40.0   MESSAGES AND CODES

40.1   RETURN CODES

FATS RETURN CODES

FATS will set the following completion or return codes:

0   Normal completion. No serious errors.

12   Serious errors have occurred and the RETCODE option has been specified (user abend U0888 is issued otherwise).

32   A trial version of the product is being executed and the trial period has expired. Contact Innovation if you wish to continue your testing or install the production version.

FATAR/ FATSCOPY RETURN CODES

FATAR and FATSCOPY will set the following completion or return codes. Note that FATAR only sets return codes 4 and 8 if the SETNZRC operand is specified. If it is omitted, FATAR will set return code 0 for those conditions.

0   Normal completion. No serious errors.

4   Unusual conditions occurred, including: unable to load PRINT or ASCII translate table, EOD (end of data) mark encountered, FATSCOPY called for a new output tape during LASTAPE processing. However, the function ran to completion.

8   Unusual conditions occurred, including: missing DD statements, TAPEIN block count incorrect, VBS spanning error, unable to deblock/reblock, control statement not referenced, unable to catalog or rename output data set, tape management errors and other conditions. The function may not have completed; check the messages.

12   Serious errors have occurred and the RETCODE option has been specified (user abend U0200 or U0888 is issued otherwise). FATSCOPY will also set return code 12 if dynamic allocation or OPEN of an input tape fails.

32   A trial version of the product is being executed and the trial period has expired. Contact Innovation if you wish to continue your testing or install the production version.

68   One of the FATSCOPY interface modules is out of sync. This will usually occur if FATSCOPY loads a back level version of FATRMM, FATTMS, or FATTLMS. If you recently installed a new release of FATSCOPY, verify that FATSCOPY isn't picking up a back level version of one of these modules from the linklist.

40.2 ABEND CODES

ABEND CODES FATS, FATAR, and FATSCOPY may issue the following user and system abend codes. Most abends will be accompanied by an explanatory message.

S0C3 A S0C3 abend in FATS, FATAR, or FATSCOPY occurs when an unexpected condition occurs to create a dump to help Innovation debug the problem. Save the dump and contact Innovation for assistance.

U0001 FATSCOPY was unable to obtain the amount of storage required for its internal tables. Add REGION=0M to your JOB or STEP statement and rerun the job. Contact Innovation for assistance if the problem persists.

U0047 The FATS, FATAR, or FATSCOPY program is not authorized. See message FATS112.

U0100 (FATAR only) TAPEIN DD statement missing, TAPEIN or TAPEOUT is not assigned to a tape unit, or an open failure on TAPEIN or TAPEOUT

U0200 (FATAR only) Unrecoverable I/O error on TAPEOUT. If the RETCODE parameter is specified, a return code of 12 is issued instead of this abend.

U0300 (FATSCOPY only) No data sets were selected. This abend may occur if the input contains more than 1 file and MULTIFILE=YES wasn't specified on the COPY statement. It may also occur if all of the data sets that would have been selected were marked as Offsite. Check the information under the REASON heading in the Data Set Selection Report for the reason that a data set was not selected. Most of the REASON indicators are self-explanatory, but some of them are explained here:

  o **NOTMINFO –** No tape management information for volume.

  o **INV DSN –** Invalid data set name.

  o **MISMATCH –** The data set name and location recorded in tape management does not match the name and location recorded in the system catalog.

U0401 Open error or I/O error on SYSIN.

U0402 Open error or I/O error on a PRINT data set.

U0403 The PARM passed to FATUADIT was invalid. Specify either PARM=DETAIL or PARM=SUMMARY.

U0502 Error in FATS, FATAR, or FATSCOPY control statements.

U0888 Major errors on tape. For FATS, any condition causing abnormal completion of a FATS function (indicated by "ABNORM" in the FATS summary report). For FATAR and FATSCOPY, unrecoverable I/O errors on TAPEIN other than data checks, or MAXERR= or MAXTERR= values exceeded. If the RETCODE parameter is specified, a return code of 12 is issued instead of this abend.

U0913 Security for FATS (Section 11.8) or FATAR (Section 21.6) has been implemented and the user did not have authority to perform the requested function.

40.3 CONSOLE MESSAGES

CONSOLE MESSAGES

The following write-to-operator (WTO) and write-to-operator-with-reply (WTOR) messages may be issued by FATS, FATAR, or FATSCOPY. They will be written to route code 3 (tape pool console).

FATSW01 **REQUEST TO LABEL TAPE ON UNIT uuuu REPLY WITH SERIAL NUMBER**

Reason: The OPERATOR parameter has been specified or the SAVLAB function found that the tape was not a labeled tape.

Action: Respond with a 1-to-6 character volume serial. FATS will left justify it, blank fill it, and label the tape on tape unit "uuuu".

FATSW02 **REPLY EOJ/KEOJ/Kuuuu TO TERMINATE**

Reason: FATS will always issue this WTOR at the start of every FATS run to allow the operator to control and terminate FATS.

Action: It will not be necessary to reply to this message unless:

1) MULT was specified without MAXVOLN=;

2) It is desired to terminate FATS before its normal termination; or

3) A particular tape must be halted. Valid responses are:

EOJ -- FATS will terminate after all tapes that are currently in progress have   completed. Any pending tape mounts must be satisfied.

KEOJ -- FATS will halt all tapes in progress, cancel any pending mounts, and terminate with a U0888 abend or return code 12.

Kuuuu -- Where "uuuu" is the 3 or 4-digit address of a tape drive allocated to FATS. Any mount or tape in progress on that drive will be halted. If appropriate, another tape may be requested on the drive. Other drives allocated to FATS will not be affected. If "uuuu" is not a drive in use by FATS, it will be ignored. The FATSW02 message will be reissued.

FATSW03 **FATS ANALYSIS OF TAPE ON UNIT=uuuu VOL=vvvvvv PERM ERRORS=ppppp TEMP ERRORS=ttttt**

Reason: The WTO parameter has been specified. This message will be issued at the end of processing for each tape, giving unit "uuuu", volume serial "vvvvvv", and the total number of permanent and temporary errors ("ppppp" and "ttttt"). If a tape has major errors causing it to be halted prematurely, "ppppp" will be "MAJOR".

FATSW04 **MOUNT NEXT TAPE ON UNIT=uuuu VOL=vvvvvv**

Reason: Issued by FATS to request mounting of another tape on tape unit "uuuu". The volume serial "vvvvvv" may be an explicit serial or "SCRTCH" as appropriate.

Action: Mount the requested tape on unit "uuuu".

FATSW05 **FATS HAS STOPPED ON DATA CHECK ON UNIT=uuuu REPLY CONT, TERM, NOSTOP**

Reason: The STOP or STOPNUM= parameters have been specified and a permanent data check has occurred. FATS stops to allow visual inspection of the tape at the point of the error.

Action: Inspect the tape on tape unit "uuuu", if desired, re-ready the tape, and reply:

CONT -- To continue certifying/verifying, stopping again on the next data check.
TERM -- To terminate processing of the tape.
NOSTOP -- To continue certifying/verifying without stopping on further data checks.

Note that if you remove the tape from the "READY" state to inspect it, you will probably be unable to re-ready it at the same spot and be forced to reply "TERM".

FATSW06 **PLEASE CLEAN UNIT=uuuu THEN (RE)MOUNT VOL=vvvvvv**

Reason: The MAXCLEAN= or ERRCLEAN= parameters were specified. If MAXCLEAN=n then "n" tapes have been processed on unit "uuuu" since the last cleaning. If ERRCLEAN=n then more than "n" errors have occurred on unit "uuuu" (the message will say REMOUNT).

Action: Clean tape unit "uuuu" and mount or remount the specified volume "vvvvvv".

FATSW07 **INVALID RESPONSE TO TERMINATE MESSAGE -- RE-ENTER**

Reason: The response to message FATSW02 was not "EOJ", "KEOJ", or "Kuuuu". FATSW02 will be reissued.

Action: Reply with a valid response for message FATSW02.

FATSW08 **VOL=vvvvvv MOUNTED,DSN=d...d,EXPDT=yyddd**
     UNIT=uuuu REQUIRES VOL=xxxxxx-REPLY IGNORE, UNLOAD, TERM, SKIP
     UNIT=uuuu DSN NOT EXPIRED -- REPLY IGNORE, TERM, SKIP

Reason: The VALIDATE= parameter was specified to validate input and/or output labeled tapes with LABEL=(,BLP). Either the wrong volume was mounted or the expiration date on an output volume was not reached. In the first line of the message, "uuuu" is the tape unit, "vvvvvv" is the actual volume mounted, "d...d" is the data set name read from the tape, and "yyddd" is the expiration date. One of the next two formats of the message will be issued ("xxxxxx" is the volume expected).

Action: Reply with:

     IGNORE -- To ignore the error and accept the volume mounted.
     UNLOAD -- To unload the volume and request mounting of another tape.
     TERM -- To terminate FATS or FATAR.
     SKIP -- To terminate this volume and go on to the next (FATS only).

FATSW11 **FATAR FILE ffff OPERATION UNIT=uuuu,VOL=vvvvvv,BLOCKS=bbbbbb,PERM ERRS=ppppp,TEMP ERRS=ttttt**

Reason: The WTO parameter has been specified. The message will be issued at the end of processing each input file, giving file number "ffff", unit "uuuu", volume serial "vvvvvv", input block count "bbbbbb", and the total number of permanent and temporary errors ("ppppp" and "ttttt") in that file. "Operation" will be "ANALYZED ON" (if TAPEOUT absent), "COPIED FROM" (if TAPEOUT present), or "VERIFIED ON" (if verifying TAPEOUT)

Action: None

FATSW12 **FATAR FILE ffff OPERATION UNIT=uuuu,VOL=vvvvvv REPLY CONT, TERM, OR NOSTOP**

Reason: The STOP parameter has been specified. The message will be issued at the end of processing each input file, giving file number "ffff", unit "uuuu", and volume serial "vvvvvv". "Operation" will be "ANALYZED ON" (if TAPEOUT is absent), or "COPIED FROM" (if TAPEOUT present).

Action: Reply with:

     CONT -- To continue with the next input file, stopping again at the end of that file
     TERM -- To terminate processing of TAPEIN
     NOSTOP -- To continue with the next file without stopping at the end of further files

FATSW13 **REPLY IS: TEXT**

Reason: Automatic reply to tape management message.

FATSW14 **INVALID MODIFY COMMAND GIVEN: text....**

Reason: "text" was specified in MODIFY (F) id,text operator command. "id" is the FATS jobname for which the MODIFY command was intended. "text" is either "QUIT" or "Kuuuu" to terminate FATS when current tapes are done or to immediately terminate processing for tape unit "uuuu".

Action: None. Command is ignored.

FATSW15 **NO DSNTABLE DD. RESTART WILL FAIL. DO YOU WANT TO END JOB? YES/NO**

Reason: The operator entered an f jobname,stop console command to stop the FATSCOPY job when it finishes copying the current data set. FATSCOPY requires a DSNTABLE DD in the JCL to create the data set needed to restart the job.

Action: A reply of 'YES' will stop the job, which will need to be restarted from the beginning. A reply of 'NO' will allow the job to continue until it finishes copying all of the remaining data sets. **Innovation strongly recommends a reply of 'NO'.**

FATSW16 **OPEN OF AUDIT DATA SET FAILED. DO YOU WANT TO CONTINUE? REPLY YES/NO**

Reason: An AUDITRPT DD was found in the JCL, but FATSCOPY was unable to open the data set.

Action: A reply of 'YES' will allow the job to continue, but no audit records will be generated. A reply of 'NO' will end the job. Innovation strongly recommends a reply of 'NO'.

FATSW17 **FATSCOPY ABEND RECOVERY: STARTING**

FATSCOPY ABEND RECOVERY: ENDING

Reason: The operator entered a *c jobname* console command to stop the FATSCOPY job, or a FATSCOPY abend occurred. These messages indicate that the FATSCOPY routine to process the interruption was executed. If you specified a DSNTABLE DD statement in the job, these messages should be accompanied by a FATSW18 message.

Action: **Do not enter a CANCEL command while the recovery routine is running.**

FATSW18 **FATSCOPY ABEND RECOVERY: DSNTABLE DATASET WRITTEN**

Reason: The operator entered an *c jobname* console command to stop the FATSCOPY job, or a FATSCOPY abend occurred. A DSNTABLE DD was present in the JCL, so FATSCOPY was able to create the data set needed to restart the job from the point where the job was interrupted. A FATS189 print message will also be issued.

FATSW89 **-- xxxx -- TRIAL VERSION FROM INNOVATION DATA PROCESSING EXPIRES IN nnn DAYS.**

-- xxxx -- TRIAL VERSION FROM INNOVATION DATA PROCESSING EXPIRED ------------- PLEASE CONTACT INNOVATION.

Reason: "xxxx" (FATS,,FATAR, or FATSCOPY) trial will expire in "nnn" days or "xxxx" trial has expired. The version of FATS, FATAR, or FATSCOPY that you are running is a trial version and has expired or will expire shortly.

