NX Nastran

Error List

Information, Warning, Error Messages

Output File Information, Warning and Error Messages

After reading in the results of a NX Nastran analysis, NX Nastran optionally displays User Information, Warning, and Error messages that are reported in the NX Nastran printed output. At this point, it is possible to jump directly to any additional information about that message inside this Help File. One can also browse and search directly through this file.

To jump to the following groups of messages, simply click on the number range of interest.

• Error Messages 1-1000
• Error Messages 1001-2000
• Error Messages 2001-3000
• Error Messages 3001-4000
• Error Messages 4001-5000
• Error Messages 5001-6000
• Error Messages 6001-7000
• Error Messages 7001-8000
• Error Messages 9001-10000
• OTHER ERROR MESSAGES

The system and user messages described in this section pertain only to those messages generated by NX Nastran. Although these messages can appear at various places in the output stream, they should be easily identified by their format. The various computer operating systems also produce diagnostic messages that can appear at various places in the output stream. The format of these messages will vary with the operating system. Reference should be made to the operating system manuals for interpretation of the messages that are not generated by NX Nastran.

System messages refer to diagnostics that are associated with program errors. In general, such errors cannot be corrected by the user. Reference should be made to the NX Nastran Programmer's Manual and assistance secured from UGS. User messages refer to errors that are usually associated with the preparation of the NX Nastran input file. Corrective action is indicated in the message text or the explanatory information following the text. In some cases reference may have to be made to other sections of the NX Nastran User's Manual for proper input file formats or for clarifications of procedures.

Fatal messages cause the termination of the execution following the printing of the message text. These messages will always appear at the end of the NX Nastran output.

Warning and information messages will appear at various places in the output stream. Such messages only convey warnings or information to the user. Consequently, the execution continues in a normal manner following the printing of the message text.

Error Messages 1-1000

01 *   USER WARNING MESSAGE 1, POSSIBLE ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ***ASSUMED LAST INPUT DATA BLOCK IS NULL.**

User has specified N input data blocks when there should be N+1. A frequent avoidance is simply to add one more comma to the input list if the last input block doesn't exist.

03 *   USER FATAL MESSAGE 3, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** FORMAT ERROR IN PARAMETER NO. ***.**

Double delimiter appears in parameter section of previous DMAP instruction.

04 *   SYSTEM FATAL MESSAGE 4, MPL PARAMETER ERROR, MODULE NAME = ******** PARAMETER NO. ***.**

MPL entry for module is incorrect. See block data program XMPLBD.

06 *   USER FATAL MESSAGE 6, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** ILLEGAL VALUE FOR PARAMETER NO. ***.**

The type of parameter in DMAP instruction does not correspond to type requested in the MPL.

For example, the location on the DMAP statement calls for an integer parameter and a real parameter has been entered.

07 *   USER FATAL MESSAGE 7, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** PARAMETER NO. *** NEEDS PARAMETER NAME.**

Parameter is not in correct format.

08 *   USER FATAL MESSAGE 8, BULK DATA PARAM CARD ERROR. MUST NOT DEFINE PARAMETER NAMED ********.**

The "N" in V,N ******** means user cannot set the value of the parameter with name ******** on a PARAM card.

In DMAP, when defining a parameter, the "N" in V,N ******** means user cannot set the value of the parameter with name ******** on a PARAM entry in Bulk Data.

09 *   USER FATAL MESSAGE 9, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** VALUE NEEDED FOR PARAMETER NO. ***.**

Constant needs value in a DMAP instruction or on a PARAM entry. There is a parameter in the referenced DMAP instruction which must have a value assigned before the execution of the module.

10 *   USER FATAL MESSAGE 10, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** ILLEGAL INPUT SECTION FORMAT.**

Too many or too few inputs are specified in the input for the referenced module.

11 *   USER FATAL MESSAGE 11, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** ILLEGAL OUTPUT SECTION FORMAT.**

Too many or too few outputs are specified in the input for the referenced module.

12 *   USER FATAL MESSAGE 12, ERROR IN DMAP INSTRUCTION NO. ** ILLEGAL CHARACTER IN DMAP INSTRUCTION NAME.**

Name of a module must be alpha-numeric characters, the first character being alphabetic. Special characters are not allowed. For example DMAP names like "8MOD" or "SETI=2" are not allowed.

13 * USER FATAL MESSAGE 13, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** DMAP INSTRUCTION NOT IN MODULE LIBRARY.**

The named DMAP refers to a non-existent module name. Check spelling.

14 * SYSTEM FATAL MESSAGE 14, ARRAY NAMED ******** OVER-FLOWED.**

See XGPI module description in MFD section of Programmer's Manual. The usual cause is insufficient open core. In other cases, it may be necessary to divide the DMAP sequence into subDMAPs.

15 * USER FATAL MESSAGE 15, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** INCONSISTENT LENGTH USED FOR PARAMETER NAMED ********.**

This parameter was used in a previous DMAP instruction which gave it a different type. See Section 5.2.1 of the User's Manual.

16 * USER FATAL MESSAGE 16, ILLEGAL FORMAT.**

Usually caused by early termination such as a LABEL without a NAME.

17 * USER FATAL MESSAGE 17, UNIDENTIFIED NASTRAN CARD KEYWORD ********. ACCEPTABLE KEYWORDS FOLLOW --- Compare your NAS-TRAN command to the list of acceptable keywords**

18 * USER FATAL MESSAGE 18, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** TOO MANY PARAMETERS IN DMAP PARAMETER LIST.**

Incorrect calling sequence for DMAP instruction. Compare the DMAP statement to the description in the User's Manual Section 5 or the Programmers Manual to find the error.

19 * USER FATAL MESSAGE 19, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** LABEL NAMED ******** IS MULTIPLY DEFINED.**

LABEL named appears in more than one place in DMAP program.

22 * USER FATAL MESSAGE 22, DATA BLOCK NAMED ******** MUST BE DEFINED PRIOR TO THIS INSTRUCTION.**

See Section 5.2 of the User's Manual. Data blocks must be output before they can be input.

A common mistake is to forget the DMAP statements DMIIN and DTIIN are required to read DMI and DTI matrices, respectively. Note that RF24D41 requires a DTIIN command (see Error Report 3734).

24 * SYSTEM FATAL MESSAGE 24, CANNOT FIND FILE NAMED ******** ON DATA POOL TAPE.**

Contents of /XDPL/ do not match contents of Pool Tape.

25 * USER FATAL MESSAGE 25, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** PARAMETER NAMED ******** HAS AN INCONSISTENT USER AUTHORIZATION.**

Parameter is referenced in nonfunctional module, but is nowhere defined. An example is COND LBL,X where X is not a variable parameter in a module before this statement.

26 * USER FATAL MESSAGE 26, ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** LABEL NAMED ******** NOT DEFINED.**

LABEL name does not appear in LABEL instruction. For example a COND,XXX statement appears without a LABEL,XXX statement.

27 * USER WARNING MESSAGE 27, LABEL NAMED ******** NOT REFERENCED.**

LABEL name appears only in a LABEL instruction. It is not necessary to reference a LABEL.

34 * SYSTEM FATAL MESSAGE 34, CANNOT TRANSLATE DMAP INSTRUCTION NO. ***.**

Error in subroutine XSCNDM.

