**Explanation:** VOLSER parameter detected but UUT<sub>nm</sub> was not defined. Volume serial number *volser* will be ignored.

**Solution:** None required.

**MPSTWRC10 \*\*NOTE: BLKSIZE <4K = LONG EXECUTE TIME \*\***

**Explanation:** If the block size specified by the BLKSIZE= parameter is less than 4098, the time to execute WRCART to completion may be very long.

**Solution:** None required.

**MPSTWRC11 UUT<sub>nm</sub> *addr volser* -- ALL PASSES COMPLETE**

**Explanation:** The number of passes specified by the NPASS parameter has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. Testing has terminated on that device but continues on other devices.

**Solution:** None required.

**MPSTWRC12 UUT<sub>nm</sub> *addr volser* -- STOPPED AT OPERATOR REQUEST**

**Explanation:** WRCART has detected that a stop command was entered at the operator's console. Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been stopped.

**Solution:** None required.

**MPSTWRC13 UUT<sub>nm</sub> *addr volser* -- TERMINATED DUE TO ERROR  
CONDITION**

**Explanation:** Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been terminated due to a permanent error.

**Solution:** None required.

**MPSTWRC14 UUTnm addr volser -- BLOCK SIZE CHANGED TO MAX READ SIZE FOR CONTROL UNIT - 2 (size)**

**Explanation:** The BLKSIZE parameter requested a larger block size than the device can handle. The block size has been changed to the correct *size* for this device.

- On MVS either 320000 or the device maximum is the maximum *size* allowed.
- On the PC 32000 is the maximum *size* allowed.
- On VM either 320000 or the device maximum is the maximum *size* allowed.

**Solution:** None required.

**MPSTWRC15 UUTnm addr volser -- CMD REJ ON PSF CCW, CHECK MICROCODE LEVEL**

**Explanation:** PSF commands issued to configure the device were rejected.

**Solution:** Verify that the device has the current level of microcode.

**MPSTWRC19** *ddname1 addr1 VOLSER -- CARTRIDGE BEING CREATED ON*  
*ddname2 addr2 cu\_sn phys\_addr log\_addr*  
*hh:mm:ss mm/dd/yyyy num*

**Explanation:** This message identifies the tape drive that is creating the cartridge.

- The drive reading the cartridge is identified by *ddname1* and drive address *addr1*.
- The drive that created the cartridge is identified by *ddname2*, drive address *addr2*, control unit serial number *cu\_sn*, tape drive physical address *phys\_addr*, and tape drive logical address *log\_addr*.
- The time is specified by hour:minute:second (*hh:mm:ss*) and the date is specified by month:day:year (*mm:dd:yyyy*). They identify when the write pass started.
- *num* is the number of records per file.

If this device is a Model 3490E, the characters '3490E' will follow *num*.

**Solution:** None required.

**MPSTWRC20** *ddname1 addr1 VOLSER -- CARTRIDGE WRITTEN ON*  
*ddname2 addr2 cu\_sn phys\_addr log\_addr*  
*hh:mm:ss mm/dd/yyyy num*

**Explanation:** This message identifies the tape drive that created the cartridge being read.

- The drive reading the cartridge is identified by *ddname1* and drive address *addr1*.
- The drive that created the cartridge is identified by *ddname2*, drive address *addr2*, control unit serial number *cu\_sn*, tape drive physical address *phys\_addr*, and tape drive logical address *log\_addr*.
- The time is specified by hour:minute:second (*hh:mm:ss*) and the date is specified by month:day:year (*mm:dd/yyyy*). They identify when the write pass ended on the creating drive if the current pass is a read backward.
- *num* is the number of records per file.

**Solution:** None required.

**MPSTWRC21** *UUTnm addr -- type PASS, INCORRECT STATUS stat*  
**ON cmd COMMAND**

**Explanation:** Incorrect status was received for an I/O operation to device *UUTnm* at address *addr* during a *type* pass. The actual status received was *stat* and the command executed was *cmd*.

**Solution:** None required.

**MPSTWRC22** *UUTnm addr* -- BOT LABEL MISSING, CARTRIDGE NOT WRITTEN BY WRCART

**Explanation:** A read forward pass is being executed on the test device *UUTnm* at address *addr* but the BOT label on the cartridge is not a BOT label that WRCART writes on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC23** *UUTnm addr volser* -- UNEXPECTED EOT

**Explanation:** A data record was expected but an EOT label was read. The tape mark separating the data records and the EOT record was missed on a read forward pass of the cartridge on test device *UUTnm* at address *addr* with volume serial number *volser*. Testing on the test device terminates.

**Solution:** None required.

**MPSTWRC24** *UUTnm addr volser* -- EOT LABEL RECORD MISSING

**Explanation:** The cartridge on test device *UUTnm* at address *addr* with volume serial number *volser* is missing the EOT label that WRCART writes on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC25** *UUTnm addr volser* -- BLOCK COUNT ERROR, EXPECTED *w\_num*, RECEIVED *r\_num*

**Explanation:** The number of blocks read (*r\_num*) does not compare with the number of blocks written (*w\_num*) as listed in the EOT label for the cartridge on test device *UUTnm* at address *addr* with volume serial number *volser*. This is the equivalent of an S237 ABEND. Testing on the test device continues.

**Solution:** None required.

**MPSTWRC26** *UUTnm addr volser* -- **EOT LABEL RECORD MISSING**

**Explanation:** During a read backward pass on the cartridge on test device *UUTnm* at address *addr* with volume serial number *volser*, the first record read was not the EOT label as expected or the EOT record was not found after skipping a maximum of three tape marks. Testing on the test device terminates.

**Solution:** None required.

**MPSTWRC27** *UUTnm addr volser* -- **MISSING TM BEFORE EOT RECORD**

**Explanation:** A read backward pass is being executed on test device *UUTnm* at address *addr* with volume serial number *volser*. The EOT label was read successfully but the next record on the cartridge was not the tape mark preceding the EOT record. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC28** *UUTnm addr volser* -- **UNEXPECTED BOT**

**Explanation:** A data record was expected but a BOT label was read on a read backward pass of the cartridge on test device *UUTnm* at address *addr* with volume serial number *volser*. (The tape mark separating the data records and the BOT record was missed.) Testing on the device terminates.

**Solution:** None required.

**MPSTWRC29** *UUTnm addr volser* -- **BOT LABEL RECORD MISSING**

**Explanation:** The cartridge on test device *UUTnm* at address *addr* with volume serial number *volser* is missing the BOT label that WRCART writes on a test volume. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC30** *UUTnm addr volser* -- **READ BACKWARD PASS NOT POSSIBLE**

**Explanation:** The last pass executed on test device *UUTnm* at address *addr* with volume serial number *volser* was not a write pass, a read forward pass, or ICRC is active and RDBKICRC was not specified. A read backward pass cannot be executed and testing on the test device continues.

**Solution:** None required.

**MPSTWRC31** *UUTnm addr volser* -- **WRONG LENGTH RECORD, EXPECTED**  
*x\_num* **BYTES, RECEIVED** *r\_num* **BYTES, RECORD** *rec\_num*

**Explanation:** A record was read on test device *UUTnm* at address *addr* with volume serial number *volser* that was not the length expected. WRCART expected record number *rec\_num* to have *x\_num* bytes but *r\_num* bytes were received.

**Solution:** None required.

**MPSTWRC32** *UUTnm addr* -- **EXCHANGE VOLUMES, REPLY ANY CHARACTER**  
**WHEN DRIVE READY**

**Explanation:** An exchange point was reached for test device *UUTnm* at address *addr*.

**Solution:** Reply with any character when the cartridge volumes have been exchanged and the drive is made ready.

**MPSTWRC33** *UUTnm addr* -- **OPEN FAILED, OPERATION NOT POSSIBLE**

**Explanation:** An open for test device *UUTnm* at address *addr* failed after the cartridge volumes were exchanged. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC34 UUTnm addr -- BOT LABEL RECORD MISSING, CARTRIDGE NOT WRITTEN BY WRCART**

**Explanation:** The first record on the cartridge, mounted on test device UUTnm at address *addr*, after an exchange point was not a BOT label record written by the WRCART function. Testing on the device terminates.

**Solution:** None required.

**MPSTWRC35 UUTnm addr volser -- SEQUENCE ERROR, EXPECTED *x\_num*, RECEIVED *y\_num***

**Explanation:** A sequence error occurred on test device UUTnm at address *addr* with volume serial number *volser*. WRCART expected *x\_num* but read *y\_num*, where *x* and *y* are either RECORD or TAPE-MARK *num*.

**Solution:** None required.

**MPSTWRC36 UUTnm addr volser -- ID FIELDS INCORRECT, RECORD *rec* FIRST 8 BYTES: *fffffff*, LAST 8 BYTES: *lllllll***

**Explanation:** The ID fields (the first and last eight bytes) do not match for record *rec* on test device UUTnm at address *addr* with volume serial number *volser*.

- *fffffff* is the first eight bytes of the record.
- *lllllll* is the last eight bytes of the record.

**Solution:** None required.

**MPSTWRC37 UUTnm addr volser -- UNKNOWN RECORD READ --**

**Explanation:** A short record was read on test device UUTnm at address *addr* with volume serial number *volser*. A dump of the record follows this message.

**Solution:** None required.

**MPSTWRC38** *UUTnm addr volser* -- **SEQUENCE ERROR,  
EXPECTED RECORD *x\_rec*, RECEIVED RECORD *y\_rec***

**Explanation:** A sequence error occurred on test device *UUTnm* at address *addr* with volume serial number *volser* mounted. WRCART expected record *x\_rec* but received record *y\_rec*.

**Solution:** None required.

**MPSTWRC39** **I/O ERROR . . .**

**Explanation:** The actual data read from a record did not match the expected data for that record.

**Solution:** None required.

**MPSTWRC40** *UUTnm addr* -- **CARTRIDGE IN ICRC FORMAT AND DRIVE IS  
NOT CAPABLE OF ICRC**

**Explanation:** A read forward pass has started for device *UUTnm* at address *addr*. The cartridge was written in ICRC format and the drive is not capable of ICRC.

**Solution:** Move the cartridge to a device that is ICRC capable.

MPSTWRC41 UUT $nm$  *addr volser* -- SUMMARY FOR WRITE PASS

BYTES WRITTEN:  
 RECORDS WRITTEN:  
 TAPE MARKS WRITTEN:

TEMPORARY ERRORS:  
 PERMANENT ERRORS:  
 DEGRADED ERRORS:

CU DET TEMP WRT:  
 CU DET WRT BLK COR:  
 CU DET ERG COUNT:  
 CU DET WRT TRANS ERRS:

CU CNT WRT TIMEOUTS:  
 CU CNT CH WRT BYTES:  
 CU CNT DEV WRT BYTES:  
 WR BYTE COMP/NCOMP %:  
 CU CNT CH WRT BLOCK:  
 CU CNT DEV WRT BLOCK:

**Explanation:** A write pass has been completed for device UUT $nm$  at address *addr* with volume serial number *volser*. The summary report for the write pass is contained within this message.

If ICRC is active, the counts for ICRC functions are listed; otherwise, they are zero.

**Solution:** None required.

MPSTWRC42 SUMMARY INFORMATION NOT KEPT FOR DRIVE UUT $nm$  AND VOLUME *volser*

**Explanation:** The summary information for all passes for test device UUT $nm$  and tape volume serial number *volser* is not being kept.

**Solution:** None required.

MPSTWRC43 UUT $nm$  addr volser -- SUMMARY FOR READ FORWARD PASS

BYTES READ:  
RECORDS READ:  
TAPE MARKS READ:

COMPARE ERRORS:  
SEQUENCE ERRORS:  
TEMPORARY ERRORS:  
PERMANENT ERRORS:  
DEGRADED ERRORS:

CU DET RD FWR:  
CU DET RD BLK COR:  
CU DET RD TRANS ERRS:

CU CNT CH RD BYTES:  
CU CNT DEV RD BYTES:  
RD BYTE COMP/NCOMP %:  
CU CNT CH RD BLOCK:  
CU CNT DEV RD BLOCK:

**Explanation:** A read forward pass has been completed for device UUT $nm$  at address *addr* with volume serial number *volser*. The summary report for the read forward pass is contained within this message.

If ICRC is active, the counts for ICRC functions are listed; otherwise, they are all zero.

**Solution:** None required.

**MPSTWRC44 UUT<sub>nm</sub> addr volser -- SUMMARY FOR READ BACKWARD PASS**

**BYTES READ:**  
**RECORDS READ:**  
**TAPE MARKS READ:**

**COMPARE ERRORS:**  
**SEQUENCE ERRORS:**  
**TEMPORARY ERRORS:**  
**PERMANENT ERRORS:**  
**DEGRADED ERRORS:**

**CU DET TEMP RD BKW:**  
**CU DET RD BLK COR:**  
**CU DET RD TRANS ERRS:**

**Explanation:** A read backward pass has been completed for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. The summary report for the read backward pass is contained within this message.