Action: If you have purchased FATS, FATAR, or FATSCOPY and have received the tape or electronic version, make sure that it was properly installed and the trial version has been deleted. Then rerun the job. If you have not yet purchased FATS, FATAR, or FATSCOPY, call Innovation.

FATSW99 **SHOULD DUMP BE TAKEN? YES/NO**

Reason: DUMP=ASK was specified on the FATAR or FATSCOPY statement and an ABEND that normally does not generate a dump was generated.

Action: The operator can reply **YES** or **NO** to indicate if an ABEND dump should be take. A SYSUDUMP or SYSABEND DD statement must be present in the step JCL.

40.4 PRINT MESSAGES

PRINT MESSAGES FATS, FATAR, and FATSCOPY may issue the following messages to their data sets (SYSPRINT or SYSPRINx).

FATS001   **TAPEIN DD STATEMENT MISSING**

Reason: The DD statement for TAPEIN is missing from the job step JCL.
Action: FATAR is terminated with a U0100 abend. Correct the JCL and resubmit the job.

FATS002   **TAPEIN DEVICE IS NOT A TAPE UNIT**

Reason: The DD statement for TAPEIN does not reference a supported tape unit type.
Action: FATAR is terminated with a U0100 abend. Correct the JCL and resubmit the job.

FATS003   **TAPEIN COULD NOT BE OPENED**

Reason: The open of the input tape on TAPEIN failed.
Action: FATAR is terminated with a U0100 abend. Check the printout for operating system messages indicating the cause.

FATS005   **TAPEOUT DEVICE IS NOT A TAPE UNIT**

Reason: The DD statement for TAPEOUT does not reference a supported tape unit type.
Action: FATAR is terminated with a U0100 abend. Correct the JCL and resubmit the job.

FATS006   **TAPEOUT COULD NOT BE OPENED**

Reason: The open of the output tape on TAPEOUT failed.
Action: FATAR is terminated with a U0100 abend. Check the printout for operating system messages indicating the cause.

FATS010   **CONTROL CARD ERROR -- REASON x**

Reason: A syntax or usage error has been detected in the control statement printed immediately preceding the message. Only one FATS010 message will be printed for each input statement (multiple errors will not be diagnosed). "x" is a character indicating the type of error detected:

1 – Open failed for the control statement data set (SYSIN or SYSINx).
2 – Control statement is completely blank.
3 – An invalid operation keyword was found on the control statement.
4 – More than one ANALYZE/COPY control statement was found.
5 – The control statement required at least one keyword parameter but did not contain one.
6 – A specific keyword parameter was required on the control statement but was not found; a required parenthesis was missing; or a keyword was misspelled.
7 – An ANALYZE/COPY control statement was required but not found.
8 – T= on TABLE statement in error. Letter previously used.
9 – A numeric value for a keyword parameter exceeds the allowed maximum for that keyword.
A – A value for a keyword parameter was zero or non-numeric.
B – Continuation card required but not found.
C – B= keyword in error. Block range specified but not in ascending order.
D – D=, V=, or S= keyword in error. Length of data is more than 256 bytes or characters.
E – D=, V=, or S= keyword in error. Data field must contain at least 1 byte or character.
F – ENDAFTER= keyword error.
G – Control statement table is too small to contain all information from the control statements present. Increase the table size via the EXEC JCL statement PARM field.
H – Error in X' or C' data: no closing apostrophe, invalid hex digits, or an odd number of hex digits.
J – Invalid data string. Must start with X ' or C'
K – Error in T= keyword. On SCAN statement, must be A-Z and defined in a previous table statement (except for P and Z). On table statement, must be A-O or Q-Y and not previously used.
L – EXITNAME was not found, or length of EXITNAME is zero.
M – Data set name specified by NEWN= on a RENAME statement is invalid.
N – Data set name mask specified by NEWI= or CATDSN= on a SELECT, EXCLUDE or RENAME statement is invalid.
O – Invalid mask on SELECT statement or in HSMxxxMASK= operands.
P – Invalid volume list or volume mask, conflicting selection parameters (such as DSN=), or invalid range on SELECT statement; or SELECT CATDSN and SELECT ALLDSN statements both present.
Q – Invalid value for ABRINDEX= operand.
R – Invalid value for OPCAP= operand.
S – Conflicting operands on the COPY statement.
T – Invalid esoteric name specified in the VIRTUNIT= or UNITIN= operands.
U – Conflicting RENAME statements: more than one RENAME applies to the same file.
V – LASTAPE data set name invalid.
W – Invalid keyword specified on EXCLUDE. EXCLUDE accepts only CATDSN, DSN, VOL, and DEVTYPE operands.
X – EXLASTPGM= or EXLASTJOB= specified, but is not valid for the tape management system in use.
Y – Invalid value specified in the GROUPBY= operand.
Z – Invalid value specified in the VIRTTYPE= operand, or PHYSVOL= or ALLPHYS= has been specified without also specifying VIRTTYPE=.

Action: FATAR/FATSCOPY will abend with a U0502 abend code after all control statements have been scanned.

FATS011   ****INVALID CONTINUATION CARD**

Reason: FATSCOPY detected an invalid continuation on an input statement.
Action: FATSCOPY will abend with a U0502 abend code. Correct the errors and re-execute.

FATS013   **ONE OR MORE ERRORS DETECTED -- FATAR TERMINATED**

Reason: Message FATS010 was issued for one or more control statement errors.

Action: FATAR will abend with a U0502 abend code. Correct the errors and re-execute.

FATS014   **NO CONTROL CARD DATASET. DEFAULTS ASSUMED**

Reason: No SYSIN DD statement for control statement input was present in the job step JCL; if FATAR was invoked
by FATS, no SYSINx DD was present.

Action: All defaults are assumed for all ANALYZE statement parameters. If FATAR was invoked by FATS, any
FATAR parameters specified in FATS statements will override these defaults.

FATS016   **ANALYSIS TERMINATED DUE TO MAJOR ERROR**

Reason: An unrecoverable hardware error has occurred on the input tape drive or channel. Preceding messages will
give details of the error.

Action: FATAR is terminated with a U0888 abend or return code of 12. Contact Innovation if you need assistance in
determining the cause.

FATS016   ****COPY TERMINATED DUE TO MAJOR ERROR VOL=volser DSN=dsn**

Reason: An unrecoverable hardware error has occurred on the input tape drive or channel. Preceding messages will
give details of the error.

Action: FATSCOPY will terminate the current data set and select the next input data set.

FATS017   **MAXIMUM ERRORS EXCEEDED -- FATAR TERMINATED**

Reason: The number of unrecoverable data checks exceeded the MAXERR= parameter, or the number of recoverable
data checks exceeded the MAXTERR= parameter.

Action: FATAR is terminated with a U0888 abend or return code of 12.

FATS017   **MAXIMUM ERRORS EXCEEDED VOL=volser DSN=dsn COPY TERMINATED**

Reason: The number of unrecoverable data checks exceeded the MAXERR= parameter, or the number of recoverable
data checks exceeded the MAXTERR= parameter.

Action: FATSCOPY will terminate the current data set and select the next input data set.

FATS019   **pgmname MUST BE IN AN AUTHORIZED LIBRARY. PROGRAM TERMINATED**

Reason: FATAR and FATSCOPY must be executed as APF authorized programs. Either the program library
containing FATAR or FATSCOPY was not marked as an APF authorized library on your z/OS system, or your
STEPLIB or JOBLIB DD statement has nonauthorized libraries concatenated to the FATAR/FATSCOPY
program library, or FATAR/FATSCOPY has been relinked as nonauthorized (AC=0).

Action: FATAR or FATSCOPY will terminate with a U0047 ABEND.

FATS020   **ANALYSIS TERMINATED AT TAPEMARK SEQUENCE**

Reason: If labels are being processed by FATAR, two consecutive tape marks were read after a label file. If labels are
not processed and NUMFILES=0 was specified or defaulted, two consecutive tape marks were read.

Action: Processing of the input tape is completed.

FATS020 ****COPY COMPLETE. ALL VOLUMES PROCESSED**

Reason: All of the volumes and data sets selected for copying have been processed. A zero return code indicates that FATSCOPY has copied all of the data sets, cataloged the output data sets, updated tape management and expired the inputs, if necessary. A non-zero condition code indicates errors occurred during the copy process, which may have resulted in some data sets not being copied, cataloged, or updated in tape management.

Action: Processing of the input data sets is completed.

FATS021 **ANALYSIS TERMINATED BY EOV LABELS DETECTED IN LABELS=NO MODE**

Reason: If labels are not being processed and NUMFILES=0 was specified or defaulted, FATAR has detected what appear to be IBM or ANSI EOV labels.

Action: Processing of the input tape is completed.

FATS022 **ANALYSIS TERMINATED AFTER SPECIFIED NUMBER OF FILES**

Reason: NUMFILES=n was specified, and "n" logical files have been read.

Action: Processing of the input tape is completed.

FATS023 **ANALYSIS TERMINATED BY ENDAFTER OPTION**

Reason: The file and block specified by the ENDAFTER= parameter was read.

Action: Processing of the input tape is completed.

FATS024 **ANALYSIS TERMINATED BY LOGICAL END OF FILE**

Reason: FATAR attempted to switch to a new input tape volume (due to EOV labels being read, or reaching end-of-file in LABELS=OS mode), but no more volumes were given.

Action: Processing of the input tape is completed.

FATS025 **ANALYSIS TERMINATED BY OPERATOR REQUEST**

Reason: The operator replied "TERM" to the FATSW12 message or FATSW08 message.

Action: Processing of the input tape is halted.

FATS026 **TAPEIN DATA SUCCESSFULLY COPIED TO TAPEOUT VOLUME VVVVVV**

Reason: The TAPEOUT DD statement was present, and reading of TAPEIN data completed successfully. All input data not "DROPPED" has been written to TAPEOUT. The last (or only) volume of TAPEOUT was "vvvvvv".

Action: None.

FATS027 **UNLABELED TAPEOUT REQUIRED MORE THAN ONE VOLUME -- VERIFY CANCELLED**

Reason: TAPEOUT is an unlabeled tape (LABEL=(,NL) or (,BLP)), the VERIFY parameter was specified, and TAPEOUT overflowed to more than one volume.

Action: FATAR cannot verify multi-volume unlabeled tapes. The VERIFY will not be performed.

FATS028 **ANALYSIS TERMINATED DUE TO INVALID LABEL**

Reason: Labels were being processed on TAPEIN, but a valid IBM standard or ISO/ANSI or user label was not read when one was expected.

Action: The invalid data will be printed, and FATAR will be terminated with a U0888 abend or return code 12

FATS030 **EOT ON TAPEOUT BUT VOLUME SWITCH NOT ALLOWED -- FATAR TERMINATED**

Reason: Labels are being processed on TAPEIN, the current file being copied contains user labels, and the SUPULAB parameter (suppress user labels) was not specified. User labels may be required with the EOV (end-of-volume) and header labels written when the file crosses volumes, but FATAR has no way to generate user labels acceptable to the user application.

Action: FATAR is terminated with a U0888 abend or return code 12.

FATS033 **PERMANENT I/O ERROR ON TAPEOUT -- function TERMINATED**

Reason: "**function**" may be FATAR or FATSCOPY, both of which use standard system error recovery on TAPEOUT. An uncorrectable I/O error occurred; messages will follow to detail the error that occurred.

Action: The function will be terminated with a U0200 abend or return code 12. Consult the messages and operating system messages for details of the error. Errors may be avoided by cleaning the TAPEOUT tape drive, and using an output tape certified by FATS or other means.

FATS034 **NOISE BLOCK HAS BEEN READ VOL=volser DSN=dsn**

Reason: A data check block too small to be considered a valid data block has been read; this will not occur on tape cartridge drives. The volume and dsn are displayed only by FATSCOPY.

Action: No recovery attempts will be made. The block will be immediately flagged as a permanent data check.

FATS035 **INCOMPATIBLE TAPE FORMAT. DSN=dsname, VOL=volser**

Reason: The tape drive has reported that it is not capable of reading the input tape. This may occur when a tape written in a certain format (such as 3490E or encrypted format) is mounted on a drive that is not capable of reading that format. This error may also be caused by an uninitialized tape. The volume and dsn are displayed only by FATSCOPY.

Action: FATAR will terminate with a U0888 abend. FATSCOPY will continue with the next input data set. Determine the actual format of the tape, and change the TAPEIN DD statement to allocate an appropriate tape drive.

FATS036 **BLOCK GREATER THAN nnnnnn BYTES READ -- FATAR TERMINATED**

Reason: A tape block longer than "nnnnnn" bytes (as specified by the BLKSIZE= parameter, default 64K) has been read. This form of the FATS036 message is produced only if an output tape is being written, i.e., a TAPEOUT DD statement is present.

Action: FATAR is terminated with a U0888 abend.