38 * SYSTEM FATAL MESSAGE 38, NOT ENOUGH CORE FOR GPI TABLES User must break up DMAP program.**

39 * SYSTEM FATAL MESSAGE 39, RIGID FORMAT DMAP SEQUENCE DOES NOT CORRESPOND TO MED TABLE.**

The MED Table must have the same number of entries as there are DMAP instructions in DMAP sequence. Can be caused by having more than one END DMAP statement.

40 * USER FATAL MESSAGE 40, ERROR IN ALTER DECK - CANNOT FIND END OF DMAP INSTRUCTION.**

User should check ALTER part of the Executive Control Deck.

41 * SYSTEM FATAL MESSAGE 41, TABLES INCORRECT FOR REGENERATING DATA BLOCK ********.**

File Name Table and MED Table used by routine XFLDEF are wrong. The user can compensate by altering OUT and IN module(s) which regenerate the data block.

42 * USER WARNING MESSAGE 42, POSSIBLE ERROR IN DMAP INSTRUCTION *** INSTRUCTION NO. ** PARAMETER NAMED ******** ALREADY HAD VALUE ASSIGNED PREVIOUSLY.**

A DMAP instruction is attempting to assign a default value to a parameter that appears in a previous instruction which assigned it a value.

43 * USER FATAL MESSAGE 43, INCORRECT FORMAT FOR NASTRAN CARD.**

NASTRAN statement format is wrong. Possibly a missing value or a real for an integer value.

49 * SYSTEM FATAL MESSAGE 49, MPL TABLE (MODULE PROPERTIES LIST) IS INCORRECT.**

Error is in common block /XGP12/.

51 * SYSTEM FATAL MESSAGE 51, NOT ENOUGH OPEN CORE FOR XGPIBS ROUTINE.**

Additional core memory is required to compile DMAP or rigid format.

52 * SYSTEM FATAL MESSAGE 52, NAMED COMMON /XLINK/ IS TOO SMALL.**

There must be one word in LINK table for every entry in MPL.

53 *** USER FATAL MESSAGE 53, INCORRECT FORMAT IN ABOVE CARD.

The link specification updated data (DIAG 28, 29, 30) is incorrect.

54 *** THE PARAMETER IS NOT IN THAT SOLUTION OR VERSION.

Use the PRTPARM DMAP statement to print acceptable parameter values for this solution and version.

55 *** USER FATAL MESSAGE 55, THE "SUBDAMP" KEYWORD CAN BE USED ONLY ONCE PER SUBDMAP.

Check your DMAP to be sure that each subDMAP has only one "SUBDMAP" statement and also that each one has an "END" statement.

57 *** SYSTEM INFORMATION MESSAGE 57 (BMPLOK), FATAL. DUPLI-CATE MPL NAME ENCOUNTERED. NAME = ********.

58 *** SYSTEM FATAL MESSAGE 58, THE OSCAR REGION OF OPEN CORE IS INSUFFICIENT FOR DMAP CODE EXPANSION. PROGRAMMER INFORMATION: LOSCAR = ********.

59 *** USER FATAL MESSAGE 59, ENDIF AT DMAP STATEMENT # ****** IS MISSING AN IF THEN STATEMENT.

60 *** USER FATAL MESSAGE 60, IF THEN AT DMAP STATEMENT # ****** IS MISSING AN ENDIF STATEMENT.

61 *** USER FATAL MESSAGE 61, AN EXTRA "ELSE" STATEMENT EXISTS AT DMAP STATEMENT *****.

63 *** USER FATAL MESSAGE 63, ******** AT DMAP NO. ***** IS ILLE-GALLY BRANCHING INTO OR OVERLAPS AN "IF THEN", "DO WHILE", OR "REPT".

64 *** USER FATAL MESSAGE 64, ATTEMPT TO JUMP BACKWARDS AT DMAP STATEMENT *****.

65 *** USER FATAL MESSAGE 65, NO MATCHING DO WHILE FOR ENDDO AT DMAP STATEMENT *****.

66 *** USER FATAL MESSAGE 66, INSUFFICIENT CORE AVAILABLE FOR DO WHILE PROCESSING IN DMAP COMPILER.

67 *** USER FATAL MESSAGE 67, DMAP STRUCTURE HAS MIS-MATCHED NUMBER OF IF THEN AND ENDIF STATEMENTS.

68 *** USER FATAL MESSAGE 68, DMAP STRUCTURE HAS MIS-MATCHED NUMBER OF DO WHILE AND ENDDO STATEMENTS.

69 *** USER FATAL MESSAGE 69, SUBDMAP STATEMENT PARAMETER ******** NOT DEFINED.

70 *** USER WARNING MESSAGE 70, TYPE STATEMENT PARAMETER ******** NOT IN VPS TABLE. MUST BE A CODE LOGIC ERROR FOR THIS TO HAPPEN.

71 *** USER FATAL MESSAGE 71, SYNTAX ERROR IN ABOVE DO WHILE STATEMENT.

72 *** USER FATAL MESSAGE 72, PARAMETER SYNTAX ERROR IN ABOVE STATEMENT. PARAMETER IS ******** --- ERROR CODE = ********.

One possible occurrence of this error is when parameters are improperly defined on a CALL sub-DMAP statement.

If the value of a parameter is allowed to change in the called subDMAP, then it must be specified

as S,XXXXX, where XXXXX is the parameter name. If it is specified as S,N,XXXXX, then error code 2 will occur pointing to a parameter named N.

If a parameter field is left blank on a CALL subDMAP statement, then error code 2 will be improperly issued pointing to the last parameter in the command preceding the blank field. The correction for this is to place either a parameter name or value in the blank field.

73 * USER FATAL MESSAGE 73, THE PARAMETER NAMED ******** IS UNDEFINED.**

75 * USER FATAL MESSAGE 75, ELSE AT DMAP STATEMENT # ****** APPEARS BEFORE AN ELSE IF THEN STATEMENT.**

76 * SYSTEM FATAL MESSAGE 76, AN NX Nastran INTERNAL LIMIT RELATING TO CALL STATEMENTS HAS BEEN EXCEEDED.**

USER INFORMATION: THIS LIMIT DEPENDS ON THE TOTAL NUMBER OF ARGUMENTS SPECIFIED ON ALL THE CALL STATEMENTS THAT HAVE BEEN COMPILED IN THIS RUN.

USER ACTION: REDUCE THE NUMBER OF CALL STATEMENTS OR THE NUMBER OF ARGUMENTS ON THE CALL STATMENTS.

PROGRAMMER ACTION: INCREASE THE SIZE OF VARIABLE MAXCAL AND ARRAY CALLS OF COMMON BLOCK CCALL1.

