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**STCPOST  
Program  
For Online  
Subsystem  
Testing**

**Messages and  
Codes**

**FE-012-3**

**Version 3.0**

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**Storage Technology Corporation**

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## SUMMARY OF CHANGES

FE-012-3, August 1984, is a new edition that describes STCPOST Version 3.0A.

Differences between Version 2.0A and Version 3.0A are:

- The function descriptions been moved to STCPOST REFERENCE MANUAL FE-001.

This edition contains information about features of STCPOST that are not yet available for general use. The following information should be used for planning purposes only:

- All information about remote operation of STCPOST, including the STCPOST REMOTE function.
- All information about FBA DASD, including 3370 devices.

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# PREFACE

## SCOPE

This manual describes the messages issued by STCPOST and STCPOST functions.

Instructions for installing STCPOST and descriptions of STCPOST functions are found in STCPOST REFERENCE MANUAL FE-001.

The STCPOST Stand-Alone Executive is described in STCPOST STAND-ALONE EXECUTIVE REFERENCE MANUAL FE-010.

The FRIEND function is described in STCPOST FRIEND FUNCTION REFERENCE MANUAL FE-013.

## RELATED DOCUMENTATION

This manual and the STCPOST manuals listed below can be ordered from:

Storage Technology Corporation  
FE Documentation Subscription Service MD FH  
2270 South 88th Street  
Louisville, Colorado 80028

Phone: (303) 673-6789 or (303) 673-4840

This manual should be used with the following manuals:

STCPOST REFERENCE MANUAL	FE-001
STCPOST REFERENCE HANDBOOK	FE-009
STCPOST STAND-ALONE EXECUTIVE REFERENCE MANUAL	FE-010
STCPOST FRIEND FUNCTION REFERENCE MANUAL	FE-013

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# CHAPTER 1

## RETURN AND ABEND CODES

### PROGRAM AND FUNCTION RETURN CODES

Table 1-1 lists the STCPOST main program and function return codes. The program return code to the system is the highest return code that occurred during STCPOST execution. See the OPTION function TESTRC parameter for a description of function return code testing.

Table 1-1. Return Codes

Return Code	Program Use	Function Use
0	no errors	no errors
4	not used	warning or minor device error
8	not used	serious device 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

| The STCPOST user abend codes 087-099 indicate problems within the STCPOST program. Abend codes 090 - 099 are always preceded by message STC098. The reason code in that message is the last digit of the abend code.

The following abend codes are used by STCPOST:

| 087 - An (E)STAE environment could not be established in an OS/VS environment.

## Return and Abend Codes

- 088 - The Getmain for the STCPOST Stack Manager Cell Control Stack failed. Increase the partition or region size and try again.
- 089 - The Getmain for the STCPOST Stack Manager Cell Data Stack failed. Increase the partition or region size and try again.
- 090 - Not used. Contact FE Software Support
- 091 - Getmain/freemain problem. Contact FE Software Support
- 092 - Test device open/close problem. Contact FE Software Support
- 093 - Write to operator problem. Contact FE Software Support
- 094 - The STCPOST program modules are not at the proper level. The STCPOST main program (STCPOST) may not be at the same level as the function modules (STCPOSTx and STCPSTxx). Insure that all older versions of STCPOST have been removed from the system.
- 095 - The field test version of STCPOST being executed has expired. Install the latest version of STCPOST. Once a field test has expired, STCPOST will prompt the operator for a password. If the password is entered, execution continues. If not, STCPOST abends.
- 096 - The DOS/VSE version of STCPOST is not executing in virtual storage. Check the STCPOST job JCL.
- 098 - The DOS/VSE version of STCPOST encountered an error while loading an STCPOST module. Contact FE Software Support.
- 099 - Option ABEND is in effect and the specified trace point ID was reached.

# CHAPTER 2

## STCPOST MESSAGES

### STCPOST STANDARD ERROR MESSAGE

All STCPOST functions and diagnostics use a standard I/O operation checking routine. This routine issues a standard error message for errors that occur. This error message appears with a different message number, depending on which function or diagnostic is being executed. The format of this standard error message is:

```
STCxxxx message 1                               TIME hh.mm.ss
or
DIAGxxxx message 2
DEV Oaaa CC b STATUS ccdd RBC eeee ECB ff CPU gg PATH hhhh
SENSE ii..ii
SEEK ADDR jjjj.kkkk.11 (HEX) -- mmmm.nn.ooo (DECIMAL)
CCW 01 pp-qq-rrrr message 3 message 4
...
CCW zz pp-qq-rrrr
END OF MESSAGE STCxxxx
```

where:

1. STCxxxx/DIAGxxxx is the message number,
2. hh.mm.ss is the time in hours (hh), minutes (mm) and seconds (ss),
3. message 1 indicates the reason the error message was printed. The possible messages and their meanings are:
  - a) CSW COMMAND ADDRESS INCORRECT - The actual CCW address in the CSW did not match the expected CCW address in the CSW.
  - b) DATA COMPARE ERROR AT OFFSET +sssss - The data transferred by this CCW did not match the data expected to be transferred by this CCW. The mismatch occurred at offset sssss into the data. The expected data and the actual data are printed following the CCW that failed. The mismatched data is flagged with an \*. See Appendix F for a description of the data format.

## STCPOST Messages

- c) EXPECTED CSW RBC tttt - The actual CSW residual byte count eeee did not match the expected CSW residual byte count tttt.
  - d) EXPECTED CSW STATUS uuuu - The actual CSW status ccdd did not match the expected CSW status uuuu.
  - e) EXPECTED ECB vv - The actual ECB completion code ff did not match the expected ECB completion code vv. The definitions of the ECB completion codes are:
    - i) 41 is a permanent error,
    - ii) 42 is a data set extent violation error,
    - iii) 44 is an intercepted operation (the I/O operation described by this error message was not performed because the previous I/O operation ended with channel end and device end separately, and error status was received with the device end), and
    - iv) 7F is no error.
  - f) EXPECTED SENSE wwww - The actual sense bytes 0 and 1 did not match the expected sense bytes 0 and 1 (wwww).
  - g) OPTION IOCHECK - The error message was produced (even though no error may have occurred) because the OPTION IOCHK parameter was specified.
4. message 2 is one or more optional messages issued by the executing function.
  5. aaa is the device address,
  6. b is the SIO condition code,
  7. ccdd is the unit (cc) and channel (dd) status from the CSW,
  8. eeee is the residual byte count from the CSW,
  9. ff is the Event Control Block (ECB) completion code,
  10. gg is the CPU id of the CPU where the error occurred,
  11. hhhh is the actual path address where the error occurred,
  12. ii..ii is the sense information,

## STCPOST Messages

13. jjjj.kkkk.ll is the seek address cylinder (jjjj), head (kkkk) and record (ll) in hex,
14. mmmm.nn.oo is the seek address cylinder (mmm), head (nn) and record (oo) in decimal,
15. pp-qq-rrrr is the CCW command code (pp), flags (qq) and byte count (rrrr),
16. message 3 is \*FAILED\* to indicate that the error occurred while executing that CCW, or blank if no error occurred while executing that CCW, and
17. message 4 is an informational message for that CCW and may or may not appear. Possible messages and their meanings are:
  - a) CCW DATA - The data transferred by this CCW follows.
  - b) CCW DATA UNKNOWN - The data transferred by this CCW could not be determined.
  - c) DATA XFER SUPPRESSED - The skip flag was set in the CCW flag byte.
  - d) FIRST nnnnn BYTES - The first nnnnn bytes of the data transferred by the CCW follow. Refer to the Option DATACNT parameter for more information.
  - e) NO DATA XFERED - No data was transferred by this CCW.

# STCPOST Messages

## STCPOST STANDARD ERROR MESSAGE EXAMPLE

The following is an example of the STCPOST standard error message that is printed for an error that occurs while executing the WRTREAD function.

```
STC235      EXPECTED ECB 7F                      TIME 01.15.44
            UNRECOVERABLE ERROR
            DEV 0190 CC 0 STATUS 0200 RBC 4A7D ECB 41 CPU 00 PATH 0190
            SENSE 8000000D804A2402000000000000000000000000000000002E0F02
            SEEK ADDR 014A.0004.10 (HEX) -- 0330.04.016 (DECIMAL)
            CCW 01 07-40-0006          CCW DATA--
            +00000 C .....
                Z 000400
                N 001A04
                S 0
            CCW 02 1F-40-0001          CCW DATA--
            +00000 C .
                Z 5
                N 8
                S 0
            CCW 03 08-40-0001
            CCW 04 23-40-0001          CCW DATA--
            +00000 C .
                Z 1
                N 5
                S 0
            CCW 05 31-40-0005          CCW DATA--
            +00000 C .....
                Z 04001
                N 1A040
                S 0
            CCW 06 08-40-0001
            CCW 07 0D-60-4A7D *FAILED* FIRST 100 BYTES--
            +00000 C B....V..B....V..B....V..B....V..B....V...
                Z C14A3EB5C14A3EB5C14A3EB5C14A3EB5C14A3E...
                N 2A3DD5C22A3DD5C22A3DD5C22A3DD5C22A3DD5...
                S 0 . 1 . 2 . 3 . 4...
            CCW 08 22-00-0001
            END OF MESSAGE STC235
```



## STCPOST FUNCTION MESSAGES

SAE000 through SAE999

See the STCPOST STAND-ALONE PROGRAMS REFERENCE MANUAL SE-010.

### STC#00 START STCPOST CONTROL CARD EDITOR

The STCPOST Control Card Editor has been invoked.

### STC#01 NO CONTROL CARDS FOUND IN SYSCCLIB

The file defined by the SYSCCLIB DD card failed to open, or there were no control cards in the file. Verify that the DD card for the file is coded correctly.

### STC#02 CONTROL CARD SET 'xx..xx' REQUESTED BY TEST= PARAMETER

The TEST=x parameter was specified when the Control Card Editor was invoked. xx..xx is the name of the control card set that was specified by the TEST=x parameter.

### STC#03 DEFAULT CONTROL CARD SET NOT FOUND

A default control card set was specified, but was either not defined or could not be found.

### STC#06 UNABLE TO SAVE CONTROL CARDS IN SYSCCLIB

STCPOST was unable to write to the file SYSCCLIB. This file is used to save the active and alternate control card sets between executions of STCPOST. Verify that the DD card for SYSCCLIB is coded correctly.

### STC#11 ENTER CONTROL CARD SET NAME, NUMBER OR 'END'

Enter: the name or number of the control card set to be prompted, or 'END' to terminate the Control Card Editor prompt facility. The valid control card set names are listed in the STCPOST REFERENCE MANUAL SE-001.

### STC#12 PROMPT FOR ALL PARAMETERS--Y OR N

A reply of 'Y' allows all parameters for the control card set to be re-specified. A reply of 'N' allows only those parameters which do not have a default value to be re-specified.

**STCPOST Messages**  
**STC#21**

**STC#21 NO ACTIVE CONTROL CARDS**

The active control card set does not contain any control cards.

**STC#22 ACTIVE CONTROL CARDS --**  
**control card #1**

...  
**control card #n**

The active control card set contains the control cards listed.

**STC#23 CHANGE CONTROL CARDS-- E OR P OR Y OR N**

To use the active control card set as is (as displayed by message STC#21 or STC#22), reply 'N'. To replace the active control card set with a new active control card set, reply 'Y'. To edit the active or alternate control card set (add, delete or replace cards), reply 'E'. To replace the active control card set with a control card set generated by the Control Card Editor prompt facility, reply 'P'.

**STC#24 ENTER CONTROL CARD nn OR 'END'**

Enter: control card nn that becomes part of the active control card set, or 'END' to terminate control card entry.

**STC#25 CC nn ACCEPTED**

Control card nn was accepted and placed into the active control card set.

**STC#26 ALTERNATE CONTROL CARDS SAVED**

The alternate control card set was saved (contains control cards).

**STC#27 NO ALTERNATE CONTROL CARDS SAVED**

The alternate control card set was not saved (contains no control cards).

**STC#31 CONTROL CARD SET 'xx..xx' NOT AVAILABLE**

The control card set name entered in response to message STC#11 or specified by the TEST=x parameter is not a valid control card set name. The valid control card set names are listed in Appendix D.

**STC#32 THE FOLLOWING CONTROL CARDS ARE AVAILABLE FOR PROMPTING--  
aa..aa**

...

nn..nn

**-OR- ENTER 0 TO 9 FOR A DEFAULT CARD SET**

The valid control card set names are listed. The user may enter one of the control card set names or a number from 0 to 9 to select one of the pre-defined default control card sets.

**STC#33 ccc ... [card with no parameter] ... ccc**

The card displayed does not have a parameter that can be re-specified, and is to be used as shown.

**STC#34 ccc ... [card with a default parameter] ... ccc**

The displayed card has a default parameter and is to be used as shown.

**STC#35 ccc ... [card with a parameter to prompt] ... ccc**

The displayed card has a parameter which may be re-specified by replying to message STC#36 or STC#37.

**STC#36 ENTER PARAMETER VALUE OR BLANK (TO DELETE) OR DASH (FOR DEFAULT)**

The card displayed by message STC#35 has a parameter with a default value. Reply '-' to use the default value. Reply with a new value to replace the default value. If the parameter has an equal sign (=), the new value replaces the value to the right of the equal sign. Otherwise the new value replaces the whole card. Reply with a null reply (blanks) to replace the parameter with a blank card.

**STCPOST Messages**  
**STC#37**

**STC#37 ENTER PARAMETER VALUE OR BLANK (TO DELETE)**

The card displayed by message STC#35 has a parameter with no default value. Reply with a value for the parameter. If the parameter has an equal sign (=), the value is placed to the right of the equal sign. Otherwise, the value replaces the whole card. Reply with a null reply (blanks) to replace the parameter with a blank card. A reply of '-' is invalid.

**STC#38 PARAMETER HAS NO DEFAULT VALUE**

The reply to message STC#37 was '-'. This reply is invalid for a parameter with no default value.

**STC#52 ENTER EDIT COMMAND OR 'HELP' OR 'END'**

Reply with a Control Card Editor edit facility command, or 'HELP' to enter the help facility or 'END' to terminate the edit facility.

**STC#53 INVALID EDIT COMMAND, REPLY 'HELP' FOR HELP**

The reply to message STC#52 was not a valid Control Card Editor edit facility command. Reply 'H' to message STC#52 for a list of the valid edit facility commands.

**STC#54 VALID EDIT COMMANDS ARE--**  
command 1  
...  
command n

The reply to message STC#52 was 'H'. The valid edit facility commands are listed.

**STC#55 NO CARDS TO EDIT**

The active control card set does not contain any control cards. The only edit facility commands that can be entered at this time are: END, L, LA, S and SWAP.

**STC#56 nn ccc ... [current card] ... ccc**

This message displays the current card (number nn) in the active control card set on which the Control Card Editor is to act. This card is the starting point for edit facility commands. For example, the REP command replaces this card; the D command moves down one card from this card.

**STC#57 NO CARDS TO LIST**

The reply to message STC#52 was 'L' or 'LA' but there are no active (L) or alternate (LA) control cards to list.

**STC#58 ENTER CARD**

The reply to message STC#52 was 'REP'. Enter the card that is to replace the card displayed by message STC#56.

**STC#59 ACTIVE CC SET FULL**

The active control card set contains sixteen cards (the maximum number allowed). No additional cards may be added until at least one card is deleted.

**STC#60 TEXT NOT FOUND**

The reply to message STC#52 was 'C /t1/t2/' but the text t1 could not be found in the card displayed by message STC#56.

**STC#61 INSERT MODE--ENTER CARD OR 'END'**

The reply to message STC#52 was 'INS' or 'INSB'. Reply with the card that is to be inserted before (INSB) or after (INS) the card displayed by message STC#56.

**STC#62 ACTIVE CONTROL CARDS--  
control card #1**

...  
control card #n

The reply to message STC#52 was 'L'. The active control card set is listed.

**STC#63 ALTERNATE CONTROL CARDS--  
control card #1**

...  
control card #n

The reply to message STC#52 was 'LA'. The alternate control card set is listed.

**STC#71 REQUESTED CONTROL CARD SET NOT FOUND**

The control card set specified was either not defined or could not be found.

STCPOST Messages  
STC#91

STC#91 ACTIVE CONTROL CARDS --  
control card #1  
...  
control card #n

This is a list of the active control card set at the termination of the Control Card Editor.

STC#92 ALTERNATE CONTROL CARDS --  
control card #1  
...  
control card #n

This is a list of the alternate control card set at the termination of the Control Card Editor.

STC#93 NO ACTIVE CONTROL CARDS

There were no cards in the active control card set at the termination of the Control Card Editor.

STC#94 NO ALTERNATE CONTROL CARDS

There were no cards in the alternate control card set at the termination of the Control Card Editor.

STC#99 END STCPOST CONTROL CARD EDITOR

| The STCPOST Control Card Editor has ended.

| STCA000 DEFINE

| The DEFINE function is executing.

| STCA001 PARAMETER ERROR (xx..xx)

| The parameter xx..xx is either coded incorrectly or is invalid for the DEFINE function.

| STCA002 REQUIRED PARAMETER NOT SPECIFIED

| A required parameter was not specified.

| STCA003 DDNAME ddddddd ALREADY DEFINED

| Ddname ddddddd is already defined.

| STCA004 DEVICE aaaa ALREADY DEFINED

| Device aaaa is already defined.

| STCA005 DEVICE aaaa IS AN UNSUPPORTED DEVICE TYPE - X'tttt'

| Device aaaa is type tttt which is not supported by the  
| DEFINE function.

| STCA006 DDTYPE t IS INVALID FOR DEVICE TYPE tttt

| DD type t is invalid for device type tttt.

| STCA007 DEVICE aaaa NOT DEFINED TO SYSTEM

| Device aaaa is not defined to the operating system.

| STCA010 DEVICE aaaa FAILED TO OPEN

| Device aaaa failed to open.

| STCA012 UNABLE TO ALLOCATE DEVICE aaaa - reason

| Device aaaa could not be allocated. Reasons are:

- | 1. DEVICE IS ONLINE OR ASSIGNED - the device is online  
| (OS/VSE) or assigned (DOS/VSE).
- | 2. DEVICE IS OFFLINE BUT IN USE - the device is offline  
| but is in use by another program which allocates  
| offline devices.
- | 3. ASSIGN FAILED - an attempt to ASSIGN the device  
| failed (DOS/VSE).

| STCA013 UNABLE TO OBTAIN DEB STORAGE

| An attempt to obtain storage for a Data Extent Block  
| failed.

| STCA015 MAXIMUM NUMBER OF DEVICES DEFINED

| The maximum number of devices has been defined. No more  
| devices can be defined.

| STCA016 DEFINE FUNCTION NOT ALLOWED IF REMOTE IS ACTIVE

| The DEFINE function is not allowed if the REMOTE function  
| is active.

| STCA017 DDNAME dddddd DEFINED FOR ADDRESS aaaa FOR DDTYPE t

| Ddname dddddd has been defined for the device at address  
| aaaa for a DD type t.

STCPOST Messages  
STCA018

STCA018 DEVICE DEFINITIONS -  
DDNAME ADDRESS DDTYPE  
dddddddd aaaa t

The current devices defined by the DEFINE function are displayed. ddddddd is the DD name, aaaa is the device address, and t is the DD card type.

STCA019 VSE/AF SUPPORT REQUIRED

VSE/AF support must be installed on the DOS/VSE system in order for the DEFINE function to operate.

STCA055 CONFIRM REQUEST TO INITIALIZE DEVICE aaaa - REPLY Y OR N

The DEFINE function is asking for confirmation that device aaaa can be initialized. All data currently on this device will be destroyed. Reply Y to continue with device initialization, N to terminate.