FATS036 **** WARNING ** BLOCK GREATER THAN nnnnnn BYTES READ -- BYTE COUNTS WILL BE INCORRECT**

Reason: A tape block longer than "nnnnnn" bytes (as specified by the BLKSIZE= parameter, default 64K) has been read. This form of the FATS036 message is produced when no output tape (TAPEOUT DD statement) is present.

Action: The excess data is discarded, and FATAR continues with the next block. However, byte counts printed will not include the excess bytes.

FATS037 **TAPE LABELS IN ISO/ANSI FORMAT -- TRANSLATED TO EBCDIC**

Reason: FATAR has detected that the labels on TAPEIN are in ISO/ANSI format ("ANSI labels").

Action: The labels will be translated to EBCDIC for printing or processing. Also, the associated data file is assumed to be in ISCII/ASCII and will be translated to EBCDIC.

FATS038 **DATA FILE IN ISCII/ASCII -- TRANSLATED TO EBCDIC**

Reason: The current data file is assumed to be in ISCII or ASCII code. This occurs when DCB=OPTCD=Q is specified on the TAPEIN DD card, or when ISO/ANSI labels were detected on TAPEIN by FATAR.

Action: All data blocks in the file will be translated to EBCDIC for printing and processing.

FATS039   ****WARNING** BLOCK LENGTH GREATER THAN BLOCKSIZE OF bbbbbb DSN=dsname, VOL=volser**

Reason: A block was read whose length is greater than the blocksize "bbbbbb" of the current file (extracted from the header labels of the file, or given on the TAPEIN DD statement if labels are not processed). The volume and dsn are displayed only by FATSCOPY.

Action: None. Unless dropped or modified, the block will be written to TAPEOUT as read.

FATS040   **TAPEIN IS NOT LABELED -- LABELS=NO ASSUMED**

Reason: The LABELS=YES parameter was specified or defaulted, but FATAR did not find valid IBM or ISO/ANSI labels in the first file read.

Action: FATAR will proceed as if LABELS=NO were specified.

FATS042   **TAPEIN TRAILER BLOCK COUNT OF bbbbbb IS INCORRECT**

Reason: The EOF1 or EOV1 trailer label on a labeled TAPEIN file contained a block count "bbbbbb" that did not match the number of blocks actually read from the file by FATAR. The actual block count is found in the "end of file" message preceding this message.

Action: None.

FATS044   **END OF OUTPUT TAPE vvvvvv AFTER nnnnnnnnnn BLOCKS -- NEW VOLUME REQUESTED**

Reason: The end-of-tape reflector (tape indicate) was detected on TAPEOUT volume "vvvvvv" after the "nnnnnnnnnn"th block of the file being copied was written to the output tape.

Action: EOV labels are written on "vvvvvv" (if labeled), and a new output volume is requested.

FATS046   *** * I/O ERROR--> ECB=eeeeeeee   ECB rc description**

Reason: This is the first of several messages issued as the result of a non-data check error on TAPEIN or any error on TAPEOUT. For diagnostic purposes it includes the event control block (ECB, 4 bytes) in hexadecimal along with the description associated with the ECB reason code (1st byte of ECB).

Action: Other messages will indicate whether FATAR can continue or must terminate, depending on the nature of the error. Appropriate manufacturer's manuals should be consulted to determine the cause of the error. Contact Innovation if you need assistance.

FATS047   *** * I/O ERROR--> CSW=wwwwwwww wwwwwwww   csw status desc**

Reason: This is one of several messages issued as the result of a non-data check error on TAPEIN or any error on TAPEOUT. For diagnostic purposes it includes the channel-status word. (CSW, 8 bytes) in hexadecimal along with the description associated with the unit and channel status bytes of the CSW (bytes 4 and 5).

Action: See message FATS046.

FATS048   *** * I/O ERROR--> CCW=cccccccc cccccccc   ccw channel cmd**

Reason: This is one of several messages issued as the result of a non-data check error on TAPEIN or any error on TAPEOUT. For diagnostic purposes it includes the channel-command word (CCW, 8 bytes) in hexadecimal along with the channel command associated with the command code byte of the CCW (byte 0).

Action: See message FATS046.

FATS049 *** * I/O ERROR--> SENSE ssss EXTENDED SENSE ee...ee error description**

Reason: This is one of several messages issued as the result of a non-data check error on TAPEIN or any error on TAPEOUT. For diagnostic purposes it includes the sense bytes (ssss, 2 bytes) in hexadecimal. If available, the extended sense (up to 32 bytes) is displayed. If FATAR or FATSCOPY can determine the cause from the sense and extended sense, a text description of the error is displayed.

Action: See message FATS046.

FATS050 *** * I/O ERROR OCCURRED DSN=dsname,VOL=volser**

Reason: This is one of several messages issued as the result of a non-data check error on TAPEIN or any error on TAPEOUT. For diagnostic purposes it includes identifying information for the data set being processed when the error occurred.

Action: See message FATS046.

FATS051 **RECORD rr BYTE bb LENGTH ll INVALID xxxx DATA FIELD**

Reason: A SCAN statement has detected data that does not meet the user-specified criteria. "rr" is the record number within the current block ("RECORD rr" will not appear if deblocking is not being done). "bb" is the location of the invalid field within the indicated record or block (relative to 1). "ll" is the length of the field. "xxxx" will be "ZONED", "PACKED" or "TYPE t" (where "t" is a table ID).

Action: None.

FATS052 **SCAN FIELD NOT IN RECORD -- SCAN TERMINATED FOR THIS RECORD**

Reason: A SCAN statement applied to a block or record, but the location to be scanned (P= parameter) was beyond the end of the block/record.

Action: SCAN not performed. Check the SCAN parameters.

FATS053 **BLOCK LENGTH ZERO -- BLOCK NOT KEPT**

Reason: A KEEP statement applied to an input block, but the length of the data read was zero (probably due to a data check).

Action: The block will not be written to TAPEOUT.

FATS054 **BLOCK LENGTH CHANGED WHILE IN LOGICAL RECORD MODE -- DEBLOCKING TERMINATED**

Reason: FATAR was deblocking input blocks into individual records, but a KEEP statement changed the length of a block.

Action: The block will not be deblocked.

FATS056 **RECORD TOO SHORT--NO DATA REPLACED**

Reason: A record or block is too short to contain the data specified on a REPLACE statement.

Action: REPLACE not performed. Check the REPLACE parameters.

FATS057 **DATA RECOVERED -- BLOCK NOT MODIFIED**

Reason: A Modification/Scan statement with the DCK parameter applied to a data block, but the block did not have a permanent data check.

Action: The Modification or SCAN will not be performed.

FATS058   **RECORD nnnnn HAS BEEN DROPPED**

Reason: In response to a DROP statement with a record number indicated, record "nnnnn" has been deleted from the current block.

Action: The block will be "compressed" to eliminate the deleted record. If the record format is variable, the block length will be updated.

FATS061   **RECFM/LRECL NOT GIVEN -- FILE ASSUMED UNBLOCKED**

Reason: The record format (RECFM) and logical record length (LRECL) for the current file are not available from either the TAPEIN DD statement or TAPEIN header labels.

Action: FATAR is unable to deblock the current file into logical records and will treat each block as a single record. If deblocking is desired, specify RECFM and LRECL on TAPEIN and re-execute FATAR.

FATS062   **DEBLOCKING ANSI SPANNED RECORDS NOT SUPPORTED -- UNBLOCKED ASSUMED FOR THIS FILE**

Reason: The TAPEIN DD statement or TAPEIN header labels specifies ANSI variable-length spanned records (record format DS or DBS). FATAR does not support deblocking of ANSI spanned records.

Action: Unblocked (record format U) assumed.

FATS063   **BLOCK INVALID FOR RECFM/LRECL IN USE--DEBLOCKING TERMINATED**

Reason: Blocks in the current file were being deblocked into logical records, but the current block cannot be deblocked using the record format and logical record length provided by the TAPEIN DD statement or TAPEIN header labels. For fixed length records, the block is not an exact multiple of the record length. For variable length records, the record descriptor words (RDW) may be invalid or indicate a length greater than the block size.

Action: The current block will be treated as unblocked. If the record format and length given are correct, the block is invalidly formatted; if not, specify the correct RECFM and LRECL on TAPEIN and re-execute FATAR.

FATS064   **FILE NOT ELIGIBLE FOR REBLOCKING -- REBLOCKING SUPPRESSED FOR THIS FILE**

Reason: REBLOCK= was specified, but the current file cannot be reblocked for one of the following reasons:

  1)   The record format is not fixed or variable.

  2)   The record format is variable spanned.

  3)   The blocksize is zero.

  4)   The logical record length is zero (if the record format is FB or VB).

  5)   The blocksize is greater than the MAXRBLK= parameter, if specified.

  6)   The blocksize of the input data set is equal to the blocksize requested on the REBLOCK operand. The output data set will not be reblocked.

  7)   The output blocksize is less than the input blocksize.

Action: The file will be copied without reblocking.

FATS065   **RECORD LENGTH TOO LARGE FOR REBLOCKING -- REBLOCKING SUPPRESSED FOR THIS FILE**

Reason: REBLOCK= was specified, but the logical record length of the current file is larger than the specified reblocking block size.

Action: The file will be copied without reblocking.

FATS066   **THIS FILE WILL BE REBLOCKED TO A BLOCKSIZE OF nnnnn**

Reason: REBLOCK= was specified, and the current file can be reblocked. The new block size "nnnnn" will be equal to the reblocking block size for variable length files, or the next lower multiple of the record length for fixed length files

Action: The file will be copied and reblocked.

FATS067   **INPUT DEBLOCKING ERROR WHILE REBLOCKING -- FATAR TERMINATED**

Reason: REBLOCK= was specified, and the current file was being reblocked, but an error occurred extracting logical records from the current input block; message FATS063 will precede this message.

Action: Since the labels on the output tape reflect the new blocksize, FATAR will be terminated with a U0888 abend or return code of 12. Specify the correct RECFM and LRECL on TAPEIN and re-execute FATAR.

FATS068   **INPUT RECORD TOO LARGE WHILE REBLOCKING -- FATAR TERMINATED**

Reason: REBLOCK= was specified, and the current file was being reblocked, but an input logical record was larger than the output reblocking blocksize.

Action: Since the labels on the output tape reflect the new blocksize, FATAR will be terminated with a U0888 abend or return code of 12. Specify a larger value for REBLOCK= and re-execute FATAR.

FATS069   **RECORD nnnnn SPANNING ERROR -- xxxxx OF SEGMENT MISSING**

Reason: The TAPEIN JCL or tape labels specifies variable spanned records for the current file, and FATAR has detected an incomplete spanned record. "xxxxx" will be "START" if the end of a record was found without a corresponding beginning, or "END" if a new record was found before a previous spanned record was complete. "nnnnn" is the record number within the current block where the error was found. If "xxxxx" is "END", the error is probably actually in the preceding block(s).

Action: An additional FATAR run may be required to print the appropriate blocks and determine which records are truly in error. Another run using FATAR REPLACE statements to fix the spanning flags, or DROP statements to delete the partial records, may be used to fix the tape.

FATS070   **CONTROL CARD TABLE SIZE IS n BYTES**

Reason: This message is always printed to document "n", the size of the FATAR control statement storage table. This size defaults to 32768 but can be increased by the SIZE= parameter in the FATAR EXEC JCL statement PARM=.

Action: If this FATAR execution receives message FATS010 reason G, increase the table size.

FATS071   **TAPE BUFFER SIZE IS nnnnnn BYTES**

Reason: This message is always printed to document the size of the FATAR/FATSCOPY TAPEIN read buffer. The default size is 262144 or 256K bytes but can be reduced by use of the BLKSIZE= parameter.

Action: Any blocks on TAPEIN exceeding "nnnnnn"+1 in length will cause an error. If FATAR is creating an output tape, it will terminate, otherwise it will continue (see message FATS036).

FATS072   **TAPEIN DATA WILL BE COPIED TO TAPEOUT**

Reason: The TAPEOUT DD statement is present.

Action: All files and data on TAPEIN will be copied to TAPEOUT unless "DROPPED" by data checks or FATAR control statements.

FATS073 ****WARNING** BACKUP OF ARCHIVE CONTROL FILE HAS SAME NAME AS ARCHIVE CONTROL FILE. OUTPUT DATA SET NOT CATALOGED.**

Reason: .ARCBACKUP=DSF was specified without a corresponding ARCB1DSN= keyword. When ARCB1DSN isn't specified, FATSCOPY creates the data set name for the backup of the Archive Control file by replacing the '.ARCHIVE' qualifier in the Archive Control File data set name with a '.ARCBKUP' qualifier. If FATSCOPY doesn't find a '.ARCHIVE' qualifier, it creates the backup with the same data set name as the Archive Control File and the output data set will not be cataloged.

Action: A return code '8' will be issued.

FATS074 **** WARNING ** CONTROL CARD NUMBER n WAS NEVER REFERENCED OR REPLACE-VERIFY NEVER SATISFIED**

Reason: This message is issued at FATAR/FATSCOPY termination to warn of control statements that have never been acted upon. Either the file number or block number referenced on the statement was never encountered on TAPEIN, or, for a REPLACE statement with a V= or S= parameter, the VERIFY or SCAN never caused any data to be replaced.