100 * USER FATAL MESSAGE 100 (********), THE ABOVE CARD HAS AN INCORRECT FORMAT. ERROR CODE= ********.**

101 * SYSTEM FATAL MESSAGE 101 (********), INCORE LIST OF DEPENDENCY CARDS HAS OVERFLOWED AVAILABLE OPEN CORE SPACE. AVAILABLE OPEN CORE WORDS IS ********. 12 WORDS ARE NEEDED FOR EACH DEPENDENCY CARD IN NDDL.**

102 * SYSTEM FATAL MESSAGE 102 (********), INSUFFICIENT STORAGE SPACE FOR NDDL DEFINED QUALIFIERS -- NUMBER OF QUALIFIERS CURRENTLY LIMITED TO ********.**

103 * USER FATAL MESSAGE 103 (********), INSUFFICIENT OPEN CORE TO HOLD NDDL DATA BLOCK DESCRIPTION FOR ********. AVAILABLE OPEN CORE WORDS IS ********.**

104 * USER FATAL MESSAGE 104 (********), INSUFFICIENT STORAGE SPACE FOR NDDL PATH CARDS. STORAGE SPACE LIMITED TO ******** PATH CARDS.**

105 * USER FATAL MESSAGE 105 (********), 'PATH=' KEYWORD NOT FOUND ON NDDL DATA BLOCK STATEMENT FOR ********.**

106 * USER FATAL MESSAGE 106 (********), NDDL PATH NAME = ******** ON DATA BLOCK STATEMENT FOR ******** HAS NOT BEEN DEFINED.**

107 * USER FATAL MESSAGE 107 (********), INSUFFICIENT OPEN CORE SPACE FOR NDDL PARAMETER CARD TABLE. AVAILABLE OPEN CORE IN WORDS IS ********. EACH PARAMETER REQUIRES 9 WORDS OF THIS STORAGE SPACE.**

108 * USER FATAL MESSAGE 108 (********), NDDL PATH NAME = ******** ON DATA BLOCK STATEMENT FOR ******** HAS NOT BEEN DEFINED.**

109 * USER FATAL MESSAGE 109 (********), NO NDDL DEPENDENCY CARDS FOUND.**

110 * USER FATAL MESSAGE 110 (********), A QUALIFIER NAMED ******** USED ON A PATH CARD HAS NOT BEEN DEFINED.**

111 * USER FATAL MESSAGE 111 (********), INSUFFICIENT STORAGE SPACE FOR NDDL PATH CARDS.**

PROGRAMMER ACTION: INCREASE ARRAY PATHTB AND MAXDB.

USER ACTION: DECREASE NUMBER OF PATHS AND/OR NUMBER OF QUALIFIERS ON PATH CARDS. STORAGE SPACE LIMITED TO ******** WORDS. EACH PATH REQUIRES ((2 * #QUALIFIERS) +1) WORDS.

112   * SYSTEM FATAL MESSAGE 112 (NDDL), THE PVA TABLE EXCEEDS THE MAXIMUM ALLOWABLE SIZE OF ******.**

113   * USER FATAL MESSAGE 113 (NDDL), INVALID LOGICAL ASSIGN- MENT ATTEMPTED IN NDDL DESCRIPTION.**

114   * USER FATAL MESSAGE 114 (NDDL), INVALID ASSIGNMENT OF TRUE OR FALSE ATTEMPTED IN NDDL DESCRIPTION.**

115   * USER FATAL MESSAGE 115 (NDDL), THE DATA BLOCK DESCRIP- TION FOR ******** IS MISSING THE 'LOCATION=' KEYWORD.**

116   * USER FATAL MESSAGE 116 (NDDL), LOCATION (***) ******** IS UNDEFINED FOR PARAMETER= ********.**

117   * SYSTEM FATAL MESSAGE 117 (NDDL), THE PATH VALUE TABLE HAS OVERFLOWED. THE NUMBER OF PATHS IN THIS NDDL EXCEEDS THE MAXIMUM ALLOWED.**

USER INFORMATION: MAXIMUM NUMBER OF PATHS ALLOWED = ********.

PROGRAMMER ACTION: INCREASE THE SIZE OF THE PVATB ARRAY.

118   * SYSTEM FATAL MESSAGE 118 (NDDL), THE NDDL TABLES INITIAL- IZED BY SUBROUTINE XCSA ARE BAD. CHECK THE RECORD AND OPTIONS OF OPENS (I.E., WRT, WRTREW)**

119   * USER FATAL MESSAGE 119 (NDDL), THE LIMIT ON THE NUMBER OF NDDL PARAMETERS HAS BEEN EXCEEDED.**

USER INFORMATION: THE CURRENT LIMIT IS = ********.

120   * USER INFORMATION MESSAGE 120 (NDDL), *** ERROR IN DATA BLOCK ********.**

121   * USER INFORMATION MESSAGE 121 (NDDL), *** ERROR IN DATA BLOCK ******** - RECORD ********.**

141   * USER WARNING MESSAGE 141 (********), NDDL 'PARAMETER' DEF- INITION TABLE NOT FOUND.**

Insert ACQUIRE NDDL or ACQUIRE NDDLOLD in FMS.

142   * USER WARNING MESSAGE 142 (********), NDDL 'QUALIFIER' DEFI- NITION TABLE NOT FOUND.**

Insert ACQUIRE NDDL or ACQUIRE NDDLOLD in FMS.

143   * USER WARNING MESSAGE 143 (********), NDDL 'DATABLOCK' DEF- INITION TABLE NOT FOUND.**

Insert ACQUIRE NDDL or ACQUIRE NDDLOLD in FMS.

144   * USER FATAL MESSAGE 144 (********), SUBDMAP ******** (CALLED BY SUBDMAP ********) IS NOT IN THE DATABASE.**

A "CALL" statement refers to an undefined subDMAP. Check the format on the offending "CALL" statement.

145 *** USER FATAL MESSAGE 145 (********), SUBDMAP ******** (CALLED BY SUBDMAP - ********) DOES NOT HAVE CORRECT NUMBER OF WORDS IN FIRST RECORD. IT MUST NOT BE AN OSCAR FILE.

USER ACTION: SEND RUN TO UGS.
DUMP OF BAD FIRST RECORD.

146 *** USER FATAL MESSAGE 146 (********), A 'TYPE' STATEMENT DEFINES A DATABLOCK ********IN SUBDMAP ******** WHICH IS NOT DEFINED IN THE 'NDDL'.

This error may be issued in the following circumstances:

1.

The TYPE statement references an item which has not been defined in the NDDL.

2.

The NDDL stored in the user's MASTER dbset is inconsistent with the NDDL and DMAP stored in the delivery database; for example, a database created in Version 66 or 66A is being used in a Version 67 run.

Another example of when this error will occur is when a user is accidentally attaching to an old database, because he has run multiple jobs with the same input filename, and he has also changed from a USS to SSS solution sequence or vice-versa. (e.g. SOL 24 to SOL 101).

147 *** USER FATAL MESSAGE 147 (********), A 'TYPE' STATEMENT DEFINES A QUALIFIER/PARAMETER ******** IN SUBDMAP ******** WHICH IS NOT DEFINED IN THE 'NDDL'.

See remark under UFM 146.

148 *** USER FATAL MESSAGE 148 (********), A 'TYPE' STATEMENT DEFINES A QUALIFIER/PARAMETER ******** IN SUBDMAP ******** WHICH DOES NOT MATCH THE VARIABLE TYPE IN THE 'NDDL'.

See remark under UFM 146.

149 *** USER FATAL MESSAGE 149 (********), CALL STATEMENT ******** IN SUBDMAP ******** HAS AN ARGUMENT LIST OF DIFFERENT LENGTH THAN THE CALLED SUBDMAP.

The run can fail in an unpredictable manner. Make sure that the number of arguments in the subDMAP CALL match the number of arguments in the subDMAP. (This was a warning message prior to Version 67.5.)

150 *** USER FATAL MESSAGE 150 (********), SUBDMAP ******** CALLED BY SUBDMAP ******** CANNOT BE FOUND IN DATABASE.