STCA056 OPERATOR REPLY - xx.xx

The reply to the preceding STCPOST message was xx..xx.

STCA057 VARY DEVICE aaaa OFFLINE TO ALL OTHER SYSTEMS AND REPLY ANY CHARACTER

Device aaaa must be varied offline to all other systems. When device aaaa is offline to all other systems, reply with any character to continue execution.

STCA058 CONFIRM DATA ON DEVICE aaaa CAN BE DESTROYED

The DEFINE function is asking for confirmation that the data on the volume mounted on device aaaa can be destroyed. Reply Y if the data can be destroyed, N if it can not.

STCA059 'FORCE' PARAMETER IN EFFECT

The FORCE parameter was specified. No confirmation for initialization or data destruction was requested.

STCCE00 CE CYLINDER xx..xx STARTED

Scanning and/or formatting of the CE cylinder has started where xx..xx is the operation being performed.



STCCE01 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to read HA and R0 on a CE track.

STCCE02 I/O ERROR ...

This is an STCPOST standard error message. The HA data was incorrect on a CE track.

STCCE03 I/O ERROR ...

This is an STCPOST standard error message. The R0 data was incorrect on a CE track.

STCCE04 I/O ERROR ...

This standard STCPOST error message indicates that an error occurred while attempting to seek to the CE cylinder.

STCCE11 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write HA/R0 data on a CE track.

STCCE12 I/O ERROR ...

This is an STCPOST standard error message. The HA data read on a CE track was not the HA data written.

STCCE13 I/O ERROR ...

This is an STCPOST standard error message. The R0 data read on a CE track was not the R0 data written.

STCCE20 ccc.hhhh (ccc.hh) - DS3=xxxx DS2=xxxx DS1=xxxx

The CE track was scanned and the PRINTDS parameter was in effect. The defect skip information was read from Home Address and printed. DS1 is the location of the first defect on the track. DS2 is the location of the second defect on the the track. DS3 is the location of the third defect on the track.

STCPOST Messages  
STCCE21

STCCE21 cccc.hhhh (ccc.hh) - DS1=xxxx DS2=xxxx ... DS7=xxxx

The CE track was scanned and the PRINTDS parameter was in effect. The defect skip information was read from Home Address and printed. DS1 is the location of the first defect on the track, DS2 is the location of the second defect on the the track, ..., DS7 is the location of the seventh defect on the track.

STCCE22 cccc.hhhh (ccc.hh) - HOME ADDRESS AND RECORD ZERO FORMATTED

The home address and record zero records on this track were successfully written after an error occurred reading the records.

STCCE99 CE CYLINDER xx..xx ENDED  
message

Scanning and/or formatting of the CE cylinder has ended where xx..xx is the operation that was performed. message is the status of the operation and is:

1. NO ERRORS DETECTED

No errors occurred during the operation.

2. 1 OR MORE TRACKS HAD SCAN ERRORS

One or more tracks had errors when home address and record zero were read.

3. 1 OR MORE TRACKS HAD SCAN ERRORS  
NO TRACKS HAD FORMAT ERRORS

One or more tracks had errors when home address and record zero were read but all of the tracks with errors were successfully formatted.

4. 1 OR MORE TRACKS HAD SCAN ERRORS  
1 OR MORE TRACKS HAD FORMAT ERRORS

One or more tracks had errors when home address and record zero were read and one or more of those tracks could not be successfully formatted.

5. CE CYLINDER COULD NOT BE ACCESSED

An error occurred while attempting to access the CE cylinder. The scan or format was not done.

| STCD00 DISPLAY

|       The initial message of the DISPLAY function.

| STCD02 PARAMETER ERROR (xx..xx)

|       The parameter xx..xx is either coded incorrectly or is invalid for the DISPLAY function.

| STCD04 FILE xxxxxxxx NOT DD TYPE 6

|       The DD card xxxxxxxx defining the input file is not specified correctly for the DISPLAY function.

| STCD05 FILE xxxxxxxx FAILED TO OPEN

|       The input file xxxxxxxx failed to open. Verify that the DD card is coded correctly.

| STCD06 I/O ERROR ...

|       This is an STCPOST standard error message. An error occurred while attempting to read the LOGREC header record. The DISPLAY function is terminated with return code 8.

| STCD07 CURRENT SYS1.LOGREC TIME RANGE --  
day hh:mm:ss mm/dd/yy (yy.ddd) TO  
day hh:mm:ss mm/dd/yy (yy.ddd)

|       The current time range for the SYS1.LOGREC data set is displayed where day is the day-of-week, hh is the hour, mm is the minutes, ss is the seconds, mm is the month, dd is the day, ddd is the Julian day, and yy is the year. The first date and time indicate when the first record was written in the current LOGREC file and the second date and time indicate when the last record was written in the current LOGREC file. If the date and time is all asterisks (\*), the date and time could not be determined.

| STCD08 1ST RECORD NOT A VALID SYS1.LOGREC HEADER

|       The first record of the input data set is not a valid OS/VS (VS1, MVS/370, or MVS/XA) SYS1.LOGREC header record.

| STCD10 CURRENT SELECTION PARAMETERS:

|       The current selection parameters are listed.

**STCPOST Messages**  
**STCD11**

**STCD11 ENTER SELECTION PARMS, 'GO' OR 'END' OR 'LIST'**

The operator is prompted to enter new selection parms or 'GO' or 'END'. If 'GO' is entered the currently displayed parms are used as selection parameters. If 'END' is entered, the DISPLAY function terminates. All other entries are processed as new selection parameters.

**STCD12 INVALID SELECTION PARM SPECIFIED -  
xx..xx**

The parameter xx..xx specified is invalid or incorrectly coded. This message is issued when invalid selection parms are entered in response to STCD11.

**STCD13 OPERATOR REPLY IS -  
xx..xx**

The operator reply to message STCD11 or STCD16 was xx..xx.

**STCD15 I/O ERROR...**

This is an STCPOST standard error message. An error occurred while reading an input file record. This message is followed by message STCD16.

**STCD16 CONTINUE SCANNING -- REPLY Y OR N**

This message is issued after STCD15 to ask if scanning should continue. The record receiving the error is bypassed and is not displayed. If following records can be read successfully, they are displayed. This message is issued each time a record can not be read successfully. If the reply is 'Y', an attempt is made to read the following record. If the reply is 'N', any summary records being accumulated are displayed and the function terminates.

**STCD17 ERROR ON INPUT DATASET - PROCESSING STOPPED**

An error was encountered while processing the input data set. All processing of the data set stops.

STCD28 XA MIH - day hh:mm:ss mm/dd/yy (yy.ddd)  
 DEV aaaa TYPE bbbb VOLSER xxxxxx SUBCHANNEL ID yyyyyyyy  
 MISSING INTERRUPT - message 1  
 TIME INTERVAL - nnnnnnnn

This is the Missing Interrupt Handler report for MVS S-370-XA. Information about the missing interrupt is displayed where aaaa is the device number, bbbb is the device type, xxxxxx is the volume serial number of the device, and yyyyyyyy is the subchannel ID assigned for that device. The missing interrupt is listed where message 1 is the possible missing or pending interrupts. Message 1 is described below. The time interval is the time used by the missing interrupt handler to check for missing interrupt conditions. This is a value in minutes and hundredths of minutes, thus a value of 00001500 is a fifteen minute time interval.

Message 1

- Clear subchannel pending - Condition code 0 has been set for the clear subchannel and the subchannel is waiting to clear the I/O operation. It is reset when the device has been issued the clear signal.
- Halt subchannel pending - Condition code 0 has been set for the halt subchannel and the subchannel is waiting to halt the I/O operation. It is reset when the device has been issued the halt signal or when the subchannel is cleared.
- Start subchannel pending - Condition code 0 has been set for the start subchannel and the subchannel is waiting to start the I/O operation. It is reset when the device and subchannel become active or when the subchannel is cleared or suspended.
- I/O Request pending - A subchannel has issued an I/O interruption request which is pending until a CPU in the configuration accepts the request or a clear subchannel is issued.
- Missing primary status - A start subchannel has been issued and the subchannel is waiting for the primary status bit to be set indicating that primary status has been received. In the case of a start subchannel operation, the missing primary status is channel end.
- Missing secondary status - An I/O operation is in progress and the subchannel is waiting for the secondary status bit to be set indicating that secondary status

STCPOST Messages  
STCD28

has been received. In the case of a start subchannel operation, the missing secondary status is device end.

STCD29 SLH - day hh:mm:ss mm/dd/yy (yy.ddd)  
CHPID xx SUBCHANNEL ID xxxxxxxx  
DEV aaaa TYPE type JOBNAME - jobname CCW bb-cc-dddd  
CC e STAT ffgg RBC hhhh LIMITED CHANNEL LOGOUT - xxxxxxxx  
TYPE OF ERROR - error type  
TERMINATION BY - type  
TIME OF ERROR - statement

This is the output for the S-370-XA Subchannel Logout Handler record. The date and time are taken directly from the record and reflect the time at which the failure occurred. The Channel Path ID indicates the path that had the failure. The Subchannel ID is the ID assigned to that device number at IOCP GEN time. The device number, device type, and jobname are listed to help isolate the failure. Error data includes the failing CCW where bb is the command code, cc is the flags, and dddd is the byte count, the condition code 'e' for the START SUBCHANNEL, the STATUS where ff is the unit status, and gg is the channel status, and the residual byte count 'hhh'. In addition xxxxxxxx is the contents of the limited channel logout. This can be decoded using the limited channel logout description in the IBM Principles of Operation or 370 Reference Summary (yellow card). The error analysis contains the type of error which is the literal interpretation of the channel status byte. The type of termination is listed where 'type' is one of the following: INTERFACE DISCONNECT, STOP or STACK, SELECTIVE RESET, SYSTEM RESET, and I/O ERROR ALERT. The TIME OF ERROR is the point in the I/O sequence at which the error occurred. A further explanation of the time of error can be obtained in the 370 Principle of Operation under sequence code. There are five possible statements which can be issued:

- Command out sent but status not analyzed.
- Command accepted by device but no data transferred.
- At least one byte of data has been transferred.
- Command not sent or sent but not yet accepted.
- Command accepted but data transfer unpredictable.
- Could not be accessed

STCD30 CCH - day hh:mm:ss mm/dd/yy (yy.ddd)  
 DEV aaaa TYPE type JOBNAME - jobname CCW bb-cc-dddd  
 CSW e-ffgg-hhhh LIMITED CHANNEL LOGOUT - xxxxxxxx  
 TYPE OF ERROR - error type  
 TERMINATION BY - type  
 TIME OF ERROR - statement

This is the output for the Channel Inboard record. The date and time reflect the time at which the failure occurred. The device address, device type, and jobname are listed to help isolate the failure. Error data includes the failing CCW where bb is the command code, cc is the CCW flag byte, and dddd is the byte count, the CSW where e is the condition code for the START I/O, ff is the unit status, gg is the channel status, and hhhh is the residual byte count. In addition, xxxxxxxx is the contents of the limited channel logout. This can be decoded using the limited channel logout description in the IBM Principles of Operation or 370 Reference Summary (yellow card). The error analysis contains the type of error, which is the literal interpretation of the channel status byte, the type of termination, where type is one of the following: INTERFACE DISCONNECT, STOP or STACK, SELECTIVE RESET, SYSTEM RESET, and the point in the I/O sequence at which the error occurred. A further explanation of the time of error can be obtained in the 370 Principles of Operation under sequence code. There are seven possible statements that can be issued:

- While executing TIO
- Between command out and unit status return
- Command accepted but before data transfer
- Some data transfer - CSW command addr updated
- Command reject or command out not sent
- Command accepted - data transfer undetermined
- Could not be accessed

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STCD31 CCH SUMMARY

--DEV-----CMDCDE-----TITLE-----DATE-----TIME  
aaaa cc error description mm/dd/yy hh:mm:ss

This is the summary report of the Channel Inboard records located while scanning LOGREC. The summary information includes the device address aaaa, the command code cc, the error description and the date and time of the error. The error description is the written description of the channel status bits from the CSW. A line is printed for each record found. Up to 32 records can be summarized. This message only appears in SUMMARY mode.

STCD32 MDR SUMMARY

DEV aaaa VOLSER xxxxxx SEEKS nnnnnn MB READ nnnnnn  
RETRY nnnn ACC ERR nnnn CMD OVRN nnnn DATA OVRN nnnn  
- or -  
SDID xx ECC ERR nnnn CMD OVRN nnnn DATA OVRN nnnn

This is a summary of the MDR records by device. This message is printed for each device where aaaa is the device address and xxxxxx is the volume serial number. In addition, an accumulation of statistical information for that device is printed: the total number of SEEKS, the number of megabytes of data read (MB READ) by the device, the number of successful RETRY attempts, the Storage Director ID (3380), the ACCess ERRors, the number of ECC Correctable data checks (3380), the number of command overruns (CMD OVRN) and the number of data overruns (DATA OVRN). Up to 32 devices may be reported.



STCD33 MDR - day hh:mm:ss mm/dd/yy (yy.ddd)  
 DEV aaaa VOLSER vvvvvv SEEKS sssss MB READ rrrrrrrr  
 SDID xx CMD OVRN x ccc DATA OVRN x ddd ECC CORR DCKS eee

- or -

MDR - day hh:mm:ss mm/dd/yy (yy.ddd)  
 DEV aaaa VOLSER vvvvvv SEEKS sssss MB READ rrrrrrrr  
 RETRY DCKS dddddd CORR DCKS eeeee ACC ERRS aaa  
 CMD OVRN x ccc DATA OVRN x ddd CMD OVRN y ccc DATA OVRN y  
 ddd

- or -

MDR - day hh:mm:ss mm/dd/yy (yy.ddd)

DEV aaaa DEVTYPE 2305-2

-----SSD BUFFERED LOG DATA-----

0	1	2	3	4	5	6	7	8	DESCRIPTION
00	00	00	00	00	00	00	00	00	message text...

An MDR record has been processed. The first format is for 3380 type devices. The second format is for 3330 and 3350 type devices. The third format is for StorageTek 4305 devices.

STCD34 MIH - day hh:mm:ss mm/dd/yy (yy.ddd)

DEV	TYPE	VOLSER	MISSING INTERRUPT	TIME INT
aaaa	bbbb	xxxxxx	interrupt pending	nnnnnnnn

This is the Missing Interrupt Handler report scanned by the display function. Information about the missing interrupt is displayed where aaaa is the device address bbbb is the device type and xxxxxx is the volume serial number of the device. The possible values for 'interrupt pending' are: Channel End Pending, Device End Pending, C/E & D/E Pending, or I/O Request Pending. The time interval is the time used by MIH to check for interrupt pending conditions.

STCPOST Messages  
STCD35

STCD35 MIH SUMMARY

DEV	VOLSER	C/E	D/E	BOTH	IORP	RECORDS
aaaa	xxxxxx	bbb	ccc	ddd	eee	nnnn

- or -

MIH SUMMARY

DEV	VOLSER	HLT	STRT	CLR	IORP	MNT	PRI	SEC	RECORDS
aaaa	xxxxxx	bbb	ccc	ddd	eee	fff	ggg	hhh	nnnn

This is a summary of the Missing Interrupt Handler records by device. Device information is recorded where aaaa is the device address and xxxxxx is the volume serial number of the device. For S-370 MIH records each device is tracked for the number of missing Channel Ends (bbb), the number of missing Device Ends (ccc), the number of records where both channel end and device end were pending (ddd), and the number of missing I/O requests (eee). The total number of MIH records scanned (nnnn) for that device is also reported. For MIH S-370-XA records each device is tracked for the number of halt subchannels pending (HLT), the number of clear subchannels pending (CLR), the number of start subchannels pending (STRT), the number of missing primary status (PRI), and the number of missing secondary status (SEC). The number of records scanned is also reported. Up to 32 devices may be reported. This message only appears in SUMMARY mode.

STCD36 type OBR - day hh:mm:ss mm/dd/yy (yy.ddd)  
 JOBNAME - jobname VOLSER vvvvvv MSG - message-text  
 DEV aaaa TYPE tttt CCW bb-cc-dddd CC e STAT ffgg  
 RBC hhhh  
 SEEK ADDR cccc.hhhh.rr (HEX) -- cccc.hh.rrr (DECIMAL)  
 SENSE xx..xx

This is the detail OBR report that is displayed after scanning LOGREC. The date and time and jobname are reported from the actual OBR record and reflect the actual time of error. The 'type' of OBR report can be TAPE, PRTR, DASD or blank. Information displayed includes device address aaaa, the volser vvvvvv, and the device type tttt. The failing CCW is printed where bb is the command code, cc are the flags, and dddd is the byte count. The CSW or SCSW is decoded where e is the condition code (CC), ff is the unit status, gg is the channel status, and hhhh is the residual byte count. The last seek address is displayed for DASD OBR's where cccc is the logical cylinder hhhh is the logical head and rr is the record number. The seek address is not displayed in the TAPE OBR report. All twenty four sense bytes are displayed. The sense data is not displayed in the TAPE DEMOUNT record. The message text describes the type of OBR record (Permanent Error, Temporary Error, etc....)

STCD37 DASD OBR SUMMARY  
 CUA aaaa TYPE bbbb VOLSER vvvvvv  
 EQUIP CHK----DATA CHK---BOP---OVR---LOG---OTHER  
 TEMP PERM TEMP PERM MODE  
 nnnn nnnn nnnn nnnn nnn nnn nnnn nnnn

This report displays summary information accumulated by scanning OBR records in LOGREC. This summary information is listed by device where aaaa is the device address, bbbb is the device type, and vvvvvv is the volume serial number of that device. The total number of temporary and permanent equipment checks, data checks, bus out parity (BOP) errors, overruns (OVR), and other errors are displayed for a particular device. This message appears in SUMMARY and DETAIL modes.

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STCD38

```

STCD38 TAPE VOLUME SUMMARY      [ message text ]
DEV aaaa  VOLSER vvvvvv  JOBNAME - jobname SIO nnnnn
MTE/LRC   nnnn  OVERRUN      nnnn  6250 CORR      nnnn
EDC/CRC   nnnn  C/P COMPARE  nnnn  VEL CHG        nnnn
EVN/ECC   nnnn  WRT TR VRC    nnnn  WRT TM CHK     nnnn
READ TEMP nnnn  WRT TEMP     nnnn  READ PERM      nnnn
WRT PERM  nnnn  TRACK IN ERROR (xxxxxxxx)  MODE - xx

```

This is the tape volume summary report obtained by scanning error OBRs, demount OBRs, EOD OBRs, and counter overflow OBRs in LOGREC. If a demount record is not received for a volume, the message text indicates that no demount record was received, or if an EOD record is processed, the message text indicates this. Information displayed includes: date and time, device address, volume serial number, jobname, and START I/O count. Error counts reported are as follows:

```

MTE/LRC      -- Multi-track Error/Longitude Redundancy
               Check error
EDC/CRC      -- End Data Check/Cyclic Redundancy Check
               error
ENV/ECC      -- Envelope check/Error Correction
               Circuitry check
OVERRUN      -- Overrun
C/P COMPARE  -- Check/Parity compare error
WRT TR,VRC   -- Write Trigger Vertical Redundancy Check
               error
6250 CORR    -- 6250 Correction
VEL CHG      -- Velocity Change error
WRT TM CHK   -- Write Tape Mark Check
READ TEMP    -- Temporary read errors
WRITE TEMP   -- Temporary write errors
READ PERM    -- Temporary read errors
WRITE PERM   -- Temporary write errors
TRACK IN ERROR -- the tracks that were flagged in error
MODE         -- the mode set (CB = NRZI, C3 = PE, D3 =
               GCR)

```

STCD40 TAPE DEVICE SUMMARY

CUA	TEMPORARY	PERMANENT	SIO	
RDS	WRTS	RDS	WRTS	COUNT
aaaa	nnnn	nnnn	nnnn	nnnn

This is the TAPE DEVICE SUMMARY report that is an accumulation of tape OBR records. The information is displayed by device where aaaa is the device address. The total count of temporary and permanent reads and writes, along with the total START I/O count, is displayed. The START I/O count is also divided into the number of SIO's receiving temporary errors and the number of SIO's receiving permanent errors. Up to 32 devices may be displayed.