Action: Review the control statements to be sure that they were coded correctly. Review the FATAR/FATSCOPY output to be sure that the desired files and blocks were processed.

FATS075 **SPECIAL EXPIRATION OF yydd1 DETECTED, TAPEOUT EXPDT=yydd2**

Reason: FATAR read labels containing an expiration date "yydd1" recognized as having a special purpose, i.e., 98000 or 99000.

Action: If copying to TAPEOUT, the output file will have expiration "yydd2" (98000 is normally changed to 00000, but some tape management systems will change this to a default retention).

FATS076 **TAPE MANAGEMENT text**

Reason: Displays information about the FATAR Tape Management interface. If no supported tape management system was detected or an interface error occurred, this is indicated. Otherwise it will identify the type and level of the tape management system, and information about the input tape extracted from that TMS.

Action: None, unless an error occurs. If necessary, contact Innovation Technical Support.

FATS077 **EOT ON TAPEOUT BUT FATAR WILL ATTEMPT TO WRITE nnn MORE BLOCKS**

Reason: During an image copy (LABELS=NO), FATAR detected the logical End-of-Tape (EOT) on the output tape, and EOTBLOCKS= was specified or defaulted.

Action: Since an image copy must put all the input data on a single output volume, FATAR will attempt to write "nnn" additional blocks beyond logical EOT.

FATS078 **EOT ON TAPEOUT, FATAR WROTE nnn MORE BLOCKS BUT COPY NOT COMPLETE**

Reason: During an image copy using LABELS=NO, FATAR wrote extra blocks beyond logical EOT, but the allowable block count was reached before all input data was copied.

Action: Since an image copy must put all the input data on a single output volume, this copy is not complete. If "nnn" is less than 999, you can attempt to complete it by increasing the EOTBLOCKS= value, or using a longer output tape.

FATS079 **PHYSICAL EOT ON TAPEOUT AFTER nnn EXTRA BLOCKS WRITTEN, COPY INCOMPLETE**

Reason: During an image copy using LABELS=IMAGE, FATAR wrote extra blocks beyond logical EOT, but physical EOT was detected before all input data was copied.

Action: Since an image copy must put all the input data on a single output volume, this copy is not complete. You can attempt to complete it by using a longer output tape.

FATS080 **UNABLE TO LOAD CHARTAB=table PRINT TRANSLATE TABLE, DEFAULT "FATCHRTB" WILL BE USED.**

Reason: CHARTAB= was specified with the name of a load module containing an alternate print table, but FATAR was unable to successfully LOAD that module.

Action: Check the job log for IBM messages indicating why the module could not be loaded. For this run the standard FATAR translate table was used.

FATS081 **TAPE LABELS IN ISO/ANSI FORMAT - TRANSLATED TO EBCDIC FOR PRINTING ONLY**

Reason: ANSI labels were detected on the input tape. They are translated to EBCDIC for printing purposes only.

FATS082 **READ BUFFER NOT AVAILABLE - USE DUMP=YES OPTION**

Reason: This is an internal error. Contact Innovation for assistance.

FATS083 **TAPE REWOUND TO LOAD POINT FOR IMAGE COPY**

Reason: An image copy was requested (LABELS=IMAGE) but the TAPEIN JCL specified a file number (LABEL=n) greater than 1.

Action: Since OPEN positioned the tape to the specified file, FATAR rewound the tape to the beginning (load point) in preparation for copying the entire tape.

FATS084 ****WARNING** MORE THAN ONE INPUT VOLUME FOUND DURING IMAGE COPY. COPY STOPPED AT END OF FIRST VOLUME**

Reason: An image copy was requested (LABELS=IMAGE) but the TAPEIN JCL specified more than one volume serial. Image copy can process only one volume at a time.

Action: The additional volume serials were ignored. If they must also be copied, you must submit separate LABELS=IMAGE steps for each one.

FATS085 ****WARNING** NUMFILES SET TO 0 FOR IMAGE COPY**

Reason: An image copy was requested (LABELS=IMAGE) but NUMFILES= (NF=) was specified with a value other than 0.

Action: Since image copy must copy the entire tape, NUMFILES=0 was forced.

FATS086 ****WARNING** NO TAPEOUT DD FOUND WHEN LABELS=IMAGE SPECIFIED**

Reason: An image copy was requested (LABELS=IMAGE) but no TAPEOUT DD was provided to specify the output tape.

Action: Processing will continue, allowing you to "dry run" the image copy, but the step must be rerun with a TAPEOUT DD statement to actually copy the tape.

FATS087 ****WARNING** CATALOG OF OUTPUT TAPE FAILED. COMP=comp DSN=dsn**

Reason: Cataloging of the indicated output data set was requested by the CAT=YES or CAT=RECAT parameters, but the attempt to catalog the indicated data set failed. "comp" is the return code from CAMLST CATALOG, which will usually be 0008. For CAT=YES this may indicate that the output data set name is already cataloged. Another common cause is attempting to catalog into the master catalog, usually because you have used a output data set name that is not assigned to a user catalog. FATAR or FATSCOPY will complete processing, but the indicated output data set names will not be cataloged.

Action: You can catalog the output data set name manually without rerunning the job, using the IDCAMS statement DEFINE NONVSAM. If you want to recatalog the output name to the output tape, rerun the step using CAT=RECAT instead of CAT=YES. If the output name is not valid, use the RENAME statement to change the name to one that can be cataloged.

FATS088   ****WARNING** CATALOGING REQUESTED BUT FULL NAME NOT AVAILABLE. DSN=dsn**

Reason: Cataloging of the indicated output data set was requested by the CAT=YES or CAT=RECAT parameters, but was not attempted because FATAR does not know the full 44-character name of the data set. IBM records only the last 17 characters of the original data set name in the tape labels, which is not valid for cataloging. FATAR can attempt cataloging if:

- the FATAR tape management interface is enabled and has provided the full data set name from tape management records

- the name in the labels is 16 characters or less

- you have provided the output data set name on a RENAME statement with the NEWN= parameter.

FATAR will complete processing but the indicate output data set names will not be cataloged.

Action: You can rerun the FATAR step providing RENAME statements with NEWN= to provide the output data set name. If the tape is recorded in your tape management system but you have not enabled the FATAR tape management interface, you can do so (See Section 90.3).

FATS089   ****WARNING** NEWI= SPECIFIED BUT FULL NAME NOT AVAILABLE. NEWI=mask**

Reason: A RENAME statement with the NEWI= operand applies to this file, but the full data set name of the input data set was not available. The full name is available if the original name is 16 characters long or less, if the full name was provided on the TAPEIN DD statement, or if you have enabled the FATAR tape management interface.

Action: The output file will be created with the truncated name derived from the input tape labels. You may want to rerun the copy specifying a full output data set name with NEWN= instead of NEWI=.

FATS090   ****WARNING** NEWI= RESULTED IN INVALID OUTPUT DATASET NAME. NEWI=mask DSN=dsn VOL=volser**

Reason: A RENAME statement with the NEWI= operand applies to this file, but when the mask was applied to the input data set name, it resulted in an output data set name that does not meet IBM standards. The volume and dsn are displayed only by FATSCOPY.

Action: The output data set will be created with the input data set name, ignoring the RENAME statement. You may want to rerun the copy specifying a NEWI= which results in a valid name, or specify a NEWN= to provide a complete output name.

FATS091   ****WARNING** NEXTVOL=TMS SPECIFIED BUT TMS INFORMATION NOT AVAILABLE.**

Reason: NEXTVOL=TMS was specified, requesting that FATAR get information about the additional input tape volumes related to the first input tape from the FATAR tape management interface, but no tape management information was available for this tape. Either the tape management interface is not enabled (See Section 90.3) or the input tape is not recorded in the tape management database.

Action: If additional volume serials were specified on the TAPEIN DD statement, they will be mounted. Otherwise, FATAR will terminate normally at the end of the input tape.

FATS092   **OUTPUT DATASET RENAMED TO DSN=dsname**

Reason: A RENAME statement was supplied that applies to this tape file. The actual name of the output data set is displayed.

FATS093   **OUTPUT DATASET RENAMED AND CATALOGED. FILE=ffff,UNIT=xxxxxxxx,DSN=dsname**

Reason: A RENAME statement was supplied that applies to this tape file and CAT= was also specified. The actual name of the output data set is displayed; this data set was cataloged with the file number and device type (in hex) shown.

FATS094 ****WARNING** CATALOGING REQUESTED BUT NEW NAME WAS NOT SPECIFIED.**

Reason: CAT= was specified, requesting that this output data set be cataloged, but the full name of the input data set was not available and no RENAME NEWN= was provided with an output data set name. The full name is available if the original name is 16 characters long or less, if the full name was provided on the TAPEIN DD statement, or if you have enabled the FATAR tape management interface.

Action: The output file will be created with the truncated name derived from the input tape labels but this name was not cataloged.

FATS095 **OUTPUT DATASET CATALOGED. FILE=ffff,UNIT=xxxxxxxx,DSN=dsname**

Reason: CAT= was specified, requesting that this output data set be cataloged, and the current output data set was cataloged with the file number and device type (in hex) shown.

FATS096 **END OF DATA MARK ENCOUNTERED. BLOCK ID=xxxxxxxx. VOL=volser DSN=dsn**

Reason: FATAR or FATSCOPY encountered an End-of-Data (EOD) hardware mark on an input tape. An EOD mark is written on every cartridge (except 3480-format) after the trailer labels of the last file on the tape, so this indicates that your FATAR options requested FATAR to read beyond that last file. "xxxxxxxx" is the hardware block ID of the EOD mark. The volume and dsn are displayed only by FATSCOPY.

Action: FATAR will attempt to position past the EOD mark and continue. However, the results may vary depending on the type of tape and the vendor of the hardware; sometimes it may be unable to move past the EOD and other times it may need to skip over some data past the EOD. FATSCOPY will stop processing the current file and proceed to the next data set.

FATS097 **LABELS=ONLY SPECIFIED. DATA FILE WILL BE SKIPPED.**

Reason: LABELS=ONLY was specified on the ANALYZE/COPY statement. FATAR will read and format tape labels, but will use a Forward Space File CCW to rapidly skip over data files. No meaningful statistics about the contents of the data files will be printed.

FATS098 **LABELS=ONLY SPECIFIED. NO TOTALS WILL BE PRODUCED FOR THIS RUN.**

Reason: LABELS=ONLY was specified on the ANALYZE/COPY statement. FATAR will read and format tape labels, but will use a Forward Space File CCW to rapidly skip over data files. FATAR totals are meaningless without information about the data files, so they are not printed.

FATS099 **NEAR RELATIVE DATA LOCATION nnn - error description**

Reason: An error occurred while parsing a control statement. The approximate location of the error was position nnn, counting the first position as 000. The failing statement is normally printed immediately above.

Action: Correct the error described in "error description" and re-submit the job.

FATS100 **(INSTRUCTION LINE)**

Reason: If PARM=I is present on the FATS EXEC JCL statement, this message will be printed repeatedly on SYSPRINT with the internal FATS instructions.

FATS101 ****PHYSICAL VOLUME=volser CONTAINED NO LOGICAL VOLUMES.**

Reason: PHYSVOL= was specified on a SELECT statement, but a check of the Virtual Tape Server found no logical volumes associated with the physical volume.

Action: FATSCOPY will set a return code '8' to indicate that an error occurred. FATSCOPY will continue to parse control statements and will process any volumes that matched other SELECT statements.

FATS102   **CONTROL CARD ERROR -- REASON=x**

Reason: A syntax or usage error has been detected in the control statement printed immediately preceding the message. Only one FATS102 message will be printed for each input statement; multiple errors on a statement will not be diagnosed. "x" is a letter or number indicating the type of error detected:

    1 -- An option parameter is not followed by a blank or comma.

    2 -- Operation keyword is invalid, or the tape number in parentheses is not 1 through 9.

    3 -- Tape number has been previously used on another operation statement.

    4 -- An option parameter is invalid.

    5 -- Error in the MODE= parameter. Value is not 2 hexadecimal digits or is not one of the valid values.

    6 -- Error in the RETRY= parameter. Must be RETRY=h or RETRY=(l,h). "h" must be 1 to 99. "l" must be 0 to "h".

    7 -- Error in the numeric value of a keyword parameter. Invalid numeric digits.

    8 -- Error in the BPI= parameter, BPI=0.

    9 -- Error in the LABEL= parameter, invalid characters in the label value.

    A -- Expected continuation statement not received (previous statement ended in a comma).

    B -- No ending apostrophe in OWNERID= parameter.

    C -- Error in the THRESHOLD= parameter, greater than 32767.

    D -- Label operation statement missing LABEL= or VOL= parameter.

    E -- Error in the BLKSIZE= parameter; it must be less than 65536 and more than twice the tape density (BPI), except for cartridges.

    F -- Error in VOL= parameter. Volume serial longer than 6 characters.