151 *** USER FATAL MESSAGE 151 (********), CALL STATEMENT ******** IN SUBDMAP ******** HAS A PARAMETER THAT DOES NOT MATCH CALLED SUBDMAP IN TYPE AND/OR LENGTH.

USER INFORMATION: PARAMETER IS NUMBER ******** TYPE IS: ******** TYPE SHOULD BE: ******** (0-UNDEFINED, 1-INTEGER, 2-REAL S.P., 3-BCD, 4-REAL D.P., 5-COMPLEX S.P., ,6-COMPLEX D.P., 7-LOGICAL) LENGTH IS: ******** LENGTH SHOULD BE: ********.

152 *** USER FATAL MESSAGE 152 (********), SUBDMAP ******** CANNOT BE FOUND IN DATABASE, ---- MUST BE CODE LOGIC ERROR.

USER ACTION: SEND RUN TO UGS.

153 * USER FATAL MESSAGE 153 (********), END-OF-FILE HIT WHILE READING SUBDMAP ******** ---MUST BE CODE LOGIC ERROR.**

USER ACTION: SEND RUN TO UGS.

154 * USER FATAL MESSAGE 154 (********), A 'TYPE' STATEMENT DEFINES A VARIABLE ******** IN SUBDMAP ******** WHICH IS DEFINED AS BOTH A QUALIFIER AND A PARAMETER IN THE 'NDDL'.**
155 * USER FATAL MESSAGE 155 (********), A 'TYPE' STATEMENT DEFINES A CHARACTER QUALIFIER/PARAMETER ******** IN SUBDMAP ******** WHICH DOES NOT MATCH THE CHARACTER LENGTH IN THE 'NDDL'.**
156 * USER FATAL MESSAGE 156 (********), MAIN SUBDMAP (********) IS NOT IN THE DATABASE.**

USER ACTION: CHECK SOL STATEMENT FOR CORRECT SOLUTION REQUEST.

157 * SYSTEM FATAL MESSAGE 157 (LINKER), TOTAL NUMBER OF SUB-DMAPS REFERENCED BY THIS SOLUTION SEQUENCE HAS EXCEEDED THE ALLOWABLE NUMBER.**

USER ACTION: REDUCE THE NUMBER OF SUBDMAPS.

PROGRAMMER ACTION: INCREASE THE SIZE OF LIST2 ARRAY.

158 * SYSTEM FATAL MESSAGE 158 (LINKER), END OF RECORD OF FILE 315 IN LINKER. EACH RECORD IN THIS FILE SHOULD CONSIST OF 10 WORDS. THIS FILE CONTAINS THE LINK CARDS GENERATED IN XCSA/ PRLINK.**
159 * USER INFORMATION MESSAGE 159 (******), THE EXTERNAL SUBD-MAP CALLS FOR ********(MAIN) SUBDMAP WILL BE SATISFIED BY OBJECTS FROM MSCOBJ DBSET.**
160 * USER FATAL MESSAGE 160 (LINKSB), OBJECT FILE FOR SUBD-MAP ******** IS EMPTY.**

USER ACTION: RECOMPILE THIS SUBDMAP.

161 * USER FATAL MESSAGE 161 (CTYPE), DATABLOCK **** IS REFER-ENCED ON A TYPE DB STATEMENT AND THE SUBDMAP STATEMENT.**

USER ACTION: REMOVE THE REFERENCE FROM THE SUBDMAP STATEMENT OR THE TYPE DB STATEMENT.

If a datablock is on the SUBDMAP statement, the calling subdmap will define whether it is a type db or not. Therefore, having a "TYPE DB" statement in the called subdmap is a conflict.

200 * SYSTEM INFORMATION MESSAGE 200 (******), NO ERROR MES-SAGE EXISTS FOR CEPMSG INTERNAL ERROR CODE ********** CALLED FROM ****** DURING **** PROCESSING.**
201 * USER FATAL MESSAGE 201 (******), ********** ********** NOT FOUND IN VPS TABLE.**
202 * SYSTEM FATAL MESSAGE 202 (******), UNABLE TO ADD ********** CONSTANT ******** TO VPS TABLE.**
203 * SYSTEM WARNING MESSAGE 203 (******), TYPE CODE **** IS CUR-RENTLY NOT IMPLEMENTED IN THE EXPRESSION **** PARSER.**

USER ACTION: PROGRAM LOGIC ERROR. NOTIFY UGS IMMEDIATELY.

204   * USER FATAL MESSAGE 204 (******), NULL CHARACTER ****** AT POSITION **** OF ****.**

205   * USER FATAL MESSAGE 205 (******), SYNTAX ERROR IN STRING CONSTANT AT POSITION **** OF ****.**

206   * USER FATAL MESSAGE 206 (******), SYNTAX ERROR DETECTED IN STRING AT POSITION **** - OF **** CHARACTER ****.**

207   * USER FATAL MESSAGE 207 (******), INVALID USE OF ********** CON-STRUCTING ********** CONSTANT AT POSITION **** OF ****.**

This can occur if a complex number has a decimal point immediately following the sign--make sure that there is a zero between the sign and the decimal point.

208   * USER FATAL MESSAGE 208 (******), INVALID ********** PRECISION CONSTANT AT POSITION **** OF ****.**

209   * USER FATAL MESSAGE 209 (******), INVALID CHARACTER DETECTED IN COMPLEX CONSTANT AT POSITION **** OF ****.**

210   * USER FATAL MESSAGE 210 (******), MULTIPLE SIGN DETECTED IN COMPLEX CONSTANT AT POSITION **** OF ****.**

211   * USER FATAL MESSAGE 211 (******), EMBEDDED BLANKS DETECTED IN COMPLEX NUMBER AT POSITION **** OF ****.**

212   * USER FATAL MESSAGE 212 (******), CHARACTER STRING EXCEEDS 80 CHARACTERS AT POSITION **** OF ****.**

213   * USER FATAL MESSAGE 213 (******), ******* PRECEDED BY ******* AT POSITION **** OF ****.**

214   * USER FATAL MESSAGE 214 (******), LOGICAL CONSTANTS MAY NOT APPEAR ON THE LEFT-SIDE OF AN ASSIGNMENT STATEMENT. AN ATTEMPT WAS MADE TO REDEFINE ***** AT POSITION **** OF ****.**

215   * USER FATAL MESSAGE 215 (******), BINARY OPERATORS CANNOT BE THE FIRST SYMBOL FOUND IN AN ARITHMETIC OR LOGICAL EXPRES-SION.**

216   * USER WARNING MESSAGE 216 (******), VARIABLE NAME EXCEEDS 8 CHARACTERS AT POSITION **** OF **** VARIABLE NAME IS TRUNCATED TO ********. RESULTANT PROCESSING MAY BE INCORRECT OR AMBIGU-OUS.**

217   * SYSTEM FATAL MESSAGE 217 (******), THE **** OSCAR ******** ADDRESS POINTER (*****) IS INVALID.**

218   * USER FATAL MESSAGE 218 (******), NUMERIC MIXED MODE ASSIGNMENTS ARE NOT ALLOWED IN **** ASSIGNMENT ATTEMPTED: ********** DATA TO ********** VARIABLE.**

This indicates that an assignment statement has mixed-mode arithmetic. User action: Check that all variables in the expression are of the same type (example: real-single precision). If not, there are expressions to convert from one type (example: integer) to another (example: real-single precision).