STCD41 PRINTER DEVICE SUMMARY

DEV	aaaa	TYPE	bbbb				
TEMP	BUS	BUFF	LOAD	PRT	QUAL	DATA	
WRTS	OUT	CHKS	CHKS	CHKS	CHKS	CHKS	
nnnn	nnnn	nnnn	nnnn	nnnn	nnnn	nnnn	

This is the PRINTER DEVICE SUMMARY report that is an accumulation of printer OBR records. The information is displayed by device where aaaa is the device address, and bbbb is the device type of the printer. The total count of temporary writes, bus out checks, buffer parity checks, load checks, print checks, quality or line position checks, and channel data checks are kept and printed for each device. Up to 32 devices may be reported. This message only appears in SUMMARY mode.

STCD70 DISPLAY MONITOR RUNNING -  
NEXT REPORT IN nnnnn MINUTES

The DISPLAY function is operating on monitor mode. The next report will be produced in nnnnn minutes.

STCD71 START DISPLAY MONITOR REPORT FOR hh:mm TO hh:mm

This is the start of the report for the time period hh:mm to hh:mm.

STCD72 END DISPLAY MONITOR REPORT FOR hh:mm TO hh:mm

This is the end of the report for the time period hh:mm to hh:mm.

**STCPOST Messages**  
**STCD73**

**STCD73 DISPLAY MONITOR TERMINATED - PLEASE RESTART**

The DISPLAY function has terminated due to an error reading the SYS1.LOGREC data set. This message is preceded by messages describing the error. The DISPLAY function should be restarted.

**STCD74 DISPLAY STOPPED BY OPERATOR**

The DISPLAY function is stopping because a STOP command was entered at the operator's console.

**STCD75 nnnnnnnn RECORDS MATCHED SELECTION PARAMETERS**

nnnnnnnn of the records processed matched the selection parameters.

**STCD76 SYS1.LOGREC HAS BEEN ZEROED**

The SYS1.LOGREC data set was zeroed while DISPLAY was 'sleeping'. Some data may have been lost.

**STCD77 nnnnnnnn RECORDS WERE PROCESSED**

nnnnnnnn records were added to SYS1.LOGREC while DISPLAY was 'sleeping'.

**STCD98 message text**

The DISPLAY function has detected a serious error. The text of this message indicates the nature of the error and the action that should be taken. This message is only issued in monitor mode.

**STCD99 message text**

The DISPLAY function has detected a critical error. The text of this message indicates the nature of the error and the action that should be taken. This message is only issued in monitor mode.

**STCF00 WRITE-READ DISK**

The WRDISK function will be executed on the devices listed by message STCF02.

**STCF01 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the WRDISK function.

STCF02 DDNAME aaaaaaaaa - CONFIGURED OK - ADDRESS bbbb  
VOLSER ddddd  
DEVICE TYPE cccc NUMBER OF TRACKS eeeee  
FIRST TRACK ffff.gggg LAST TRACK hhhh.iii  
[SEQUENTIAL PARAMETER FORCED]

WRDISK has sucessfully configured a test device. aaaaaaaaa  
is the DDname, bbbb is the device address, cccc is the  
device type, eeeee is the number of tracks allocated,  
ffff.gggg is the starting track number, and hhhh.iii is  
the ending track number.

STCPOST Messages  
STCF03

STCF03 WRDISK SUMMARY FOR DDNAME dd ADDR aa TYPE tt VOLSER vv

EACH TRACK WAS TESTED AN AVERAGE OF nnnnnnnn TIMES  
TOTAL NUMBER OF RECORDS WRITTEN nnnnnnnn  
TOTAL NUMBER OF RECORDS READ nnnnnnnn  
TOTAL NUMBER OF RECORDS PROCESSED nnnnnnnn  
TOTAL NUMBER OF ERRORS ENCOUNTERED nnnnnnnn

SUMMARY BY HEAD

HEAD NUMBER	RECORDS WRITTEN	RECORDS READ	TOTAL RECORDS	TOTAL ERRORS
aa (bb)	cccccc	dddddd	eeeeee	fffff
...				
aa (bb)	cccccc	dddddd	eeeeee	fffff

SUMMARY BY ERROR TYPE:

0X: xxxxxx  
...  
8X: xxxxxx  
OTHER: xxxxxx  
COMPARE: xxxxxx

The summary for this execution of WRDISK for this device is printed where dd is the ddname for the device, aa is the address for the device, tt is the type of device, and vv is the volume serial number. Each track tested by WRDISK was tested an average of nnnnnnnn times. nnnnnnnn is calculated by dividing the number of times any track was selected for testing by the number of tracks to be tested. The total number of records processed and errors encountered for all heads is also printed. 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 (aa) and hexadecimal (bb). The number of errors for each error type for all heads is printed in the SUMMARY BY ERROR TYPE table. OTHER errors are errors which are not format 0 through format 8. COMPARE errors are errors where the data read did not match the data written.

This message is issued for every device that was tested by the WRDISK function.

STCF04 NO DEVICES CONFIGURED

No test devices were configured for this execution of the WRDISK function. Verify that the test device DD cards are coded correctly.



STCF07 aaaaaaaaa bbbb ccccc -- DUMP OF TRACK FOLLOWS --

An error occurred on device dname aaaaaaaaa at address bbbb with volume serial number ccccc and the DUMP parameter was specified. A dump of the track with the error follows. See Appendix F for a description of the data formats.

STCF08 DDNAME ddddddd - NOT CONFIGURED - reason

The device with DDname ddddddd was not configured. Reasons for not configuring are:

1. NO DD CARD FOR TEST DEVICE - There is no DD card for the DDname shown. Verify that the DD card is coded correctly.
2. DD CARD NOT TYPE 2, 3 OR 4 - The test device DD card for this DDname is not a type 2, 3, or 4 DD card. Verify that the DD card is coded correctly.
3. OPEN FAILED - An open for the device failed. Verify that the DD card is coded correctly.
4. TEST DEVICE NOT DASD - The test device DD card for this DDname does not define a tape device. Verify that the DD card is coded correctly.
5. GET MAIN FOR I/O BUFFER FAILED - A getmain for the I/O buffer failed. Increase the size of the region or partition in which STCPOST is executing.
6. NO TRACKS ALLOCATED - The test device DD card for this DDname is a DD type 1 (zero space allocated). The DD type must be 2, 3, or 4.

STCF11 aaaaaaaaa bbbb ccccc -- IOLIMIT REACHED

The I/O limit specified by the IOLIMIT parameter has been reached for the device with dname aaaaaaaaa at address bbbb with volume serial number ccccc. Testing has terminated on that device but will continue on any other devices.

STCF12 aaaaaaaaa bbbb ccccc -- STOPPED AT OPERATOR REQUEST

WRDISK has detected that a stop command was entered at the operator's console. Testing on the test device with dname aaaaaaaaa at address bbbb with volume serial number ccccc has been stopped.

**STCPOST Messages**  
**STCF13**

**STCF13 aaaaaaaa bbbb cccccc -- ELIMIT REACHED OR UNRECOVERABLE  
I/O ERROR**

Testing on the test device with ddname aaaaaaaa at address bbbb with volume serial number cccccc has been terminated due to the number of permanent errors exceeding the maximum allowed by the ELIMIT parameter or due to an unrecoverable I/O error.

**STCF15 WRDISK, aaa, vvvvvv, NO ERRORS DETECTED**

WRDISK detected no errors while testing the device at address aaa, with volume serial number vvvvvv mounted.

**STCF16 WRDISK, aaa, vvvvvv, POSSIBLE DEVICE PROBLEM**

Correctable/temporary errors were detected by WRDISK while testing the device at address aaa with volume serial number vvvvvv mounted. The STCPOST printer output should be retained and given to the STC Field Engineer. This message indicates possible problems that should be investigated at the next scheduled maintenance period. This message does not indicate a problem that requires immediate attention.

**STCF17 WRDISK, aaa, vvvvvv, DEVICE ERRORS DETECTED**

Errors were detected by WRDISK while testing the device at address aaa with volume serial number vvvvvv mounted. The STCPOST printer output should be retained and given to the STC Field Engineer. The problems should be investigated as soon as possible.

**STCF20 dddddddd, aaaa, vvvvvv, TESTING TERMINATED ON THIS TRACK**

An error occurred while trying to fill the track with records. This error prevents further testing on this track from occurring. Testing on this track is terminated, however, this track may be selected for testing again. The device that this track is on is ddname dddddddd, address aaaa, and volume serial vvvvvv.

**STCF31 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write a data record.

**STCF32 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read a data record.

**STCF33 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to update a data record.

**STCF34 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read an updated data record.

**STCF35 I/O ERROR ...**

This is an STCPOST standard error message. An unrecoverable error occurred. An unrecoverable error is a channel error, intervention required, command reject or a device error other than unit check.

**STCF36 aaaaaaaaa bbbb ccccc -- ERROR LOOP REACHED**

An error occurred on the test device with ddname aaaaaaa at address bbbb with volume serial number ccccc and the maximum number of retries specified by the LOOP parameter has been reached without retry being successful.

**STCG00 WRITE-READ TAPE**

The WRTAPE function will be executed on the devices listed by message STCG02.

**STCG01 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly, or is invalid for the WRTAPE function.

**STCG02 DDNAME ddddd - CONFIGURATION OK - ADDRESS aaaa VOLSER ccccc**

The device with DDNAME ddddd at address aaaa with volume serial number ccccc was configured without error.

STCPOST Messages  
STCG03

STCG03 WRTAPE SUMMARY FOR DDNAME dddddddd ADDR aaaa VOLSER  
cccccc

PASSES EXECUTED: xxxxxxxx  
RECORDS PROCESSED: xxxxxxxx  
TAPE MARKS PROCESSED: xxxxxxxx

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

BYTES READ: xxxxxxxx  
BYTES WRITTEN: xxxxxxxx

TCU SERIAL NUMBER: i  
TU SERIAL NUMBER: j

The summary for this execution of WRTAPE for the device with ddname dddddd at address aaaa with volume serial number ccccc 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. In addition, the total number of bytes transferred and the number of bytes written and read is listed.

STCG04 NO DEVICES CONFIGURED

No test devices were configured for this execution of the WRTAPE function. Verify that the test device DD cards are coded correctly.

STCG05 GETMAIN FOR EXPECTED DATA BUFFER FAILED,  
DATA COMPARE NOT POSSIBLE

A getmain for a portion of memory to be used for data comparison failed. Data comparison can not be done. If you want to do data comparison, increase the size of the region or partition in which STCPOST is executing, and re-execute STCPOST.

STCG07 I/O ERROR ...

An I/O error occurred during configuration.

STCG08 DDNAME ddddd - NOT CONFIGURED - reason

The device with DDNAME ddddd was not configured. Reasons for not configuring are:

1. DD CARD NOT TYPE 5 - The test device DD card for this ddname is not a type 5 DD card. Verify that the DD card is coded correctly.
2. FILE PROTECTED - A test sequence with a write pass was specified but the tape is file protected. No testing will be done on this device.
3. 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 STCPOST is executing.
4. OPEN FAILED - An open for the device failed. Verify that the DD card is coded correctly.
5. OS LABEL ON TAPE VOLUME - The tape volume mounted on this device contains a valid OS tape label. Testing will not be done on this device.
6. NO DD CARD FOR TEST DEVICE - No device has been defined for this ddname. Verify that the test device DD card is coded correctly.
7. TEST DEVICE NOT TAPE - The test device DD card for this ddname does not define a tape device. Verify that the DD card is coded correctly.
8. NOT 9-TRACK DRIVE - The test device DD card for this ddname does not define a 9-track tape drive. Verify that the DD card is correctly coded.
9. I/O ERROR - An I/O error occurred during configuration. The error was described in message STCG07.

STCG11 aaaaaaaaa bbbb ccccc -- ALL PASSES COMPLETED

The number of passes specified by the NPASS parameter has been completed for the device with ddname aaaaaaaaa at address bbbb with volume serial number ccccc. Testing has terminated on that device but will continue on any other devices.

STCPOST Messages  
STCG12

STCG12 aaaaaaaa bbbb ccccc -- STOPPED AT OPERATOR REQUEST

WRTAPE has detected that a stop command was entered at the operator's console. Testing on the test device with ddname aaaaaaaa at address bbbb with volume serial number ccccc has been stopped.

STCG13 aaaaaaaa bbbb ccccc -- TERMINATED DUE TO ERROR CONDITION

Testing on the test device with ddname aaaaaaaa at address bbbb with volume serial number ccccc has been terminated due to a permanent error.

STCG20 ddn1 aaaa1 volser -- TAPE WRITTEN ON ddn2 aaaa2 den i j  
time date

This message identifies the tape drive that created the tape being read. volser is the volume serial number of the tape. The drive reading the tape is identified by ddn1 (ddname) and aaaa1 (drive address). The tape drive that created the tape is identified by ddn2 (ddname), aaaa2 (drive address), i (control unit serial number), j (tape drive serial number). den identifies the density of the tape. time (HH:MM:SS) and date (MM/DD/YY) identify when the write pass started on the creating drive if the current pass is a read forward. time and date identify when the write pass ended on the creating drive if the current pass is a read backward. Note: the tape unit may be attached to more than one control unit, however, WRTAPE will report only one of the control unit serial numbers.

STCG21 aaaaaaaa bbbb -- ppp PASS, INCORRECT STATUS ssss ON  
cc COMMAND

Incorrect status was received for an I/O operation to the device with ddname aaaaaaaa at address bbbb during a ppp pass. The actual status received was ssss. The command executed was cc.

STCG22 aaaaaaaa bbbb -- BOT LABEL MISSING, TAPE NOT WRITTEN BY  
WRTAPE

A read forward pass is being executed on the test device with ddname aaaaaaaa at address bbbb but the BOT label on the tape is not a BOT label that WRTAPE writes on a test volume. Testing on the device terminates.

**STCG23 aaaaaaaaa bbbb cccccc -- UNEXPECTED EOT**

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 tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. Testing on the test device terminates.

**STCG24 aaaaaaaaa bbbb cccccc -- EOT LABEL RECORD MISSING**

The tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted is missing the EOT label that WRTAPE writes on a test volume. Testing on the device terminates.

**STCG25 aaaaaaaaa bbbb cccccc -- BLOCK COUNT ERROR, EXPECTED dd, RECEIVED ee**

The number of blocks read (ee) does not compare with the number of blocks written (dd) as listed in the EOT label for the tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. This is the equivalent of an S237 abend. Testing on the test device continues.

**STCG26 aaaaaaaaa bbbb cccccc -- EOT LABEL RECORD MISSING**

During a read backward pass on the tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc 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 test device terminates.

**STCG27 aaaaaaaaa bbbb cccccc -- MISSING TM BEFORE EOT RECORD**

A read backward pass is being executed on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. The EOT label was read successfully but the next record on the tape was not the tape mark preceding the EOT record. Testing on the device terminates.

**STCPOST Messages**  
**STCG28**

**STCG28 aaaaaaaaa bbbb cccccc -- UNEXPECTED BOT**

A data record was expected but a BOT label was read (the tape mark separating the data records and the BOT record was missed) on a read backward pass of the tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. Testing on the test device terminates.

**STCG29 aaaaaaaaa bbbb cccccc -- BOT LABEL RECORD MISSING**

The tape on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted is missing the BOT label that WRTAPE writes on a test volume. Testing on the device terminates.

**STCG30 aaaaaaaaa bbbb cccccc -- READ BACKWARD PASS NOT POSSIBLE**

The last pass executed on the test device with ddname aaaaaaaaa at address bbbb with volume cccccc mounted was not a write pass or a read forward pass. A read backward pass can not be executed. The read backward pass is skipped. Testing on the test device continues.

**STCG31 aaaaaaaaa bbbb cccccc -- WRONG LENGTH RECORD, EXPECTED dd BYTES, RECEIVED ee BYTES, RECORD ff**

A record was read on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted that was not the length expected. WRTAPE expected record number ff to have dd bytes but ee bytes were transferred.

**STCG32 aaaaaaaaa bbbb -- EXCHANGE VOLUMES [, REPLY ANY CHARACTER WHEN DRIVE IS READY]**

An exchange point was reached for the test device with ddname aaaaaaaaa at address bbbb. If the first format of the message is issued, WRTAPE automatically resumes testing of the device when the device is made ready. If the second format of the message is issued, reply with any character when the tape volumes have been exchanged and the drive is made ready.

**STCG33 aaaaaaaaa bbbb -- OPEN FAILED, OPERATION NOT POSSIBLE**

An open for the test device with ddname aaaaaaaaa at address bbbb failed after the tape volumes were exchanged. Testing on the device terminates.



STCG34 aaaaaaaaa bbbb -- BOT LABEL RECORD MISSING, TAPE NOT  
WRITTEN BY WRTAPE

The first record on the tape mounted on the test device with ddname aaaaaaaaa at address bbbb after an exchange point was not a BOT label record written by the WRTAPE function. Testing on the device terminates.

STCG35 aaaaaaaaa bbbb cccccc -- SEQUENCE ERROR, EXPECTED xx nn,  
RECEIVED xx nn

A sequence error occurred on the test device with ddname aaaaaaaaa at address bbbb with volume serial number dddd mounted. WRTAPE expected an xx number nn, but read an xx, where xx is either 'RECORD' or 'TAPE-MARK' number nn.

STCG36 aaaaaaaaa bbbb cccccc -- ID FIELDS INCORRECT, RECORD dd  
FIRST 8 BYTES: ee..ee, LAST 8 BYTES: ff..ff

The ID fields (the first eight bytes and the last eight bytes) do not match for record dd on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. ee..ee are the first eight bytes and ff..ff are the last eight bytes of the record.

STCG37 aaaaaaaaa bbbb cccccc -- UNKNOWN RECORD READ --

A short record was read on the test device with ddname aaaaaaaaa at address bbbb with volume serial number dddd mounted. A dump of the record follows.

STCG38 aaaaaaaaa bbbb cccccc -- SEQUENCE ERROR, EXPECTED RECORD  
dd, RECEIVED RECORD ee

A sequence error occurred on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted. WRTAPE expected record dd but read record ee.

STCG39 I/O ERROR ...

This is an STCPOST standard error message. The actual data read from a record did not match the expected data for that record.

STCPOST Messages  
STCG41

STCG41 dddddddd aaaa cccccc dddd -- SUMMARY FOR WRITE PASS

BYTES WRITTEN: xxxxxxxx  
RECORDS WRITTEN: xxxxxxxx  
TAPE MARKS WRITTEN: xxxxxxxx

TEMPORARY ERRORS: xxxxxxxx  
PERMANENT ERRORS: xxxxxxxx

A write pass has been completed for the device with ddname dddddddd at address aaaa with volume serial number cccccc at density dddd. The total number of records and tape marks written and temporary and permanent errors encountered is listed.

STCG42 SUMMARY INFORMATION NOT KEPT FOR DRIVE aaaaaaaa AND VOLUME bbbbbb

The summary information for all passes for the test device with ddname aaaaaaaa and tape volume serial number bbbbbb is not being kept.