**Solution:** None required.

**MPSTWRC45 UUT<sub>nm</sub> addr -- CARTRIDGE IN ICRC FORMAT AND DRIVE IS NOT CAPABLE OF ICRC**

**Explanation:** A read backward pass has started for device UUT<sub>nm</sub> at address *addr*. The cartridge was written in ICRC format and the drive is not capable of ICRC.

**Solution:** Move the cartridge to a device that is ICRC capable.

```

MPSTWRC50 UUTnm addr volser -- LOGGING SENSE DATA --
REC-N rec REC-LEN num N-RETRYnum
CMD cmd SIO CCcode
STAT unit_chan CPU id PATH chan
SENSE bytes

```

**Explanation:** A temporary error was detected and the control unit is in forced logging mode on test device *UUTnm* at address *addr* with volume serial number *volser* mounted.

- REC-N *rec*—The record number of the record on which the error occurred.
- REC-LEN *num*—The number of bytes transferred at the time of the error.
- N-RETRY *num*—The number of times the operation has been retried.
- CMD *cmd*—The channel command being executed.
- SIO CC *code*—The SIO condition code.
- STAT *unit\_chan*—The unit and channel status for CSW.
- CPU *id*—The CPU ID of the CPU on which the error occurred.
- PATH *chan*—The actual channel path on which the error occurred.
- SENSE *bytes*—The sense bytes.

**Solution:** None required.

**MPSTWRC51 UUT $nm$  addr volser -- TEMPORARY ERROR AT***hh:mm:ss mm/dd/yyyy***REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num***CMD** *cmd* **SIO CC** *code***STAT** *unit\_chan* **CPU** *id* **PATH** *chan***SENSE** *bytes*

**Explanation:** A temporary error has occurred on test device UUT $nm$  at address *addr* with volume serial number *volser* at *hh:mm:ss mm:dd/yyyy*.

- REC-N *rec*—The record number of the record on which the error occurred.
- REC-LEN *num*—The number of bytes transferred at the time of the error.
- N-RETRY *num*—The number of times the operation has been retried.
- CMD *cmd*—The channel command being executed.
- SIO CC *code*—The SIO condition code.
- STAT *unit\_chan*—The unit and channel status for CSW.
- CPU *id*—The CPU ID of the CPU on which the error occurred.
- PATH *chan*—The actual channel path on which the error occurred.
- SENSE *bytes*—The sense bytes.

**Solution:** None required.

**MPSTWRC52** *UUTnm addr volser -- type ERROR AT*  
*hh:mm:ss: mm/dd/yyyy*  
**REC-N** *rec* **REC-LEN** *num* **N-RETRY** *num*  
**CMD** *cmd* **SIO CC** *code*  
**STAT** *unit\_chan* **CPU** *id* **PATH** *chan*  
**SENSE** *bytes*  
**DESC** *message*

**Explanation:** A permanent error has occurred on test device *UUTnm* at address *addr* with volume serial number *volser*. *hh:mm:ss mm/dd/yyyy* indicates the date and time the error occurred. *type* indicates an error condition of either PERMANENT or DEGRADED.

- **REC-N** *rec*—The record number of the record on which the error occurred.
- **REC-LEN** *num*—The number of bytes transferred at the time of the error.
- **N-RETRY** *num*—The number of times the operation has been retried.
- **CMD** *cmd*—The channel command being executed.
- **SIO CC** *code*—The SIO condition code.
- **STAT** *unit\_chan*—The unit and channel status for CSW.
- **CPU** *id*—The CPU ID of the CPU on which the error occurred.
- **PATH** *chan*—The actual channel path on which the error occurred.
- **SENSE** *bytes*—The sense bytes.

- DESC *message* is a message describing the error. Some possible messages and their meanings are:
  - CHANNEL STATUS ERROR—The channel status byte of the CSW indicated a channel-type error.
  - ECB *XX*—The event control block (ECB) completion code was not 7F (no error) or 41 (permanent error). Any other ECB code is a fatal error.
  - NOT DATA CHK OR OVRN—The error was not a data check or an overrun. Data checks and overruns are retried. All other errors are considered permanent.
  - PERMANENT READ ERROR—Read error recovery failed to recover from a temporary read error. The error is now a permanent error.
  - PERMANENT WRITE ERROR—Write error recovery failed to recover from a temporary write error. The error is now a permanent error.
  - READ ERP FAIL, CMD = *cmd*—The error occurred during read error recovery. *cmd* is the command which failed during retry.
  - UNKNOWN CCW FAILED—The failing CCW could not be determined and no recovery action could be taken.
  - WRITE ERP FAIL, CMD = *cmd*—The error occurred during write error recovery. *cmd* is the command which failed during retry.

**Solution:** None required.

**MPSTWRC53 UUT $nm$  addr volser -- UNABLE TO REESTABLISH SEQUENCE**

**Explanation:** Following a sequence error, WRCART attempts to get back in sync by resetting the record expected based upon the record just processed. If the record read is more than eight off of the record expected, the error is too great to correct in this manner.

**Solution:** None required.

**MPSTWRC54 UUT $nm$  addr volser -- LOAD DISPLAY COMMAND FAILED**  
**MESSAGE=***message*  
**SENSE** *bytes*

**Explanation:** The LOAD DISPLAY command issued to device UUT $nm$  at address *addr* with volume serial number *volser* failed.

**Solution:** None required.

**MPSTWRC55 UUT $nm$  addr volser -- xx IS A NEW ERPA CODE, CONTACT CSE SOFTWARE SUPPORT**

**Explanation:** An error occurred on device UUT $nm$  at address *addr* with volume serial number *volser*. The ERPA code of *xx* is unsupported.

**Solution:** Notify CS Software Support of this message and give them the sense data.

**MPSTWRC56 UUT $nm$  addr volser -- BUFFERED LOG OVERFLOW**  
**SENSE** *bytes*

**Explanation:** The buffered log overflowed for device UUT $nm$  at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTWRC57** *UUTnm addr volser* -- **BUFFERED LOG SENSE DATA AT  
END OF PASS  
SENSE bytes**

**Explanation:** The buffered log data is read at the end of each pass for device *UUTnm* at address *addr* with volume serial number *volser*. The log counters have been added to the statistics.

**Solution:** None required.

**MPSTWRC58** *UUTnm addr volser* -- **SIO CC code, STAT status, READ  
BUFFER LOG COMMAND FAILED**

**Explanation:** A read buffered log CCW was issued to obtain the current buffered log for device *UUTnm* at address *addr* with volume serial number *volser*. The CCW failed with an SIO condition code of *code* and STAT of *status*.

**Solution:** None required.

**MPSTWRC59** *UUTnm addr volser* -- **END OF DATA ERROR - ERPA X'36',  
type PASS**

**Explanation:** A unit check was posted due to end of data being detected on the cartridge tape. This is an excepted error. The type of pass (*type*) is WRT for a write pass, RDF for a read forward pass, or RDB for a read backward pass.

**Solution:** None required.

**MPSTWRC60** *UUTnm addr volser* -- **1ST TIME READ BACKWARD ON ICRC  
TAPE**

**Explanation:** When a cartridge tape in ICRC format is read backward by device *UUTnm* at address *addr* with volume serial number *volser*, this message is posted. FSC of X'4411'.

**Solution:** None required.

**MPSTWRC61** *UUTnm addr volser -- START type PASS*  
**(PASS NUMBER num)**

**Explanation:** A pass has been started on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass.

**Solution:** None required.

**MPSTWRC62** *UUTnm addr volser -- END type PASS*  
**(PASS NUMBER num)**  
**START DATE/TIME** *mm/dd/yyyy hh:mm:ss*  
**END DATE/TIME** *mm/dd/yyyy hh:mm:ss*  
*type PASS, CLOCK ELAPSED TIME hh:mm:ss,*  
**SIO ELAPSED TIME** *sec.thds SECONDS*

**Explanation:** A pass has ended on test device *UUTnm* at address *addr* with volume serial number *volser*. The type of pass (*type*) is RDF for a read forward pass, RDB for a read backward pass, or WRT for a write pass.

The start and end date and times, as well as the elapsed time for this pass, are listed.

**Solution:** None required.

**MPSTWRC63** *UUTnm addr volser -- CU SERIAL# sn*  
**DRIVE PHYSICAL ADDRESS** *phy\_addr*  
**DRIVE LOGICAL ADDRESS** *log\_addr*

**Explanation:** This message always follows message MPSTWRC61.

**Solution:** None required.

**MPSTWRC64 UUTnm addr-- TERMINATED DUE TO INCOMPATIBILITY,  
DEVICE NOT CAPABLE OF READING 3480-2/XF FORMAT**

**Explanation:** A cartridge tape written in 3480-2 XF format is mounted on device UUTnm at address addr and the device does not support 3480-2 XF format.

**Solution:** None required.

**MPSTWRC70 SIZE OF ACTUAL RECORD length, EXCEEDED THE MAXIMUM  
BLOCK SIZE size**

**Explanation:** The length of the actual record is greater than the maximum block size specified (size) via the BLKSIZE= parameter or the default length if BLKSIZE= was not specified.

**Solution:** None required.

**MPSTWRC91 PARAMETER ERROR (parm)**

**Explanation:** The parameter (parm) is either coded incorrectly or is invalid for the modify command for the WRCART function.

**Solution:** Re-enter the modify command using the correct parameter.

**MPSTWRC96 VALID MODIFY COMMANDS FOR WRCART**

**Explanation:** The modify command CMDLIST was issued to WRCART. The valid modify commands for WRCART follow this message.

**Solution:** None required.

**MPSTWRC97 WRCART DOES NOT SUPPORT MODIFY (parameter)**

**Explanation:** The modify parameter is not supported by the WRCART function.

**Solution:** None required.

**MPSTWRC98 CURRENT** *message*

**Explanation:** This message is issued in response to a `modiFy parameter` command requesting the current value of *parameter*.

**Solution:** None required.



## Chapter 21. MPSTWRD

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### Write-Read Disk (WRDISK) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for Write-Read Disk

**MPSTWRD00 WRITE-READ DISK**

**Explanation:** The WRDISK function will be executed on the devices listed by message MPSTWRD02.

**Solution:** None required.

**MPSTWRD01 PARAMETER ERROR (*parm*)**

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the WRDISK function.

**Solution:** Re-enter the command using the correct parameter.

**MPSTWRD02 DDNAME UUT<sub>nm</sub>-CONFIGURED OK-ADDRESS *addr***  
**VOLSER *volser* DEVICE TYPE *type* NUMBER OF TRACKS *num***  
*message*  
**FIRST TRACK *start.num* LAST TRACK *end.num***  
**[SEQUENTIAL PARAMETER FORCED]**

**Explanation:** WRDISK has successfully configured test device UUT<sub>nm</sub> at address *addr*.

- If the device has the DASD fast write (DFW) feature, then *message* will be DFW ACTIVE or DFW INACTIVE.
- If the device is an Iceberg or Nordique device, then *message* will be MFG and STK and the product name will be listed.

**Solution:** None required.

MPSTWRD03 WRDISK SUMMARY FOR DDNAME UUT $nm$  ADDR  $addr$  TYPE  $type$   
 VOLSER  $volser$   
*message*  
 EACH TRACK WAS TESTED AN AVERAGE OF  $num$  TIMES  
 TOTAL NUMBER OF RECORDS WRITTEN  $num$   
 TOTAL NUMBER OF RECORDS READ  $num$   
 TOTAL NUMBER OF RECORDS PROCESSED  $num$   
 TOTAL NUMBER OF MBYTES WRITTEN  $num$   
 TOTAL NUMBER OF MBYTES READ  $num$   
 TOTAL NUMBER OF ERRORS ENCOUNTERED  $num$

**SUMMARY BY HEAD:**

...

**SUMMARY BY ERROR TYPE:**

...

**Explanation:** The summary for this execution of WRDISK for device UUT $nm$  at address  $addr$  with volume serial number  $volser$  is printed. Each track tested by WRDISK was tested an average of  $num$  times.  $num$  is calculated by dividing the number of times any track was selected for testing by the number of tracks to be tested.

The SUMMARY BY HEAD table lists the number of records processed (both reading and writing) and the number of errors encountered for each head tested. The head number is listed in decimal and hexadecimal.

The SUMMARY BY ERROR TYPE table lists the number of errors for each error type for all heads. OTHER errors are errors which are not format 0 through 8. COMPARE errors are errors where data read did not match the data written.

**Solution:** None required.

**MPSTWRD04 NO DEVICES CONFIGURED**

**Explanation:** No test devices were configured for this execution of WRDISK.

**Solution:** Verify that the test devices are correctly defined and online and available.

**MPSTWRD06 BLKSIZE SPECIFIED LARGER THAN DEVICE UUT<sub>nm</sub> ALLOWS, SET TO MAXIMUM FOR DEVICE**

**Explanation:** The block size specified by the BLKSIZE= parameter is larger than the maximum allowed for test device UUT<sub>nm</sub>. The block size will be set to the maximum allowed for this device.

**Solution:** None required

**MPSTWRD07 UUT<sub>nm</sub> addr volser -- DUMP OF TRACK FOLLOWS --**

**Explanation:** An error occurred on device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* and the DUMP parameter was specified. A dump of the track follows this message.