    G -- Error in VOL= parameter. More than 682 volume serials specified.

    H -- VOL= parameter specified on a default statement.

    I -- VOLINCR= parameter specified without VOL= parameter.

    J -- Blank control statement.

    K -- Error in VOLINCR= parameter. The last volume serial in the VOL= parameter could not be incremented due to insufficient trailing numeric digits.

    L -- Error in ENDAFTER= parameter.

    M -- Invalid numeric value for keyword. Value was zero or greater than 32767.

    N -- An option parameter was specified that is invalid for the control statement on which it was found. For example, MODIFY=YES was specified on a read statement, but it is only valid on a DEFAULT statement.

Action: FATS will abend with a U0502 abend code after all control statements have been scanned.

FATS103   ****TAPESUMM DD STATEMENT MISSING. ADD TAPESUMM DD TO JCL AND RERUN JOB.**

Reason: FATSCOPY requires a TAPESUMM DD.
Action: FATSCOPY will abend with a U0888. Add a TAPESUMM DD to your JCL and rerun the job.

FATS104 **ONE OR MORE ERRORS DETECTED -- FATS TERMINATED**

Reason: Message FATS102 was issued for one or more control statement errors.

Action: FATS will abend with a U0502 abend code. Correct the errors and re-execute.

FATS105 **NO INPUT CARDS -- FATS TERMINATED**

Reason: No control statements other than DEFAULT and comments were present in the input. At least one operation statement must be present.

Action: FATS will abend with a U0502 abend code.

FATS106 **DD=SYSPRINx MISSING -- REQUIRED FOR ANALYZE**

Reason: An ANALYZE(x) control statement was present but no corresponding SYSPRINx DD statement was found. FATAR cannot write its messages to SYSPRINT when invoked from FATS.

Action: FATS will abend with a U0502 abend code.

FATS107 **A line of the detail report indicating label status**

FATS108 **NO SUMMPRT DD PROVIDED-SUMMARY REPORT WILL GO TO SYSPRINT**

Reason: The SUMMPRT DD statement is not present.

Action: FATS will write summary report data to SYSPRINx if present for TAPEx or to SYSPRINT

FATS109 **FATS BYPASSED DD=TAPEx REASON=MISSING DD STATEMENT DEVICE NOT A TAPE**

Reason: FATS was unable to process an operation statement because the associated DD statement TAPEx was not provided or did not allocate a tape device.

Action: Other operation statements (if present) will be processed. Check the TAPEx DD statement.

FATS110 **xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Reason: FATS has read the control statement printed as part of this message.

Action: FATS will parse the control statement.

FATS111 **xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Reason: FATS has parsed all of the control statements and merged the information for each with the defaults. This table represents the processing to be done for each of the 1 to 9 functions specified.

Action: FATS will perform the requested functions.

FATS112 **FATS MUST BE IN AN AUTHORIZED LIBRARY. PROGRAM TERMINATED.**

Reason: FATS must be executed as an APF authorized program. Either the program library containing FATS was not marked as an APF authorized library on your z/OS system, or your STEPLIB or JOBLIB DD statement has nonauthorized libraries concatenated to the FATS program library, or FATS has been relinked as nonauthorized (AC=0).

Action: FATS will terminate with a U0047 ABEND.

FATS113 **PROGRAM TERMINATED. USER NOT AUTHORIZED TO PERFORM FUNCTION=func**

Reason: Your installation has protected certain functions and options of FATS and FATAR through your security system. You are not authorized to use the function or option "func".

Action: The program will terminate with a U0913 abend. If you require the failing function or option, contact your security administrator. See Sections 11.8 (FATS) and 21.6 (FATAR) for information on the security options.

FATS114   **PROGRAM TERMINATED. USER NOT AUTHORIZED TO READ DSN=dsname**

Reason: Your security system has indicated that you are not authorized to read a file on the input tape with data set name "dsname".

Action: The program will terminate with a U0913 abend. If you require access to this data set, contact your security administrator. See Section 21.6 for information on the FATAR data set security.

FATS115   **UNLABELED TAPE USED AS INPUT WHEN LABELS=ONLY WAS SPECIFIED. RUN TERMINATED.**

Reason: LABELS=ONLY is supported only on a labeled tape.

Action: The program will terminate.

FATS116   **UNABLE TO ACCESS DATA PAST END-OF-DATA MARK. RUN TERMINATED.**

Reason: All cartridge tapes (except 3480) put a hardware EOD (End-of-Data) mark after the last block or tape mark written to the tape. This message indicates that FATAR was unable to position past the EOD mark. This can occur when:

- LABELS=EOD was specified, to recover data past the EOD

- LABELS=NO and NUMFILES=n was used to request processing past the EOD.

Action: The program will terminate with a U0888 abend.

FATS117   **ANALYSIS TERMINATED AT END-OF-DATA MARK**

Reason: On a cartridge tape (except for 3480), FATAR encountered a EOD (End-of-Data) mark that follows a tape mark.

Action: Processing of the input tape is completed.

FATS117   **COPY TERMINATED AT END-OF-DATA MARK DSN=dsname, VOL=volser**

Reason: FATSCOPY encountered an end-of-data mark when copying a data set. Output data set will not be cataloged or updated with tape management information from the input data set. If TMSINPUT=SCRATCH was specified, the input will not be expired.

Action: FATSCOPY will continue with the next data set.

FATS118   **UNABLE TO LOAD name ASCII TRANSLATE TABLE. DEFAULT IBM TABLE WILL BE USED**

Reason: The ASCII=name operand was specified, but a load module called "name" could not be successfully loaded, so the default IBM ASCII translate table was used.

Action: Make sure that the load module name of the ASCII translate table was properly specified, and that it is in a load module library accessible by this FATAR step.

FATS120   ****DSN=dsname ON VOLUME=volser WAS SELECTED FOR COPYING.**

Reason: FATSCOPY selected the indicated data set on the indicated tape volume from the system catalog for copying.

FATS121   ****NO DATA SETS WERE SELECTED FOR COPYING. JOB TERMINATED.**

Reason: The SELECT/EXCLUDE statements specified for FATSCOPY did not result in any data sets being selected.

Action: If the statements were specified incorrectly, correct and re-submit. If data sets should have been selected, check the statements carefully for errors; if necessary, contact Innovation for assistance.

When the FATS121 message is issued, the FATSCOPY job normally terminates with a U0300 abend and produces a dump. To terminate with a return code of 12 instead, and no dump, use the RETCODE parameter. To terminate with a a return code of 0 instead, and no dump, use SELTERR=NO.

FATS122   ****FATSCOPY SIMULATE SUCCESSFULLY COMPLETED. nnnn DATA SETS WERE SELECTED FOR COPYING.**

Reason: FATSCOPY was executed with a SIM (SIMULATE) statement. If it had been executed with a COPY statement, "nnnn" data sets would have been copied. The selected data sets are listed in the SELRPT and COPYRPT reports.

FATS123   ****LOAD OF RMM API FAILED. DSN=dsname VOL=volser WILL NOT BE EXPIRED.**

Reason: Your tape management system is apparently DFSMSrmm (RMM) but the RMM Application Program Interface (API) could not be used by FATSCOPY to expire the data set.

Action: Contact Innovation for assistance.

FATS124   ****SELRPT DD STATEMENT MISSING. ADD SELRPT DD TO JCL AND RERUN JOB**

Reason: You omitted the required SELRPT DD statement in a FATSCOPY step. The step will end with a U0888 abend.

Action: Add the SELRPT DD to your step; it is usually a SYSOUT=* data set.

FATS125   ****COPYRPT DD STATEMENT MISSING. ADD COPYRPT DD TO JCL AND RERUN JOB**

Reason: You omitted the required COPYRPT DD statement in a FATSCOPY step. The step will end with U0888.

Action: Add the COPYRPT DD to your step; it is usually a SYSOUT=* data set.

FATS126   ****MAXIMUM NUMBER OF INPUT TAPE FILES EXCEEDED. SELECT STATEMENT NOT PROCESSED.**

Reason: The preceding SELECT statement was ignored because the maximum number of files to be copied in this FATSCOPY step been exceeded. For CATDSN, the limit is specified by MAXTOTFILE=. For ALLDSN, the limit is 65,535.

Action: Include the SELECT statement(s) in another FATSCOPY step to copy those data sets, or specify a larger value for MAXTOTFILE=.

FATS127   ****NO TMS INFORMATION FOUND. TMS INFO WILL NOT BE COPIED DSN=dsname VOL=volser**

Reason: The indicated data set was selected from your system catalogs by FATSCOPY, but no tape management information was found for the data set.

Action: The data set will be copied but no TMS information will be updated for this data set.

FATS128   ****RMM API LOAD FAILED. DATA FOR DSN=dsname VOL=volser WILL NOT BE COPIED**

Reason: Your tape management system is apparently DFSMSrmm (RMM) but the RMM Application Program Interface (API) could not be used by FATSCOPY.

Action: Contact Innovation for assistance.

FATS129   ****DYNAMIC ALLOCATION FAILED FOR VOL=volser DEVTYPE=devtype. RC=rrrr, REAS=cccc0000**

Reason: FATSCOPY issued a dynamic allocation for an input tape file to copy on the volume serial and tape device type shown, but the allocation failed with the indicated return code and reason code.

Action: The tape file will be bypassed; serious errors may cause the step to abend. For z/OS, these codes are documented in the IBM manual *Authorized Assembler Services Guide*. They can also be found in Appendix A of the ISPF online HELP. Frequently encountered "cccc" values include:

0210 - requested data set not available (e.g., another job had the tape file allocated with DISP=OLD).
021C - invalid unit name used (e.g., FATSCOPY is trying to allocate a 3480 on a system without 3480s).
0220 - requested volume not available (e.g., another job is using a tape volume required by FATSCOPY).
039C - requested device type and volume are incompatible. This may occur if the data set is cataloged to a device type which does not match the volume it is located on. Specifying UNITIN= on the COPY statement may resolve this problem.

FATS130   ****DYNAMIC DEALLOCATION FAILED FOR VOL=volser DEVTYPE=devtype. RC=rrrr, REAS=cccc**

Reason: FATSCOPY issued a dynamic de-allocation for an input tape file to copy on the volume serial and tape device type shown, but the de-allocation failed with the indicated return code and reason code.

Action: FATSCOPY will terminate. For OS/390, these codes are documented in the IBM manual *Authorized Assembler Services Guide.* They can also be found in Appendix A of the ISPF online HELP.

FATS131   ****EXPIRATION DATE FOR INPUT VOLUME=volser HAS BEEN CHANGED: date**

Reason: The user specified TMSINPUT=SCRATCH; the expiration date for the volume has been changed to the indicated date so that the volume will expire on that date and be scratched when tape management runs.

FATS132   ****TAPE MGMT INFO FOR DSN=dsname ON VOL=output WAS COPIED FROM VOL=input**

Reason: FATSCOPY has copied the appropriate information, such as expiration date, creating job, etc. from the tape management record for the input volume to the tape management record for the output volume.

FATS133   ****EXPIRATION DATE FOR DSN=dsname,VOL=volume CHANGED TO date**

Reason: FATSCOPY has changed the expiration date for the output data set on the indicated output volume to the date specified. This is the latest date for any data set on the volume. This message is issued for CA 1 and TLMS, and also for RMM if RMM data set expiration support is available (message FATS165 is issued if it is not available).

FATS134   ****UNABLE TO CHANGE EXPIRATION DATE FOR OUTPUT VOLUME=volser RC=return code, REASON=reason code**

Reason: FATSCOPY's attempt to update the tape management expiration date for the output volume failed.

FATS135   ****UNABLE TO EXPIRE INPUT type=name RC=return code,REASON=reason code**

Reason: FATSCOPY tried to expire the input volume (type="VOLUME") or data set (type="DATASET") but was unable to do so.

FATS135   ****UNABLE TO RESET KEEP DATE FOR INPUT CONTROL DATA SET, VOLUME=volser**

Reason: TMSINPUT=SCRATCH was specified, but FATSCOPY was unable to change the expiration date for the TLMS control data set on the input volume..

FATS136   ****UNABLE TO DELETE RMM DATASET INFO FOR OUTPUT DSN=dsname VOLUME=volser**

Reason: While copying a data set, FATSCOPY reached the end of tape on the OUTPUT. At the time it reached end of tape, the number of bytes written to TAPEOUT was less than the value specified in the LASTFILE= parameter. FATSCOPY attempted to delete the tape management information for the output data set, but failed to do so.

FATS137   ****NO TMS INFO FOR DSN=dsname. UNABLE TO EXPIRE INPUT VOL=volser**

Reason: FATSCOPY copied a cataloged data set that had no corresponding tape management information. FATSCOPY will be unable to update the tape management information for the output data set.

FATS138   ****FATSCOPY UNABLE TO CHANGE EXPIRATION FOR VOLUME=input volser. ALL DATA SETS ON xxxxxx NOT SELECTED FOR COPYING**

Reason: TMSINPUT=SCRATCH was specified, but some of the files on the volume or tape set were not copied. "xxxxxx" will be "INPUT" if the identified volume was a multi-file tape or "MVOL SET" if the volume is part of a multi-volume, multi-file tape set.