STCG43 dddddddd aaaa cccccc dddd -- SUMMARY FOR READ FORWARD PASS

BYTES READ: xxxxxxxx  
RECORDS READ: xxxxxxxx  
TAPE MARKS READ: xxxxxxxx

COMPARE ERRORS: xxxxxxxx  
SEQUENCE ERRORS: xxxxxxxx  
TEMPORARY ERRORS: xxxxxxxx  
PERMANENT ERRORS: xxxxxxxx

A read forward pass has been completed for the device with ddname dddddddd at address aaaa with volume serial number cccccc at density dddd. The total number of records and tape marks written and temporary, permanent, sequence and compare errors encountered is listed.

STCG44 dddddddd aaaa cccccc dddd -- SUMMARY FOR READ BACKWARD  
PASS

BYTES READ: xxxxxxxx  
RECORDS READ: xxxxxxxx  
TAPE MARKS READ: xxxxxxxx

COMPARE ERRORS: xxxxxxxx  
SEQUENCE ERRORS: xxxxxxxx  
TEMPORARY ERRORS: xxxxxxxx  
PERMANENT ERRORS: xxxxxxxx

A read backward pass has been completed for the device with ddname dddddddd at address aaaa with volume serial number cccccc at density dddd. The total number of records and tape marks written and temporary, permanent, sequence and compare errors encountered is listed.

STCG51 aaaaaaaaa bbbb cccccc dddd -- TEMPORARY ERROR --  
REC-N: ff REC-LEN gg N-RETRY: hh CMD: ii SIO CC: j  
STAT: kkkk CPU: 11 PATH: mmmm SENSE: nn..nn

A temporary error has occurred on the test device with ddname aaaaaaaaa at address bbbb with volume serial number cccccc mounted at density dddd where:

1. REC-N is the record number of the record on which the error occurred,
2. REC-LEN is the length of the record,
3. N-RETRY is the number of times the operation has been retried,
4. CMD is the channel command being executed,
5. SIO CC is the SIO condition code,
6. STAT is the unit and channel status from the CSW,
7. CPU is the CPU id of the CPU on which the error occurred,
8. PATH is the actual channel path on which the error occurred, and
9. SENSE is the sense bytes.

STCPOST Messages  
STCG52

STCG52 aaaaaaaaa bbbb ccccc dddd -- PERMANENT ERROR --  
REC-N: ff REC-LEN gg N-RETRY: hh CMD: ii SIO CC: j  
STAT: kkkk CPU: 11 PATH: mm  
SENSE: nn..nn  
DESC: oo..oo

A permanent error has occurred on the test device with  
ddname aaaaaaaaa at address bbbb with volume serial number  
cccccc mounted at density dddd where:

1. REC-N is the record number of the record on which the error occurred,
2. REC-LEN is the length of the record,
3. N-RETRY is the number of times the operation has been retried,
4. CMD is the channel command being executed,
5. SIO CC is the SIO condition code,
6. STAT is the unit and channel status from the CSW,
7. CPU is CPU id of the CPU on which the error occurred,
8. PATH is the actual channel path on which the error occurred,
9. SENSE is\*the sense bytes, and
10. DESC is a message describing the error. Possible messages and their meanings are:
  - a) CHANNEL STATUS ERROR - The channel status byte of the CSW indicated a channel type error.
  - b) ECB NOT 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.
  - c) 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 a permanent error.
  - d) FAILURE IN READ ERP - The error occurred during read error recovery.
  - e) FAILURE IN WRITE ERP - The error occurred during

write error recovery.

- f) PERMANENT READ ERROR - Read error recovery failed to recover from a temporary read error. The error is now a permanent error.
- g) PERMANENT WRITE ERROR - Write error recovery failed to recover from a temporary write error. The error is now a permanent error.
- h) UNKNOWN CCW FAILED - The failing CCW could not be determined and no recovery action could be taken.

Testing on the device terminates.

STCG61 aaaaaaaa bbbb ccccc dddd -- START eee PASS

An eee pass has been started on the test device with ddname aaaaaaaa at address bbbb with volume serial number ccccc mounted at density dddd. The type of pass (eee) is RDF for a read forward pass, RDB for a read backward pass or WRT for a write pass.

STCG62 aaaaaaaa bbbb ccccc dddd -- END eee PASS

An eee pass has ended on the test device with ddname aaaaaaaa at address bbbb with volume serial number ccccc mounted at density dddd. The type of pass (eee) is RDF for a read forward pass, RDB for a read backward pass or WRT for a write pass.

STCG63 ddn aaaa volser den -- TCU SERIAL: i, TU SERIAL: j

This message always follows message STCG61. i is the control unit serial number and j is the tape drive serial number. Note: the tape unit may be attached to more than one control unit, however, WRTAPE will report only one of the control unit serial numbers.

STCK100 STCPOST I/O CONFIGURATOR

The CONFIG function is executing.

STCK101 NO CPU ADDRESS SPECIFIED WITH CPU PARAMETER

The CPU parameter was specified, but no CPU address was coded on the control card.

**STCPOST Messages**  
**STCK102**

**STCK102 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the CONFIG function.

**STCK103 SPECIFIED CPU (x) IS NOT ONLINE**

CPU x was specified as the CPU to test, but CPU x is not online.

**STCK104 ENTER CHANNEL(S) TO BE TESTED OR 'END' TO TERMINATE**

Enter the channel(s) that CONFIG is to test, or END to terminate the CONFIG function.

**STCK105 OPERATOR REPLY - xx..xx**

The operator's reply to the preceding STCPOST message was xx..xx.

**STCK106 INVALID CHANNEL NUMBER OR SYNTAX (xx..xx)**

xx..xx is either an invalid channel number or the syntax is in error. Channel numbers must be one or two hexadecimal digits or two channel numbers separated by a dash (-). If a range is specified, the second channel number must be greater than the first channel number.

**STCK107 I/O INTERRUPTS CAN NOT BE DISABLED**

CONFIG has attempted to disable the CPU for I/O interrupts, but could not due to an outstanding I/O operation. CONFIG terminates.

**STCK108 CPU x CHANNEL TABLE**  
CHANNEL yy zz..zz

CHANNEL y<sup>..</sup>z<sup>..</sup>zz..zz

The status for the channels on CPU x that CONFIG is testing is displayed where yy is the channel number and zz..zz is:

- IS NOT OPERATIONAL - channel yy is not operational
- PRESENTED AN EXCESSIVE NUMBER OF INTERRUPTS - channel yy was busy with an interrupt pending an excessive number of times.
- HAD ERRORS WHILE STORING ITS ID - channel yy had errors while attempting to store its id.
- IS A BYTE MULTIPLEXER CHANNEL - channel yy is a byte multiplexer channel.
- IS A BLOCK MULTIPLEXER CHANNEL - channel yy is a block multiplexer channel.
- IS A SELECTOR CHANNEL - channel yy is a selector channel.

**STCK109 MAXIMUM NUMBER OF CHANNELS ALLOWED EXCEEDED**

More than thirty two channels were defined to CONFIG for testing.

**STCK110 MAXIMUM NUMBER OF DEVICES ALLOWED EXCEEDED**

More than 256 devices were defined to CONFIG for testing or were requested to be dropped from testing.

**STCK111 NO DEVICES SPECIFIED WITH DEVICE PARAMETER**

The DEVICES parameter was specified, but no devices were coded on the control card.

**STCK112 NO CHANNELS SPECIFIED WITH CHANNEL PARAMETER**

The CHANNELS parameter was specified, but no channels were coded on the control card.

**STCPOST Messages**  
**STCK113**

**STCK113 CPU x CHANNEL y ERROR ON STIDC INSTRUCTION -  
CC 1 STATUS z**

Channel y on cpu x had an error while storing its channel id. z is the unit and channel status bytes of the csw stored by the error.

**STCK114 CPU x DEVICE y ERROR ON TIO - CC 1 STATUS z  
[SENSE ss..ss]**

Device y on cpu x had an error on a TEST I/O instruction. z is the unit and channel status bytes of the CSW stored by the error. ss..ss is the sense information (if the error was unit check).

**STCK115 CPU x DEVICE y TESTING TERMINATED**

Device y on cpu x has been dropped from testing due to an excessive number of errors.

**STCK116 CPU x DEVICE y ERROR ON TIO - CC 2**

A Test I/O to device y on CPU x resulted in condition code 2. Condition code 2 is an error as the channel should not be busy at this time.

**STCK117 MAXIMUM NUMBER OF DEVICES ALLOWED EXCEEDED - FIRST  
256 DEVICES WILL BE TESTED**

During channel testing, more than 256 devices were found that met the testing criteria. Only the first 256 devices are tested.



STCK118 CPU x DEVICE TABLE  
xxxxy xxxxy xxxxy ...  
...  
xxxxy xxxxy xxxxy ...

\* = DEVICE IS NOT READY AND WILL NOT BE TESTED  
+ = DEVICE IS AN SAE DEVICE AND WILL NOT BE TESTED  
# = DEVICE IS NOT OPERATIONAL AND WILL NOT BE TESTED  
% = DEVICE HAD AN UNRECOVERABLE ERROR AND WILL NOT  
BE TESTED

The device table for cpu x is printed where xxxx is the device address and y is:

\* - if the device is not ready.  
+ - if the device is defined to SAE or is in use by SAE.  
# - if the device is not operational (this only appears if the DEvice parameter was specified.  
% - if the device had an error during testing (this only appears if the DEvice parameter was specified.

STCK119 ENTER ADDRESS OF CPU TO TEST OR 'END' TO TERMINATE

CONFIG is executing on an MP/AP or dyadic system. The cpu to which the channels to be tested are attached must be specified, or enter END to terminate CONFIG.

STCK120 INVALID REPLY (xx..xx)

The reply xx..xx to the preceding STCPOST message was invalid. Either the format of the data or the data was incorrect.

STCK121 TESTING CPU x MODEL y VERSION z S/N a

CONFIG is testing CPU x which is a model y version z and has a serial number of a.

STCK122 CHANNEL OR DEVICE PARAMETER REQUIRED IF CPU PARMETER IS SPECIFIED

The CPU parameter was specified but the DEVICES or CHANNELS parameter was not specified. This is an error. The CPU parameter can not be specified unless either the DEVICES or CHANNELS parameter is specified.

STCPOST Messages  
STCK123

STCK123 CPU PARAMETER REQUIRED IF CHANNEL OR DEVICE PARAMETER IS SPECIFIED ON AN AP/MP SYSTEM

CONFIG is executing on an MP/AP or dyadic system and the CHannels or DEVICES parameter was specified but the CPU parameter was not. This is an error. The CPU parameter must be specified if CONFIG is executing on an MP/AP or dyadic system and either the DEVICES or CHannels parameter is specified.

STCK124 ENTER DEVICES TO DROP OR 'GO' TO CONFIGURE OR 'END' TO END

Enter the devices that are to be dropped from further testing, GO to configure the devices listed by message STCK118, or END to end the CONFIG function.

STCK130 CPU x DEVICE y  
SENSE ID = ii..ii  
SENSE BYTES a - b = ss..ss  
[DEVICE CHARACTERISTICS BYTES m - n = oo..oo]  
DEVICE TYPE = e MODEL = f [CONFIGURED AS TYPE g MODEL p]  
CU TYPE = j MODEL = k  
[VOL SER = l VTOC LOCATION = cccc.hhhh.rr]

The information listed is for device y on cpu x where ii..ii is the data returned by a sense id (E4) command (or NOT AVAILABLE if not supported by the device), ss..ss is sense bytes a through b, oo..oo is the device characteristics (only printed if the device is an FBA DASD device), e and f are the device type and model (or \*UNKN\* if it could not be determined), g and p are the device type and model that the device is emulating (if a 3350 type device), j and k are the control unit type and model (or \*UNKN\* if it could not be determined), l is the volume serial number (if DASD) and cccc.hhhh.rr is the VTOC location (cylinder.head.record if CKD DASD or BLOCK nnnn if FBA DASD).

STCK131 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while executing a sense (04), sense id (E4) or read device characteristics (64) command.

STCK132 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while executing a seek (07) command to cylinder 808.

**STCK133 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while executing a 2305 read and reset buffered log (24) command.

**STCK134 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the volume label record (cylinder 0 head 0 record 3 or block 1) on a DASD device.

**STCK140 CPU IS IN XA MODE - CONFIG FUNCTION NOT ALLOWED**

The CPU is in XA mode. The CONFIG function can only be executed on a CPU that is in 370 mode.

**STCK200 through STCK299**

Refer to the STCPOST Friend Function Reference Manual FE-013.

**STCZ00 through STCZ99**

See the STCPOST STAND-ALONE PROGRAMS REFERENCE MANUAL SE-010.

**STC001 FILE xxxxxxxx FAILED TO OPEN - CONTROL CARD EDITOR INVOKED**

An open for the control card input dataset failed. The Control Card Editor will be invoked.

**STC002 HIGHEST RETURN CODE WAS nn**

This is the last message issued by STCPOST prior to normal termination. The highest return code encountered during execution was nn. This return code is returned to the system (calling program).

**STC003 xx..xx IS NOT A VALID FUNCTION NAME**

The last control card listed has requested a function that is not known. Check the control card for the proper spelling of the function desired.

STCPOST Messages  
STC004

STC004 ff..ff STARTED AT hh.mm.ss

or

ff..ff ENDED AT hh.mm.ss, RETURN CODE nn,  
EXCP COUNT m, ENVIRONMENTAL SENSE COUNT i  
LAST j OCCURRENCES OF ENVIRONMENTAL SENSE DATA ARE--  
xx..xx  
xx..xx

The function ff..ff started or ended at time hh.mm.ss (hours.minutes.seconds). The return code for the last function was nn. The function performed m EXCPs to the test device. Environmental sense data was received i times. If the test device is a 33XX type device the last j occurrences of environmental sense data xx..xx are listed.

STC005 CONTROL CARD ERROR(S)

One or more control card errors were found on the last control card. This message is preceded by a message(s) indicating the error.

STC006 OPTION NOTERMINATE IN EFFECT

The NOTERMINATE option is in effect. The STCPOST Online Control Card Editor will be entered at the end of the current control card string. Option NOTERMINATE will remain in effect until option TERMINATE is specified.

STC007 OPTION REPEAT=nnnnn IN EFFECT

Option REPEAT is in effect while a control card set is being processed. The current value of nnnnn is the number of times to repeat the current control card set. This message is issued each time the control card set is repeated. The value of nnnnn is decremented each time the control card set is executed. Execution ends when the value of nnnnn equals zero.

**STC008 MISSING CONTINUATION CARD  
or  
EXCESSIVE PARAMETERS OR PARAMETER LENGTH**

In the first form a control card indicated that the function parameters were continued on the next card but end-of-file occurred when STCPOST attempted to read the next card.

In the second form the last control card contains more than thirty one parameters, or the total of all parameter characters exceeds 512. Check for missing or extra blanks or commas separating the parameters.

**STC009 EXEC PARM FIELD INVALID**

The value specified in the JCL EXEC card PARM field is invalid. The PARM field is used to specify a three digit SYSPRINT page line count, an eight character ddname for the print output file, an eight character ddname for the control card input file and a sixteen character Control Card Set name.

**STC010 PARAMETER ERROR**

The xx.xx parameter is coded incorrectly, or is invalid for the OPTION function.

**STC011 OPTIONS IN EFFECT--**

The current settings of the OPTION function parameters are listed. See the OPTION function description for the meaning of the listed options.

**STC012 OPTION REPEAT REJECTED -- INCORRECT CONTROL CARD SOURCE**

The option REPEAT has been rejected. The control card source must be the Online Control Card Editor's control card buffer.

**STC013 OPTION TERMINATE REJECTED -- REMOTE FUNCTION IS ACTIVE**

Option TERMINATE was specified during a remote session. The TERMINATE option is invalid while a remote session is in progress.

STCPOST Messages  
STC020

STC020 DEV aaaa ECB ee CSW b-cccc-dddd SNS ssss FLG ffff  
SEEK xxxx.xxxx.xx YXFM gg YXFLAG hh YXCPU ii YXUA jjjj  
YXSNS kk..kk  
CCW(S) ll-mm-nnnn ...

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 where:

1. aaaa is the device address,
2. ee is the ECB completion code,
3. b-cccc-dddd is the SIO condition code (b) and the unit and channel status (cccc) and residual byte count (dddd) from the CSW,
4. ssss is sense bytes 0 and 1,
5. ffff is the IOB flag bytes,
6. xxxx.xxxx.xx is the seek address cylinder.head.record in hex,
7. gg is the DASD file mask byte,
8. hh is the I/O appendages flag byte,
9. ii is the CPU id on which the operation occurred,
10. jj is the actual path used for the operation,
11. kk..kk are the 24 sense bytes (if available), and
12. ll-mm-nnnn is the command code (ll), the flag byte (mm) and the byte count (nnnn) for each CCW in the CCW chain (the format of the last CCW executed is ll\*mm\*nnnn).

STC021 TEST DEVICE OPEN-- aaaaaaaaa, bbbb, cccccc, dddddddd,  
eeee.eeee, ffff.ffff, gggggggg

The OPTION function IOSTAT parameter was specified.  
STCPOST lists the results of a successful open request  
where:

1. aaaaaaaaa is the ddname that was opened,
2. bbbb is the device address,
3. cccccc is the volume serial number mounted on the device,
4. dddddddd is the device type,
5. eeee.eeee is the cylinder.head (in hex) of the start of the first data set extent (if DASD), and
6. ffff.ffff is the cylinder.head (in hex) of the end of the first data set extent (if DASD).
7. gggggggg is the number of tracks in the data set extent.

STC022 TEST DEVICE CLOSE-- aaaaaaaaa

The OPTION function IOSTAT parameter was specified.  
STCPOST indicates that a close request for ddname aaaaaaaaa  
was successful.

STCPOST Messages  
STC023

STC023 DEV aaaa ECB ee CSW b-cccc-dddd SNS ssss FLG ffff  
SEEK xxxx.xxxx.xx YXFM gg YXFLAG hh YXCPU ii YXUA jjjj  
YXSNS kk..kk  
CCW(S) ll-mm-nnnn ...

The IOSTAT parameter of the OPTION function was specified. This message lists the I/O status for an I/O operation prior to being posted as completed where:

1. aaaa is the device address,
2. ee is the ECB completion code,
3. b-cccc-dddd is the SIO condition code (b) and the unit and channel status (cccc) and residual byte count (dddd) from the CSW,
4. ssss is sense bytes 0 and 1,
5. ffff is the IOB flag bytes,
6. xxxx.xxxx.xx is the seek address cylinder.head.record in hex,
7. gg is the DASD file mask byte,
8. hh is the I/O appendages flag byte,
9. ii is the CPU id on which the operation occurred,
10. jj is the actual path used for the operation,
11. kk..kk are the 24 sense bytes (if available), and
12. ll-mm-nnnn is the command code (ll), the flag byte (mm) and the byte count (nnnn) for each CCW in the CCW chain (the format of the last CCW executed is ll\*mm\*nnnn).

STC024 I/O OPERATION FOR DEVICE aaaa POSTED BY SAE MIH -  
SEE SAE CONSOLE MESSAGES SAE117 AND SAE118

The SAE Missing Interrupt Handler (MIH) has posted an STCPOST I/O operation completed. This message will not appear unless STCPOST is running with SAE. This message is normally followed by an error message from the STCPOST function that is executing on device aaaa. Also see SAE console messages SAE117 and SAE118.