**Solution:** None required.

**MPSTWRD08 DDNAME UUT<sub>nm</sub> - NOT CONFIGURED - reason**

**Explanation:** Device UUT<sub>nm</sub> was not configured. *reasons* for not configuring:

- 3390 FORMULA 2 W/F5 EQUAL 0—A 3390 controller with a 3390 device attached and the device characteristic information indicates that the problem is that the F5 factor, a division for the formula, is zero.
- DD CARD NOT TYPE 2, 3, OR 4—The test device DD card for UUT<sub>nm</sub> is not a type 2, 3 or 4 DD card. Verify that the DD card is coded correctly.

- ERR ON RD DEV CHARACTERISTICS—A read device characteristics command was issued to the device and an error was encountered.
- ERR ON SENSE CMD—A sense command was issued to the device and an error was encountered.
- ERR ON SENSE ID—A sense ID command was issued to the device and an error was encountered.
- ERR ON SENSE SUBSYSTEM STATUS—A sense subsystem status command was issued to the device and an error was encountered.
- GET MAIN FOR I/O BUFFER FAILED—More system memory required for WRDISK to run with this many devices.
- NO DDCARD FOR TEST DEVICE—There is no DD card for UUT $nm$ . Verify that the DD card is coded correctly.
- NO TRACKS ALLOCATED—The DD card specified for test device UUT $nm$  is a DD type 1 (zero space allocated). The DD type must be 2, 3 or 4.
- OPEN FAILED—An open for the device failed. Verify that the DD card is coded correctly.
- RDC DEV XXX, NOT = DD DEV TYPE—The device type specified on the WRDISK DD card does not match the device type obtained from the read device characteristics command.
- TEST DEVICE NOT DASD—The test device DD card for UUT $nm$  does not define a DASD device. Verify that the DD card is coded correctly.

**Solution:** None required.

**MPSTWRD09 TOO MANY DFW DEVICES SPECIFIED**

**Explanation:** The DFW parameter or modify command was specified and too many devices were requested.

**Solution:** The maximum number of defined devices is eight.

**MPSTWRD11 UUT<sub>nm</sub> addr volser -- IOLIMIT REACHED**

**Explanation:** The I/O limit specified by the IOLIMIT parameter has been reached for device UUT<sub>nm</sub> at address *addr* with volume serial number *volser*. Testing has terminated on that device but continues on any other devices.

**Solution:** None required.

**MPSTWRD12 UUT<sub>nm</sub> addr volser -- STOPPED AT OPERATOR REQUEST**

**Explanation:** WRDISK has detected that a stop command was entered at the operator's console. Testing on all devices, including UUT<sub>nm</sub> at address *addr* with volume serial number *volser*, has been stopped.

**Solution:** None required.

**MPSTWRD13 UUT<sub>nm</sub> addr volser -- ELIMIT REACHED OR UNRECOVERABLE I/O ERROR**

**Explanation:** Testing on test device UUT<sub>nm</sub> at address *addr* with volume serial number *volser* has been terminated. Either the number of permanent errors exceeds the maximum allowed by the ELIMIT parameter or an unrecoverable I/O error has occurred.

**Solution:** None required. Testing continues on all other devices.

**MPSTWRD15 WRDISK, *addr*, *volser*, NO ERRORS DETECTED**

**Explanation:** No errors were detected by WRDISK while testing the device at address *addr* with volume serial number *volser*.

**Solution:** None required.

**MPSTWRD16 WRDISK, *addr*, *volser*, TEMPORARY ERROR DETECTED**

**Explanation:** Correctable/temporary errors were detected by WRDISK while testing the device at address *addr* with volume serial number *volser*. This message does not indicate a problem that requires immediate attention.

**Solution:** This message indicates problems that should be investigated at the next scheduled maintenance period. The MPST printer output should be retained and given to CS Software Support.

**MPSTWRD17 WRDISK, *addr*, *volser*, DEVICE ERRORS DETECTED, POSSIBLE DEVICE PROBLEM, NOTIFY CSE**

**Explanation:** Errors were detected by WRDISK while testing the device at address *addr* with volume serial number *volser*.

**Solution:** This message indicates problems that should be investigated as soon as possible. The printer output should be retained and given to CS Software Support.

**MPSTWRD18 WRDISK, *addr*, *volser*, CORRECTABLE DATA CHECKS DETECTED, NOTIFY CSE**

**Explanation:** Correctable data checks were detected by WRDISK while testing the device at address *addr* with volume serial number *volser*.

**Solution:** This message indicates problems that should be investigated at the next scheduled maintenance period. The MPST printer output should be retained and given to CS Software Support.

**MPSTWRD19 WRDISK, *addr*, *volser*, NO PROBLEMS DETECTED**

**Explanation:** WRDISK detected no problems while testing the device at address *addr* with volume serial number *volser*.

**Solution:** None required.

**MPSTWRD20 UUT*nm*, *addr*, *volser*, TESTING TERMINATED ON THIS TRACK**

**Explanation:** An error occurred while trying to fill the track with records. This error prevents further testing on the track and testing on this track is terminated. However, this track may be selected for testing again.

This track is located on device UUT*nm* at address *addr* and volume serial number *volser*.

**Solution:** None required.

**MPSTWRD31 I/O ERROR...**

**Explanation:** An error occurred while attempting to write a write count, key, or data record.

**Solution:** None required.

**MPSTWRD32 I/O ERROR...**

**Explanation:** An error occurred while attempting to read a write count, key, or data record.

**Solution:** None required.

**MPSTWRD33 I/O ERROR...**

**Explanation:** An error occurred while attempting to update a record with a write key and data command.

**Solution:** None required.

**MPSTWRD34 I/O ERROR...**

**Explanation:** An error occurred while attempting to read an updated record.

**Solution:** None required.

**MPSTWRD35 I/O ERROR...**

**Explanation:** An unrecoverable error occurred. An unrecoverable error is a channel error, intervention required, command reject, or a device error other than unit check.

**Solution:** None required.

**MPSTWRD36 UUT $nm$  addr volser -- ERROR LOOP REACHED**

**Explanation:** An error occurred on test device UUT $nm$  at address  $addr$  with volume serial number  $volser$  and the maximum number of retries specified by the LOOP parameter has been reached without retry being successful.

**Solution:** None required.

**MPSTWRD60 WRDISK \*\*\*\* PROGRAM ERROR \*\*\*\* message -  
ERROR CODE  $num$** 

**Explanation:** Bad parameter passed in program.

**Solution:** The MPST printer output should be retained and given to CS Software Support.

**MPSTWRD80 DEVICE  $addr$  NOT CONFIGURED FOR DFW**

**Explanation:** Either the parameters DFwon= or DFwoFF= included device  $addr$  and that device does not support the DASD fast write (DFW) feature.

**Solution:** Enter the correct parameter.

**MPSTWRD81 DEVICE *addr* NOT ON A VALID DFW CONTROLLER**

**Explanation:** Device *addr* is not connected to a 3390 type controller with the cache feature.

**Solution:** None required.

**MPSTWRD82 UUT*nm addr volser* -- UNRECOVERABLE DFW ERROR**

**Explanation:** Device UUT*nm* at address *addr* with volume serial number *volser* had a failure issuing DFW commands.

**Solution:** None required.

**MPSTWRD83 DEVICE *addr* DFW IS NOW *status***

**Explanation:** The DASD fast write (DFW) *status* of the device at address *addr* is now either ACTIVE or INACTIVE.

**Solution:** None required.

**MPSTWRD84 DEVICE *addr* DFW FAILED TO *status***

**Explanation:** Either the sense subsystem status command failed or a DFWOFF= parameter was issued to device *addr* and its DFW *status* failed to ACTIVATE.

**Solution:** None required.

**MPSTWRD85 DEVICE *addr* DFW NOT SUPPORTED**

**Explanation:** The 3390 type control for device *addr* does not support the DASD fast write (DFW) feature.

**Solution:** None required.

**MPSTWRD86 DEVICE** *addr message*

**Explanation:** On a 3390 type control for device *addr* the *message* is either:

- CACHING NOT ACTIVE, or
- NVS NOT AVAILABLE.

NVS stands for nonvolatile storage.

**Solution:** None required.

**MPSTWRD91 PARAMETER ERROR** (*parm*)

**Explanation:** The parameter (*parm*) is either coded incorrectly or is invalid for the `modiFy` command for the WRDISK function.

**Solution:** Re-enter the command using the correct parameter.

**MPSTWRD96 VALID MODIFY COMMANDS FOR WRDISK**

**Explanation:** The `modiFy` command `CMDLIST` was issued to WRDISK. The valid `modiFy` commands for WRDISK follow this message.

**Solution:** None required.

**MPSTWRD97 WRDISK DOES NOT SUPPORT MODIFY PARM** (*parameter*)

**Explanation:** The `modiFy` *parameter* is not supported by the WRDISK function.

**Solution:** None required



## Chapter 22. MSAE

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### MPST Stand-Alone Executive (MPSTSAE) Messages

All MPST functions and diagnostics use standard I/O operation checking routines and these routines issue standard messages for errors. Error message numbers are issued according to which function or diagnostic was being run when the error occurred.



**Hint:** To make finding the messages easier, both the message number and the message text are bold.

The following messages are issued for the MPST Stand-alone Executive:

**MSAE000 MPST STAND-ALONE EXECUTIVE**

**Explanation:** This message, including copyright notice, is issued when MPSTSAE successfully loads.

**Solution:** None required.

**MSAE001 MPSTSAE READY -- ENTER A COMMAND --  
TO CONFIGURE A PRINTER, ENTER A VARY COMMAND.  
TO START MAIN; ENTER START, AUTOSTART, RESTART  
FOR HELP, ENTER HELP**

**Explanation:** MPSTSAE has loaded and is ready to process commands.

**Solution:** Enter MPSTSAE commands.

**MSAE002 MPSTSAE IS RUNNING ON A VM VIRTUAL MACHINE**

**Explanation:** MPSTSAE is executing on a VM virtual machine.

**Solution:** None required.

**MSAE003 MPSTSAE IS IN AP/MP MODE USING *num* PROCESSORS**

**Explanation:** MPSTSAE is executing on an AP/MP system. The number of processors configured is *num*.

**Solution:** None required.

**MSAE004 UNABLE TO DETERMINE BCT COUNT**

**Explanation:** MPSTSAE is unable to determine the one second BCT instruction count for the CPU. Time dependent testing cannot be performed.

**Solution:** None required.

**MSAE005 TOD CLOCK ERROR OR NOT OPERATIONAL**

**Explanation:** The CPU time-of-day clock is either incorrect or not working.

**Solution:** To continue, reset the time-of-day clock.

**MSAE006 PRESS TOD CLOCK ENABLE SWITCH TO CONTINUE**

**Explanation:** The time-of-day (TOD) clock must be enabled to continue MPSTSAE operation.

**Solution:** Press the switch on the CPU that enables the TOD clock.

**MSAE007 INTERVAL TIMER NOT RUNNING**

**Explanation:** The CPU interval timer is not operational.

**Solution:** None required.

**MSAE008 ENABLE THE INTERVAL TIMER -- REPLY ANY CHARACTER**

**Explanation:** The interval timer must be enabled.

**Solution:** Enable the interval timer; then, enter any keyboard character to continue MPSTSAE operation.

**MSAE009 M/S *stor\_size*, D/A *dym\_area*, H/A *hi\_addr***

**Explanation:** The storage areas being used by MPSTSAE are:

- **M/S *stor\_size***—The size of the main storage area.
- **D/A *dym\_area***—The size of the MPST dynamic area.
- **H/A *hi\_addr***—The high address used by MPST SAE.

**Solution:** None required.

**MSAE010 MPSTSAE IN *mode* MODE**

**Explanation:** MPSTSAE is operating in XA, ESA or 370 mode.

**Solution:** None required.

**MSAE013 ABEND IN *task\_id***

**Explanation:** The MPSTSAE task, *task\_id*, has abended. This message displays if the CANCEL DUMP command is used to halt operation. If a printer is currently defined, a dump of the main storage area is printed.

**Solution:** If this message is displayed and a CANCEL DUMP command was not issued, contact CS Software Support. A program error has occurred.

**MSAE017 I/O ERROR --**

**CPU *num* DEVICE *addr* ECB *cc* CC *sio* CSW *stat-byte*  
SEEK ADDR *cccc.hhhh[.rr]*  
[SENSE *data*]**

**Explanation:** An I/O error has occurred.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The device address.
- **ECB *cc***—The ECB completion code.
- **CC *sio***—The SIO condition code.
- **CSW *stat-byte***—The CSW unit and channel status and residual byte count.
- **SEEK ADDR *cccc.hhhh.rr***—The cylinder and head address and the record number (if DASD).
- **SENSE *data***—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE018 I/O ERROR ON NOP -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted a NOP command to a device. The message preceding this one (MSAE017) describes the error.

**Solution:** Reply to the message, enter one of the following:

- **I** to ignore the message and continue.
- **R** to retry the operation.
- **C** to cancel the function attempting to use the device.