Action: FATSCOPY will update the expiration dates of the copied files but cannot update the expiration date of the volume(s) because some unexpired files still reside on those tapes.

FATS139   ****RMM UPDATE FAILED. VOLUME=volser DSN=dsname RC=return code,REAS=reason code.**

Reason: TMSDATA=COPY was specified, but FATSCOPY's attempt to update the tape management information for the volume failed.   The displayed return and reason codes are the hex values returned by RMM.

FATS140   ****COPY FUNCTION SPECIFIED BUT NO TAPEOUT DD FOUND. JOB TERMINATED.**

Reason: The COPY statement requires a TAPEOUT DD statement.

FATS141   ****TMS NOT ACTIVE. TMS DATA WILL NOT BE COPIED. DSN=dsname,VOL=volser**

Reason: The tape management system expected was not active, so FATSCOPY will not attempt to copy tape management data relating to the data sets it is copying.

FATS142   ****ERROR OCCURRED READING TMC FOR xxxxxx VOL=volser. TMS DATA WILL NOT BE COPIED.**

Reason: An error occurred while reading tape management data for the input tape (xxxxxx=INPUT) or the output tape (xxxxxx=OUTPUT). The tape management data for the file being copied will not be updated on the output tape's records.

FATS142   ****ERROR OCCURRED READING VMF FOR OUTPUT VOL=volser. UNABLE TO OBTAIN BLOCK INFO.**

Reason: An error occurred while reading TLMS block count information for the output volume. Block and byte count totals for the output tape will not be correct in the summary reports.

FATS143   ****ERROR OCCURRED UPDATING TMC FOR DSN=dsname VOL=volser**

Reason: An error occurred while updating tape management data for the output data set. The tape management data for the file being copied will not be updated on the output tape's records.

FATS143   ****ERROR OCCURRED UPDATING VMF FOR DSN=dsname VOL=volser REASON=xxxxxxxx**

Reason: An error occurred while updating the TLMS Volume Master File for the output data set. The tape management data for the file being copied will not be updated on the output tape's records. xxxxxxxx is the TLMS error message code.

FATS144   ****ERROR OCCURRED DEQUEUING TMC FOR DSN=dsname VOL=volser**

Reason: An error occurred while updating tape management data for the output data set. The tape management data for the file being copied will not be updated on the output tape's records.

FATS145   ****DSN=dsname ON VOL=volser BYPASSED - MISSING VOLS OF MULTI-VOL DSN.**

Reason: When processing a data set that had met all the selection criteria, FATSCOPY determined that some volumes of a multi-volume set had not met the selection criteria. FATSCOPY will not copy the data set.

FATS146   ****UNSUPPORTED TAPE MGMT SYSTEM. UNABLE TO UPDATE TAPE MANAGEMENT INFORMATION**

Reason: TMSDATA=COPY or TMSINPUT=SCRATCH was specified, but FATSCOPY didn't find CA 1, TLMS, or
               RMM, the only tape management systems currently supported.

FATS147   ****TAPE MOTION I/O ERROR**

Reason: An I/O error occurred while FATSCOPY was reading an input tape. FATSCOPY was unable to reposition the
               tape to retry the I/O that had the error.

Action: FATSCOPY will terminate with a U0888 abend.

FATS148   ****TMC OPEN FAILED. TMS DATA CAN NOT BE COPIED. DSN=dsname,VOL=volser**

Reason: An error occurred when FATSCOPY tried to open the TMC to obtain tape management information for the
               input volume to update tape management information for the output volume. The TMS information will not be
               copied to the output.

FATS148   ****TMC OPEN FAILED. DATA SET WILL NOT BE EXPIRED. DSN=dsname,VOL=volser**

Reason: An error occurred when FATSCOPY tried to open the TMC to expire the input data set.

FATS148   ****VMF OPEN FAILED. UNABLE TO UPDATE TLMS INFO FOR DSN=dsname,VOL=volser**

Reason: An error occurred when FATSCOPY tried to open the Volume Master file to expire an input data set or update
               the TLMS information for an output data set.

FATS148   ****VMF OPEN FAILED. UNABLE TO OBTAIN BLOCK INFO FOR REPORT.**

Reason: An error occurred when FATSCOPY tried to open the TLMS Volume Master file to read block or byte count
               information for the output file summary reports.

FATS149   ****TMS ERROR CODES: RC=return code,REAS=reason code,SEC RC=security return code,**
               SEC REAS=security reason code

Reason: Issued after an error reading, updating, or dequeuing the TMC occurs. Contains CA 1 abend codes, reason
               codes, and security return and reason codes.

FATS150   ****TMS NOT ACTIVE. INPUT TAPE WILL NOT BE EXPIRED. VOL=volser**

Reason: TMSINPUT=SCRATCH was specified, but TMS was not active.

FATS150   ****TMS NOT ACTIVE. INPUT DSN=dsname, VOL=volser   WILL NOT BE EXPIRED.**

Reason: TMSINPUT=SCRATCH was specified, but TMS was not active.

FATS151   ****ERROR OCCURRED xxxxxxx TMC FOR INPUT VOL=volser. TAPE WILL NOT BE EXPIRED.**

Reason: An error occurred when FATSCOPY tried to obtain the expiration date for the input volume prior to changing
               the expiration date to the current date (xxxxxxx = READING) or when FATSCOPY tried to update TMS with
               the new expiration date (xxxxxxx = WRITING). The expiration date will not be changed.

FATS151   ****ERROR UPDATING TAPE MGT. DSN=dsname VOL=volser WILL NOT BE EXPIRED.**

Reason: TMSINPUT=SCRATCH was specified, but an error occurred when FATSCOPY tried to to update TMS with
               the new expiration date. The expiration date will not be changed for this data set.

FATS152   ****EOT ON TAPEOUT BEFORE LASTFILE VALUE REACHED. DSN=outdsn,VOL=outvol**

Reason: The physical end-of-tape was reached before FATSCOPY copied the number of bytes specified in the LASTFILE= keyword. FATSCOPY will call for a new output tape, determine which tape the input file started on, and begin copying the input file from the beginning. If tape management is active, FATSCOPY will expire the partially copied data set on the output tape.

FATS153   ****PARTIALLY COPIED DSN=outdsn ON OUTPUT VOL=outvol WAS EXPIRED**

Reason: FATSCOPY successfully expired the partially copied data set on the output tape in tape management.

FATS154   ****NO ACTIVE TAPE MANAGEMENT. DSN=outdsn, VOL=outvol WILL NOT BE EXPIRED.**

Reason: FATSCOPY attempted to expire a data set in tape management that had been partially copied, but tape management system was not active.

FATS155   ****UNABLE TO FIT DSN=outdsn ON ONE VOLUME. LASTFILE= VALUE WILL BE IGNORED.**

Reason: After calling for a new output volume for a data set that wouldn't fit on the output volume, FATSCOPY again arrived at the end of the output tape without exceeding the LASTFILE= amount. FATSCOPY will call for a new output without starting to copy the input from the beginning.

FATS156   ****EXPIRATION DATE FOR DSN=ipdsn, VOL=ipvol WAS SET TO DATE=expirationdate**

Reason: After copying a data set, FATSCOPY expired the input data set because TMSINPUT=SCRATCH was specified. The indicated data set and volume were set to the indicated expiration date.

FATS157   ****EXPIRATION DATE FOR INPUT VOLUME=volser WAS RESET TO DATE=date**

Reason: When FATSCOPY has copied the first data set (if the tape management system is CA 1) or the control data set (if the tape management system is TLMS) on a volume or multivolume set containing multiple files, FATSCOPY will reset the expiration date for the volume to the highest expiration date of any unexpired data set on the volume / multivolume set. If it copies any other files after copying the first file, FATSCOPY will again reset the volume to the highest expiration date of any remaining data sets. If all the data sets on the volume are successfully copied, FATSCOPY will expire the volume at that time.

FATS158   ****ERROR READING TMC. DSN=dsname, VOL=volser WILL NOT BE EXPIRED.**

Reason: OPEN of the CA 1 TMC for update by FATSCOPY failed and it will not be able to expire the data set. This message will be followed by a FATS149 containing the error codes returned by TMS for the failed OPEN. This may be due to security checks in CA 1; check the CA 1 documentation for information on security protection of the TMC and the YSVCUNCD resource.

FATS159   ****NO DATASETS COPIED DURING FATSCOPY RUN. CHECK LISTING FOR ERROR MESSAGES.**

Reason: FATSCOPY ended with no data sets being copied, even though data sets were selected for copying. The SYSPRINT or ERRPRRPT report will contain error messages to show why no data sets were copied.

FATS160   ****OPEN FAILED FOR DSN=dsn,VOL=volser,ABEND=abend code**

Reason: FATSCOPY tried to open an input data set, but the open failed with the ABEND code shown. The joblog may contain IBM messages providing more detail on the error.

Action: The input data set will be skipped and FATSCOPY will continue to copy other data sets, if any are left.

FATS161   ****EXPIRATION FOR DSN=dsn,VOL=volser WILL BE RESET BY RMM HOUSEKEEPING.**

     Reason: While attempting to update the RMM expiration date for a data set it just copied, FATSCOPY found that the data set's expiration was controlled by a RMM Vital Record Specification. The next time RMM housekeeping runs, RMM will set the expiration for the output data set according to the VRS.

FATS162   ****MAXIMUM NUMBER OF FILES SELECTED FOR COPYING. CATALOG SEARCH STOPPED.**

     Reason: While searching the catalog for data sets to copy, FATSCOPY exceeded the maximum number of data sets specified by the MAXTOTFILE= operand (default: 1000).

     Action: FATSCOPY will stop selecting data sets and will process the data sets it has selected. Rerun FATSCOPY to select the remaining data sets, and increase MAXTOTFILE= if needed.

FATS163   ****CATALOGING BYPASSED FOR UNCATALOGED INPUT DATA SET, DSN=dsname**

     Reason: CAT=ONLY was specified (or defaulted in FATSCOPY) and an input data set was not cataloged. This could mean that the input data set was not in the catalog at all, or that it was cataloged but it pointed to a volume or file number different from the input data set.

     Action: The output file will not be cataloged. A return code based on the value specified or defaulted for NOTCATRC= (0, 4, or 8) will be issued.

FATS164   ****JOB TERMINATED DUE TO RMM READ OR UPDATE FAILURE.**

     Reason: An update or read of RMM tape management information occurred, and RMMFAIL=STOP had been specified.

FATS165   ****LAST USED INFO FOR VOLUME=oooooo COPIED FROM VOLUME=iiiiii**

     Reason: TMSDATA=COPY was specified, so FATSCOPY copied the tape management information about the last use of the input tape "iiiiii" to the output tape "oooooo"

FATS166   ****EXPIRATION DATE FOR OUTPUT VOLUME=outvol HAS BEEN SET TO expirationdate|VITAL RECORD**

     Reason: Documents the expiration date that has been assigned to the indicated output volume. If the tape management system is RMM and one of the input data sets had a VITAL RECORD expiration, the message will show VITAL RECORD. If the tape management system is TLMS, this message is issued when the expiration date of the control data set (by default, data set #1) has been set on the output volume.

FATS167   ****SELECT ALLDSN SPECIFIED BUT NO TAPE MANAGEMENT INFO FOR VOLUME=volser. VOLUME BYPASSED.**

     Reason: A SELECT ALLDSN statement was used to select an input tape, but no tape management information was found for the indicated volume.

     Action: The volume is bypassed. If there are no more SELECT statements or they all fail the same way, the step will end with a U0100 ABEND.

FATS168   ****ALL DATA SETS ON VOL=input volser COPIED. VOLUME RELEASED.**

     Reason: RMM was the active tape management system, the input volume had a RMM Vital Record Retention and all data sets on the indicated input volume have been copied. TMSINPUT=SCRATCH was specified.

     Action: RMM is notified to release the input tape.

FATS169   ****RELEASE FOR VOL=input volser FAILED. RC=return code, REAS=reason code**

     Reason: RMM was the active tape management system, the input volume had a RMM Vital Record Retention and all data sets on the indicated input volume have been copied. TMSINPUT=SCRATCH was specified, but an error occurred when RMM was notified to release the tape.

     Action: The input tape is not released. You may need to release it manually.

FATS170   ****LASTAPE DATA SET CATALOGED. VOL=volser,DSN=dsname**

    Reason: LASTAPE= was specified. At the end of the FATSCOPY step, the data set name specified was created as an empty file and cataloged to the volume shown.

FATS170   ****ARCHIVE CONTROL FILE BACKUP CATALOGED. VOL=volser,DSN=dsname**

    Reason: ARCBACKUP=DSF was specified. At the end of the FATSCOPY step, a backup of the Archive Control File was created and cataloged to the volume shown using the data set name specified by the ARCB1DSN= parameter (or the default).