**STC030 VARY A PATH ONLINE FOR DEVICE aaaa AND REPLY ANY CHARACTER**

No paths are online for device aaaa. Vary a path online and reply with any character. If no paths can be put online, STCPOST must be cancelled.

**STC040 OPERATOR 'STOP' COMMAND RECEIVED**

STCPOST has detected that a stop command was entered at the operator's console. STCPOST terminates at the next available stop point. The next stop point is dependent on the function being executed.

**STC041 NO CONTROL CARDS RECEIVED**

The control card file contained no control cards. Verify that the SYSIN DD statement is present and coded correctly, and that it is followed by one or more STCPOST function control cards.

**STC042 xx..xx RETURN CODE GREATER THAN ZERO**

The return code from the xx..xx function was greater than zero. This condition indicates an error that does not allow STCPOST to function properly. STCPOST terminates immediately. Previous messages should have indicated the errors that resulted in the return code being greater than zero. Correct these errors and re-execute STCPOST.

**STC043 LAST RETURN CODE GREATER THAN 'TESTRC'**

The return code from the last function executed was greater than the return code allowed by the TESTRC parameter of the OPTION function. STCPOST terminates immediately.

**STC044 STOP COMMAND RECEIVED**

STCPOST is terminating because a stop command was entered at the operator's console. All STCPOST control cards may not have been processed.

**STC045 ENTER ''STOP'' TO STOP STCPOST OR NULL TO CONTINUE'**

Enter 'STOP' to stop the execution of STCPOST or null to continue execution of STCPOST.

**STCPOST Messages**  
**STC046**

**STC046 INVALID RESPONSE - ENTER ''STOP'' TO STOP OR NULL TO CONTINUE**

The response to message STC045 was neither STOP nor null. Enter STOP to stop STCPOST or null to continue.

**STC049 PARM= ...**

A parm field has been specified on the JCL EXEC card. The contents of the parm are displayed as entered.

**STC050 DEALLOCATING OFFLINE DEVICE aaaa**

STCPOST is deallocating the offline device at aaaa which was allocated by the DEFINE function.

**STC091 STCPOST x.xx HAS EXPIRED**

STCPOST version x.xx (a field test version) is being executed after the expiration date. This message is followed by message STC093. Install the current field test or released version of STCPOST.

**STC092 STCPOST x.xx IS EXECUTING ON AN UNAUTHORIZED SYSTEM**

STCPOST version x.xx (a field test) is being executed on a system that it was not configured to execute on. This message is followed by message STC093. Install a field test version that is configured for this system or install the latest released version.

**STC093 ENTER 'xx..xx' TO CONTINUE EXECUTION**

This message is preceded by message STC091 or STC092. Reply with 'xx..xx' to continue execution of STCPOST. Any other reply terminates STCPOST.

**STC095 xxxxxxxx LOADED AT aaaaaa**

The OPTION function BALRWAIT parameter was specified. aaaaaa is the storage address where the beginning of module xxxxxxxx was loaded.

**STC096 GETMAIN, ssssss, aaaaaa**

The OPTION function TRACE parameter was specified. aaaaaa is the storage address of an area of ssssss bytes allocated by a getmain request.

**STC097 FREEMAIN, ssssss, aaaaaa**

The OPTION function TRACE parameter was specified. aaaaaa is the storage address of an area of ssssss bytes returned by a freemain request.

**STC098 PROGRAM ERROR x, SEE STCPOST REFERENCE MANUAL, SE-001**

A program error occurred executing the last function. x describes the error and is defined as follows:

- 0 - Not used. Contact FE Software Support
- 1 - Getmain/freemain problem. Contact FE Software Support
- 2 - Test device open/close problem. Contact FE Software Support
- 3 - Write to operator problem. Contact FE Software Support
- 4 - The STCPOST program modules are not at the proper level. The STCPOST main program (STCPOST) may not be at the same level as the function modules (STCPOSTx and STCPSTxx). Insure that all older versions of STCPOST have been removed from the system.
- 5 - The field test version of STCPOST being executed has expired. Install the latest version of STCPOST. Once a field test has expired, STCPOST will execute one function and abend with this code.
- 6 - The DOS/VSE version of STCPOST is not executing in virtual storage. Check the STCPOST job JCL.
- 8 - The DOS/VSE version of STCPOST encountered an error while loading an STCPOST module. Contact FE Software Support.
- 9 - Option ABEND is in effect and the specified trace point ID was reached.

STCPOST terminates immediately.

**STC099 TRACE POINT xxxx**

The OPTION function TRACE parameter was specified and trace point xxxx was encountered.

**STCPOST Messages**  
**STC100**

**STC100 VOLSCAN -- DEVICE ADDRESS aaa VOL SER vvvvvv**  
**DEVICE TYPE xx..xx**  
**[DEVICE IS A 4305 IN 3380 MODE]**

The VOLSCAN function is executed on the device at address aaa with volume serial vvvvvv mounted. The device type xx..xx is: 3330-1 (3330 Mod 1), 3330-11 (3330 Mod 11), 3350 C1 (3350 in 3330 mod 1 compat mode), 3350 C11 (3350 in 3330 mod 11 compat mode), 3350 N (3350 in native mode), or 3380 (3380)

**STC101 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the VOLSCAN function.

**STC102 I/O ERROR ...**

This is an STCPOST standard error message. An I/O error occurred while attempting to execute a sense (04) command.

**STC103 VOLSCAN TERMINATED -- VM/370 MINI-DISK DETECTED**

The VOLSCAN function terminated because the end of a VM/370 mini-disk was detected.

**STC104 INVALID CLIMIT OR HLIMIT PARAMETER**

The value specified for the CLIMIT or the HLIMIT parameter is not valid for the device being tested.

**STC105 TEST DEVICE FAILED TO OPEN OR NOT DASD**

The test device failed to open or the test device is not a DASD device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC106 I/O ERROR ...**

This is an STCPOST standard error message. 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.

STC107 VOLSCAN SUMMARY --

ERRORS BY HEAD:

HEAD	ERRORS	TOTAL DEFECT SKIPS	TOTAL TRACKS WITH DEFECT SKIPS
n (mm)	xxxxxx	xxxxxx	xxxxxx
· · ·			
n (mm)	xxxxxx	xxxxxx	xxxxxx

ERRORS BY TYPE:

0X: xxxxxx  
· · ·  
8X: xxxxxx  
OTHER: xxxxxx

This message prints a table of errors by head and a table of errors by type. 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 both in decimal (n) and in hexadecimal (mm). The ERRORS BY TYPE table lists the total number of errors for all tracks scanned for each error type. OTHER errors are errors which are not format 0 through format 8.

STC108 HEAD/CYLINDER ERROR SUMMARY --

HEAD	CYLINDER
0 (00)	ccc ccc ccc ...
· · ·	
n (mm)	ccc ccc ccc ...

This message prints a table of cylinders (ccc) with errors by head. The head number is listed in both decimal (n), and hexadecimal (mm). The message TABLE OVERFLOW indicates that more errors occurred than the table could hold.

STC109 OPERATOR 'STOP' COMMAND RECEIVED

A stop command entered at the operator's console was accepted by the VOLSCAN function. VOLSCAN terminates.

**STCPOST Messages**  
**STC110**

**STC110 VOLSCAN TERMINATED -- FATAL ERROR DETECTED**

VOLSCAN is unable to continue because an unrecoverable error occurred. An unrecoverable error is condition code 2 or 3, a channel error, or intervention required.

**STC111 VOLSCAN, aaa, vvvvvv, NO ERRORS DETECTED**

No errors were detected by the VOLSCAN function on the device at address aaa with volume serial number vvvvvv mounted.

**STC112 VOLSCAN, aaa, vvvvvv, POSSIBLE DEVICE PROBLEM**

Correctable/temporary errors were detected by VOLSCAN on the device at address aaa with volume serial number vvvvvv mounted. The printer output should be retained and given to the STC Field Engineer. This message indicates possible problems that should be investigated at the next scheduled maintenance period. This message does not indicate a problem that requires immediate attention.

**STC113 VOLSCAN, aaa, vvvvvv, DEVICE ERRORS DETECTED**

Device errors were detected by VOLSCAN on the device at address aaa with volume serial number vvvvvv mounted. The printer output should be retained and given to the STC Field Engineer. The problems detected should be investigated as soon as possible.

**STC114 UNABLE TO PERFORM CE CYLINDER SCAN**

The CE cylinder could not be scanned due to an error in the parameter list. Notify STC FE Software Support.

**STC115 I/O ERROR ...**

This is an STCPOST standard error message. An I/O error occurred while attempting to execute a sense id (E4) command.

**STC1xx cccc.hhhh (ccc.hh) -- message text for VOLSCAN messages**

The message format of VOLSCAN prints a message number followed by the address of THIS track in decimal notation, followed by the hexadecimal equivalent in parentheses. The message text describes the type of error or condition of THIS track. Some errors print additional error information.

STC120 cccc.hhhh (ccc.hh) -- ERROR READING ALTERNATE TRACK  
ALTERNATE TRACK SHOULD BE  
cccc.hhhh (ccc.hh)  
CPUID=aa PATH=bbbb STATUS=cccc ECB=dd  
SENSE=ee..ee

An error occurred attempting to read the HA and RQ 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 where aa is the CPU id, bbbb is the actual path the error occurred on, cccc is the unit and channel status from the CSW, dd is the ECB completion code and ee..ee is the 24 sense bytes.

STC121 cccc.hhhh (ccc.hh) -- ERROR READING TRACK  
CPUID=aa PATH=bbbb STATUS=cccc ECB=dd  
SENSE=ee..ee

An error occurred while reading the track. Error information is printed where aa is the CPU id, bbbb is the actual path the error occurred on, cccc is the unit and channel status from the CSW, dd is the ECB completion code and ee..ee is the 24 sense bytes.

STC122 cccc.hhhh (ccc.hh) -- ERROR READING HA/R0

An error occurred reading the HA and R0 of this track.

STC123 cccc.hhhh (ccc.hh) -- ERROR READING RECORD nnn (nn)

An error occurred reading record number nnn (decimal) or nn (hex) of this track.

STC124 cccc.hhhh (ccc.hh) -- TRACK IS FLAGGED DEFECTIVE  
ALTERNATE TRACK IS cccc.hhhh (ccc.hh)

This track is flagged as a defective track, and the alternate track assigned is listed in decimal and hexadecimal.

STC125 cccc.hhhh (ccc.hh) -- TRACK IS DEFECTIVE ALTERNATE

This track is an alternate track that is flagged as defective.

STCPOST Messages  
STC126

STC126 cccc.hhhh (ccc.hh) -- ERROR READING DEFECTIVE HA/R0  
DEFECTIVE TRACK IS cccc.hhhh (ccc.hh)

This track is an alternate track and there was an error while reading the HA/R0 of the defective track assigned to it. The address of the defective track is listed in decimal and hexadecimal formats.

STC127 cccc.hhhh (ccc.hh) -- ILLEGAL DEF/ALT PAIR  
Two possible conditions may exist:

- This track was flagged as defective, but the alternate track pointed to does not point back to this defective track.
- This track is an assigned alternate, but the defective track pointed to by this alternate track does not point back to this alternate.

STC128 cccc.hhhh (ccc.hh) -- RECORD NUMBER NOT STANDARD  
COUNT FIELD=cccchhhrrkkddd

The count field of the record read was not standard format. The actual record count field is printed where:

cccc - Cylinder address  
hhhh - Head address  
rr - Record number  
kk - Key length  
dddd - Data length

Possible conditions that may exist are as follows:

1. R0 is a file mark (data field length equals zero),
2. 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).



STC129 cccc.hhhh (ccc.hh) -- HA/R0 NOT STANDARD  
HA=ffcccchhhh  
COUNT FIELD=cccchhhhrrkkdddd

Home Address (HA) and Record Zero (R0) were read without error, but were not standard format. Possible conditions that may exist are:

- 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 HA and R0 count field actually read are printed where:

ff - Flag byte  
cccc - Cylinder address  
hhhh - Head address  
rr - Record number  
kk - Key length  
dddd - Data length

STC130 cccc.hhhh (ccc.hh) -- NO ERROR WHEN READING INDIVIDUAL RECORDS

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 re-occur.

STC131 cccc.hhhh (ccc.hh) -- LOOP COUNT REACHED

The maximum number of retries specified by the LOOP parameter has been reached without retry being successful. VOLSCAN will terminate scanning of the current record and proceed to the next record to be scanned.

STC132 cccc.hhhh (ccc.hh) -- TRACK IS AN ASSIGNED ALTERNATE DEFECTIVE TRACK IS cccc.hhhh (ccc.hh)

This track is an assigned alternate track, and the defective mate to which this track is assigned is listed.

STCPOST Messages  
STC133

STC133 cccc.hhhh (ccc.hh) -- ERROR ON xx..xx

An error occurred attempting to obtain the defect skip data for this track. For a 3350 type device, xx..xx is READ HA/SENSE. For a 3380 type device, xx..xx is DIAG READ HA.

STC134 cccc.hhhh (ccc.hh) -- ERROR LIMIT REACHED, SKIPPING TO NEXT TRACK

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. Scanning of that track terminates and scanning of the next track begins.

STC135 ERROR LIMIT REACHED

The number of errors encountered while executing VOLSCAN RANDOM has exceeded the maximum allowed by the ELIMIT parameter. Testing terminates.

STC150 cccc.hhhh (ccc.hh) -- DS3=xxxx DS2=xxxx DS1=xxxx

This track of a 3350 type device was scanned and the defect skip information was read from Home Address and printed. DS1 is the location of the first defect on the track. DS2 is the location of the second defect on the track. DS3 is the location of the third defect on the track.

STC151 cccc.hhhh (ccc.hh) -- DS1=xxxx DS2=xxxx ... DS7=xxxx

This track of a 3380 type device was scanned and the defect skip information was read from Home Address and printed. DS1 is the location of the first defect on the track, DS2 is the location of the second defect on the track, ... , DS7 is the location of the seventh defect on the track.

STC152 cccc.hhhh (ccc.hh) -- DEFECTS SKIPS NOT AVAILABLE

The defect skip data for this track is not available due to errors. This message is preceded by message STC133 which describes the error.

STC160 SENSE ID = ff cccc mm dddd gg

A Sense ID (also known as Sense I/O type) command (x'E4') was issued to the test device. The data, if any, returned by this command is displayed in this message. If the test device command rejects this command, or if the first byte of data returned is not FF (hex), or if the number of bytes returned is other than seven, or if an I/O error occurs, this message indicates 'NOT AVAILABLE'. If an I/O error (other than command reject) occurs, it is reported by message STC115. The sense ID data is printed where:

ff - FF (hex).  
cccc - control unit type.  
mm - control unit model.  
dddd - device type.  
gg - device model.

STC200 WRITE-READ -- DEVICE ADDRESS aaa, VOL SER vvvvvv,  
DEVICE TYPE tttt  
nnnnn TRACKS, FIRST TRACK IS cccc.hhhh, LAST TRACK  
IS dddd.eeee

The WRTREAD function is executed on the device at address aaa with volume serial number vvvvvv mounted, which is a type tttt device. nnnnn is the number of tracks to be tested starting at track cccc.hhhh and ending at track dddd.eeee.

STCPOST Messages  
STC201

STC201 WRITE-READ SUMMARY --

EACH TRACK WAS TESTED AN AVERAGE OF nnnnnnnn TIMES  
TOTAL NUMBER OF RECORDS WRITTEN nnnnnnnn  
TOTAL NUMBER OF RECORDS READ nnnnnnnn  
TOTAL NUMBER OF RECORDS PROCESSED nnnnnnnn  
TOTAL NUMBER OF ERRORS ENCOUNTERED nnnnnnnn

SUMMARY BY HEAD

HEAD NUMBER	RECORDS WRITTEN	RECORDS READ	TOTAL RECORDS	TOTAL ERRORS
aa (bb)	cccccc	dddddd	eeeeee	fffff
...				
aa (bb)	cccccc	dddddd	eeeeee	fffff

SUMMARY BY ERROR TYPE:

0X: xxxxxx  
...  
8X: xxxxxx  
OTHER: xxxxxx  
COMPARE: xxxxxx

The summary for this execution of WRTREAD is printed. Each track tested by WRTREAD was tested an average of nnnnnnnn times. nnnnnnnn is calculated by dividing the number of times any track was selected for testing by the number of tracks to be tested. The total number of records processed and errors encountered for all heads is also printed. 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 (aa) and hexadecimal (bb). The number of errors for each error type for all heads is printed in the SUMMARY BY ERROR TYPE table. OTHER errors are errors which are not format 0 through format 8. COMPARE errors are errors where the data read did not match the data written.

STC202 NO TRACKS ALLOCATED

The current test data set has zero tracks allocated. One or more tracks are required to be allocated for the WRTREAD function.

**STC203 GETMAIN FOR I/O BUFFER FAILED**

A Getmain macro for a 20K byte I/O buffer failed. Increase the size of the region or partition in which STCPOST is being executed and rerun the job.

**STC204 TEST DEVICE FAILED TO OPEN OR NOT DASD**

An open for the test device failed or the test device is not a DASD device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC205 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the WRTREAD function.

**STC206 BLKSIZE SPECIFIED LARGER THAN DEVICE ALLOWS, SET TO MAXIMUM FOR DEVICE**

The blocksize specified by the BLKSIZE parameter is larger than the maximum allowed for the test device. The blocksize will be set to the maximum allowed for the device.

**STC207 DUMP OF TRACK FOLLOWS --**

An error occurred and the DUMP parameter was specified. A dump of the track follows. See the STCPOST REFERENCE MANUAL FE-001 for a description of the dumped data format.

**STC208 TEST DEVICE DD CARD NOT TYPE 1, 2, 3 OR 4**

The test device DD card is not a type 1, 2, 3 or 4 DD card. WRTREAD requires space on which to write. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC209 HLIMIT NOT WITHIN DATASET**

The HLIMIT parameter specifies a head number that is not contained in all cylinders of the test data set.

**STC210 ERROR LIMIT REACHED**

The maximum number of errors allowed, as specified by the ELIMIT parameter, has been reached. The WRTREAD function terminates.

**STCPOST Messages**  
**STC211**

**STC211 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write a data record.

**STC212 SEQUENTIAL PARM FORCED**

The number of tracks allocated for testing is less than one cylinder. Sequential track testing will be done.

**STC213 NO DD CARD FOR TEST DEVICE**

Check that the current test device ddname is included in the JCL and correctly coded. Verify that the ddname is SYSUT1 or the same as the ddname defined by the OPTION function.

**STC214 OPERATOR 'STOP' COMMAND RECEIVED**

A stop command entered at the operator's console has been received. WRTREAD will terminate.

**STC215 WRTREAD, aaa, vvvvvv, NO ERRORS DETECTED**

WRTREAD did not detect any errors while testing the device at address aaa, with volume serial number vvvvvv mounted.

**STC216 WRTREAD, aaa, vvvvvv, POSSIBLE DEVICE PROBLEM**

Correctable/temporary errors were detected by WRTREAD while testing the device at address aaa with volume serial number vvvvvv mounted. The STCPOST printer output should be retained and given to the STC Field Engineer. This message indicates possible problems that should be investigated at the next scheduled maintenance period. This message does not indicate a problem that requires immediate attention.

**STC217 WRTREAD, aaa, vvvvvv, DEVICE ERRORS DETECTED**

Device errors were detected by WRTREAD while testing the device at address aaa with volume serial number vvvvvv mounted. The STCPOST printer output should be retained and given to the STC Field Engineer. The problems should be investigated as soon as possible.

**STC218 UNABLE TO PERFORM CE CYLINDER SCAN/FORMAT**

The CE cylinder could not be scanned/formatted due to an error in the parameter list. Notify STC FE Software Support.