**MSAE019 UUT<sub>nm</sub> DD CARD MISSING**

**Explanation:** The program being run attempted to OPEN an undefined DD card UUT<sub>nm</sub>.

**Solution:** Check the current device definition or the OPTION control card.

```

MSAE020 DEVICE addr I/O MEASUREMENT TIMES --
TOTAL OPERATION TIME      = time.x SEC
TOTAL CCW TIME            = time.x SEC
TOTAL QUEUE TIME         = time.x SEC
NUMBER OF I/Os           = number
AVERAGE OPERATION TIME   = time.x MS
LOW OPERATION TIME        = time.x MS
HIGH OPERATION TIME       = time.x MS
AVERAGE QUEUE TIME       = time.x MS
LOW QUEUE TIME            = time.x MS
HIGH QUEUE TIME           = time.x MS
AVERAGE CCW TIME         = time.x MS
LOW CCW TIME              = time.x MS
HIGH CCW TIME             = time.x MS
NUMBER OF SIOs           = total
PERCENT OF SIO/CHAN BUSY = num
PERCENT SIO/CU BUSY      = num
PERCENT SIO/DEV BUSY     = num

```

**Explanation:** If more than 10 I/O operations are performed on a test device, this message is issued (only to the console) when the function ends and the test device is closed.

- Operation time—The time between a request for an I/O operation (EXCP) and when the operation is posted as completed (ECB).
- Queue time—The time an I/O operation remains queued by the I/O supervisor due to a channel, control unit, or device busy condition.
- CCW time—The time between the last SIO, SIOF, or SSCH instruction to when the channel is received for the CCW chain. When MPSTSAE is run on a VM/370 virtual machine, the VM control program (CP) is included in the CCW values.

**Solution:** None required.

**MSAE095 TAPE – BUFFER LOG OVERFLOW ON IPL/LOAD**

**Explanation:** A buffer log overflow occurred on the IPL/load device.

**Solution:** None required.

**MSAE098 I/O ERROR --**

**DEVICE** *addr* **ECB** *cc* **CC** *sio* **CSW** *stat-byte*  
**SEEK ADDR** *cccc.hhhh[.rr]*  
**[SENSE** *data***]**

**Explanation:** An error occurred on the MPSTSAE IPL device.

- **DEVICE** *addr*—The device address.
- **ECB** *cc*—The ECB completion code.
- **CC** *sio*—The SIO condition code.
- **CSW** *stat-byte*—The CSW unit and channel status and residual byte count.
- **SEEK ADDR** *cccc.hhhh.rr*—The cylinder and head address and the record number (if DASD).
- **SENSE** *data*—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE099 module NOT FOUND**

**Explanation:** The program module cannot be found on the IPL device.

**Solution:** Contact CS Software Support.

**MSAE109 UNRESOLVED REFERENCE = REFERENCE 1, REFERENCE 2 ...  
REFERENCE 7**

**Explanation:** During program load MPSTSAE could not resolve references (1–7).

**Solution:** Contact CS Software Support.

**MSAE110 ENVIRONMENTAL SENSE, CPU *num* DEVICE *addr*  
[SENSE *data*]**

**Explanation:** The test device at address *addr* on CPU *num* has reported environmental sense data. This data could be statistical or logging mode data.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The device address.
- **SENSE *data***—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE111 I/O, CPU *num*, DEVICE *addr*, STATUS *uucc*  
[SENSE *data*]**

**Explanation:** An unexpected I/O interrupt was received from the test device at address *addr* on CPU *num*.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The device address.
- **STATUS *uucc***—CSW unit and channel status.
- **SENSE *data***—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE112 2305 BUFFERED LOG DATA, CPU *num*, DEVICE *addr*,  
STATUS *uucc* -,  
*log\_entry*...*log\_entry***

**Explanation:** A buffered log full status was received from the 4305 test device at address *addr* on CPU *num*. Each of the eight 8-byte buffered log entries are printed.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The device address.
- **STATUS *uucc***—CSW unit and channel status.
- ***log\_entry***—The eight 8-byte buffered log entries.

**Solution:** None required.

**MSAE113 MACHINE CHECK, CPU *num*, CODE *bits\_0-64***

**Explanation:** A recoverable machine check interrupt was received from CPU *num* and ignored by MPSTSAE. Bits 0–64 of the machine interrupt code from main storage address hex E8 are printed.

**Solution:** None required.

**MSAE114 EXTERNAL, CPU *num*, CODE *xxxx***

**Explanation:** An external interrupt from CPU *num* was received and ignored by MPSTSAE. *xxxx* is the external interrupt code from main storage address hex 86.

**Solution:** None required.

**MSAE115 INTERVENTION REQUIRED, CPU *num*, DEVICE *addr*  
[SENSE *data*]**

**Explanation:** The test device at address *addr* on CPU *num* is not ready. *data* is the sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE116 SIO, CPU *num*, DEVICE *addr*, CSW STATUS *uucc***

**Explanation:** An unexpected status was received when an ISO was done to the test device at address *addr* on CPU *num*. *uucc* is the unit and channel status bytes of the stored CSW.

**Solution:** None required.

**MSAE117 MISSING I/O, CPU *num*, DEVICE *addr*, STATUS *state***

**Explanation:** The test device at address *addr* on CPU *num* has failed to present device end, control unit end, or channel end status within the MPSTSAE timeout period. For tape devices the timeout period is 2 minutes; for all other devices the timeout period is 1 minute.

*state* is the last status received by MPSTSAE for the test device. *state* could be:

- BUSY—Device busy (CC=1 with BUSY) on the last SIO.
- CCW—An I/O operation was started and channel end and/or device end status was not received.
- CH-B—Channel busy (CC=2) on the last SIO.
- CU-B—Control unit busy (CC=1 with STM and BUSY) on the last SIO.
- IDLE—No I/O operation is in progress or pending.
- NRDY—The device is not ready.

**Solution:** None required.

**MSAE118 I/O INTERRUPT GENERATED BY MIH**

**Explanation:** The MPSTSAE missing interrupt handler has generated a pseudo I/O interrupt for a hung I/O operation. The pseudo I/O interrupt has both the interface control check and the channel control check set in the channel status byte of the channel status word (CSW).

**Solution:** Message MSAE117 describes the hung I/O operation.

**MSAE119 UNKNOWN MESSAGE QUEUED**

**Explanation:** An unknown message has been queued.

**Solution:** Contact CS Software Support.

**MSAE120 ASYNCHRONOUS SENSE DATA FOR DEVICE *addr****day/year hh:mm:ss***VOLSER**=*volser*, **DEVICE**=*code***DEV TYPE**=*type-model*, **CTL TYPE**=*type-model***ERROR**=*ec*, **SEVERITY**=*code sim\_type sim\_repeat***MFGR/PLANT**=*mfg\_id/plant\_id*, **SERIAL**=*plant***SIM ID**=*id*, **REFCODES**=*ref\_codes ... ref\_codes***MSG CODE**=*code*, **MSG MODIFIERS**=*msg\_mod ... msg\_mod***SNS** *sense\_bytes ... sense\_bytes*

**Explanation:** A SIM record was logged from the test device at address *addr*.

- **DEVICE** *addr*—The device address.
- *day/year hh:mm:ss*—The date and time of the SIM.
- **VOLSER**=*volser*
- **DEVICE**=*code*—The device code.
- **DEV TYPE**=*type-model*—The device type and model number.
- **CTL TYPE**=*type-model*—The controller type and model number.
- **ERROR**=*ec*—The error code.
- **SEVERITY**=*code sim\_type sim\_repeat*—The severity code, SIM type, and the SIM repeat.
- **MFGR/PLANT**=*mfg\_id/plant\_id*—The manufacturer's id and the plant id.
- **SERIAL**=*plant*—The serial number for the plant.
- **SIM ID**=*id*—The SIM id.
- **REFCODES**=*ref\_codes ...*—The reference codes.
- **MSG CODE**=*code*—The message code.
- **MSG MODIFIERS**=*msg\_mod ...*—The message modifiers.
- **SNS** *sense\_bytes ...*—The raw sense bytes.

**Solution:** None required.

**MSAE161 SYSIN DEVICE NOT ONLINE**

**Explanation:** The SYSIN device being configured has no physical paths enabled.

**Solution:** Enable a path to the device and reissue the **SYSIN** command.

**MSAE162 SYSIN COMMAND COMPLETED**

*message* [*fn*]

**Explanation:** The SYSIN command just issued has completed.

- If the SYSIN device is successfully accessed, the *message* is the device address and the device type. If this is a tape device, *fn* is the file number.
- If the SYSIN device has been varied offline, the *message* is RDR OFF.

**Solution:** None required.

**MSAE163 SYSIN COMMAND IGNORED, SYSIN IS DEFINED NOW**

**Explanation:** A SYSIN device was already defined. The SYSIN command just issued was ignored

**Solution:** None required.

**MSAE164 SYSIN COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** Because MPST was running when the SYSIN command was issued, the command was ignored.

**Solution:** None required.

**MSAE171 SIOF ENABLED|DISABLED**

**Explanation:** The status of the start I/O fast option is displayed.

**Solution:** None required.

**MSAE172 MIH ENABLED|DISABLED**

**Explanation:** The current state of the missing interrupt handler is displayed in response to an MIH command.

**Solution:** None required.

**MSAE173 BLOCK MULTIPLEXING ENABLED|DISABLED**

**Explanation:** This message is issued in response to a BLKMUX command.

- If block multiplexing is enabled, control register 0 bit 0 is set to 1.
- If block multiplexing is disabled, control register 0 bit 0 is set to 0.

**Solution:** None required.

**MSAE180 TRACE [ON|OFF] *status***

**Explanation:** The TRACE command was issued and TRACE status is displayed.

**Solution:** None required.

**MSAE201 START COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** Because MPST was running when the START command was issued, the command was ignored.

**Solution:** None required.

**MSAE211 SET COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** Because MPST was running when the SET command was issued, the command was ignored.

**Solution:** None required.

**MSAE221 LMU[2] DEVICE NOT ONLINE**

**Explanation:** The LMU(2) is not online.

**Solution:** Correct the problem and reissue the **LMU[2]** command.

**MSAE222 LMU[2] COMMAND COMPLETED --**

*message*

**Explanation:** The **LMU[2]** command just issued has completed.

- If the LMU(2) device is successfully accessed, the *message* is the device address and the device type.
- If the LMU(2) device has been varied offline, the *message* is **LMU[2] OFF**.

**Solution:** None required.

**MSAE223 LMU[2] COMMAND IGNORED, LMU[2] IS DEFINED**

**Explanation:** An LMU(2) device was already defined. The **LMU[2]** command just issued was ignored

**Solution:** Enter an **LMU[2] OFF** command and then an **LMU[2] addr** command to change the LMU(2) devices.

**MSAE224 LMU[2] COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** Because MPST was running when the **LMU[2]** command was issued, the command was ignored.

**Solution:** None required.

**MSAE225 LOADBUF COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** Because MPST was running when the **LOADBUF** command was issued, the command was ignored.

**Solution:** None required.

**MSAE226 LOADBUF COMMAND IGNORED, NO PRINTER CONFIGURED**

**Explanation:** A LOADBUF command was issued but no printer is configured.

**Solution:** Enter the VARY command to assign a printer; then, reissue the LOADBUF command.

**MSAE227 LOADBUF COMMAND IGNORED, LOADBUF IS PENDING**

**Explanation:** A LOADBUF command was previously issued but has not yet continued processing. The second LOADBUF command is ignored

**Solution:** None required.

**MSAE228 LOADBUF COMMAND IGNORED, PRINTER TYPE INVALID**

**Explanation:** A LOADBUF command was issued, but the print device assigned (using the VARY command) is not valid. To use LOADBUF the printer type must be a 1403, 3203, or a 3211.

**Solution:** Enter the VARY command to assign a printer; then, reissue the LOADBUF command.

**MSAE231 STOP COMMAND IGNORED, MPST IS NOT RUNNING**

**Explanation:** A stop command was issued while MPST was not running and the command was ignored.

**Solution:** None required.

**MSAE232 STOP IS PENDING**

**Explanation:** A stop command was issued and MPST terminates as soon as the command is detected. The exact time that MPST terminates depends upon the function currently executing.

**Solution:** None required.

**MSAE233 STOP COMMAND IGNORED, STOP IS PENDING**

**Explanation:** A second stop command was issued while MPST was running and the command was ignored.

**Solution:** None required.

**MSAE234 MODIFY COMMAND IGNORED, MAIN IS NOT RUNNING**

**Explanation:** A modify command was entered and the main program was not running.

**Solution:** None required.

**MSAE235 MODIFY SET PENDING**

**Explanation:** A modify command is pending and awaits processing by the main program.

**Solution:** None required.

**MSAE236 MODIFY COMMAND IGNORED, MODIFY IS PENDING**

**Explanation:** A modify command was entered and the previous command is still pending.

**Solution:** Re-enter the modify command.

**MSAE237 MODIFY COMMAND IGNORED, STOP IS PENDING**

**Explanation:** A modify command was entered and the main program is stopping.

**Solution:** None required.

**MSAE241 CANCEL COMMAND IGNORED, MPST IS NOT RUNNING**

**Explanation:** A CANCEL command was issued while MPST was not running and the command was ignored.

**Solution:** None required.

**MSAE242 MPST CANCELLED ON *year.day* AT *hh:mm:ss***

**Explanation:** MPST was cancelled by either a CANCEL command or by an MPSTSAE abend processing

**Solution:** None required.

**MSAE245 SID *sub\_chan* = BDN *number*  
CHPID(S) = *id ... id***

**Explanation:** This message is issued in response to a DISPLAY SID command.

- **BDN *number***—The binary device number assigned to the subchannel.
- **SID *sub\_chan***—The subchannel id (SID).
- **CHPID(S) = *id ... id***—The channel path identifiers defined for this subchannel.