FATS171   ****EXPDTGROUP VALUE SET TO 999 FOR LASTAPE PROCESSING.**

    Reason: FATSCOPY normally groups data sets by expiration date. When LASTAPE= is specified, EXPDTGROUP will be set to 999.

    Action: Data sets will be not be grouped by expiration date.

FATS172   ****reason. UNABLE TO DETERMINE IF LASTAPE VOLUME EXCEEDS THRESHOLD.**

    Reason: LASTAPE= was specified with THRESHOLD=, but FATSCOPY was unable to determine if the percentage used of the output tape exceeded the specified threshold. "**reason**" may be:

            NO ACTIVE TAPE MANAGEMENT – No tape management system was active.

            UNSUPPORTED TAPE MANAGEMENT – THRESHOLD is not supported with the active tape management system.

            TMC OPEN FAILED – Open of the CA 1 TMC failed; message FATS149 follows.

    Action: No threshold checking is done. FATSCOPY will continue to add files to the tape. A return code of 8 will be set.

FATS173   ****TMS REQUEST FOR LASTAPE VOLUME volser FAILED. THRESHOLD PROCESING BYPASSED.**

    Reason: LASTAPE= was specified with THRESHOLD=, but the LASTAPE data set was cataloged to a tape not under CA 1 control.

    Action: No threshold checking is done. FATSCOPY will continue to add files to the tape.

FATS174   ****LASTAPE VOLUME volser EXCEEDED THRESHOLD. NEW OUTPUT VOLUME WILL BE CREATED.**

    Reason: LASTAPE= was specified with THRESHOLD=, and the current output volume exceeded the threshold percentage in use.

    Action: FATSCOPY will mount a fresh scratch tape.

FATS175   ****LOAD OF RMM API FAILED. THRESHOLD PROCESSING BYPASSED.**

    Reason: LASTAPE= was specified with THRESHOLD=, and the current output volume was under DFSMSrmm control but the RMM API module could not be loaded.

    Action: No threshold checking is done. FATSCOPY will continue to add files to the tape.

FATS176   ****DEVTYPE=COPYCROS SPECIFIED, BUT NO COPYCROS DEVICES MATCHED VIRTUNIT=TYPE.**

    Reason: FATSCOPY was unable to locate any CopyCross devices that matched the specified type.

    Action: The step will abend with U0502.

FATS177   ****UNEXPECTED LOAD POINT WHILE COPYING DSN=dsname, VOL=volser**

Reason: When copying a data set, FATSCOPY read the data set, but the input volume had been repositioned to the beginning of the volume. The output data set will not be cataloged or be updated with information for the input data set.

Action: A return code of 12 is set for the current data set.

FATS178   ****UNABLE TO OBTAIN STORAGE REQUIRED FOR TAPE BUFFERS. JOB TERMINATED.**

Reason: FATSCOPY was unable to obtain the storage needed for tape buffers. Make sure that you specified REGION=0M on the EXEC statement. Specify BUFNO= to reduce the number of buffers acquired.

Action: The step will abend with U0888.

FATS179   ****UNABLE TO OBTAIN STORAGE REQUIRED FOR REBLOCKING DATA SETS. JOB TERMINATED.**

Reason: FATSCOPY was unable to obtain the storage needed for reblocking buffers. Make sure that you specified REGION=0M on the EXEC statement. Specify BUFNO= to reduce the number of buffers acquired.

Action: The step will abend with U0888.

FATS180   ****UNABLE TO CREATE LASTAPE DSN DUE TO INVALID CHARACTERS IN DSN. JOB TERMINATED.**

Reason: After processing all the data sets selected for copying, FATSCOPY tried to create the LASTAPE file on the output tape but the LASTAPE data set name was invalid.

Action: The step will abend with S0C3. Contact Innovation for assistance.

FATS181   ****UNABLE TO OBTAIN ELIGIBLE DEVICE FOR ALLOCATING TAPEIN USING nnnnnn. RC=rtncode, REASON=rsncode**

Reason: FATSCOPY was unable to find a unit for mounting the input tape using either the UNITIN= value, the VIRTUNIT value, or the UCB address.

Action: If VIRTUNIT was specified, the step will abend with U0502. Otherwise, the tape is bypassed.

FATS182   ****VERSION 5.4/70 OR HIGHER OF FDRABR REQUIRED FOR COPYING ABR ARCHIVE DATA SETS.**

Reason: FATSCOPY supports copying ABR Archive and Application Backup data sets only if version 5.4/70 or above of FDRABR is available. ABRARC=YES was specified, but a supported level of FDRABR could not be loaded from the linklist, STEPLIB, or JOBLIB.

Action: FATSCOPY will set a non-zero return code, and will not select any ABR Archive or Application backups for copying.

FATS183   ****SERIOUS ERROR OCCURRED OBTAINING JFCB EXTENSIONS FOR TAPEOUT.**

Reason: FATSCOPY clears the TAPEOUT JFCB and JFCB extensions after each data set copy, but a pointer to a JFCB extension was invalid.

Action: The step will abend with U0888.

FATS184   ****LOGIC ERROR OCCURRED DURING LASTFILE PROCESSING. JOB TERMINATED.**

Reason: FATSCOPY was unable to determine the correct volume to use to create the LASTAPE data set.

Action: The step will abend with U0888.

FATS185 ****LOGIC ERROR OCCURRED READING TAPE MGMT INFO FOR DSN=dsname, VOL=volser**

Reason: When attempting to update the output volume with information from the input tape, FATSCOPY was unable to find the correct data set entry for either the input or output data set.

Action: A return code 8 will be set for the failing data set but it will be copied. You may need to update the TMS information manually.

FATS186 ****UNABLE TO EXPIRE INPUT DSN=dsname, VOL=volser DUE TO FATSCOPY LOGIC ERROR.**

Reason: A logic error occurred that prevented FATSCOPY from determining if the input data set could be expired.

Action: A return code 8 will be set for the failing data set but it will be copied. You may need to expire the data set manually.

FATS187 ****LOGIC ERROR OCCURRED DURING THRESHOLD PROCESSING. UNABLE TO DETERMINE IF LASTAPE VOLUME EXCEEDS THRESHOLD.**

Reason: A logic error prevented FATSCOPY from determining the percentage of the last output tape currently in use. Data sets will continue to be added to the tape.

Action: A return code 8 will be set.

FATS188 ****NOT ENOUGH STORAGE FOR FATSCOPY PROCESSING TABLE.**

Reason: FATSCOPY could not obtain storage for an internal table.

Action: Make sure your EXEC statement specifies REGION=0M. If it continues to fail, contact Innovation for assistance.

FATS189 ****RESTART DATA SET CREATED. DSN=dsname'**

Reason: FATSCOPY created or updated an existing data set that can be used as input to a subsequent FATSCOPY job.

Action: Job will complete with a zero condition code.

FATS190 ****DSNTABLE DD REQUIRED FOR CREATING CHECKPOINT DATA SET OR RESTARTING JOB. JOB TERMINATED.**

Reason: The CHECKPT or RESTART keyword was specified, but a DSNTABLE DD with the name of the data set to use to create the checkpoint data set or restart the job wasn't included in the JCL.

Action: The job will be terminated with a return code '12'. Add a DSNTABLE DD to the JCL and resubmit the job.

FATS191 **** COPY STOPPED BY OPERATOR. nnnnn FILES REMAIN TO BE COPIED.**

Reason: The CHECKPT keyword was specified and an operator issued a STOP command to end a FATSCOPY job. nnnnn indicates the number of files that remained to be copied.

Action: The job will end when it finishes copying the current data set. A checkpoint data set will be created so that the job can be restarted at a later time.

FATS192 ****OPEN OF AUDIT DATA SET FAILED. JOB CANCELLED BY OPERATOR.**

Reason: An AUDITRPT was present in the JCL, but FATSCOPY failed to open the data set, and the operator replied 'NO' to the FATSW16 message issued to the console. .

Action: The job will abend with a U0888.

FATS193 ****UNRECOVERABLE READ ERROR. DSN=dsname,VOL=volser.**

Reason: A read error occurred on an input tape that FATSCOPY was unable to recover from.

Action: FATSCOPY will issue a U0888 for the data set it was copying when the I/O error occurred and continue copying any remaining data sets.

FATS194   ****HSM NOT ACTIVE. UNABLE TO RECYCLE VOLUME=volser**

Reason: HSMML2=YES was specified, but HSM was not active when FATSCOPY issued a request to HSM to recycle a Migration Level 2 data set.

Action: FATSCOPY will set a return code '12' for the current data set and continue with the next data set to be copied.

FATS195   ****TAPE MANAGEMENT INFORMATION FOR OUTPUT VOLUME=volser WAS SET BY HSM RECYCLE.**

Reason: An HSM Migration Level 2 volume was successfully recycled as the result of a recycle request issued by FATSCOPY. All the tape management information for the output volume was set by HSM.

Action: A return code '0' will be set for the data set.

FATS196   ****EXPIRATION DATE FOR OUTPUT VOLUME=volser WAS SET BY HSM RECYCLE.**

Reason: An HSM Migration Level 2 volume was successfully recycled as the result of a recycle request issued by FATSCOPY. HSM has set the appropriate expiration date for the output volume.

Action: A return code '0' will be set for the data set.

FATS197   ****UNABLE TO OBTAIN STORAGE REQUIRED FOR ARCHIVE TABLE. ABR ARCHIVE TAPES WILL NOT BE COPIED.**

Reason: FATSCOPY was unable to obtain the storage needed to perform updates to the Archive Control File.

Action: Any ABR Archive or Application Backup files that were selected will not be copied. A return code '8' will be set and any Archive or Application Backup data sets will not be selected. Increase the REGION size, or code REGION=0M on the EXEC statement.

FATS197   ****UNABLE TO OBTAIN STORAGE REQUIRED FOR ARCHIVE TABLE. JOB TERMINATED.**

Reason: A FATSCOPY RESTART job where ABR Archive or Application Backup files had been selected in the DSNTABLE dataset was unable to obtain the storage needed to perform updates to the Archive Control File.

Action: The job is terminated with a U0888 abend. Increase the REGION size, or code REGION=0M on the EXEC statement.

FATS198   ****OUTPUT CREATION DATE RESET AFTER COPY. DSN=dsname,VOL=volser**

Reason: When FATSCOPY is copying a data set under TMS Catalog Control that requires more than 1 output volume, FATSCOPY temporarily sets the creation date for the output to the current date to prevent the output from being expired prematurely by CA 1 housekeeping before FATSCOPY catalogs it. This message is issued to indicate that FATSCOPY has successfully cataloged the output data set and copied the creation date from the input data to the output data set.

FATS199   ****RMM UPDATE FAILED BECAUSE RMM HOUSEKEEPING WAS ACTIVE. FATSCOPY JOB TERMINATED.**

Reason: An update to RMM failed because RMM housekeeping was running; the job was terminated based on the value specified for the RMMFAIL= parameter.

Action: Job will be terminated immediately with a non-zero return code.

FATS201   **TAPEx MAJOR ERROR ON TAPE**
              ANALYZE TERMINATED FOR VOL=vvvvvv

Reason: The first form of the message will be issued whenever unrecoverable I/O errors (other than data checks) occur on the indicated tape drive; it will be followed by message FATS202. The second form of the message appears when a threshold of major errors is exceeded or when the error is too severe to continue (such as equipment check or intervention required).

Action: If the second form of the message is issued, further processing of the tape volume "vvvvvv" is halted, and FATS will eventually abend with a U0888 abend code to indicate that major errors occurred.

FATS202   **IOB SENSE ECB CSW CCW ADDRESS DCB FAILING CCW**
              data corresponding to the above labels
              FULL SENSE=ff....ff

  Reason: This message is issued after message FATS201 when major I/O errors occur. At least the first two lines will
               be printed, the first containing the titles shown and the second the corresponding diagnostic data in
               hexadecimal. If the complete sense data produced by the device is available, it will be printed in the third line.

  Action: Major errors may indicate severe problems with the tape being processed or problems with the tape unit being
               used. Appropriate manufacturer's manuals should be consulted to determine the cause of the error. Contact
               Innovation if you need assistance.

FATS203   **A line of the detail report indicating a tape mark read.**

FATS204   **A line of the detail report indicating a data check.**

FATS205   **A line of the detail report indicating PRINT threshold met.**

FATS206   **A line of the detail report showing the compaction achieved for the current line.**

FATS207   **A line of the detail report indicating operator cancelled, maximum errors exceeded, end-of-tape (tape indicate), or**
              other errors that prevented FATS from completing successfully.

FATS208   **A line of the detail report indicating cleaning action.**

FATS209   **A line of the detail report indicating that an IDRC compacted file was sensed.**

FATS210   **FATS OPEN/CLOSE SUBTASK ABEND ON DD=TAPEx COMP CODE = Ssss Uuuuu**

  Reason: The FATS sub-task that handles OPEN, CLOSE, and FATAR has abended with a system (sss) or user
               (uuuu) abend.