**STC219 CE CYLINDER WILL BE TESTED**

The CE cylinder of a 3350 native mode volume will be tested. The test device was defined using a DD type 1 or the CECYL parameter was specified.

**STC220 TESTING TERMINATED ON THIS TRACK**

An error occurred while trying to fill the track with records. This error prevents further testing on this track from occurring. Testing on this track is terminated, however, this track may be selected for testing again.

**STC221 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read a data record.

**STC222 CE TESTING BYPASSED - TESTING UNDER VM/370**

Testing of the CE cylinder has been bypassed on a 3350 native mode volume. The test device was defined using a DD type 1 and STCPOST is running with SAE on a VM/370 virtual machine. To test the CE cylinder in this environment, the test device must be dedicated (attached) to the SAE virtual machine and the CECYL parameter MUST be specified.

**STC231 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to update a data record.

**STC235 I/O ERROR ...**

This is an STCPOST standard error message. An unrecoverable error occurred. An unrecoverable error is a channel error, intervention required, command reject or a device error other than unit check.

**STCPOST Messages**  
**STC236**

**STC236 ERROR LOOP REACHED**

The maximum number of retries specified by the LOOP parameter has been reached without retry being successful.

**STC241 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read an updated data record.

**STC300 MODE-CHANGE -- DEVICE aaaa**  
    **or**  
**FORMAT-4305 -- DEVICE aaaa**  
    **or**  
**RE-CREATE VOLUME LABEL FUNCTION**

This message has three formats as follows:

- The first format of this message indicates that the MODECHG function will be executed on the device at address aaa.
- The second format of this message indicates that the FORMAT function will be executed on the device at address aaa.
- The third format of this message indicates that the RECREATEVL function will be executed.

**STC301 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is coded incorrectly or is invalid for the MODECHG, FORMAT or RECREATEVL function.



**STC302 SENSE ID = ff cccc mm dddd gg**

A Sense ID (also known as Sense I/O type) command (x'E4') was issued to the test device. The data, if any, returned by this command is displayed in this message. If the test device command rejects this command, or if the first byte of data returned is not FF (hex), or if the number of bytes returned is other than seven, or if an I/O error occurs, this message indicates 'NOT AVAILABLE'. If an I/O error (other than command reject) occurs, it is reported by message SATC340. The sense ID data is printed where:

ff - FF (hex).  
cccc - control unit type.  
mm - control unit model.  
dddd - device type.  
gg - device model.

**STC303 TEST DEVICE IS NOT A 3350**

The test device is not a 3350 type device. The Sense ID command did not return 335000 or a valid 1/8 code in sense byte 4 was not found.

**STC304 TEST DEVICE IS NOT A 2305-2 OR A 3380**

The operating system UCB for the test device indicates a device type other than 2305-2 or 3380. Verify that the correct device address was specified by the DEVICE parameter.

**STC305 UCB DEVICE TYPE NOT 3350, 3330-1 OR 3330-11**

The operating system UCB for the test device indicates a device type other than 3350, 3330-1 or 3330-11. Verify that the correct device address was specified by the DEVICE parameter.

**STC306 DEVICE IS NOT IN COMPATIBILITY MODE**

The operating system UCB for the test device is for a 3330 device type (either -1 or -11), but the test device sense data does not indicate compatibility mode.

**STC307 DEVICE IS NOT IN 3350-C1 MODE**

The operating system UCB for the test device is for a 3330-1 device, but the test device is not in 3330-1 compatibility mode.

**STCPOST Messages**  
**STC308**

**STC308 DEVICE IS NOT IN 3350-C11 MODE**

The operating system UCB for the test device is for a 3330-11 device, but the test device is not in 3330-11 compatibility mode.

**STC309 DEVICE IS NOT IN 3350 N MODE**

The operating system UCB for the test device is for a 3350 native mode device, but the test device sense data indicates compatibility mode.

**STC310 ALL ALTERNATE TRACKS HAVE BEEN USED**

A defective track has been found that requires an alternate to be assigned but all of the available alternate tracks on the device are either assigned or defective.

**STC311 READ HA ERROR, DEFECT SKIP DATA SET TO ZERO**

A permanent error has occurred while reading the Home Address (HA) record of a track. The defect skip data for the track is set to 0000.0000.0000.

**STC312 MORE THAN ONE BAD HA**

A permanent error has occurred reading the Home Address (HA) record on more than one track. MODECHG terminates immediately.

**STC313 DEVICE IS NOT A 4305 IN 3380 MODE**

The device specified by the DEVICE parameter is for a 3380 type device but the device is not an STC 4305 operating in 3380 mode. FORMAT terminates immediately.

**STC314 DEFECTIVE ALTERNATE -cccc.hhhh**

The track at location cccc.hhhh is a defective alternate track.

**STC315 DEFECTIVE PRIMARY -cccc.hhhh**

The track at location cccc.hhhh is a defective primary track. An alternate track will be assigned to it.

**STC317 ALTERNAT TRACK ASSIGNED - cccc.hhhh**

The alternate track cccc.hhhh has been assigned to the defective primary track listed in message STC315.

**STC318 WRITE HA/R0 ERROR**

A permanent error has occurred attempting to write the Home Address (HA) and Record Zero (R0) records of a track.

| **STC320 'FORCE' PARAMETER IN EFFECT**

| The FORCE parameter was specified. Confirmation to initialize the device was not requested.

| **STC321 TEST DEVICE DD CARD NOT TYPE 0**

| The current test device defined by the OPTION function DDNAME parameter is not a DD type 0 device definition. The FORMAT, MODECHG, and RECREATEVL functions require a DD type 0 device definition.

| **STC322 TEST DEVICE FAILED TO OPEN**

| The current test device defined by the OPTION function DDNAME parameter failed to open. FORMAT, MODECHG, and RECREATVL functions require a DD type 0 device definition.

| **STC323 TEST DEVICE NOT DASD**

| The current test device defined by the OPTION function DDNAME parameter is not a device supported by the FORMAT, MODECHG, or RECREATEVL functions.

**STC325 CONFIRM REQUEST TO INITIALIZE aaa -- REPLY Y OR N**

The device specified by aaa is ready to be initialized. The operator is requested to confirm this request. All data on the volume specified will be destroyed.

**STC326 UNABLE TO PERFORM CE CYLINDER FORMAT**

The CE cylinder could not be formatted due to an error in the parameter list. Notify STC FE Software Support.

**STC330 MODE-CHANGE SUCCESSFUL**

or  
**FORMAT-4305 SUCCESSFUL**  
or  
**RECREATEVL SUCCESSFUL**

The MODECHG, FORMAT or RECREATEVL function executed successfully.

STCPOST Messages  
STC331

STC331 MODE-CHANGE NOT SUCCESSFUL  
or  
FORMAT-4305 NOT SUCCESSFUL  
or  
RECREATEVL NOT SUCCESSFUL

The MODECHG, FORMAT or RECREATEVL function did not execute successfully. Previous messages should have been issued to indicate why the function executed unsuccessfully.

STC335 DEVICE aaa WILL BE IN xxxxxx MODE

The device specified as aaa will be formatted in xxxxxx mode. The following values are used to indicate format type:

2305-2	--	2305-2
3350 C1	--	3330-1
3350 C11	--	3330-11
3350 N	--	3350 native
3380	--	3380

STC340 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to execute a sense (04) or sense id (E4) command.

STC341 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to read the Home Address (HA) record.

STC342 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write the Home Address (HA) and Record Zero (R0) records and then read the HA and R0 records on a 3350 native mode device.

STC343 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write the Home Address (HA) and Record Zero (R0) records and then read the HA and R0 records on a 3350 compatibility mode device.

**STC344 I/O ERROR ...**

This is an STCPOST standard error message. The actual HA data read did not match the expected HA data. See the STCPOST REFERENCE MANUAL FE-001 for a description of the dumped data format.

**STC345 I/O ERROR ...**

This is an STCPOST standard error message. The actual R0 data read did not match the expected R0 data. See Appendix F for a description of the data format.

**STC346 HA FLAG BITS 0-5 NOT ZERO -- HA = ffcccchhhh**

The home address flag bits 0-5 were not zeroed by the DCU. The home address is printed where:

ff - flag byte  
cccc - cylinder address  
hhhh - head address

**STC350 I/O ERROR ...**

This is an STCPOST standard error message. Cylinder 0 Head 0 Record 3 was written and read back. The data read did not match the data written.

**STC351 I/O ERROR ...**

This is an STCPOST standard error message. A format 4 DSCB was written and read back. The data read did not match the data written.

**STC352 I/O ERROR ...**

This is an STCPOST standard error message. A format 5 DSCB was written and read back. The data read did not match the data written.

**STC353 I/O ERROR ...**

This is an STCPOST standard error message. A format 1 DSCB was written and read back. The data read did not match the data written.

**STC360 CYLINDERS 0-xxx ARE USABLE. MODULE CAPACITY IS mm MBYTES.**

The minimum and maximum cylinders (in decimal), and the module capacity in megabytes are reported.

STCPOST Messages  
STC361

STC361 VTOC WRITTEN.  
VTOC START=ccc.hh.01 (cccc.hhhh.01)  
VTOC END=ccc.hh.rr (cccc.hhhh.rr)  
VTOC LENGTH=ttt TRKS, CONTAINING nnnnnn DSCBS  
[UNUSABLE TRACKS ARE ALLOCATED TO DSN='dddddd...']

These messages are printed when the entire VTOC has been written with no errors. The first message reports the VTOC start and end record locations in decimal and hexadecimal (in parentheses). The second message reports the number of tracks allocated to the VTOC and the total number of DSCBs written in the given extent. The third message reports the name of the dummy data set in the VTOC which represents the tracks on non-existent cylinders.

STC362 VOLUME LABEL WRITTEN VOLID='vvvvvv'  
OWNERID='oooooooooooooooo'

This message is printed when the volume label is written on cylinder 0/head 0 with no errors.

STC363 VOLID AND VTOC NOT WRITTEN - VTOC WOULD EXCEED DEVICE LIMITS

Neither volume id nor VTOC were written because either the VTOC start location or the VTOC length would involve tracks which do not physically or logically exist on the device. At this point, the module has valid HA and R0 on all tracks.

STC364 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write records 1, 2, or 3 on cylinder 0 head 0.

STC365 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write records 1, 2, or 3 on the first track of the VTOC.

STC366 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write unused DSCB records to fill the VTOC.

**STC367 RETRY FAILED - FORMAT FUNCTION TERMINATED**

An attempted retry failed. FORMAT is terminated with errors.

**STC368 NUMBER OF VTOC EXTENTS MUST BE >0**

The number of VTOC extents specified by the user was not greater than zero.

**STC369 INCORRECT MODULE SIZE PARM PASSED BY STCPOST3**

STCPOST3 passed a module size parameter that is not recognized by STCPST3A. Contact FE Software Support for programming assistance.

**STC370 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records on track 000.00.

**STC373 READ HA/R0 ERROR**

The error described by message STC370 was a permanent error.

**STC374 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the R1, R2 and R3 records on track 000.00.

**STC376 CYL 000/HD 00 DOES NOT CONTAIN VOLUME LABEL RECORDS.  
DUMP OF TRACK FOLLOWS**

Records 1, 2 and 3 of track 000.00 were read without error but the records were not valid volume label records. A dump of track 000.00 follows this message. See Appendix F for a description of the data format.

**STC377 DEVICE aaa ALREADY HAS A VALID LABEL.  
VOLSER = vvvvvv VTOC LOCATION cccc.hhhh.rr**

Records 1, 2 and 3 of track 000.00 on the device at address aaa contain valid volume label records. The volume serial number is vvvvvv and the VTOC begins on track cccc.hhhh.rr. Verify that the correct device address was specified by the DEVICE parameter.

**STCPOST Messages**  
**STC379**

**STC379 ENTER VOLUME SERIAL NUMBER FOR DEVICE aaa**

Reply with the volume serial number which is to be placed on the volume which is mounted on the device at address aaa.

**STC380 ENTER LOCATION OF VTOC ON DEVICE aaa IN FORMAT ccc.hh.rr OR CANCEL**

Reply with the location (ccc.hh.rr) in hexadecimal of the VTOC on the volume which is mounted on the device at address aaa or reply 'CANCEL' to cancel the RECREATEVL function.

**STC381 INVALID REPLY FORMAT**

The format or contents of the reply to message STC379 or STC380 is invalid.

**STC383 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the Format 4 DSCB of the VTOC.

**STC384 VTOC NOT LOCATED AT ccc.hh.rr**

The reply to message STC380 was ccc.hh.rr but the VTOC does not start at that location.

**STC385 CONFIRM REQUEST TO LABEL DEVICE aaa WITH VOLSER vvvvvv AND VTOC LOCATION AT ccc.hh.rr -- Y OR N**

Reply 'Y' to label the volume mounted on the device at address aaa with a volume serial number of vvvvvv and a VTOC location of ccc.hh.rr. Reply 'N' to cancel the RECREATEVL function.

**STC386 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write records one, two and three on track 000.00 and then attempting to read the records written.

**STC387 ERROR WRITING R1/R2/R3**

The error described by message STC386 was a permanent error.



**STC391 CAN NOT RECREATE VOLUME LABELS IF VTOC IS ON TRACK 000.00**

The reply to message STC380 was 000.00.xx. The volume labels can not be recreated if the VTOC is located on track 000.00.

**STC392 OPERATOR REPLY - xx..xx**

The operator's reply to the preceding STCPOST message was xx..xx.

**STC400 ASSIGN -- DEVICE ADDRESS aaaa, VOL SER vvvvvv,  
DEVICE TYPE tttt  
or  
UNASSIGN -- DEVICE ADDRESS aaaa, VOL SER vvvvvv,  
DEVICE TYPE tttt**

The ASSIGN or UNASSIGN function will be executed on the device at address aaa with volume serial number vvvvvv mounted which is a tttt type device.

**STC401 TRACK SPECIFIED IS NOT WITHIN DATASET (cccc.hhhh -  
cccc.hhhh)**

The track specified by the TRACK parameter is not within the first extent of the data set allocated to STCPOST (cccc.hhhh-cccc.hhhh). Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC402 NO TRACKS ALLOCATED**

The current test data set has zero tracks allocated. At least one track must be allocated for the ASSIGN or UNASSIGN function.

**STC403 NO DD CARD FOR TEST DEVICE**

Check that the current ddname in effect is included in the JCL and correctly coded. Verify that the ddname is SYSUT1 or the same as the ddname defined by the OPTION function.

**STC404 TEST DEVICE FAILED TO OPEN OR NOT DASD**

An open for the test device failed or the test device is not a DASD device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STCPOST Messages**  
**STC405**

**STC405 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is coded incorrectly or is invalid for the ASSIGN or UNASSIGN function.

**STC406 TRACK PARM NOT SPECIFIED**

The TRACK parameter was not specified on the function control card. The TRACK parameter is required for the ASSIGN and UNASSIGN functions.

**STC407 TEST DEVICE DD CARD NOT TYPE 2, 3 OR 4**

The test device DD card is not a type 2, 3 or 4. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC408 'FORCE' PARAMETER NOT IN EFFECT**

The FORCE parameter was not specified on the control card. The ASSIGN function requires the use of the FORCE parameter. The UNASSIGN function requires the use of the FORCE parameter only if bypassing errors is desired.

**STC409 ----- NOTICE ----- NOTICE -----**  
**THE DEFECTIVE/ALTERNATE PAIR CREATED BY**  
**STC POST ASSIGN FUNCTION MAY NOT BE**  
**COMPATIBLE WITH SOME UTILITY PROGRAMS.**  
**THIS IS BECAUSE THE VTOC FORMAT 4 DSCB**  
**IS NOT UPDATED. YOU SHOULD USE THE**  
**'DEVICE SUPPORT FACILITY' (DSF)**  
**PROGRAM TO ASSIGN ALTERNATE TRACKS.**  
**HOWEVER, IF YOU MUST USE THE STC POST**  
**ASSIGN FUNCTION THE ASSIGN CONTROL CARD**  
**MUST SPECIFY THE 'FORCE' PARAMETER.**

This is an informational message issued when the ASSIGN function starts, and warns the user of the possible consequences of using the ASSIGN function.

STC410 ASSIGN/UNASSIGN SUMMARY

TRACK	BEFORE	AFTER
ccc.hh	status message	status message
ccc.hh	status message	status message

This message lists the before and after status of the tracks processed by the ASSIGN or UNASSIGN function. The possible status messages and their meanings are:

1. ASSIGNED ALT - The track is (was) an assigned alternate track.
2. DEF ALT - The track is (was) a defective alternate track.
3. DEF DATA TRK - The track is (was) a defective data track.
4. DEF SKIP UNKNOWN - The defect skip data for the track is unknown.
5. NOT CHANGED - The status of the track was not changed.
6. PRI DATA TRK - The track is (was) a primary data track.
7. READ ERROR - An error occurred while reading the HA and R0 records of the track.
8. UNASSIGNED ALT - The track is (was) an unassigned alternate track.
9. UNKNOWN - The status of the track is not known.
10. WRITE ERROR - An error occurred while writing the HA and R0 records of the track.

STC421 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of an alternate track.

STC422 I/O ERROR ...

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then attempting to read the HA and R0 records.

**STCPOST Messages**  
**STC423**

**STC423 ALTERNATE TRACK IS ASSIGNED OR FLAGGED 'DEFECTIVE'**

The alternate track that is to be flagged as a defective alternate is currently a defective alternate or an assigned alternate.

**STC430 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of a primary data track.

**STC431 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of an alternate track.

**STC432 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then attempting to read the HA and R0 records of an alternate track.

**STC433 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then attempting to read the HA and R0 records of a primary data track.

**STC435 NO ALTERNATE TRACK AVAILABLE**

No alternate track is available to be assigned as an alternate for the track to be flagged defective. All the alternate tracks on the device are either assigned or defective.

**STC436 PRIMARY TRACK IS FLAGGED 'DEFECTIVE'**

The primary track that is to be flagged as a defective track is already flagged as defective.

**STC440 I/O ERROR ...**

This is an STCPOST standard error message. The HA data read from the primary track does not compare with the data written.

**STC441 I/O ERROR ...**

This is an STCPOST standard error message. The R0 data read from the primary track does not compare with the data written.

**STC442 I/O ERROR ...**

This is an STCPOST standard error message. The HA data read from the alternate track does not compare with the data written.

**STC443 I/O ERROR ...**

This is an STCPOST standard error message. The R0 data read from the alternate track does not compare with the data written.

**STC451 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of a primary data track.

**STC452 UNABLE TO READ PRIMARY TRACK HA/R0**

The error described by message STC451 was a permanent error. The Home Address (HA) and Record Zero (R0) records of a primary track were unable to be read. If the FORCE parameter has been specified, the HA and R0 will be rewritten. If not, the function terminates.

**STC453 PRIMARY TRACK IS NOT FLAGGED 'DEFECTIVE'**

The defective primary track that is to become a good track is currently not flagged as a defective track. If the FORCE parameter has been specified, the HA and R0 records will be rewritten. If not, the function terminates.

**STC454 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of an alternate track.

**STCPOST Messages**  
**STC455**

**STC455 UNABLE TO READ ALTERNATE TRACK HA/R0**

The error described by message STC454 was a permanent error. The Home Address (HA) and Record Zero (R0) records of the alternate track currently assigned to the specified defective track could not be read. If the FORCE parameter has been specified, the HA and R0 records will be rewritten with the alternate track flagged as defective. If not, the function terminates.