219   * USER WARNING MESSAGE 219 (******), A NUMERIC MIXED MODE ASSIGNMENT WAS MADE IN THE PRECEEDING **** ASSIGNMENT MADE: ********** DATA TO ********** VARIABLE.**

See UFM 218.

220   * USER FATAL MESSAGE 220 (******), ASSIGNMENT OF ********** VALUE TO ********** VARIABLE IS ILLEGAL IN ****.**

See UFM 218.

221 * USER FATAL MESSAGE 221 (*****), INVALID MIXED MODE EXPO-NENTIATION OPERATION ********** BASE RAISED TO ********** POWER.**

See UFM 218.

222 * USER FATAL MESSAGE 222 (*****), NON-NUMERIC ********** USED IN EXPONENTIATION OPERATION DURING *** PROCESSING.**

See UFM 218.

223 * USER FATAL MESSAGE 223 (*****), THE ********** OPERATOR *** CANNOT BE USED ON ********** OPERANDS DURING *** PROCESSING.**

See UFM 218.

224 * USER FATAL MESSAGE 224 (*****), MIXED MODE USAGE BY THE ARITHMETIC OPERATOR *** IS INVALID DURING *** PROCESSING. USAGE IS BETWEEN ********** AND ********** OPERANDS.**

See UFM 218.

225 * USER FATAL MESSAGE 225 (*****), THE ********** OPERATOR *** CANNOT BE USED BETWEEN ********** AND ********** OPERANDS DURING *** PROCESSING.**

See UFM 218.

226 * USER FATAL MESSAGE 226 (*****), THE *** OPERATOR CANNOT BE USED ON ********** VALUES IN A ****.**

See UFM 218.

227 * USER FATAL MESSAGE 227 (*****), UNMATCHED ********** DETECTED IN ****.**

Even if the DMAP statement is followed by a "$" to denote a comment, and the comment contains a single quote ('), then this error will occur. See Error Report 3774.

228 * USER FATAL MESSAGE 228 (*****), THE KEYWORD ******** WAS USED AS A VARIABLE AT POSITION **** OF ****.**

229 * USER WARNING MESSAGE 229 (*****), NO INFORMATION AVAIL-ABLE TO PROCESS ON ****.**

230 * SYSTEM FATAL MESSAGE 230 (*****), THE FUNCTION ******** WAS NOT FOUND IN LIBRARY FUNCTION TABLE DURING **** PROCESSING.**

231 * USER FATAL MESSAGE 231 (*****), THE NUMBER OF ARGUMENTS IN THE ARGUMENT LIST FOR ******** IS ********** THAN THE ********** ***** ARGUMENTS **********. NUMBER OF ARGUMENTS SPECIFIED WAS *****.**

232 * SYSTEM FATAL MESSAGE 232 (*****), ********** ARGUMENT FOR-MAT FOR FUNCTION ******** NOT DEFINED IN LIBRARY FUNCTION TABLE.**

233 * SYSTEM FATAL MESSAGE 233 (*****), ********** OCCURRED DUR-ING PROCESSING OF ********** STACK DURING **** PROCESSING.**

PROGRAMMER INFORMATION: STACK POINTER = ********** WITH ********** = *******.

USER INFORMATION: THIS ERROR OCCURS WHEN THE EXPRESSION BEING PARSED CONTAINS MORE UNIQUE VARIABLES AND CONSTANTS THAN ALLOWED.

USER ACTION: SIMPLIFY EXPRESSION AND NOTIFY UGS.

234 *** USER FATAL MESSAGE 234 (******), SYNTAX ERROR DETECTED WHILE PROCESSING ********** PRECISION CONSTANT IN A ****.

USER ACTION: CORRECT SYNTAX FOR ********** PRECISION CONSTANT AND RESUB-MIT RUN.

235 *** USER FATAL MESSAGE 235 (****), THE MAXIMUM SPACE IN THE **** ARRAY HAS BEEN EXCEEDED DURING **** PROCESSING.

USER INFORMATION: 1.   THE MAXIMUM NUMBER OF AVAILABLE TOKENS IS ****   2. EACH OPERATOR, VARIABLE NAME, OR CONSTANT VALUE MAKE ONE TOKEN USER ACTION: SIMPLIFY EXPRESSION AND RESUBMIT RUN.

300 *** USER FATAL MESSAGE 300, DATA ERROR IN FIELD UNDERLINED.

A data error as described in the text has been detected by utility routine XRCARD or RCARD.

300   *** USER FATAL MESSAGE 300 FROM (***) XRCARD ABOVE.

XRCARD (which processes free-field input from the Executive and Case Control sections and DMAP) has detected one error. The message preceding this one explains the nature of the error.

These preceding messages are as follows:

    ***   INVALID DATA COLUMN 72.

Column 72 cannot be data which requires continuation to one other physical entry. An example would be to have 1.E+ with the + in column 72.

    ***   INTEGER DATA OUT OF MACHINE RANGE.

The integer is larger than the largest integer allowed on this kind of a computer.

    ***   INVALID CHARACTER FOLLOWING INTEGER IN COLUMN ***.

Integers cannot start alphanumeric fields. Make sure that the first character is alphabetic.

For example, the ID statement must begin with a letter, and cannot begin with a number.

    ***   DATA ERROR -- UNANTICIPATED CHARACTER IN COLUMN ***.

The exponent field is incorrect.

    ***   DATA ERROR MISSING DELIMETER OR REAL POWER OUT OF MACHINE RANGE.

The number is larger than allowed for this machine. Ranges are specified in Section 1.3 of the NX Nastran Programmer's manual.

    ***   HOLLERITH DATA ERROR STARTING IN COLUMN ***.

Hollerith string extends beyond column 72.

*** ROUTINE XRCARD FINDS OUTPUT BUFFER TOO SMALL TO PROCESS CARD COMPLETELY.

This is a programming error. The run should be forwarded to UGS. A possible avoidance is to shorten the number of items on the card.

301 *** USER WARNING MESSAGE 301, BULK DATA CARD ******** CONTAINS INCONSISTENT DATA. SORTED CARD COUNT = ******.

One or more of the Poisson's Ratios on a MAT3 entry is greater than 1.0.

302 *** USER INFORMATION MESSAGE 302, ONE OR MORE GRID CARDS HAVE DISPLACEMENT COORDINATE SYSTEM ID OF -1.

Coordinate system identification numbers of -1 indicate fluid grid point in coupled fluid-structure analysis. See Section 1.16.

303 *** SYSTEM FATAL MESSAGE 303, NO OPEN CORE FOR IFP.

Additional core memory is required.

305 *** SYSTEM FATAL MESSAGE 305, GINO CANNOT OPEN FILE ******.

Unexpected nonstandard return from OPEN.

306 *** SYSTEM FATAL MESSAGE 306, READ LOGIC RECORD ERROR.

Short record encountered. Bulk Data entries occupy 20 words.

307 *** USER FATAL MESSAGE 307, ILLEGAL NAME FOR BULK DATA CARD ******.

See Section 2.4 of the User's Manual.

308 *** USER FATAL MESSAGE 308, CARD ****** NOT ALLOWED IN ****** APPROACH.

See Section 2.4 of the User's Manual.

309 *** USER WARNING MESSAGE 309, CARD ****** IMPROPER IN ******** APPROACH.

See Section 2.4 of the User's Manual.