**Solution:** None required.

**MSAE246 SCH *id* CC *code***

**Explanation:** This message is issued in response to a DISPLAY SCH command. *id* is the subchannel identification and *code* is the condition code for the store subchannel (STSCH) instruction. If the code is 0, the subchannel information block is displayed following this message.

**Solution:** None required.

**MSAE247 BDN *number* = SID *sub\_chan***

**Explanation:** This message is issued in response to a DISPLAY BDN command.

- **BDN *number***—The binary device number assigned to the subchannel.
- **SID *sub\_chan***—The subchannel id (SID).

**Solution:** None required.

**MSAE251 VARY COMMAND IGNORED, MPST IS RUNNING**

**Explanation:** A VARY printer ON|OFF command was issued while MPST was running and the command was ignored. MPST cannot be running when the VARY command is issued.

**Solution:** Stop MPST operation and reissue the VARY command.

**MSAE252 VARY COMMAND IGNORED, PRINTER IS DEFINED NOW**

**Explanation:** A VARY printer ON command was entered but the printer was already defined.

**Solution:** None required.

**MSAE253 I/O ERROR ON PRINTER DEVICE --**

**DEVICE** *addr* **ECB** *cc* **CC** *sio* **CSW** *stat-byte*  
[**SENSE** *data*]

**Explanation:** An I/O error has occurred during printer definition.

- **DEVICE** *addr*—The device address.
- **ECB** *cc*—The ECB completion code.
- **CC** *sio*—The SIO condition code.
- **CSW** *stat-byte*—The CSW unit and channel status and residual byte count.
- **SENSE** *data*—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE254 PRINTER NOT DEFINED**

**Explanation:** While attempting to verify that the printer device was operational, an I/O error occurred. The VARY printer ON command fails.

**Solution:** None required.

**MSAE255 PRINTER DEVICE NOT ONLINE**

**Explanation:** The printer device is offline (SIO condition code=3).

**Solution:** Correct the problem and reissue the VARY command.

**MSAE256 VARY COMMAND COMPLETED** -- *message*,  
PP ON|OFF, NP ON|OFF CP ON|OFF  
[LOADBUF OR VARY PRINTER OFF COMMAND PENDING]

**Explanation:** The last VARY command was successfully processed.

- If the print device is successfully accessed, the *message* is the device address and the device type.
- If the print device was varied offline, the *message* is PRT OFF.

**Solution:** None required.

**MSAE257 LOG COMMAND IGNORED – NO PRINTER CONFIGURED**

**Explanation:** A LOG command was issued but no printer is configured.

**Solution:** Use the **VARY** command to assign a printer; then, reissue the **LOG** command.

**MSAE258 ENTRY LOGGED**

**Explanation:** The entry, specified in the LOG command, has been logged on the printer.

**Solution:** None required.

**MSAE259 CCW TRACE ON|OFF [DEVICE = *num*.]**

**Explanation:** This message is issued in response to a CCWTRACE command.

**Solution:** None required.

**MSAE260 CCWTRACE COMMAND IGNORED, NO PRINTER CONFIGURED**

**Explanation:** A CCWTRACE command was issued but no printer is configured.

**Solution:** Use the **VARY** command to assign a printer; then, reissue the **CCWTRACE** command.

**MSAE261 DATE *year.day* TIME *hh.mm.ss***

**Explanation:** This message is issued in response to a DISPLAY T command. The current Julian date and the time is displayed.

**Solution:** None required.

**MSAE262 MPST IS NOT RUNNING, DATE *year.day* TIME *hh.mm.ss***

**Explanation:** This message is issued in response to a DISPLAY A command when MPST is not running. The current Julian date and the time is displayed.

**Solution:** None required.

**MSAE263 MPST IS RUNNING, DATE *year.day* TIME *hh.mm.ss* --  
ACTIVE TESTING DEVICE(S) --  
ADDR VOLSER I/O SIO SIO/CHB SIO/CUB SIO/BSY STATUS  
*addr volser num num num\_bsy cu\_bsy dev\_bsy state*  
...  
*addr volser num num num\_bsy cu\_bsy dev\_bsy state***

**Explanation:** This message is issued either in response to a DISPLAY A command or as a result of a DISPLAY M command. MPST is currently running and the current state of any test devices opened by MPST is shown.

- **ADDR *addr***—The device address.
- **VOLSER *volser***—The volume serial number.
- **I/O *num***—The number of I/O operations completed on the device.

- **SIO num**—The number of SIO, SIOF, or SSCH instructions done to the device.
- **SIO/CHB num\_bsy**—The number of SIO or SIOF instructions that received channel busy.
- **SIO/CUB cu\_bsy**—The number of SIO or SIOF instructions that received control unit busy.
- **SIO/BSY dev\_bsy**—The number of SIO or SIOF instructions that received device busy.
- **STATUS state**—*state* is the last status received by MPSTSAE for the test device. *state* could be:
  - BUSY—Device busy (CC=1 with BUSY) on the last SIO.
  - CCW—An I/O operation was started and channel end and/or device end status was not received.
  - CH-B—Channel busy (CC=2) on the last SIO.
  - CU-B—Control unit busy (CC=1 with STM and BUSY) on the last SIO.
  - IDLE—No I/O operation is in progress or pending.
  - NRDY—The device is not ready.

**Solution:** None required.

#### MSAE264 REPLY IDS/MESSAGES OUTSTANDING --

**Explanation:** This message is issued in response to a DISPLAY R command. If any reply messages are outstanding, the reply ID number and the text of the message are displayed.

**Solution:** None required.

**MSAE265 REW DEVICE** *reason*

**Explanation:** A REWIND command was issued and the device was not available. The *reason* the device was not available:

- IN USE
- NOT A TAPE DEVICE
- NOT DEFINED
- NOT ONLINE

**Solution:** None required.

**MSAE266 WTM DEVICE** *reason*

**Explanation:** A WTM (write tape mark) command was issued and the device was not available. The *reason* the device was not available:

- IN USE
- NOT A TAPE DEVICE
- NOT DEFINED
- NOT ONLINE

**Solution:** None required.

**MSAE267 DISPLAY MONITOR STARTED**

**Explanation:** Display monitor has started.

**Solution:** None required.

**MSAE268 DISPLAY MONITOR ENDED**

**Explanation:** Display monitor has stopped.

**Solution:** None required.

**MSAE269 CCWTRACE COMMAND IGNORED, NOT A TEST DEVICE**

**Explanation:** A CCWTRACE command, specifying an MPSTSAE device, was issued. CCWTRACE does not trace MPSTSAE devices and the command is ignored.

**Solution:** None required.

**MSAE270 WARNING -- CCWTRACE DEVICE NOT CURRENTLY DEFINED**

**Explanation:** The CCWTRACE command was issued to an undefined device. CCWTRACE will begin tracing all I/O to this device once it has been defined.

**Solution:** None required.

**MSAE271 MAP DATA --**

**Explanation:** This message is issued in response to an MPSTSAE MAP command.

**Solution:** None required.

**MSAE272 ZAP DATA -- VER|REP *csect\_name* AT *offset*  
*data ... data***

**Explanation:** This message is issued in response to a DISPLAY Z command.

- *csect\_name*—The CSECT name.
- *offset*—The offset into the CSECT.
- *data*—The verify or replace data.

**Solution:** None required.

**MSAE274** *+addr hex\_data ... hex\_data \*data*

**Explanation:** The message issued as part of the “MAP DATA” storage display. *addr* is the address of the main storage data, *hex\_data* is the data in hex, and *data* is the data in a printable format.

**Solution:** None required.

**MSAE275 NO DEVICE DEFINITIONS**

**Explanation:** This message is issued in response to a DISPLAY U command when no devices are defined.

**Solution:** None required.

**MSAE276 DEVICE DEFINITIONS**

```
DDNAME P.AAAA DEVTYPE DDTYPE VOLSER DATA-SET-NAME
UUTnm p.addr devtype card volser data_set_name
...
D/S-START D/S-END D/S-SIZE
first_trk last_trk num_trks
```

**Explanation:** This message is issued in response to a DISPLAY U command. The current test device definitions are listed.

- *UUTnm*—The DD name for this device definition.
- *p.addr*—The processor and device address.
- *devtype*—The device type.
- *card*—The DD card type.
- *volser*—The volume serial number of the DASD or tape volume mounted on the device.
- *data\_set\_name*—The 1–44 character data set name or \*NONE\*.
- *first\_trk*—The first track of the test data set, if DASD, specified as cccc.hhhh (c=cylinder, h=head).
- *last\_trk*—The last track of the test data set, if DASD, specified as cccc.hhhh (c=cylinder, h=head).
- *num\_trks*—The number of tracks in the test data set.

**Solution:** None required.

**MSAE281 *cmd* COMMAND INVALID, ENTER HELP FOR HELP**

**Explanation:** An invalid command (*cmd*) was entered and the command was ignored.

**Solution:** None required.

**MSAE282 HELP COMMAND SELECTIONS --**

**Explanation:** This message is issued when a HELP command was entered without a selection parameter. The menu for HELP follows the first line of this message. This message is followed by message MSAE283.

**Solution:** None required.

**MSAE283 ENTER HELP SELECTION (1 TO 9) or END**

**Explanation:** This message is issued when a HELP command was entered without a selection parameter. This message is preceded by message MSAE282.

**Solution:** Refer to message MSAE282 and enter the desired help selection or **END** to terminate the HELP command.

**MSAE284 HELP SELECTION *num***

**Explanation:** The help selection, chosen when responding to message MSAE283, follows this message.

**Solution:** None required.

**MSAE289 HELP COMMAND IGNORED – HELP COMMAND IN PROGRESS NOW  
ENTER DISPLAY R COMMAND**

**Explanation:** A previous HELP command is still being processed. The HELP command just issued was ignored.

**Solution:** Enter the **DISPLAY R** command to display the outstanding Help selection reply messages.

**MSAE291 *parm* PARAMETER INVALID, ENTER HELP FOR HELP**

**Explanation:** An invalid parameter (*parm*) was entered or a required parameter was omitted and the entire command was ignored.

**Solution:** Enter **HELP** and correct the problem.

**MSAE292 READY COMMAND IGNORED – DEVICE *addr* NOT CONFIGURED**

**Explanation:** A READY command was issued but device *addr* has not been configured and the command is ignored.

**Solution:** None required.

**MSAE293 INTERVENTION NOT REQUIRED ON DEVICE *addr***

**Explanation:** A READY command was issued but no intervention required condition exists for device *addr* and the command is ignored.

**Solution:** None required.

**MSAE294 DEVICE END POSTED FOR DEVICE *addr***

**Explanation:** In response to a READY command device end was posted for device *addr*.

**Solution:** None required.

**MSAE295 *num* PROCESSOR(S) CONFIGURED  
ONE SECOND BCT COUNT *hex\_count*  
CPU ADDRESS *adr*, ID *cpu\_id*  
FLAGS *flag*, PREFIX *address***

**Explanation:** This message is issued in response to a DISPLAY A command. An entry for each configured CPU is shown.

- *num*—The number of the CPUs.
- *hex\_count*—The one second BCT count in hex.
- *adr*—The CPU address in hex.
- *cpu\_id*—The CPU id data.
- *flag*—The internal MPSTSAE flags.
- *address*—The address of the prefix storage area (PSA) for the CPU.

**Solution:** None required.

**MSAE296 'addr' DUPLICATE ADDRESS, REENTER COMMAND**

**Explanation:** A command to assign a device (VARY, LMU, etc.) was entered and that device address is already in use.

**Solution:** If possible, assign a different address to the device.

**MSAE297 MAIN STORAGE SIZE** *real\_memK*  
**DYNAMIC AREA SIZE** *mpst\_areaK*  
**D/A START** *area1* **D/A END** *area2*  
**TASK** *n* **SIZE** *task\_area*

**Explanation:** This message is issued in response to a DISPLAY S command.

- *real\_memK*—The size of the CPU real memory.
- *mpst\_areaK*—The area MPST uses.
- *area1* and *area2*—The boundaries of the data area (D/A) MPST uses.
- *n*—The fixed task.
- *task\_area*—The size of each fixed task area.