**STC456 ALTERNATE TRACK IS UNASSIGNED OR FLAGGED 'DEFECTIVE'**

The alternate track pointed to by the specified defective track is either an unassigned or defective alternate. This condition indicates that an illegal defective/alternate pair exists. If the FORCE parameter was specified, the primary track HA and R0 is written but no alternate track is unassigned. If not, the function terminates.

**STC457 DEFECTIVE AND ALTERNATE TRACKS ARE NOT A PAIR**

The alternate track pointed to by the specified defective track is assigned to some other defective track. This assignment indicates that an illegal defective/alternate pair exists. If the FORCE parameter has been specified, the primary track HA and R0 are written but no alternate track is unassigned. If not, the function terminates.

**STC458 'FORCE' PARAMETER IN EFFECT**

The FORCE parameter was specified on the function control card. Errors encountered were ignored and one of the following conditions may exist:

1. The defect skip information for a track may be set to 0000.0000.0000 due to a read error.
2. An illegal defective/alternate track pair may exist.

**STC459 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then attempting to read the HA and R0 records of a primary data track.

**STC460 UNABLE TO WRITE PRIMARY HA/R0**

The error described by message STC459 was a permanent error. The Home Address (HA) and Record Zero (R0) records of the primary track could not be rewritten. The track is now unusable.

**STC461 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then attempting to read the HA and R0 records of an alternate track.

**STC462 UNABLE TO WRITE ALTERNATE HA/R0**

The error described by message STC461 was a permanent error. The Home Address (HA) and Record Zero (R0) records of the alternate track assigned to the defective primary track could not be rewritten. This alternate track is now unusable.

**STC463 ALTERNATE TRACK IS UNKNOWN**

The alternate track assigned to the specified defective primary track is unknown because of one of the following conditions:

1. The specified defective track HA and R0 records could not be read,
2. The specified defective track was not flagged as defective,
3. The alternate track pointed to by the primary track was flagged as defective,
4. The alternate track pointed to by the primary track was an unassigned alternate, or
5. The alternate track pointed to by the primary track was assigned to a different primary track.

**STC470 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of an alternate track.

**STCPOST Messages**  
**STC471**

**STC471 UNABLE TO READ ALTERNATE TRACK HA/R0**

The error described by message STC470 was a permanent error. The Home Address (HA) and Record Zero (R0) records of an alternate track could not be read. If the FORCE parameter has been specified, the HA and R0 records will be rewritten, but the track will be flagged as a defective alternate. If not, the function terminates.

**STC472 TRACK IS NOT ASSIGNED**

The alternate track specified by the TRACK parameter is not an assigned alternate track. If the FORCE parameter is specified, the HA and R0 records are rewritten. If not, the function terminates.

**STC473 TRACK IS FLAGGED 'DEFECTIVE'**

The alternate track specified by the TRACK parameter is currently a defective alternate track. The UNASSIGN function terminates, or continues if the FORCE parameter is in effect.

**STC474 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the HA and R0 records of a primary data track.

**STC475 UNABLE TO READ PRIMARY TRACK HA/R0**

The error described by message STC474 was a permanent error. The Home Address (HA) and Record Zero (R0) records of the defective mate of an alternate track could not be read. If the FORCE parameter has been specified, the alternate track will be flagged as an unassigned alternate but the defective primary remains flagged as a defective track and points to the alternate that was just unassigned. If not, the function terminates.

**STC476 'DEFECTIVE' TRACK IS cccc.hhhh**

The defective mate of the alternate track specified by the TRACK parameter is track cccc.hhhh. This track is either not flagged as defective or does not point back to the proper alternate track. If the FORCE parameter has been specified, the alternate track will be flagged as an unassigned alternate but the primary track remains unchanged. If not, the function terminates.



**STC477 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the HA and R0 records and then read the HA and R0 records of an alternate track.

**STC478 UNABLE TO WRITE ALTERNATE HA/R0**

The error described by message STC477 was a permanent error. The Home Address (HA) and Record Zero (R0) records of the alternate track could not be rewritten. The track is unusable.

**STC500 ASSIGN DEFECT SKIP**

The ASSIGNDS function has started.

**STC501 DEVICE ADDRESS a, VOL SER v, DEVICE TYPE t  
FIRST TRACK IS cccc.hhhh, LAST TRACK IS dddd.iiii**

The ASSIGNDS function is executing on the device at address a which has volume v mounted, and is a type t device. ASSIGNDS has been allocated space beginning with track cccc.hhhh and ending with track dddd.iiii.

**STC502 TRACK ccc.hh IS NOT WITHIN THE ALLOCATED DATASET**

The TRACK parameter specified that ASSIGNDS should test track ccc.hh, but that track is not within the allocated dataset listed in message STC501.

**STC503 NO DD CARD FOR TEST DEVICE**

No DD card exists for the current setting of the OPTION function DDNAME parameter. Verify that the test device DD card is coded correctly.

**STC504 TEST DEVICE FAILED TO OPEN**

An open for the test device failed. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC505 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the ASSIGNDS function.

**STCPOST Messages**  
**STC506**

**STC506 TRACK PARAMETER IS REQUIRED**

The TRACK parameter was not specified on the function control card. The TRACK parameter is required for the ASSIGNDS function when either the AUTOMATIC or the SKIP parameter is specified.

**STC507 TEST DEVICE DD CARD NOT TYPE 2, 3 OR 4**

The test device DD card is not a type 2, 3 or 4 DD card. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC508 SKIP, AUTOMATIC OR INSPECT PARAMETER IS REQUIRED**

The SKIP, AUTOMATIC or INSPECT parameter is required for the ASSIGNDS function but neither of these parameters was specified on the control card.

**STC509 GETMAIN FOR I/O BUFFER FAILED**

A getmain macro for a 20K byte I/O buffer failed. Increase the size of the region or partition in which STCPOST is being executed and rerun the job.

**STC510 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read the Home Address (HA) and Record Zero (RO) records on a track.

**STC511 UNABLE TO READ HA/RO**

The error described by message STC510 was a permanent error.

**STC512 TRACK IS AN ASSIGNED ALTERNATE**

The track specified by the TRACK parameter is an assigned alternate track whose defective mate is not within the dataset allocated to STCPOST. The function terminates.

**STC513 TRACK IS FLAGGED 'DEFECTIVE'**

The track specified by the TRACK parameter is flagged defective. ASSIGNDS cannot alter the defect skip information of a defective primary or defective alternate track. The function terminates.

**STC514 HA FLAG BYTE AND DEFECT SKIP DATA LOST**

A permanent error occurred reading the Home Address (HA) record of a track. The actual HA flag byte and defect skip data could not be obtained. The HA will be re-written with the flag byte and the defect skip data set to zero. Testing continues on the device.

**STC515 DEFECT SKIP DATA WAS xxxx.xxxx.xxxx**

The defect skip data for the track being tested was xxxx.xxxx.xxxx (ds3.ds2.ds1).

**STC516 HLIMIT INVALID FOR TEST DEVICE OR NOT WITHIN DATASET**

The head specified by the HLIMIT parameter is invalid for the test device or is not in every cylinder of the allocated dataset, as listed by message STC501.

**STC517 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write the Home Address (HA) and Record Zero (R0) records on a track and then attempting to read the records written.

**STC518 I/O ERROR ...**

This is an STCPOST standard error message. The Home Address was written and read without error, but the data read does not compare with the data written.

**STC519 I/O ERROR ...**

This is an STCPOST standard error message. Record Zero was written and read without error, but the data read does not compare with the data written. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

**STC520 UNABLE TO WRITE HA/R0**

The error described by messages STC517, STC518 and STC519 was unable to be retried successfully and is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

**STCPOST Messages**  
**STC521**

**STC521 TRACK SPECIFIED IS INVALID FOR TEST DEVICE**

The track specified by the TRACK parameter is invalid for the test device.

**STC522 TEST DEVICE IS NOT A 3350 TYPE DEVICE**

The test device allocated to ASSIGNDS is not a 3350 type device. Verify that the test device DD card for the current setting of the OPTION function is coded correctly.

**STC525 NO TRACKS ALLOCATED**

The current test device has no tracks allocated. At least one track must be allocated to the ASSIGNDS function. Verify that the test device DD card for the current setting of the OPTION function is coded correctly.

**STC531 TOO MANY ERRORS OR UNACCEPTABLE ERROR**

ASSIGNDS is operating in inspect mode and:

- an error occurred on one of the tracks being tested which was not a Format 4 or Format 5 error,
- more than eight of the tracks being tested need to have defect skips assigned, or
- more than one track per 2048 tracks tested needs to have a defect skip assigned.

**STC532 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to write a full track record and then attempting to read the record written. The error was other than a Format 4 or Format 5 error.

**STC533 4X OR 5X ERROR DETECTED ON TRACK cccc.hhhh**

A Format 4 or Format 5 error occurred on track cccc.hhhh writing a full track record and then attempting to read the record written.

**STC535 ----- ASSIGNDS AUTOMATIC TRACK= ccc.hh -----**

The ASSIGNDS automatic routine has been invoked for track ccc.hh which incurred a Format 4 or Format 5 error when tested in inspect mode.

**STC536 NO DEFECTS FOUND**

No errors were detected on any of the tracks tested in inspect mode.

**STC550 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write a Home Address (HA) record on a track.

**STC551 UNABLE TO REWRITE HA, WILL ATTEMPT TO MOVE HA**

The error described by message STC550 was a permanent error. ASSIGNDS will attempt to move the Home Address and re-write it.

**STC552 UNABLE TO MOVE HA, 1ST DEFECT LT OR EQ TO 189**

The Home Address (HA) record can not be moved because the first defect skip currently assigned has previously moved the HA record. The track may be unusable. Attempt to assign an alternate using the ASSIGN function.

**STC556 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to write a full track Record Zero.

**STC557 I/O ERROR...**

This is an STCPOST standard error message. An error other than a Format 4 or Format 5 occurred while attempting to read a full track RO record. This indicates a hardware problem which should be repaired before defect skips can be assigned. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and RO records.

**STC558 TRACK HAS MORE THAN THREE DEFECTS**

A defect has been located on a track which currently has three defect skips assigned. The ASSIGNDS function terminates without assigning a defect skip for this additional defect. THE TRACK MAY BE UNUSABLE. Attempt to assign an alternate with the ASSIGN function.

STCPOST Messages  
STC559

STC559 UNABLE TO LOCATE DEFECT(S)--EXCESSIVE READ ERRORS

Read errors are occurring which do not occur in localized areas on the track (the errors do not repeat in the same place). These error occurrences indicate a hardware problem which should be corrected before defect skips can be assigned. THE TRACK MAY BE UNUSABLE. Use the ASSIGN function with the FORCE parameter to re-create the HA and R0 records.

STC560 NEW DEFECT SKIP DATA IS xxxx.xxxx.xxxx

New defect skips have been assigned for the track being tested. The new skip data is xxxx.xxxx.xxxx (ds3.ds2.ds1).

STC562 NO DEFECTS FOUND

No additional defective areas were located on the track being tested. The defect skip data for the track will remain unchanged.

STC563 DEFECT LOCATED - SKIP DATA IS (xxxx.xxxx.xxxx)

A new defective area has been located for which a defect skip will be assigned. The new defect skip data for the track is xxxx.xxxx.xxxx (ds3.ds2.ds1).

STC564 ASSIGNDS AUTOMATIC TERMINATED, VM/370 MINI-DISK DETECTED

A VM/370 mini-disk has been detected. ASSIGNDS can not change the defect skip data on a VM/370 mini-disk. The function terminates.

STC565 UNABLE TO WRITE HA

The error described by message STC550 was unable to be retried successfully and is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

STC566 DEFECT SKIP DATA SET TO 0000.0000.0000

More than three defects were found on this track. The defect skip data will be set to 0000.0000.0000, and testing on the track will be restarted.

| STC567 DEFECT SKIP DATA SET TO xxxx.xxxx.xxxx

| More than three defects were found on this track. The defect skip data will be set to the original values (xxxx.xxxx.xxxx). This track could not be corrected by assigning skips. An alternate track should be assigned.

| STC568 UNABLE TO MOVE R0, MAXIMUM NUMBER OF HA/R0 MOVES ALREADY USED

| An error occurred reading Record Zero which required R0 to be moved. However, the maximum number of times that HA and/or R0 can be moved has already been reached. HA can be moved once. R0 can be moved once if HA has been moved, or twice if HA has not been moved. One of these conditions exists and R0 can not be moved again. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

| STC569 UNABLE TO WRITE A FULL TRACK R0 RECORD

| The error described by message STC556 was unable to be retried successfully and is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

| STC570 UNABLE TO WRITE A FULL TRACK R0 RECORD

| The error described by message STC557 was unable to be retried successfully and is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

| STC571 I/O ERROR ...

| This is a standard STCPOST I/O error message. An error occurred reading Record Zero and it could not be retried successfully. This error is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

| STC572 UNABLE TO WRITE R0 RECORD

| The error described by message STC571 was unable to be retried successfully and it is considered a permanent error. THE TRACK MAY BE UNUSABLE. Use the UNASSIGN function with the FORCE parameter to re-create the HA and R0 records.

STCPOST Messages  
STC573

STC573 UNABLE TO WRITE R0, R0 WILL BE MOVED

An error occurred while reading R0. This indicates that R0 was not written correctly. R0 will be moved and written in a different location.

STC574 OPERATOR 'STOP' COMMAND RECEIVED

A stop command entered at the operator's console was accepted by the ASSIGNDS function. ASSIGNDS terminates.

STC575 TESTING TRACK cccc.hhhh (ddd.ii)

ASSIGNDS is operating in the INSPECT mode. This message is issued after every 1024 tracks are tested. It is an informational message issued to inform the user that the function is still executing and has started testing on track cccc.hhhh (decimal) (ddd.ii (hexadecimal)). This message is always written to the STCPOST output and is also written to the operator's console if the SUMMARY parameter of ASSIGNDS or OPTION is specified.

STC600 TRACKDUMP -- DEVICE ADDRESS aaa, VOL SER vvvvvv,  
DEVICE TYPE tttt  
[DEVICE IS AN STC 4305 IN 3380 MODE]

The TRKDUMP function is executed on the device at address aaa with volume serial number vvvvvv mounted which is a tttt type device.

STC601 GETMAIN FOR I/O BUFFER FAILED

A GETMAIN macro for a 20K I/O buffer has failed. Increase the size of the region or partition in which STCPOST is being executed and rerun the job.

STC602 TEST DEVICE FAILED TO OPEN OR NOT DASD

An open for the test device failed or the test device is not a DASD device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC603 CYLINDER OR HEAD SPECIFIED IS NOT VALID

The cylinder or head number specified by the TRACK parameter is not valid for the current test device.



**STC604 ERROR LIMIT REACHED, SKIPPING TO NEXT TRACK**

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 any) begins.

**STC605 UNABLE TO READ RECORD, SKIPPING TO NEXT RECORD**

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.

**STC606 THE FOLLOWING DATA MAY CONTAIN ERRORS**

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.

**STC607 OPERATOR ''STOP'' COMMAND RECEIVED**

A stop command entered at the operator's console has been received. TRKDUMP terminates.

**STC610 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the TRKDUMP function.

**STC611 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the Home Address (HA) record.

**STC612 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the Home Address (HA) and Record Zero (R0) records.

**STC613 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read a data record.

**STC614 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while executing a sense (04) command.

**STCPOST Messages**  
**STC615**

**STC615 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while attempting to read the count field of a data record.

**STC616 SPACE COUNT DUMP OF TRACK --**

The dump which follows is a space count dump of the track.

**STC617 NO DATA TRANSFERRED FOR SPACE COUNT READ**

A space count dump was requested but no data was transferred by the space count CCW chain.

**STC618 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred while executing a space count (0F) and read data (06) command chain.

**STC621 START OF TRACK ccc.hh (HEX) -- cccc.hhhh (DECIMAL)**

This is the start of the dump of a track. ccc.hh is the track address in hexadecimal; cccc.hhhh is the track address in decimal.

**STC622 END OF TRACK ccc.hh (HEX) -- cccc.hhhh (DECIMAL)**

This is the end of the dump of a track. ccc.hh is the track address in hexadecimal; cccc.hhhh is the track address in decimal.

**STC623 RECORD ccc.hh.rr (HEX) -- cccc.hhhh.rrr (DECIMAL)**

This is the dump of a record on a track. ccc.hh.rr is the record address in hexadecimal; cccc.hhhh.rrr is the record address in decimal.

**STC624 THIS IS A DEFECTIVE ALTERNATE TRACK, SKIPPING TO THE NEXT TRACK**

The track to be dumped is a defective alternate track. Dumping of that track terminates and dumping of the next track (if any) begins.

STC625 THIS IS A DEFECTIVE TRACK, DATA WILL BE DUMPED FROM THE ALTERNATE

The track to be dumped is a defective track. The alternate track assigned to this track will be dumped.

STC626 THIS IS AN UNASSIGNED ALTERNATE TRACK, SKIPPING TO THE NEXT TRACK

The track to be dumped is an unassigned alternate track. Dumping of that track terminates and dumping of the next track (if any) begins.

STC627 THIS IS AN ASSIGNED ALTERNATE TRACK, DATA FOLLOWS

The track to be dumped is an assigned alternate track. The dump of that track follows.

STC628 SUMMARY OF RECORDS ON TRACK --

----- HEX -----	----- DECIMAL -----
CCCC HHHH RR KK DDDD	CCCC HH RRR KKK DDDDD
cccc hhhh rr kk dddd	cccc hh rrr kkk ddddd
...	
cccc hhhh rr kk dddd	cccc hh rrr kkk ddddd

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 ddddd) for each record on the track is listed in hexadecimal and decimal.

STC629 TRACKS OF THE CE CYLINDER CAN NOT BE DUMPED

The track requested is a CE track and can not be dumped.

STC630 TRACK PARM NOT SPECIFIED

The track parameter was not specified on the control card. The function is terminated.

STC631 END OF FILE RECORD

The record dumped was an end of file record.

STC632 SEGMENT OF AN OVERFLOW RECORD

The record dumped was part of an overflow record.

**STCPOST Messages**  
**STC633**

**STC633 BYTES USED ON THIS TRACK ARE nnnnn, NOT INCLUDING HA AND R0**

The number of bytes used on this track up to and including this record but not including Home Address (HA) and Record Zero (R0) is nnnnn.

**STC634 TRACK CAPACITY EXCEEDED, MAXIMUM BYTES ALLOWED ARE nnnnn, NOT INCLUDING HA AND R0**

The number of bytes used on this track is greater than the maximum allowed for the device. The maximum number of bytes allowed (not including Home Address (HA) and Record Zero (R0) is nnnnn.

**STC641 HA DATA (FCCHH) --**

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 (two bytes).

**STC642 COUNT FIELD (CCHHRKDD) --**

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).

**STC643 KEY FIELD --**

The data that follows is the data from the key field for the record.

**STC644 DATA FIELD --**

The data that follows is the data from the data field for the record.

**STC651 NO DATA TRANSFERRED FOR RECORD**

No data was transferred when the record was read.

**STC652 COUNT FIELD IS NOT COMPLETE**

Less than eight bytes were transferred when the record was read. The complete count field was not transferred. The length of the key and data fields is unknown. These fields will not be dumped.

**STC653 KEY AND/OR DATA FIELD(S) NOT TRANSFERRED**

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).

**STC654 PARTIAL KEY FIELD**

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.

**STC655 PARTIAL DATA FIELD**

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.

**STC656 EXTRA DATA BYTES TRANSFERRED**

When the record was read, more data bytes were transferred than the total for the key and data fields as indicated in the count field. The extra data bytes follow.

**STC657 DATA AT OFFSET +xxxx IS IN ERROR - CORRECTED DATA IS  
ddddddd**

A correctable data check occurred reading this record. The uncorrected data is printed for the record. The data at offset xxxx is in error and should be corrected to ddddddd.