310 *** USER FATAL MESSAGE 310, CARD ****** NOT ALLOWED IN SAME DECK AS AXIC CARD.

See Section 2.4 of the User's Manual.

311 *** USER FATAL MESSGE 311, NONUNIQUE FIELD 2 ON BULK DATA CARD ******** ***.

Sorted Bulk Data entry indicated must have a unique integer in field 2. An error in the input has been detected. Two or more grid points, elements, or properties have the same id. (For example, you may not use two GRID entries with the GID=2 in the same run.)

312 *** USER FATAL MESSAGE 312, TOO MANY CONTINUATIONS FOR BULK DATA CARD ******.

See Bulk Data entry description in Section 2.4 of the User's Manual.

313 *** USER FATAL MESSAGE 313, ILLEGAL NUMBER OF WORDS ON

BULK DATA CARD ******.

See Bulk Data entry description in Section 2.4 of the User's Manual. One cause of this message is using a "D" before the exponent for a real number. Only "E" is allowed, unless noted otherwise on the Bulk Data entry description in Section 2.4. Another cause is placing a BCD variable in a real or integer field, such as using O when 0 is intended.

314   *** SYSTEM FATAL MESSAGE 314, INVALID CALL FROM IFP ******.

Code error, machine failure, or cell is being destroyed.

315   *** USER FATAL MESSAGE 315, FORMAT ERROR ON BULK DATA CARD ******.

See Bulk Data entry description in Section 2.4.

316   * USER FATAL MESSAGE 316, ILLEGAL DATA ON BULK DATA CARD ******.**

Typically this error is the result of incorrectly defining a material or element property. The most common error occurs on the PLATE property dialog box when the Memb-Bend Coupling is set to the same material as Transverse Shear and Bending. For most applications this item should be kept at the default setting of 0..None - Ignore. Only in situations where you want to model offsets of the PLATE's midplane from the nodes should you consider Memb-Bend Coupling.

317   * USER FATAL MESSAGE 317, BAD DATA OR FORMAT OR NON-UNIQUE NAME DTI **** SORTED CARD COUNT ****.**

See Bulk Data entry description in Section 2.4.

318   * SYSTEM FATAL MESSAGE 318, NO ROOM IN /XDPL/ FOR DTI ****.**

Overflow of Data Pool Table. See Section 2 of the Programmer's Manual.

319   * SYSTEM FATAL MESSAGE 319, IFP READING EOF ON NPTP.**

Unexpected EOF encountered while attempting to read a bulk data entry.

320   * USER FATAL MESSAGE 320, IFP ERROR ****** LAST CARD PROCESSED IS ******.**

Code error in IFP or XSORT.

321   * USER FATAL MESSAGE 321, NON-UNIQUE PARAM NAME *****.**

All names of parameters must be unique.

322   * SYSTEM FATAL MESSAGE 322, ILLEGAL ENTRY TO IFSIP.**

IFP code error detected in IFS1P, IFS2P, IFS3P, IFS4P, IFS5P, IFS6P.

324   * USER WARNING MESSAGE 324, BLANK CARD(S) IGNORED.**

Blank Bulk Data entries are ignored by NASTRAN.

325   * USER FATAL MESSAGE 325, BAD DATA OR FORMAT OR NON-UNIQUE NAME. DMI ******.**

See Bulk Data entry description in Section 2.4.

326   * SYSTEM FATAL MESSAGE 326, NO ROOM IN /XDPL/ FOR DMI ******.**

Overflow of Data Pool Table. See Section 2 of the Programmer's Manual.

327   * USER FATAL MESSAGE 327, BAD DATA OR FORMAT OR NON-UNIQUE NAME. DMIG ******.**

See Bulk Data entry description in Section 2.4. Often this is related to simply having the wrong type of input. For example, if the matrix type for input is declared as double precision, then all values must be of the form x.xxxD+yy, or double precision.

329   * USER FATAL MESSAGE 329, ONLY ONE (1) AXIC CARD ALLOWED.**

See Bulk Data entry description in Section 2.4.

330   * SYSTEM FATAL MESSAGE 330, NO ROOM IN CORE FOR PARAM CARDS.**

Change overlay or increase core size.

331   *** USER FATAL MESSAGE 331, IMPROPER PARAM CARD ******.

See Bulk Data entry description in Section 2.4 of the User's Manual.

332   *** USER FATAL MESSAGE 332, AXIC CARD REQUIRED.

The presence of any conical shell data entries requires the presence of an AXIC entry. See the AXIC Bulk Data entry description in Section 2.4 of the User's Manual.

333   *** USER WARNING MESSAGE 333 (SEMTRN), THE BEGIN BULK STATEMENT IS MISSING. A BEGIN BULK STATEMENT WILL BE INSERTED BY THE PROGRAM No BEGIN BULK statement was found in the input. Check input and add BEGIN BULK statement.

334   *** USER WARNING MESSAGE 334 (SEMTRN), THE ENDDATA STATE-MENT IS MISSING. AN ENDDATA STATEMENT WILL BE INSERTED BY THE PROGRAM No ENDDATA statement was found in the input. Check input and add an ENDDATA statement.

335   *** USER FATAL MESSAGE 335 (CNDRV2), THE EXPRESSION IN A CONVERT CLAUSE EQUATION HAS INVALID SYNTAX USER ACTION: 1. REWRITE THE CONVERT CLAUSE EQUATION USING CORRECT SYN-TAX   2. RESUBMIT RUN.

USER INFORMATION: 1.   THE EQUAL SIGN IS MISSING NO VARIABLE APPEARS ON THE LEFT-SIDE OF THE EQUATION   2. THE INCORRECT CONVERT CLAUSE EQUATION IS: **** 336   *** USER FATAL MESSAGE 336 (CNDRV2), THE VARIABLE ON THE LEFT-SIDE OF A CONVERT CLAUSE EQUATION WAS NOT FOUND IN THE PRIMARY DATABASE QUALI-FIER TABLE USER INFORMATION: THE INCORRECT CONVERT CLAUSE EQUATION IS: **** 337   *** USER FATAL MESSAGE 337 (IFS6P), MORE THAN ONE **** ENTRY EXISTS. ONLY ONE IS ALLOWED.

Make sure only one such entry exists.

338   *** USER WARNING MESSAGE 338 (IFS2P), THE LAST X-VALUE ON TABLED1 ENTRY ID = *** IS MISSING A CORRESPONDING Y-VALUE. THE LAST X-VALUE WILL BE IGNORED.

There has to be an even number of entries. If there is an odd number, then this message is issued and the last value ignored.

400   *** SYSTEM FATAL MESSAGE 400 (******), THE COMPILER HAS BECOME LOST, DURING PROCESSING OF THE ABOVE (***) CARD.

USER ACTION: 1. NOTIFY UGS AS SOON AS POSSIBLE.

2. CHANGE ******** STATEMENT TO ******** STATEMENTS.

401   *** SYSTEM FATAL MESSAGE 401 (CGVPST) NUMBER OF PARAME-TER ARGUMENTS EXCEEDS THE MAXIMUM ALLOWED OF ***** NDDL PARAMETERS.

402   *** USER FATAL MESSAGE 402 (******), ********** WAS DETECTED WHEN THE (***) NAME WAS EXPECTED.

USER ACTION: ADD (***) NAME AND RECOMPILE **********.