**Solution:** None required.

**MSAE299 CP RETURN CODE** *rc*

**Explanation:** This message displays the return code from the CP command entered while running VM/370.

**Solution:** None required.

**MSAE302 NO DEVICE DEFINITIONS**

**Explanation:** If no devices were defined, this message is issued during the device definition phase of START command processing

**Solution:** None required.

**MSAE303 DEVICE DEFINITIONS**

```

DDNAME P.AAAA DEVTYPE DDTYPE VOLSER DATA-SET-NAME
UUTnm p.addr devtype t volser data_set_name
...
D/S-START D/S-END D/S-SIZE
first_trk last_trk num_trks

```

**Explanation:** This message is issued during the device definition phase of the START command. The current test device definitions are listed.

- *UUTnm*—The DD name for this device.
- *p.addr*—The processor and device address.
- *devtype*—The IBM device type.
- *t*—The DD card type (0–6).
- *volser*—The volume serial number of the DASD or tape volume mounted on the device.
- *data\_set\_name*—The 1–44 character data set name or \*NONE\*.
- *first\_trk*—The first track of the test data set, if DASD, specified as cccc.hhhh (c=cylinder, h=head).
- *last\_trk*—The last track of the test data set, if DASD, specified as cccc.hhhh (c=cylinder, h=head).
- *num\_trks*—The number of tracks in the test data set.

**Solution:** None required.

**MSAE304 CHANGE DEVICE DEFINITIONS -- E or P or Y or N**

**Explanation:** This message follows either message MSAE302 or MSAE303.

**Solution:** Reply to the message, enter one of the following:

- **E** to edit (delete or add) existing test device definitions.
- **P** to prompt the operator for each new entry.
- **Y** to delete all current device definitions and enter new definitions.
- **N** to use the current device definitions.

**MSAE305 DEVICE DEFINITION FORMAT --  
DDNAME P.AAAA DEVICE-TYPE DD-TYPE**

**Explanation:** This message displays the format in which a test device definition is entered.

- DDNAME—the DD name for this device (UUT01 – UUT08).
- P.AAAA—the channel path id (P.) and the device address (AAAA). The CHPID is optional.
- DEVICE-TYPE—the IBM device type.
- DD TYPE—the device definition type (0–6).

**Solution:** None required.

**MSAE306 ENTER DEVICE DEFINITION *num* or END**

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- Test device definition *num*.
- **END** to terminate the device definition entry.

**MSAE307 DEVICE DEFINITION NOT ACCEPTED, ENTER HELP FOR HELP**

**Explanation:** The last test device definition was rejected.

**Solution:** The message preceding this one explains the reason for the rejection.

**MSAE308 DD *num* ACCEPTED**

**Explanation:** Test device definition *num* was accepted by MPSTSAE.

**Solution:** None required.

**MSAE310 INVALID DDNAME**

**Explanation:** The last test device definition contained an invalid DD name.

**Solution:** Correct the DD name.

**MSAE311 INVALID I/O ADDRESS**

**Explanation:** The last test device definition contained an invalid device address.

**Solution:** The device addresss must be 3 or 4 hexadecimal characters and the process address must be 0–3.

**MSAE312 INVALID DEVICE TYPE**

**Explanation:** The last test device definition contained an invalid device type.

**Solution:** The device type must be a valid IBM device type: 2305–2, 3330–1, 3330–11, 3350, 3380, 3420, TAPE, 3480, 3490, 3590, 4420, 1403, 3211, 3203, 3800, 4245, 4245, 4248, or UNKN.

**MSAE313 INVALID DD TYPE**

**Explanation:** The last device definition contained an invalid DD type.

**Solution:** The DD type must be a single digit from 0–6.

**MSAE314 DUPLICATE DDNAME**

**Explanation:** The last test device definition contained a duplicate DD name from a previously defined DD card or device. The DD name cannot be SYSPRINT, SYSIN, SYSRMT, SYSCCLIB, or SYSCCDEF.

**Solution:** None required.

**MSAE315 DUPLICATE DEVICE ADDRESS**

**Explanation:** A duplicate device address was specified during the device definition phase. The device address cannot be the address of MPSTSAE, IPC, console, SYSIN, or print device.

**Solution:** None required.

**MSAE321 CPU *num* DEVICE *addr* CC *sio* STATUS *uucc* [SENSE *data*]**

**Explanation:** A SENSE command was issued for the test device during device definition. This information is displayed for each configured processor of a multi-processor system.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The device address.

- **CC** *sio*—The SIO condition code.
- **STATUS** *uucc*—CSW unit and channel status.
- **SENSE** *data*—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

#### MSAE322 ENTER CPU ADDRESS -- 0, 1, 2, 3, or R or C

**Explanation:** MPSTSAE is running on a multi-processor system and the CPU address hasn't been specified for the test device definition.

**Solution:** Respond to the message:

- **0, 1, 2, or 3** to specify the CPU address.
- **R** to request the **SENSE** command (message MSAE321).
- **C** to cancel the device definition.

#### MSAE323 BDN *number* = SID *sub\_chan*

**Explanation:** This message is issued during device configuration when MPSTSAE is operating in XA mode. The binary device number is assigned to SID.

- **BDN** *number*—The binary device number assigned to the subchannel.
- **SID** *sub\_chan*—The subchannel id (SID).

**Solution:** None required.

**MSAE324 CHPID *id* DEVICE *addr* CC *sio* STATUS *uucc* [SENSE *data*]**

**Explanation:** A SENSE command was issued to device *addr* during device configuration. This information is displayed for each configured CHPID for the device when MPSTSAE is operating in XA mode.

- **CHPID(S) *id***—The channel path identifier.
- **DEVICE *addr***—The device address.
- **CC *sio***—The SIO condition code.
- **STATUS *uucc***—CSW unit and channel status.
- **SENSE *data***—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE325 ENTER CHPID or ALL or R or C**

**Explanation:** MPSTSAE is operating in XA mode and the CHPID was not specified for a test device definition.

**Solution:** Respond to the message, enter one of the following:

- The channel path identifier to be used (it must be one of the id's displayed in message MSAE324).
- **ALL** to specify all defined channel path identifiers for use.
- **R** to request the SENSE command (message MSAE321).
- **C** to cancel the device definition.

**MSAE331 DD EDIT -- ENTER ADD, DELETE, DEFAULT or END**  
[ENTER DDNAME',]  
[ENTER DEVICE ADDRESS',]  
[ENTER DEVICE TYPE',]  
[ENTER DD CARD TYPE'.]

**Explanation:** The device definition editor is active.

- If you responded E (edit) to message MSAE304, the message is “DD EDIT -- ENTER ...”
- If you responded P (prompt) to message MSAE304, the bracketed messages are displayed.

**Solution:** Respond to the message.

- For the message “DD EDIT -- ENTER ...” respond
  - **ADD** to add an additional test device definition to the existing set of device definitions.
  - **DEL** to delete a current test device definition.
  - **DEF** to have the default test devices listed.
  - **END** to terminate the device definition editor.
- For the bracketed messages respond to the individual prompts.

#### **MSAE332 DD SET FULL**

**Explanation:** The maximum number of device definitions (8) are already defined. No additional test device definitions are allowed.

**Solution:** Delete one or more existing device definitions before adding additional test device definitions.

#### **MSAE333 ENTER DEVICE DEFINITION**

**Explanation:** This message requires a response.

**Solution:** Enter device definitions.

**MSAE334 DEVICE DEFINITION ACCEPTED**

**Explanation:** The test device definition added using the device definition editor was accepted.

**Solution:** None required.

**MSAE335 DEVICE DEFINITION NOT ADDED, ENTER HELP FOR HELP**

**Explanation:** The test device definition being added by the device definition editor was rejected.

**Solution:** The message preceding this one explains the reason for the rejection.

**MSAE336 ENTER DDNAME or DEVICE ADDRESS TO DELETE**

**Explanation:** This message requires a response.

**Solution:** Enter the DD name or the device address of the test device to be deleted.

**MSAE337 DDNAME OR DEVICE ADDRESS NOT FOUND**

**Explanation:** Either the DD name or the device address entered in response to message MSAE336 is not currently defined. No test device was deleted.

**Solution:** None required.

**MSAE338 DEFINITION FOR DEVICE UUT<sub>nm</sub> addr DELETED**

**Explanation:** The test device definition (UUT<sub>nm</sub>, *addr*) was deleted from the currently defined test devices.

**Solution:** None required.

**MSAE339 ENTER DEFAULT SET NUMBER, LIST, LIST= or END**

**Explanation:** The response to message MSAE331 was DEF.

**Solution:** Respond to the message:

- To select a default DD set, enter the DD set number (00 through 10).
- To display all of the default DD sets, enter **LIST**.
- To display the details for a DD set, enter **LIST=num**. *num* is the number of the DD set.
- To terminate default DD set selection, enter **END**.

**MSAE340 REQUESTED DD SET NOT FOUND OR EMPTY**

**Explanation:** The response to message MSAE339 requested DD set *num*. The DD set was either not found or was empty.

**Solution:** Select a different DD set.

**MSAE341 AVAILABLE DD SETS**

*num*

...

*num*

**Explanation:** The response to message MSAE339 was LIST. The available DD set numbers are displayed.

**Solution:** None required.

**MSAE342 DD SET DATA**

**Explanation:** The response to message MSAE339 was LIST=*num*. The details for DD set *num* are displayed.

**Solution:** None required.

**MSAE381 START TEST DEVICE DEFINITION**

**Explanation:** Processing has started on the device definition phase of the MPSTSAE START command

**Solution:** None required.

**MSAE382 END TEST DEVICE DEFINITION**

**Explanation:** Processing has ended on the device definition phase of the MPSTSAE START command

**Solution:** None required.

**MSAE391 MPST STARTED ON *year.day* AT *hh.mm.ss***

**Explanation:** MPST execution began on *year.day* at *hh.mm.ss*.

**Solution:** None required.

**MSAE392 MPST ENDED ON *year.day* AT *hh.mm.ss* RETURN CODE *rc***

**Explanation:** MPST completed execution on *year.day* at *hh.mm.ss* with a return code of *rc*.

**Solution:** None required.

**MSAE393 *application* REQUIRES *xM* BYTES OF MEMORY**

**Explanation:** The *application* requires *xM* (million) bytes of memory to run.

**Solution:** Increase the size of the virtual machine to *xM* bytes.

**MSAE400 GETMAIN FOR SPACE MAPS FAILED**

**Explanation:** Insufficient main storage was available for the tables associated with the processing of type 2 DD cards.

**Solution:** If you are running MPSTSAE under VM/370, increase the storage size of your virtual machine.

**MSAE401 INVALID DSCB AT *cccc.hhhh.rr***

**Explanation:** An invalid extent description was found in the DSCB at *cccc.hhhh.rr* while processing a type 2 DD card. MPSTSAE treats this pack as if no free space was available.

- *cccc*—The four digit cylinder address.
- *hhhh*—The four digit head address.
- *rr*—The two digit record address.

**Solution:** None required.

**MSAE402 I/O ERROR READING LABEL -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to read the volume label of a CKD DASD test device. The volume label is cylinder 0/head 0/record 3. The message preceding this one (MSAE493) describes the error.

**Solution:** Refer to message MSAE493. Enter **I** to ignore the message and continue, **R** to retry the operation, or **C** to cancel the function attempting to use the device.

**MSAE403 VOLUME LABEL NOT FOUND ON CYL 0 HEAD 0 REC 3**

**Explanation:** The volume mounted on the CKD DASD device being configured does not contain a volume label record on cylinder 0/head 0/record 3. The label record must have a 4-byte key field containing 'VOL1' and an 80-byte data field starting with 'VOL1'.

**Solution:** None required.

**MSAE404 VTOC FORMAT 4 DSCB NOT FOUND OR INVALID**

**Explanation:** The volume mounted on the CKD DASD device being configured does not contain a valid VTOC format 4 DSCB on the first record of the VTOC.

**Solution:** None required.

**MSAE405 INVALID CYLINDER OR HEAD LIMITS**

**Explanation:** MPSTSAE has determined that the test data set extent limits are invalid.

**Solution:** Redefine the starting track and the size of the test data set to be within valid cylinder and head limits for the test device.

**MSAE406 ERROR READING VTOC**

**Explanation:** An I/O error occurred reading the VTOC. Allocation of the test device fails.

**Solution:** None required.

**MSAE407 OLD DATASET HAS ZERO TRACKS ALLOCATED**

**Explanation:** Zero tracks are allocated for DD types 3, 4, or 6. DD types 3 or 4 must have one or more tracks allocated for MPSTSAE.

**Solution:** None required.

**MSAE408 OLD DATASET NOT FOUND OR FORMAT 1 DSCB INVALID**

**Explanation:** Either the type 3, 4, or 6 data set does not exist or the format 1 data set control block (DSCB) for the data set is invalid.

**Solution:** None required.

**MSAE409 DD TYPE 3, 4, OR 6 REQUIRES LABEL AND VTOC**

**Explanation:** The volume mounted on the test device must have a valid VTOC to locate a DD type 3, 4, or 6 data set.

**Solution:** None required.

**MSAE410 NO FREE SPACE AVAILABLE**

**Explanation:** The CKD DASD volume being configured does not have any unallocated tracks. If the volume has a valid label and VTOC, only DD types 0, 1, 3, 4, and 6 are allowed. If the volume does not contain a valid label or VTOC, DD types 0, 1, 2, 3, 4, and 6 are allowed.