**STC660 RECORD nnn REQUESTED BUT NOT FOUND ON THIS TRACK**

The record nnn, requested in the PRINT option, was not found on the track specified. Specify PRINT=SUMMARY to obtain a summary of the records on this track.

**STC700 WR4305 -- DEVICE ADDRESS a, VOL SER v, DEVICE TYPE 2305-2  
x TRACKS, FIRST TRACK IS c.h, LAST TRACK IS i.j**

The WR4305 function will be executed on the device at address a with volume serial number v mounted which is a 2305-2 type device. x tracks will be tested starting at track c.h and ending at track i.j.

STCPOST Messages  
STC701

STC701 WR4305 SUMMARY --

EACH TRACK WAS TESTED AN AVERAGE OF nnnnnnnn TIMES  
HEAD RECORDS ERRORS  
aa (bb) ccccccc dddddd  
aa (bb) ccccccc dddddd  
ERROR COUNTS -- 0X: e, 1X: f, 2X: g, 3X: h,  
CMPR: k, OTHER: l

Each track tested by WR4305 was tested an average of nnnnnnnn times. nnnnnnnn is calculated by dividing the number of times any track was selected for testing by the number of tracks to be tested. A summary of the number of records processed (either reading or writing) and the number of errors encountered is printed for each head tested. The head number is listed in decimal (aa) and hexadecimal (bb). The number of errors for each error type for all heads is printed at the end of the summary chart. k is the number of data compare errors which occurred. l is the number of errors which occurred which were not of types 0x through 3x or compare errors.

STC702 NO TRACKS ALLOCATED

The current test device has no tracks allocated. At least one track must be allocated for the WR4305 function.

STC703 GETMAIN FOR I/O BUFFER FAILED

WR4305 was unable to obtain a 15K byte I/O buffer area. Increase the size of the region or partition in which the STCPOST job is being executed and rerun the job.

STC704 TEST DEVICE FAILED TO OPEN OR NOT DASD

An open for the test device failed or the test device is not a 2305-2 type device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC705 PARAMETER ERROR (xx..xx)

The parameter xx..xx is either coded incorrectly or is invalid for the WR4305 function.

STC706 BLKSIZE SPECIFIED IS LARGER THAN DEVICE ALLOWS,  
SET TO MAXIMUM FOR DEVICE

The blocksize specified by the BLKSIZE parameter is larger than the maximum allowed. The blocksize will be set to the maximum.

STC707 DUMP OF TRACK FOLLOWS--

An error occurred and the DUMP parameter was specified. A dump of the track follows.

STC708 TEST DEVICE DD CARD NOT TYPE 2, 3 or 4

The test device DD card is not a type 2, 3 or 4 DD card. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC709 RANDOM READ OPERATIONS STARTED, IOLIMIT = nnnn

The WR4305 function has entered the random read phase. The number of I/O operations which will be executed in this phase is nnnn.

STC710 TRACK MAP ' ' - NOT TESTED, 'T' - TESTED, 'W' - WRITE  
ERROR, 'R' - READ ERROR

TRACKS -----  
CYL 0 1 2 3 4 5 6 7  
0  
.  
.  
.  
n

The following map of the cylinders and tracks indicates the status of the tracks tested. A blank indicates that that cylinder and head was not tested. A 'T' indicates the track was tested and no errors occurred. A 'W' indicates the track was tested and a write error occurred. An 'R' indicates the track was tested and a read error occurred.

STC711 I/O ERROR ...

This is an STCPOST standard error message. An error occurred attempting to write a data record.

**STCPOST Messages**  
**STC712**

**STC712 SEQUENTIAL PARM IN EFFECT**

Less than 16 tracks are available for testing. Sequential track testing will be done.

**STC713 NO DD CARD FOR TEST DEVICE**

No DD card exists for the current setting of the OPTION function DDNAME parameter. Verify that the test device DD card is coded correctly.

**STC714 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to execute a sense (04) command.

**STC715 OPERATOR 'STOP' COMMAND RECEIVED**

A stop command entered at the operator's console was accepted by the WR4305 function. WR4305 will terminate.

**STC716 ERROR LIMIT REACHED**

The number of errors allowed by the ELIMIT parameter has been reached. The WR4305 function terminates.

**STC717 NO TRACKS AVAILABLE**

There are no error free tracks available within the test dataset. The WR4305 function terminates.

**STC718 READONLY PARM USED WITHOUT RANDOMREAD PARM**

The READONLY parameter was specified but the RANDOMREAD parameter was not specified. RANDOMREAD must be specified if READONLY is specified. The function terminates.

**STC721 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read a data record.

**STC731 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to update a data record.



**STC735 I/O ERROR ...**

This is an STCPOST standard error message. An unrecoverable error occurred. The function terminates.

**STC736 ERROR LOOP REACHED**

The I/O operation was retried the number of times specified by the LOOP parameter but retry was not successful.

**STC741 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read an updated data record.

**STC751 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read a data record in RANDOMREAD mode on random records.

**STC761 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read a data record in RANDOMREAD mode on random tracks or attempting to read the track before writing records on the track (only if the track was previously tested).

**STC790 ERROR NOT DATA CHECK - NO ECC TESTING DONE**

The error encountered was not a data check. No ECC dumping of the track will be done.

**STC791 GETMAIN FOR I/O BUFFER FAILED**

A getmain for an I/O buffer failed. Increase the size of the region or partition in which STCPOST is executing.

**STC792 PATTERN OF RANDOM DATA CAN NOT BE DETERMINED**

The pattern of random data to use for ECC testing could not be determined.

STCPOST Messages  
STC793

STC793 DUMP OF TRACK ccc.hh - EXPD, WITH AND WITHOUT ECC

An ECCDUMP of track ccc.hh follows. The format of the data dumped is:

LOCATION			***** DATA *****			
HEX	DEC		WORD 1	WORD 2	WORD 3	WORD 4
0000	0	EXPD	aa..aa bb	cc..cc dd	ee..ee ff	gg..gg hh
		+ECC				
		-ECC				
0020	32	EXPD	aa..aa bb	cc..cc dd	ee..ee ff	gg..gg hh
		+ECC				
		-ECC				
		...				

The expected data and the expected ECC byte for that data is listed for each word. Any differences between the actual data read with (+ECC) and without (-ECC) ECC and the expected data is listed in the appropriate row. Differences between the actual ECC byte and the expected ECC byte are also listed.

STC800 DIAGNOSTIC

The DIAGNOSTIC function identification message is printed after the function is loaded and ready for execution.

STC801 INCORRECT DEVICE SPECIFIED

The test device DD card defines a device type which is not supported by the DIAGNOSTIC function. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC802 TEST DEVICE DD CARD IS NOT TYPE 2, 3, 4 OR 5

The test device DD card is not a type 2, 3, 4 or 5 DD card. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC803 PARAMETER ERROR (xx..xx)

The parameter xx..xx is either coded incorrectly or is invalid for the DIAGNOSTIC function.

STC804 TEST DEVICE FAILED TO OPEN

An open for the test device failed. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

STC805 TEST(S) SELECTED -- aa..aa

The test list aa..aa has been specified for this execution of the DIAGNOSTIC function.

STC806 TESTING DEVICE a, VOL SER v, N-TRK n

The device at address a with volume serial number v mounted with n tracks allocated for testing will be tested by the DIAGNOSTIC function.

STC807 REQUESTED TEST(S) NOT AVAILABLE

The test name specified in the test list is invalid.

STC808 START DDNAME dddddddd DEVICE aaaa DEVICE TYPE tttttt  
VOLSER vvvvvv  
[D/S START cccc.hhhh D/S END cccc.hhhh D/S Size xxxxx]

Testing has started on the device with DDNAME dddddddd, address aaaa, device type tttttttt, and volser vvvvvv.

If the device is DASD, the start, end, and size of the dataset is also displayed.

STC809 START DDNAME dddddddd DEVICE aaaa DEVICE TYPE tttttt  
VOLSER vvvvvv  
[D/S START cccc.hhhh D/S END cccc.hhhh D/S Size xxxxx]

message

Testing has ended on the device with DDNAME dddddddd at address aaaa, device type tttttttt with volser vvvvvv. If the device is DASD, the start, end, and size of the dataset is also displayed. Valid messages and their meanings are:

1. NO ERRORS DETECTED - All diagnostic tests were completed successfully.
2. DEVICE ERRORS DETECTED - Errors detected on one or more diagnostic tests.
3. NO TESTS EXECUTED - No diagnostic tests executed.

**STCPOST Messages**  
**STC811**

**STC811 OPERATOR 'STOP' COMMAND RECEIVED**

A stop command entered at the operator's console was accepted by the DIAGNOSTIC function. DIAGNOSTIC will terminate.

**STC812 ENTER DIAGNOSTIC TEST LIST, 'GO', OR 'END'**

Reply with a new list of tests to execute, 'GO' to execute the tests listed by message STC805, or 'END' to terminate execution of the DIAGNOSTIC function.

**STC813 OPERATOR INPUT - xx..xx**

The reply entered at the operator's console in response to the preceding STCPOST message was xx..xx.

**STC814 START xx..xx, DEVICE aaa, bb..bb**

The diagnostic test with name xx..xx and title bb..bb has started on the device at address aaa.

**STC815 END xx..xx, DEVICE aaa, nn ERRORS**

The diagnostic test with name xx..xx has ended on the device at address aaa. nn errors occurred during execution of this test.

**STC816 DROP xx..xx, DEVICE aaa, mm..mm**

The diagnostic test with name xx..xx will be dropped from the test list for the device at address aaa for reason mm..mm. Possible reasons and their meanings are:

1. FATAL ERROR - A fatal error occurred during execution of the test.
2. NO WRITE SPACE - No space is allocated for write testing or the space allocated is in the wrong location.
3. NOT STAND-ALONE - The test can only be executed with STCPOST executing under the STCPOST Stand-Alone Executive (SAE) on a real CPU.
4. WRONG VERSION/LEVEL - The test can not be executed because the test is at a different version/level than the rest of the STCPOST program.

STC817 INVALID OPTION (xx..xx)

The option (xx..xx) entered in response to message STC819 is invalid.

STC818 OPTIONS ARE --

The options in effect for this execution of the DIAGNOSTIC function are listed.

STC819 ENTER OPTIONS, 'GO', OR 'END'

Reply with a new list of options, 'GO' to use the options listed by message STC818 or 'END' to terminate execution of the DIAGNOSTIC function.

STC822 ENTER DIAGNOSTIC DEVICE LIST, 'GO' OR 'END'

This message prompts the user for a device list. The user may enter the devices he wants to test or 'GO' if the current device list is correct. Entering 'END' will cause the function to be terminated. The devices entered must be configured to be tested.

STC823 INVALID DEVICE (xx..xx)

The operator has specified an invalid device address or DD NAME. Re-enter the correct device specification.

STC824 INVALID TEST (xx..xx)

The operator has specified an invalid test name. Re-enter the correct test specification.

STC825 DEVICE(S) SELECTED --

The current device list is printed. The user will be prompted to change or submit the current device list for testing. If the devices submitted are not valid or configured the word 'NONE' will be displayed.

STC830 DDNAME d - CONFIGURED OK - DEVICE a VOLSER v  
DEVICE TYPE t [ D/S SIZE xxxxxxxx]  
[ D/S START cccc.hhhh D/S END cccc.hhhh ]

The device with DDNAME d at address a, device type t with volser v has been configured correctly.

If the device is DASD, the start, end, and size of the dataset are also displayed.

STCPOST Messages  
STC831

STC831 NO DEVICES CONFIGURED

There are no devices configured or the devices have failed to configure correctly. Check the configuration message output to determine why the devices did not configure.

STC832 DDNAME d - NOT CONFIGURED - reason

The device with DDNAME d did not configure. Reasons for not configuring are:

1. GETMAIN FOR I/O BUFFER FAILED - A GETMAIN request for an I/O buffer failed. Execute STCPOST in a larger region or partition.
2. DD CARD NOT TYPE 2, 3, 4 or 5 - The test device DD card for this DDname is not a type 2, 3, 4 or 5 DD card. Verify that the DD card is coded correctly.
3. NO TRACKS ALLOCATED - The test device defined for this DDname has no space allocated for testing. At least one track is required on a CKD device for the DIAGNOSTIC function.
4. NO BLOCKS ALLOCATED - The test device defined for this DDname has no space allocated for testing. At least one block is required on a FBA device for the DIAGNOSTIC function.
5. OPEN FAILED - An open for the device failed. Verify that the DD card is coded correctly.
6. NO DD CARD FOR TEST DEVICE - No device has been defined for this DDname. Verify that the test device DD card is coded correctly.
7. OS STANDARD LABEL - The tape device has been mounted with a standard label tape. Only non-labeled tapes may be used to prevent damage of customer data.
8. UNKNOWN TEST DEVICE - The test device DD card for this DDname defines a device that is not supported by the DIAGNOSTIC function. Verify that the DD card is coded correctly.

STC833 I/O ERROR ...

This is an STCPOST standard error message. An error occurred during device configuration.

| **STC837 REQUESTED DEVICE(S) NOT AVAILABLE**

| There were no devices selected. The devices that were requested for testing by the operator or by control card input did not match any of the configured devices.

| **STC838 TEST ttt NOT SELECTED - reason**

| Test ttt was not selected for execution. This message is issued for all tests which are contained in the test range specified but which will not be executed. Reasons for not being selected are:

- | 1. MUST BE REQUESTED - The test is only executed if specifically requested. It will not be executed if a test range is specified.
- | 2. NO WRITE SPACE - No space is allocated for write testing.
- | 3. NOT STAND-ALONE - The test can only be executed with STCPOST executing under the STCPOST Stand-Alone Executive (SAE) on a real CPU.

**STC850 UNSUPPORTED OLT MACRO CALL AT aa..aa, R1=bb..bb**

The OLT Transient Manager was called from address aa..aa but the type of call is either unknown, invalid or unsupported. The contents of register 1 at the time of the call was bb..bb. This message indicates the presence of an internal error in a diagnostic test and should be reported to STC FE Software Support.

**STC851 OLT CALL AT aa..aa, R1=bb..bb, ID=cc**

The OLT Transient Manager was called from address aa..aa. The contents of register 1 at the time of the call was bb..bb. The ID of the OLT making the call is cc. This message is only printed if the TMTRACE parameter was specified.

**STC852 OLT LOADED AT aa..aa**

An OLT has been loaded starting at address aa..aa. This message is only printed if the TMTRACE parameter was specified.

**STCPOST Messages**  
**STC853**

**STC853 TECB BEFORE I/O --**

A dump of the TECB prior to the start of the I/O operation follows. This message is only printed if the TMTRACE parameter was specified.

**STC854 TECB AFTER I/O --**

A dump of the TECB after the I/O operation is completed follows. This message is only printed if the TMTRACE parameter was specified.

**STC855 aa..aa RTN bb BYPASSED -- MANUAL INTV REQUIRED**

Routine bb of test aa..aa requires manual intervention but the MI parameter or option was not specified. The routine will be bypassed.

**STC860 tttttttt rr - mmm...mmm**

Diagnostic test tttttttt routine rr has issued message mmm...mmm. This message may or may not be a reply message. If it is a reply message, the diagnostic test will not continue until a reply is made at the operator's console.

**STC861 OPERATOR REPLY - rrr...rrr**

The operator has replied to a reply message (see message STC860). rrr...rrr is the reply text.

**STC900 CUTRACE -- DEVICE ADDRESS a, VOL SER v**

The CUTRACE function will be executed on the device at address a with volume serial number v mounted.

**STC901 PARAMETER ERROR (xx..xx)**

The parameter xx..xx is either coded incorrectly or is invalid for the CUTRACE function.

**STC902 TEST DEVICE DD FAILED TO OPEN**

An open for the test device failed. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.



**STC903 TEST DEVICE IS NOT A DEVICE WHICH ATTACHES TO A 8000, 4000 OR 8880 CONTROL UNIT**

The test device DD card defines a device which is not a 2305, 3330-1, 3330-11 or 3350 type device. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC904 CU TYPE 4000 REQUIRES 2305-2 TEST DEVICE TYPE**

The test device DD card defines a device which is 2305-2 type device but the CUTYPE parameter does not specify a 4000 CU. Verify that the test device DD card for the current setting of the OPTION function DDNAME parameter is coded correctly.

**STC905 CUTYPE PARAMETER IS REQUIRED**

The CUTYPE parameter was not specified on the function control card. This parameter is required for the CUTRACE function.

**STC921 LESS THAN 1024 BYTES TRANSFERRED**

A 'Read Diagnostic Status 1' CCW has returned less than 1024 bytes of data. A valid control unit trace contains either 1024 or 2816 bytes of data.

**STC922 MORE THAN 1024 BUT LESS THAN 2816 BYTES TRANSFERRED**

A 'Read Diagnostic Status 1' CCW has returned an invalid number of data bytes. A valid control unit trace contains either 1024 or 2816 bytes.

**STC923 CONTROL UNIT TRACE DUMP WAS NOT SUCCESSFUL**

An error occurred attempting to read the control unit trace data. The function terminates.

**STC931 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read the control unit trace data from an ISC or an 8000-2.

**STC932 MICROPROGRAM TRACE DUMPED FROM A xx..xx**

The following microprogram trace data was dumped from an xx..xx type control unit where xx..xx is either ISC or 8000-2.

**STCPOST Messages**  
**STC940**

**STC940 8880 CONTROL UNITS ARE NOT SUPPORTED**

The CUTYPE parameter specified 8880 but these control units are not yet supported.

**STC950 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read the diagnostic loader from a 4000 CU.

**STC951 I/O ERROR ...**

This is an STCPOST standard error message. An error occurred attempting to read the control unit trace data from a 4000 CU.

**STC952 DIAGNOSTIC WRITE/READ STATUS 1 FAILED**

An attempt to read a diagnostic routine from the floppy disk failed. The routine is used to read the sectors containing trace data. The function terminates.

**STC953 CONTROL UNIT TRACE DUMP WAS NOT SUCCESSFUL**

An attempt to read a portion of the trace buffer failed. The function terminates.

**STC954 TRACE INLINE NOT RUN OR INLINE ERROR**

The trace data read from the 4000 CU indicates that the control unit trace was either not active, was stopped or the inline which activates the trace had an error.

**STC955 TRACE PARMS NOT ENTERED - NO TRACE DATA STORED**

The trace was activated, but the engineer who started the trace did not specify whether to do a pre- or a post-trigger. The function terminates. The engineer should restart the trace function and repeat the testing which was to trigger the storage of trace data.

**STC956 PRE-TRIGGER ENABLED, TRACE DATA NOT STORED**

The trace function was enabled for a pre-trigger which never occurred. The function terminates. The engineer should consider a different trigger condition.

**STC957 POST-TRIGGER ENABLED, TRACE DATA NOT STORED**

The trace function was enabled for a post-trigger which never occurred. The function terminates. The engineer should consider a different trigger condition.

**STC958 PRE-TRIGGER OCCURRED, TRACE DATA FOLLOWS**

The trace function was enabled for a pre-trigger. The trigger condition occurred. The trace data which was stored is printed.

**STC959 POST-TRIGGER OCCURRED, TRACE DATA FOLLOWS**

The trace function was enabled for a post-trigger. The trigger condition occurred. The trace data which was stored is printed.

**STC960 INVALID TRACE INDICATOR = X'x'**

After the trace data was read, the trace indicator flag was found to have an unsupported value. The only values which are permitted are 0, 8, A, B, C, and D. The function terminates. This error indicates a microcode problem.

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