403   *** USER FATAL MESSAGE 403 (CSUBDM), A NUMERIC VALUE WAS DETECTED WHEN A DELIMITER, DATA BLOCK NAME, PARAMETER NAME, OR END-OF-CARD WAS EXPECTED.

USER ACTION: REMOVE NUMERIC VALUE FROM SUBDMAP STATEMENT AND RECOM-
PILE.

404 *** USER FATAL MESSAGE 404 (******), A NON (***) DELIMITER WAS DETECTED WHERE A (***) DELIMITER IS REQUIRED.

USER ACTION: REPLACE NONSLASH DELIMITER WITH A SLASH, AND RECOMPILE.

This message can result when the default value of a real or complex parameter is specified to be a letter instead of a number. A common occurrence of this is using the letter "O" in place of the number "0". See Error Report 3782.

405 *** SYSTEM FATAL MESSAGE 405 (CSUBDM), THE NUMBER OF WORDS ALLOCATED FOR PROCESSING THIS SUBDMAP'S ********** HAS BEEN EXCEEDED. THE MAXIMUM IS ***** WORDS USER ACTION: EACH NAME USES 2 WORDS. REDUCE THE NUMBER OF ********** AND RESUB-MIT PROGRAMMER ACTION: ENLARGE COUNTER ********** AND ARRAY DIMENSION FOR ********

406 *** USER FATAL MESSAGE 406 (CTYPE)(NDDL), INVALID (***) ****, VALID (***) ARE

407 *** USER FATAL MESSAGE 407 (CTYPE), USER AUTHORIZATION FIELD IS MISSING ON ABOVE TYPE STATEMENT.

408 *** USER WARNING MESSAGE 408 (CTYPE), PARAMETER ******** HAS BEEN PREVIOUSLY DEFINED TO THE VPS (PARAMETER) TABLE. THIS DEFINITION IS IGNORED.

USER INFORMATION: THIS PARAMETER MAY BE EITHER A PERMANENT VPS TABLE ENTRY, OR DEFINED BY A PREVIOUS TYPE STATEMENT.

409 *** USER WARNING MESSAGE 409 (CTYPE), THE PARAMETER ******** IS IGNORED BECAUSE IT HAS BEEN PREVIOUSLY DEFINED IN A TYPE DMAP STATEMENT.

410 *** USER WARNING MESSAGE 410 (CTYPE), DEFAULT VALUE IGNORED FOR NDDL TYPED PARAMETER -- DEFAULTS MUST BE SET IN NDDL DECK.

411 *** USER FATAL MESSAGE 411 (CTYPE), THE VALUE ASSIGNED TO ONE OF THE PARAMETERS ON THIS TYPE STATEMENT IS INCONSISTENT WITH REQUESTED **** TYPE CODE.

412 *** SYSTEM FATAL MESSAGE 412 (CTYPE), THE NUMBER OF WORDS ALLOCATED FOR PROCESSING TYPED PARAMETERS HAS BEEN EXCEEDED. THE MAXIMUM IS ***** WORDS.

USER ACTION: EACH PARAMETER USES 2 WORDS. REDUCE THE NUMBER OF PARAM-ETERS AND RESUBMIT.

PROGRAMMER ACTION: ENLARGE COUNTER MAXPRM AND ARRAY DIMENSION FOR PARAMS.

413 *** USER FATAL MESSAGE 413 (******), FOUND (***) WHEN EXPECTING (***) DURING PROCESSING OF ******** CARD.

414 *** SYSTEM FATAL MESSAGE 414 (*****), DMAP INSTRUCTION ******** NOT FOUND IN DMAP LIBRARY.

USER ACTION: NOTIFY UGS IMMEDIATELY

415 *** USER FATAL MESSAGE 415 (CEQUIV), ******** DMAP INSTRUCTION

REQUIRES AT LEAST TWO DATA BLOCKS.

416   * USER FATAL MESSAGE 416 (CEQPR1), NO DATA BLOCK NAME(S) SPECIFIED ON THIS ******** CARD.**

417   * SYSTEM FATAL MESSAGE 417 (CEQPR1), THE NUMBER OF DATA BLOCKS ON THE ******** CARD EXCEEDS THE MAXIMUM (****) ALLOWED.**

418   * USER FATAL MESSAGE 418 (CEQPR2), DATA BLOCK NAME(S) AND PARAMETER NAME NOT DELIMITED BY '/' ON ******** CARD.**

419   * USER FATAL MESSAGE 419 (CEQPR2), NO PARAMETER NAME SPECIFIED ON THIS ******** CARD.**

420   * USER FATAL MESSAGE 420 (CEQPR2), EXTRANEOUS DATA FOUND AFTER PARAMETER NAME, BUT BEFORE DELIMITER OR END-OF-CARD. DATA IS IGNORED FOR THIS ******** STATEMENT.**

421   * USER FATAL MESSAGE 421 (CEQPR2), USE OF (***) IS INVALID FOR PARAMETERS USED ON ******** STATEMENTS.**

  USER ACTION: REMOVE INVALID SYNTAX AND RERUN.

422   * SYSTEM INFORMATION MESSAGE 422 (CEQPR2), FOR COMPILA-TION PURPOSES ******** WILL BE USED AS THE PARAMETER NAME FOR THIS ******** STATEMENT.**

423   * USER FATAL MESSAGE 423 (ATTDBS), THE FOLLOWING PHYSI-CAL FILE DOES NOT EXIST. THIS FILE IS A PART OF THE   M A S T E R DBSET OF THE DELIVERY DATABASE BEING ATTACHED TO THIS RUN.**

  The MASTER dbset is required for all runs which use an existing database. If the MASTER has been allocated to several physical files, then all of these files must be available for all runs using the database set. Also, see Error Reports 3652, 3653.

424   * USER FATAL MESSAGE 424 (CEXPRS), THE EXPRESSION FOUND IN AN IF, DO WHILE, OR WHERE STATEMENT IS NOT ENCLOSED IN PARENTHESES.**

  First check that the expression is enclosed in parentheses. If it is, then check the offending state-ment for syntax. It is possible that the expression has been improperly entered.

425   * USER FATAL MESSAGE 425 (******), TOO MANY CONTINUATION CARDS DETECTED ON AN IF OR A DO WHILE STATEMENT, OR ON A DBVIEW WHERE CLAUSE.**

  INVALID CONTINUATION CARD IMAGE IS: ***** USER ACTION: SIMPLIFY EXPRESSION.

  USER INFORMATION: MAXIMUM ALLOWABLE NUMBER OF CONTINUATIONS IS 6 CARD IMAGES, OR 432 CHARACTERS.

426   * USER FATAL MESSAGE 426 (******), THE FOLLOWING KEY-WORD(S) ARE ILLEGAL FOR THE ********** COMMAND.**

427   * SYSTEM FATAL MESSAGE 427 (CLOPBK), THE LOPBLK TABLE HAS EXCEEDED ITS MAXIMUM ***** NUMBER OF ENTRIES.**

  USER INFORMATION: THIS TABLE CONTAINS THE SCRATCH DATABLOCKS TO BE DELETED AT THE TOP OF EACH LOOP)
  USER ACTION: USE FILE=SAVE OPTION TO SAVE THE SCRATCH DATABLOCK OUTPUT INSIDE LOOPS. NOTIFY UGS OF THIS ERROR.