**Solution:** None required.

**MSAE411 ENTER TYPE OF SPACE ALLOC -- CYL or TRK or ABSTR or LIST or CANCEL**

**Explanation:** If DD type 2 is used, the reply to this message determines the type and amount of space allocated by MPSTSAE to the test data set.

**Solution:** Reply to the message, enter one of the following:

- **CYL** to allocate one or more full cylinders of space.
- **TRK** to allocate one or more tracks of space.
- **ABSTR** to allocate one or more specific tracks.
- **LIST** to have MPSTSAE display a list of the free space available.
- **CANCEL** to cancel the device definition in progress.

**MSAE412 ENTER NUMBER OF CYLINDERS or ALL**

**Explanation:** This message is issued in response to a CYL reply to message MSAE411.

**Solution:** Enter either the number of cylinders to allocate (**1** to **99999**) or **ALL**. If there is no VTOC and the reply is **ALL**, the entire volume is allocated.

**MSAE413 ENTER NUMBER OF TRACKS**

**Explanation:** This message is issued in response to a TRK or ABSTR reply to message MSAE411.

**Solution:** Enter the number of tracks to allocate (**1** to **99999**).

**MSAE414 ENTER 'CCC.HH' OF THE FIRST TRACK**

**Explanation:** This message follows message MSAE413 if the reply to message MSAE411 was ABSTR.

**Solution:** Enter the starting cylinder and head number for the space requested.

**MSAE415 REQUESTED SPACE NOT AVAILABLE**

**Explanation:** The requested DASD space is not available.

- If the volume mounted on the test device has a valid VTOC, message MSAE411 is repeated.
- If the volume mounted on the test device does not have a valid VTOC, message MSAE416 is issued.

**Solution:** None required.

**MSAE416 FORCE ALLOCATION OF SPACE -- Y or N**

```
*****
* CAUTION: THE Y REPLY TO THIS MESSAGE ALLOWS
* A TEST DATA SET TO BE ALLOCATED ANYWHERE ON
* THE VOLUME. THIS MAY DESTROY CUSTOMER DATA.
*****
```

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- Enter **Y** to force the allocation of the space requested.
- Enter **N** to cancel the test device definition in progress.

**MSAE417 ENTER 'CCC.HH' OF FIRST TRACK**

**Explanation:** This message follows message MSAE416 if the reply to message MSAE411 was TRK and the reply to message MSAE416 was Y.

**Solution:** Enter the starting cylinder and head number in hex for the space requested.

**MSAE418 ENTER 'CCC' OF FIRST CYLINDER**

**Explanation:** This message follows message MSAE416 if the reply to message MSAE411 was CYL and the reply to message MSAE416 was Y.

**Solution:** Enter the starting cylinder number in hex for the space requested.

**MSAE420 LIST MORE FREE SPACE ENTRIES -- Y or N**

**Explanation:** This message is issued in response to a LIST reply to message MSAE411.

**Solution:** Reply to the message, enter one of the following:

- Enter **Y** to list the next 14 extents of free space.
- Enter **N** to reissue message MSAE411.

**MSAE421 I/O ERROR READING TAPE VOLUME LABEL -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to read the volume label of a tape test device. The volume label, for either IBM or ASCII, is the first record on a standard labeled (SL) tape. The message preceding this one (MSAE493) describes the error.

**Solution:** Refer to message MSAE493 and reply to MSAE493:

- Enter **I** to ignore the error and continue.
- Enter **R** to retry the I/O operation.
- Enter **C** to cancel the test device definition in progress.

**MSAE422 WARNING -- CUSTOMER DATA MAY BE DESTROYED**

**Explanation:** Customer data on the test device may be destroyed. This message precedes message MSAE423.

**Solution:** Refer to message MSAE423.

**MSAE423 REPLY 'OKTOWRITE' TO CONTINUE**

**Explanation:** This message follows message MSAE422 and requires a response.

**Solution:** Refer to message MSAE422 and reply to MSAE423:

- To write on the test device, enter “oktowitz”.
- Any reply other than “oktowitz” cancels the test device definition in progress.

**MSAE424 DD TYPE 2 NOT ALLOWED -- ERRORS IN VTOC**

**Explanation:** The VTOC of the CKD DASD volume being configured contains errors. DD type 2 is not allowed if the VTOC cannot be read without errors.

**Solution:** None required.

**MSAE425 DD TYPE 2 NOT ALLOWED -- NO FREE SPACE**

**Explanation:** The VTOC of the CKD DASD volume being configured has indicated that there are no unallocated tracks. A type 2 DD card is not allowed unless there is at least one unallocated track.

**Solution:** None required.

**MSAE426 SEARCHING VTOC FOR FREE SPACE ...**

**Explanation:** The VTOC of the CKD DASD volume being configured is being scanned to determine the location and quantity of free space (unallocated tracks) on the volume. The amount of time the scanning takes is determined by the size of the VTOC.

**Solution:** None required.

**MSAE439 INVALID DATASET NAME -- DSN MUST BEGIN MPST.msg.msg**

**Explanation:** The reply to message MSAE441 was incorrect. Message MSAE441 is repeated

**Solution:** Respond to message MSAE441.

**MSAE440 READ DEVICE CHARACTERISTICS FAILED|= message**

**Explanation:** During configuration a READ DEVICE CHARACTERISTIC command is issued to the device being configured. Either the command failed or the characteristics are listed.

**Solution:** If the command failed, check the device.

**MSAE441 ENTER DATASET NAME MPST.WRITE.READ ...  
OR NULL FOR DEFAULT**

*or*

**ENTER DATASET NAME MPST.DEFECT.TRACK ...  
OR NULL FOR DEFAULT**

**Explanation:** MPSTSAE requires the data set name, of a previously allocated data set, to test.

**Solution:** Reply to the message, enter one of the following:

- For DD type 3, enter the data set name (which must begin with MPST.WRITE.READ) or **NULL** to accept the default.
- For a DD type 4, enter the data set name (which must begin with MPST.DEFECT.TRACK) or **NULL** to accept the default.

**MSAE442 I/O ERROR READING LABEL -- I or R or C**

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- **I** to ignore the error and continue.
- **R** to retry reading the label.
- **C** to cancel the operation in progress.

**MSAE443 CONFIRM VOLUME HAS NO LABEL -- Y or N**

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- **Y** if the volume does *not* have a label.
- **N** if the volume does have a label.

**MSAE444 CONFIRM VOLUME HAS NO VTOC -- Y or N**

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- **Y** if the volume does *not* have a VTOC.
- **N** if the volume does have a VTOC.

**MSAE445 INVALID BLOCK LIMITS**

**Explanation:** Start and end block numbers are invalid.

**Solution:** Re-enter start and end numbers.

**MSAE446 INVALID FORMAT 5 DSCB, NO FREE SPACE AVAILABLE**

**Explanation:** The VTOC has an invalid format 5 DSCB (data set control block) and no free space can be found.

**Solution:** Use a different DASD device.

**MSAE447 OLD DATASET HAS ZERO TRACKS ALLOCATED**

**Explanation:** A DSN (data set name) was entered and no tracks are allocated.

**Solution:** Use a different DSN.

**MSAE448 DATASET NOT FOUND OR FORMAT 1 DSCB INVALID**

**Explanation:** A DSN (data set name) was entered and it was either not found or bad.

**Solution:** Use a different DSN.

**MSAE449 DD TYPE 3 OR 4 REQUIRES LABEL AND VTOC**

**Explanation:** A DD type of 3 or 4 was entered and the DASD device does not have a label or a VTOC.

**Solution:** Use a different DASD device.

**MSAE450 FIRST-BLK LAST-BLK NUM-BLK**

**Explanation:** The free space on a pack is listed for first, last, and number of entries.

**Solution:** None required.

**MSAE451 ENTER DATASET NAME**

**Explanation:** DD type 6 has been allocated. Only read access is allowed.

**Solution:** Enter the full data set name of any previously allocated data set.

**MSAE452 ENTER NUMBER OF BLOCKS or 'ALL' or 'LIST'**

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- The number of blocks.
- **ALL** to specify all available blocks.
- **LIST** to display message MSAE450.

**MSAE454 I/O ERROR READING DSCB -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to read a data set control block (DSCB) on the volume mounted on an FBA DASD test device.

**Solution:** Reply to the message, enter one of the following:

- **I** to ignore the error and continue.
- **R** to retry the I/O operation.
- **C** to cancel the test device definition in progress.

**MSAE455 REQUESTED SPACE NOT AVAILABLE**

**Explanation:** The space requested is not available. If there is any space available, message MSAE452 will be displayed.

**Solution:** None required.

**MSAE456 FORCE ALLOCATION OF SPACE -- Y or N**

**Explanation:** The space requested is not available and there is no free space.

**Solution:** Reply to the message, enter one of the following:

- **Y** to force space allocation.
- **N** to *not* force space allocation. If you enter N, the device will not be allocated; choose a different device.

**MSAE457 ENTER FIRST BLOCK NUMBER**

**Explanation:** An FBA device is being allocated.

**Solution:** Enter the first block number to allocate.

**MSAE461 ARE *vol\_1* AND *vol\_2* THE SAME VOLUME -- Y or NO**

\*\*\*\*\*

**\* CAUTION: IF THE SPACE ALLOCATIONS ARE OVERLAPPING  
\* THE RESULTS OF SUCH TESTING ARE UNPREDICTABLE.**

\*\*\*\*\*

**Explanation:** If *vol\_1* and *vol\_2* are the same volume, the same space on the same disk volume has been allocated from two different paths and causes overlapping space allocations.

**Solution:** Reply to the message, enter one of the following:

- **Y** to *not* accept the device definition.
- **N** to accept the device definition.

**MSAE462 OVERLAPPING SPACE ALLOCATION**

**Explanation:** The same space on the same disk volume has been allocated from two different paths and the device definition is not accepted.

**Solution:** Refer to message MSAE461.

**MSAE491 WARNING -- DD TYPES 0, 2, AND 5 REQUIRE THAT THE DEVICE TO BE USED MUST BE OFFLINE TO ALL OTHER SYSTEMS AND VIRTUAL MACHINES**

**Explanation:** Test device definitions using DD types 0, 2, and 5 require the test device to be online only to the system (or VM/370 virtual machine) MPSTSAE is executing on. If the test device is online to more than one system, customer data can be destroyed. Multiple systems could attempt to write/read data at the same time to the same DASD cylinder and head location or the same tape volume.

**Solution:** Reply to message MSAE492.

**MSAE492 CONFIRM THE DEVICE IS OFFLINE -- Y or N**

\*\*\*\*\*  
\* CAUTION: IN THE FOLLOWING DEFINITION, IF THE TEST  
\* DEVICE IS ONLINE TO ANY OTHER SYSTEMS AND THE  
\* REPLY TO THIS MESSAGE IS Y, CUSTOMER DATA MAY BE  
\* DESTROYED.  
\*\*\*\*\*

**Explanation:** This message requires a response.

**Solution:** Reply to the message, enter one of the following:

- **Y** if the test device being defined is known to be offline to all other systems.
- **N** if the test device being defined is known to be online to other systems.

**MSAE493 I/O ERROR --**

**DEVICE** *addr* **ECB** *cc* **CC** *sio* **CSW** *stat-byte*  
**SEEK ADDR** *cccc.hhhh[.rr]*  
**[SENSE** *data***]**

**Explanation:** An I/O error has occurred during MPSTSAE test device definition.

- **DEVICE** *addr*—The device address.
- **ECB** *cc*—The ECB completion code.
- **CC** *sio*—The SIO condition code.
- **CSW** *stat-byte*—The CSW unit and channel status and residual byte count.
- **SEEK ADDR** *cccc.hhhh.rr*—The cylinder and head address and the record number (if DASD).
- **SENSE** *data*—The sense data (if unit check is ON in the unit status)

**Solution:** None required.

**MSAE494 I/O ERROR READING DSCB -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to read a data set control block (DSCB) on the volume mounted on a CKD DASD test device. The message preceding this one (MSAE493) describes the error.

**Solution:** Refer to message MSAE493 and reply to MSAE493:

- Enter **I** to ignore the error and continue.
- Enter **R** to retry the I/O operation.
- Enter **C** to cancel the test device definition in progress.

**MSAE495 I/O ERROR ON SENSE ID -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to do a SENSE ID command on the test device. The message preceding this one (MSAE493) describes the error.

**Solution:** Refer to message MSAE493 and reply to MSAE495:

- Enter **I** to ignore the error and continue.
- Enter **R** to retry the I/O operation.
- Enter **C** to cancel the test device definition in progress.

**MSAE497 I/O ERROR ON NOP -- I or R or C**

**Explanation:** An I/O error occurred when MPSTSAE attempted to do a NOP command to the test device. The message preceding this one (MSAE493) describes the error.

**Solution:** Refer to message MSAE493 and reply to MSAE497:

- Enter **I** to ignore the error and continue.
- Enter **R** to retry the I/O operation.
- Enter **C** to cancel the test device definition in progress.