  Action: Use of the tape drive on TAPEx will be terminated. If no other TAPEx DD statements are active, FATS will
               terminate.

FATS211   **OPERATOR CANCELLED ANALYSIS ON DD=TAPEn**

  Reason: Processing of this tape was cancelled by the operator by a reply of "KEOJ" or "Kuuu" to the FATSW02
               console message, or "TERM" or "SKIP" to the FATSW08 console message.

FATS212   **TAPEx BLP OR NL NOT ALLOWED FOR ENCRYPTED TAPES. VOL=volser WILL NOT BE ERASED.**

  Reason: An ERASE operation was requested and NL or BLP was specified on the TAPEx DD, but FATS doesn't
               support the use of NL or BLP for encrypted drives. Refer to the paragraph titled Erasing Encrypted Tapes in
               Section 11.5 for the guidelines to follow when erasing encrypted tapes.

FATS213   **TAPEx FILE NUMBER GREATER THAN 1 REQUIRED FOR ENCRYPTED TAPES. VOL=volser WILL NOT BE**
              ERASED.

  Reason: An ERASE RESIDUAL operation was requested and SL or AL was specified on the TAPEx DD. FATS
               requires a file sequence number greater than 1 when erasing residual data from encrypted tapes. Refer to
               the paragraph titled Erasing Encrypted Tapes in Section 11.5 for the guidelines to follow when erasing
               residual data from encrypted tapes.

FATS214   **TAPEx BLP FORCED FOR RESIDUAL ERASE.**

Reason: ERASE RESIDUAL was specified, but the LABEL= parameter on the corresponding TAPEx DD contained a value other than BLP. BLP was forced to prevent the tape from being overwritten by the OPEN routines.

FATS215   ****RMM UPDATE RETRIED nnn TIMES FOR DSN=dsname   ON VOL=volser**

Reason: RMMFAIL= RETRY was specified; an attempt to update the RMM information for a data set failed and was retried "nnn" times without success.

Action: The FATSCOPY job will abend.

FATS216   **DISP=(,KEEP) REQUIRED ON TAPEOUT DD**

Reason: When using TLMS, the TAPEOUT DD statement must contain DISP=(NEW,KEEP) (or DISP=(OLD,KEEP) when appending to an existing volume).

Action: The FATSCOPY job will terminate with a U100 abend. Add DISP=(NEW,KEEP) if writing to a new scratch tape; add DISP=(OLD,KEEP) if adding files to a non-scratch volume.

FATS217   **NO PHYSICAL VOLUMES FOUND FOR LOGICAL VOLUME volser**

Reason: The ALLPHYS keyword was used, but the specified logical volume was not found on any physical volume in your virtual tape system.

Action: The FATSCOPY job will terminate with a U300 abend. Be sure to specify a correct value for VIRTTYPE=, and a valid logical (not physical) volser as a parameter for the ALLPHYS= keyword.

FATS300   **A line of the summary report giving DD name, tape unit address, volume serial, operation performed, termination status, tape length, and data check summary by retry count.**

FATS301   **END OF REPORT**

Reason: Printed at the end of all detail and summary reports.

FATS345   **FILTER ERROR REASON=reason -- ENTRY=entry**

Reason: The SELECT CATDSN=filter was used to select entries from the system catalogs, and an error occurred. "entry" indicates the catalog name or the catalog entry on which the error occurred. "reason" indicates the error:

  1 -- NO CATALOGED ENTRIES FOUND -- the filter did not select any entries from the catalogs.

  2 -- CATLG ERROR COMP=*cccc* CODE=*reason* -- The IBM catalog SVC returned return code "xxxx" with reason code "reason". These codes can be found under message IDC3009I in IBM message manuals.

  3 -- CATLG NAME FPL ADDR MISSING -- internal error.

  4 -- CATLG VOLSER FPL ADDR MISSING -- internal error.

  5 -- CATLG VOLSER 0 OR MORE THAN 20 -- a catalog entry was selected that had either 0 volsers or more than 20 volsers in a CVOL (SYSCTLG) catalog.

  7 -- CATLG ENTYPE FPL ADDR MISSING -- internal error.

  A -- NAME LAST CHARACTER HIGH VALUES -- internal error.

  D -- CANNOT END IN A PERIOD -- The filter cannot end in a period. See Section 32.5 for filter rules.

  E -- INVALID GENERATION NUMBER -- The filter ends in an invalid GDG relative generation number.

  F -- SEQUENCE ERROR IN CATALOG -- A VSAM sequence error was encountered reading an ICF catalog, indicating a structural error in the catalog.

  G -- ALL ENTRIES EXCLUDED OR DUPS -- all catalog entries selected by this filter were discarded because:
    1) they were excluded by a preceding EXCLUDE statement
    2) they were previously selected by a preceding SELECT CATDSN= statement
    3) none were found on the specified VOL or DEVTYPE

  J -- INSUFFICIENT STORAGE – the REGION size was not large enough. Increase the REGION (use REGION=0M if you can) and resubmit.

      Action: Serious errors will cause a U0502 ABEND.

FATS346   **FILTER SELECTED nnnnn ENTRIES IN sssss.ss SECONDS**

Reason: This describes the number of entries selected by the SELECT CATDSN=filter, and the elapsed time in seconds required to complete the search.

FAT400   *program\|function* -- **VER** *v.rl mmt* -- **INNOVATION DATA PROCESSING DATE=***yyyy.ddd* **TIME=***hh.mm.ss* **PAGE** *nnnn*
Reason: General page header message for FATZAPOP programs. The time is not reported by all programs.

FATS401   **PARAM DATA --** * *parm-field-data* *

Reason: Displays the program control information specified in the 'PARM=' field of the EXEC statement.

FATS402   **INVALID CONTINUATION**
Reason: The last FATZAPOP control statement ended in a comma, but there was no next statement or it was not a proper continuation statement.
Action: Correct and resubmit job.

FATS405 **MAXIMUM CONTINUATION COUNT OF** *nnnn* **EXCEEDED -- COMMAND FLUSHED**

Reason: A FATZAPOP control statement used too many continuation statements.

Action: Combine multiple operands onto one line to reduce the number of continuations.

FATS407 *type* **ERROR --** *action*

Reason: An error was encountered during the processing of FATZAPOP control statements. This is always proceeded by one or more messages that define and delimit the error(s). "*type*" will be either **PARAMETER FIELD** or **CONTROL STATEMENT**.

The "*action*" is one of the following:
JOB TERMINATED – Processing will stop after the first error has been encountered.
SKIPPING FOR COMMAND – Processing will continue for all command statements found within the SYSIN data set.
RE-ENTER COMMAND OR END – Message for a user that has SYSIN data set assigned to a TSO terminal. Re-enter command in error or '**END**' to complete the processing.

Action: Correct and resubmit job.

FATS408 **NO CONTROL STATEMENTS WERE FOUND -- JOB TERMINATED**

Reason: The SYSIN data set is empty, or contained only comment statements ('*' in column 1). The first control statement can also be supplied by the EXEC statement PARM= option. There are other forms of this message that indicate that statements required for a certain function were not found.

Action: Correct and resubmit job.

FATS418 **COMMAND PROCESSING DETECTED ERROR--***action*

Reason: An error was encountered during the processing of a FATZAPOP statement. This is always proceeded by one or more messages that define the error. "*action*" will be one of:

SKIPPING FOR COMMAND – processing will continue for all command statements found within the SYSIN data set.
REVERTING TO SYSIN – the error occurred when reading from an alternate command input source. Processing will continue for commands in the SYSIN data set.
RE-ENTER COMMAND OR END – message for user that has SYSIN data set assigned to a TSO terminal. Re-enter command in error or '**END**' to complete the processing.

Action: Correct and resubmit job.

FATS465 **UNABLE TO OPEN DDNAME=***ddname--reason*

Reason: An error occurred trying to open "*ddname*", for the "*reason*" displayed.

Action: Check the joblog for IBM OPEN messages. In some cases, the DDname is not required so the message is simply informational. If the DDname is required for the operation being attempted, correct and resubmit the job.

FATS471 **DDNAME=***ddname* **I/O ERROR--SYNAD=***synadtext*

Reason: A permanent I/O error was detected on the data set referenced by "*ddname*". The IBM macro SYNADAF was invoked to format the cause of the error; the text returned is "*synadtext*".

Action: Examine the SYNADAF text to determine the cause of the error. Check the joblog for IBM I/O error messages. For additional assistance, please call Innovation Data Processing.

FATS484   **INTERNAL LOGIC ERROR--JOB TERMINATED**

Reason: The program has encountered an illogical condition.

Action: Call Innovation Data Processing for technical assistance after obtaining a storage dump.

FATS491   *function* **FUNCTION STARTED--*hh.mm.ss***

Reason: Identifies type of FATZAPOP function and time the function started.

FATS492   *function* **FUNCTION ENDED--*hh.mm.ss* CONDITION CODE-*nnnn***

Reason: Identifies type of FATZAPOP function and time the function ended. The return code is printed if nonzero.

FATS493   *function*--**BYPASSED--PRIOR FUNCTION TERMINATED WITH KEYWORD OR COMMAND DETECTED ERROR**

Reason: A previous command on which this function may be dependent encountered serious errors.

Action: Correct the condition and re-execute.

FATS496   **MODULE *modname* NOT USABLE WITH RELEASE/SYNC LEVEL *nnn* PROGRAMS - EXECUTION TERMINATED**

Reason: The main FATZAPOP program determined that a subprogram was not at a compatible level, probably because different versions of the FATSCOPY program library are being used.

Action: Contact Innovation Data Processing for assistance.

FATS497   *program* **ABNORMALLY TERMINATED DUE TO KEYWORD/COMMAND DETECTED ERRORS**

Reason: "program" did not complete normally.

FATS498   *program* **PROCESSING COMPLETED WITH ERRORS**

Reason: "*program*" completed the required processing but non-terminating errors were encountered.

Action: Check the output, correct and rerun or restart as appropriate.

FATS499   *program* **PROCESSING COMPLETED**

Reason: "program" completed the required processing successfully.

FATS990   **INSTALLED INNOVATION TRIAL WILL EXPIRE ON yy.ddd**

Reason: Product extension has completed successfully.
Required JCL:

```
//EXTEND   EXEC  PGM=FATEXTND,PARM=xxxx
//STEPLIB   DD   DISP=SHR,DSN=fats.loadlib
//SYSLIB    DD   DISP=SHR,DSN=fats.loadlib
//SYSDIAG   DD   SYSOUT=*
```

The PARM= value will be supplied by Innovation.

40.5 FATS ACTION MESSAGES

ACTION MESSAGES   The "ACTION" column of the FATS detail report will contain one of the following messages:

3480 FORMAT FILE SENSED
The current file is a normal 3480 file.

3480XF FORMAT FILE SENSED
The current file is an IDRC compacted 3480 file.

3490E FORMAT FILE SENSED
The current file is a 3490E format file that may or may not be IDRC compacted.

3590 FORMAT FILE SENSED
The current file is a 3590 (Magstar) format file that may or may not be IDRC compacted.

DATA COMPACTED BY xx%
The current file was IDRC compacted by the indicated amount.

TAPE INDICATE
The logical end of tape (end-of-tape reflector or cartridge logical end-of-tape) has been detected by a FATS WRITE operation.

PERM DATA CHECK
An error has been retried until the retry level defining a permanent error (RETRY= parameter) has been reached.

PERM DATA CHECK CNTL
An error was encountered while repositioning the tape for data check retry. No further retries are done. This may indicate serious problems with the tape or drive.

TEMP DATA CHECK
An error has been retried and was successful before the permanent error retry level was reached.

TAPE MARK
A tape mark (end of file) was read during a FATS read operation.

LABEL SAVED
The volume serial was read from the tape and labels were successfully rewritten (the SAVLAB function).

LABEL NOT SAVED
The SAVLAB function was attempted, but labels did not exist or could not be read.

LABEL WRITTEN
Labels with the specified volume serial number have been written to the tape.

LABEL NOT WRITTEN
Labels could not be written due to I/O errors.

TEMP DATA CHK LABEL

Temporary I/O errors were encountered when writing labels but the labels were written successfully.

PERM DATA CHK LABEL

Permanent I/O errors were encountered when writing or saving labels. The labels were not written.

MAX ERROR EXCEEDED

The length in inches of a contiguous data check has exceeded the MAXCERR= parameter specified. Processing of this tape will be terminated.

PRINT THRESHOLD MET

The number of errors printed for this tape exceeds the THRESHOLD= parameter specified. No more errors will be printed in the detail report, but processing will continue.

OPERATOR CANCELLED

Processing of this tape was cancelled by the operator by a reply of "KEOJ" or "Kuuu" to the FATSW02 console message or "TERM" or "SKIP" to the FATSW08 console message.

OPEN ERROR OR NO DD

Errors occurred opening this tape. Processing of all tapes on this tape unit will be halted.

CLEAN ACTION REQUEST

The number of errors on this tape exceeds the ERRCLEAN= parameter. The operator is requested to clean the tape drive and remount the same tape.