**MSAE498 VOLSER = *volser*, VTOC LOCATION = *cccc.hhhh.rr***

**Explanation:** This message displays the volser and the VTOC location.

- *volser*—The volume serial number.
- *cccc.hhhh.rr*—The location (cylinder, head and record) of the volume table of contents for the configured test device.

**Solution:** None required.

**MSAE499 SENSE ID = FF** *cu\_type cu\_mod dev\_type dev\_mod*  
*or*  
**SENSE ID = NOT AVAILABLE**

**Explanation:** A SENSE ID command (XE4) is issued to each MPSTSAE test device during test device definition. The data returned by this command is displayed in this message.

- *cu\_type*—The control unit type.
- *cu\_mod*—The control unit model.
- *dev\_type*—The device type.
- *dev\_mod*—The device model.

**Solution:** None required.

#### **MSAE801 INVALID INPUT DEVICE**

**Explanation:** This message indicates a program error in MPSTSAE or MPST.

**Solution:** Contact CS Software Support.

#### **MSAE802 INVALID OUTPUT DEVICE**

**Explanation:** This message indicates a program error in MPSTSAE or MPST.

**Solution:** Contact CS Software Support.

#### **MSAE803 INVALID DCB PARAMETERS**

**Explanation:** This message indicates a program error in MPSTSAE or MPST.

**Solution:** Contact CS Software Support.

**MSAE804 DEVICE *addr* NOT ONLINE -- R or C**

**Explanation:** MPSTSAE or MPST is attempting to use the device at address *addr* and the device is not online.

**Solution:** Correct the problem and enter one of the following

- **R** to retry MPSTSAE or MPST operation.
- **C** to cancel MPSTSAE or MPST operation.

**MSAE805 GETMAIN FOR I/O BUFFER FAILED**

**Explanation:** There is insufficient storage available to do an I/O to a device.

**Solution:** Increase the amount of main storage available to MPSTSAE *or* run MPSTSAE on a larger system.

**MSAE806 INVALID TAPE FILE NUMBER**

**Explanation:** An MPSTSAE or MPST function is attempting to access a tape device. The file number specified is invalid.

**Solution:** If the tape file number was obtained from an MPSTSAE reply message or an MPST function control card, re-execute the function and specify a valid tape file number. (Normally, tape file numbers range from 1 to 99.)

**MSAE807 I/O ERROR *device* - R or C**

**Explanation:** An I/O error occurred on UCB *device* during print configuration.

**Solution:** The message preceding this one (MSAE809) describes the error.

**Solution:** Reply to the message, and enter one of the following:

- **R** for retry.
- **C** for cancel.

**MSAE808 UNRECOVERABLE I/O ERROR**

**Explanation:** A permanent I/O error has occurred and the MPSTSAE or MPST function using the failing device is cancelled. The message preceding this one (MSAE809) describes the error.

**Solution:** None required.

**MSAE809 I/O ERROR --**

**CPU** *num* **DEVICE** *addr* **ECB** *cc* **CC** *sio* **CSW** *stat-byte*  
**SEEK ADDR** *cccc.hhhh[.rr]*  
**[SENSE** *data***]**

**Explanation:** An I/O error has occurred.

- **CPU** *num*—The CPU number.
- **DEVICE** *addr*—The device address.
- **ECB** *cc*—The ECB completion code.
- **CC** *sio*—The SIO condition code.
- **CSW** *stat-byte*—The CSW unit and channel status and residual byte count.
- **SEEK ADDR** *cccc.hhhh.rr*—The cylinder and head address and the record number (if DASD).
- **SENSE** *data*—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE810 QSAM NOT SUPPORTED**

**Explanation:** This message indicates a program error in MPSTSAE or MPST.

**Solution:** Contact CS Software Support.

**MSAE811 GET AFTER END-OF-FILE**

**Explanation:** This message indicates a program error in MPSTSAE or MPST.

**Solution:** Contact CS Software Support.

**MSAE901 USE PA1/PF1 TO SWITCH BETWEEN ROLL AND FRAME MODE**

**Explanation:** An incorrect PA or PF key; other than PA1, PA2, PF1, and PF2; was used. The message appears on the input line of a 3277, 3278, or 3279 console device.

**Solution:** Use the correct PA or PF key *or* type an MPSTSAE command over this message.

**MSAE902 USE PA2/PF2 TO CLEAR SCREEN**

**Explanation:** The screen is full and there are one or more messages waiting to be displayed. The message appears on the input line of a 3277, 3278, or 3279 console device.

**Solution:** Press the PA1/PF1 or the PA2/PF2 key:

- If the PA2 or the PF2 key is used, MPSTSAE clears the screen and leaves the console in FRAME mode.
- If the PA1 or the PF1 key is used, MPSTSAE clears the screen, places the console in ROLL mode, and continues.

**MSAE903 REPLY *num* IGNORED -- NOT OUTSTANDING**

**Explanation:** The first non-blank character of the last MPSTSAE command entered was *num*, and that reply number is not currently outstanding.

**Solution:** Enter the **DISPLAY R** command to display the current, outstanding reply number.

**MSAE904 COMMAND *char* IGNORED -- COMMAND QUEUE FULL**

**Explanation:** The first non-blank character (*char*) of the last MPSTSAE command entered was ignored because the MPSTSAE internal command buffer is full.

**Solution:** Reissue the rejected command after MPSTSAE has processed the queued commands in the internal buffer.

**MSAE905 INPUT TRUNCATED TO 72 BYTES**

**Explanation:** The data entered was more than the maximum line length of 72 bytes.

**Solution:** Re-enter the data or accept a truncated line.

```

MSAE940 -- *SIO* CUU - p.addr, CAW|CPA main_stor, CC - sio
[ , CSW hex_data hex_data ]
CCW AT main_stor - hex_data ... hex_data
main_stor - hex_data ... hex_data *.....*
...
main_stor - hex_data ... hex_data *.....*
[ .... DATA PRINT TRUNCATED ]

```

**Explanation:** A CCWTRACE command has been specified and this message displays on an SIO, SIOF, or SSCH.

- CUU—The device being traced.
- *p.addr*—The processor and device address.
- CAW|CPA—The channel address word (370 mode), or the channel program address (XA mode).
- *main\_stor*—The address in main storage.
- CC *sio*—The SIO condition code.
- CSW—The channel status word, if condition code 1 was posted on start.
- CCW AT—The CCW chain and up to 48 bytes of data per CCW.
- *hex\_data*—Any hex data.
- DATA PRINT TRUNCATED—There were more than 48 bytes of data and only the first 48 bytes are displayed.



**Note:** Under XA the entire ORB is also displayed.

**Solution:** None required.

```

MSAE941 -- *INT* CUU - p.addr, CSW hex_data hex_data
CCW AT main_stor - hex_data hex_data
main_stor hex_data ... hex_data *.....*
...
main_stor hex_data ... hex_data *.....*
[ .... message ]

```

**Explanation:** A CCWTRACE command has been specified. This message is printed because an interrupt has occurred. Under XA the entire IRB is also displayed.

- CUU—The device being traced.
- *p.addr*—The processor and device address.
- CSW—The channel status word, if condition code 1 was posted on start.
- *hex\_data*—Any hex data.
- CCW AT—The CCW chain and up to 48 bytes of data per CCW.
- *main\_stor*—The address in main storage.
- Possible *messages* are:
  - ACTUAL DATA LENGTH UNKNOWN—The suppress incorrect length (SLI) flag was ON in this CCW. Since this was not the last CCW in the chain that was executed, it is impossible to determine exactly how much data has been transferred.
  - DATA PRINT TRUNCATED—There are more than 48 bytes of data. Only the first 48 bytes are displayed.
  - DATA TRANSFER SUPPRESSED—The suppress transfer (skip) flag was ON in this CCW. No data has been transferred.
  - NO DATA TRANSFERRED—Because the residual byte count (RBC) in the CSW is the same as the byte count in the CCW no data has been transferred.

**Solution:** None required.

**MSAE942 -- SENSE -- *message***

**Explanation:** Message MSAE941 indicated a unit check condition and MPSTSAE issued a sense command to the addressed device. This *message* displays the sense information.

**Solution:** None required.

**MSAE950 PRINT LINE(S) LOST -- PRINT QUEUE FULL**

**Explanation:** The print queue is full and at least one message has been lost, but no MPST output is lost.

**Solution:** The probable cause of this problem is the printer. If possible, correct the problem.

**MSAE951 INVALID OUTPUT DEVICE**

**Explanation:** An invalid device type is configured as the printer device.

**Solution:** Contact CS Software Support.

**MSAE952 I/O ERROR --**

**CPU *num* DEVICE *addr* ECB *cc* CC *sio* CSW *stat-byte*  
[SENSE *data*]**

**Explanation:** An I/O error has occurred on the printer device.

- **CPU *num***—The CPU number.
- **DEVICE *addr***—The printer device address.
- **ECB *cc***—The ECB completion code.
- **CC *sio***—The SIO condition code.
- **CSW *stat-byte***—The CSW unit and channel status and residual byte count.
- **SENSE *data***—The sense data (if unit check is ON in the unit status).

**Solution:** None required.

**MSAE953 PRINTER DEVICE STOPPED DUE TO FATAL I/O ERROR.  
OUTPUT ROUTED TO CONSOLE**

**Explanation:** An unrecoverable I/O error has occurred on the MPSTSAE printer output device. The MPSTSAE print task has turned ON parallel print to route all output messages to the console device. The message preceding this one (MSAE952) describes the error.

**Solution:** To restart hard copy printing, correct the problem with the printer output device or use another printer.



**Note:** The printer output device cannot be varied on more than once. Vary the printer output device offline and then vary the printer (back) online.

**MSAE954 TOP OF FORM - *ucs* -  
THIS LINE IS SINGLE SPACED****THIS LINE IS DOUBLE SPACED****THIS LINE IS TRIPLE SPACED**

**Explanation:** A LOADBUF command was issued. This message prints the UCS loaded (*ucs*) and tests the ability of the printer output device to skip to the top of the form and to space properly for single, double, and triple space.

**Solution:** None required.

**MSAE955 LOADBUF COMMAND COMPLETED --**

**UCS LOADED** = *name*  
[**LINES PER INCH** = *num*]

**Explanation:** A LOADBUF command was processed.

- For 1403 printers, the UCS name loaded replaces *name* and the third line is not printed.
- For 3211/3203 printers, this message is issued in response to either:
  - LOADBUF with no parameters (used to display current buffer contents), or
  - LOADBUF loading the values displayed into the buffers.

**Solution:** None required.

**MSAE956 6100 CLEAR/INIT COMPLETED --**

**Explanation:** A LOADBUF command was processed for a 6100 printer output device. The command sequence CLEAR PRINTER, INITIALIZE PRINTER was issued and completed successfully. The default WCGM and translate table have been loaded. A default FCB has been loaded matching the paper length setting on the operator's panel.

**Solution:** None required.

# Index

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## A

ABEND Codes, 2  
Abnormal End Codes, 2  
Attention Interrupt, 61

## C

CCWtrace, 15  
Channel Command Word Trace, 15  
CKDMAP, 19  
Control Card Editor, 5  
Count–Key–Data Map, 19

## D

DEFINE, 47

## G

Generate Stand–Alone Programs, 53  
GENSAPGM, 53

## L

LIBLOOK, 109  
LIBMOUNT, 91  
Library Look, 109  
Library Mount Function, 91  
Library Storage Module Exerciser, 63  
LSMEXER, 63

## M

MPST Main Processing, 117  
MPST Stand–alone Executive, 263  
MPSTCCE messages, 5  
MPSTCCW messages, 15  
MPSTCKM messages, 19  
MPSTCPY messages, 25  
MPSTDEF messages, 47  
MPSTGSA messages, 53  
MPSTINT messages, 61  
MPSTLEX messages, 63  
MPSTLIB messages, 91  
MPSTLOC messages, 109  
MPSTMAIN, 117

MPSTMAN messages, 117  
MPSTRLB messages, 129  
MPSTSAE, 263  
MPSTTIP Messages, 151  
MPSTTMC messages, 171  
MPSTTRK messages, 157  
MPSTTSC messages, 177  
MPSTVSC messages, 201  
MPSTVTM messages, 219  
MPSTWRC messages, 223  
MPSTWRD messages, 251  
MSAE messages, 263

## **R**

Random Locate Block, 129  
Return Codes, 1  
RLB, 129

## **S**

Stand-alone Executive, 263

## **T**

Tape Copy, 25  
Tape Independent Protocol Set, 151  
Tape Monitor and Control , 171  
Tape Scan, 177  
TAPESCAN, 177  
Terminal Control Unit Verification, 219  
TIPS, 151  
TMC , 171  
Track Dump, 157  
TRKDUMP, 157

## **V**

VOLSCAN, 201  
Volume Scan, 201  
VTERM, 219

## **W**

WRCART, 223  
WRDISK, 251  
Write-Read Cartridge, 223  
Write-Read Disk, 251

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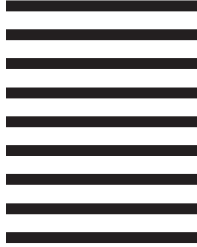
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