  PROGRAMMER ACTION: INCREASE TABLE SIZE OF LOPBLK AND LOPMAX.

428   * USER FATAL MESSAGE 428 (COSGEN), ALTER ******** IS OUT OF**

RANGE. LAST DMAP NUMBER IS ********.

When modifying a DMAP using Alter statements, the line numbers on the Alter statement must be within the range of the line numbers of the DMAP being modified.

429   *** USER WARNING MESSAGE 429 (CPARAM), THE CHARACTER CON-STANT USED AS PARAMETER NUMBER **** HAS BEEN TRUNCATED TO '********'.

USER INFORMATION: TRUNCATION MAY RESULT IN AMBIGUOUS OR INCORRECT PRO-CESSING.

This means that a character constant has been defined using more characters than are allowed based on either the "TYPE PARM" statement or in the NDDL. Any characters beyond the defined length will be truncated.

430   *** USER FATAL MESSAGE 430 (CPARAM), C,N AND C,Y CONSTANT FORMATS ARE NO LONGER SUPPORTED. A CONSTANT FORMAT FOUND IN PARAMETER NUMBER *****
USER ACTION: 1. CHANGE BCD CONSTANTS TO QUOTED CHARACTER STRINGS.

2. CHANGE NUMERIC CONSTANTS TO NUMERIC VALUES ONLY.

3. CHANGE PARAMETER NAMES TO V,N OR V,Y FORMAT.

USER INFORMATION: DIAG 64 MAY BE SET IN THIS VERSION TO ATTEMPT THE CHANGE FROM THE CONSTANT FORMAT TO ONE OF THE REPLACEMENT FORMS ABOVE.

431   *** USER WARNING MESSAGE 431 (CPARAM), THE DEFAULT VALUE FOR AN NDDL TYPED PARAMETER IS IGNORED FOR PARAMETER NUM-BER ******
USER INFORMATION: NDDL DEFAULTS MUST BE SET IN NDDL DECK They may not be assigned on the TYPE PARM,NDDL statement.

432   *** SYSTEM (FATAL/WARNING) MESSAGE 432 (******), INSUFFICIENT OPEN CORE AVAILABLE (***)
USER INFORMATION: THE REMAINING RECORDS HAVE BEEN TRUNCATED.

433   *** SYSTEM FATAL MESSAGE 433 (PRCMPL), THE NUMBER OF SUBD-MAPS HAS EXCEEDED THE EXECUTIVE FIST TABLE LIMITS.

USER ACTION: RESUBMIT WITH A MAXIMUM OF ******** SUBDMAP COMPILE STATE-MENTS.

PROGRAMMER INFORMATION: LAST XFIST NUMBER = ********.

There is a limit to the number of SUBDMAPs that may be combined to create a solution. If you have used more than this limit, this error will occur. The easiest "fix" is to combine several SUB-DMAPs together into one. Also, it would be good to call UGS. In this way, we know that there is a need to increase the limits.

434   *** SYSTEM WARNING MESSAGE 434 (CSCDMP), UNABLE TO LOCATE PARAMETER NUMBER *** IN VPS FOR INSTRUCTION *****.

435   *** SYSTEM WARNING MESSAGE 435 (******), UNEXPECTED END-OF-FILE (***) DURING PROCESSING OF CROSS REFERENCE.

436   *** SYSTEM WARNING MESSAGE 436 (CSCDMP), OPEN CORE OVER-FLOW IN CROSS REFERENCE. CROSS REFERENCE TERMINATED.

437   * SYSTEM FATAL MESSAGE 437 (CSTORE), LOGIC ERROR. TYPE VARIABLE ******** IS NOT VALID.**

438   * USER WARNING MESSAGE 438 (CSTRNG), THE CHARACTER STRING ABOVE HAS BEEN TRUNCATED FROM ******** CHARACTERS TO THE CURRENT LIMIT OF 80 CHARACTERS.**

There is a limit of 80 characters for any single character string. It would be best to use two or more character parameters, rather than one.

439   * SYSTEM INFORMATION MESSAGE 439 (******), UPWARDS COMPAT-IBILITY CHANGE (DIAG 64) MADE FOR PARAMETER NUMBER ***. / ********** / CHANGED TO / ********** /.**

This message occurs when DIAG 64 has been turned on in the Executive Control section. It means that the referenced DMAP statement has been changed by DIAG 64 to be compatible with the current format.

440   * USER FATAL MESSAGE 440 (CVIEW), ERROR IN PARSING DBVIEW DMAP STATEMENT.**

441   * SYSTEM FATAL MESSAGE 441 (CVIEW), ERROR IN PROCESSING DBVIEW DMAP STATEMENT. OVERFLOW IN DBVIEW OSCAR TRAILER RECORD.**

USER ACTION: PLEASE NOTIFY UGS.

442   * USER FATAL MESSAGE 442 (CVIEW), PARAMETER ******** HAS NOT BEEN SPECIFIED IN A TYPE STATEMENT PRIOR TO THIS STATEMENT.**

When using DMAP, there is a requirement that all parameters must be defined (for example RS, I, etc.) to NX Nastran before being used. This either requires a TYPE statement or the first use of the parameter in a DMAP statement which has a default for the position where the parameter occurs. See the User's Manual, Section 5 for further explanation.

443   * USER FATAL MESSAGE 443 (DBALOC), THE ******** DBSET DOES NOT CONTAIN ******** SUBDMAP.**

The subDMAP requested by a SOL, LINK, or COMPILE statement cannot be found in the deliv-ery database. The name of the attached delivery database is printed near the top of the Execu-tion Summary Table.

See also Error Report 2992.

444   * USER FATAL MESSAGE 444 (DBALOC), THE SUBDMAP ******** WAS NOT FOUND ON THE ******** DBSET.**

USER ACTION: CHECK THE SPELLING OF THE REQUESTED DBSET 445   *** USER FATAL MESSAGE 445 (DBALOC), THE OSCAR FOR THE SUBDMAP ******** WAS NOT FOUND ON THE ******** DBSET.

USER INFORMATION: THE OSCAR FOR THIS SUBDMAP HAS NEVER BEEN CREATED.

USER ACTION: SUBMIT RUN TO COMPILE AND LINK THIS SUBDMAP.

446   * SYSTEM FATAL MESSAGE 446 (******), ERROR ATTEMPTING TO OPEN A FILE (LOGICAL= ********) FOR DBSET ******** WITH READ AND WRITE PRIVILEGES.**

USER ACTION: CHECK THE (***) AND THE PRIVILEGES GRANTED THIS (***)

This may occur if BUFFSIZE is too large. See Section 7.6 of the Application Manual for maximum allowable value.

This error may occur if the corresponding ASSIGN statement references an incorrect physical file specification.

Another possible cause is to restart jobs trying to access (read/write) the same database simultaneously. DBLOCATing (read only) the same database by two jobs is acceptable.

This error may also occur if there is an extra "=" sign within the parentheses of the LOGICAL statement (as incorrectly shown on page 2.2-14 of the Version 67 User's Manual). See Error Report 3668.

Another cause is if a restart is attempted from a database in which the MASTER is split into multiple physical files. An avoidance is to explicitly point to the physical name associated with the MASTER DBsets on ASSIGN statements.   See Error Report 2953.

447   *** SYSTEM FATAL MESSAGE 447 (DBCRT), ERROR ATTEMPTING TO CREATE A PHYSICAL FILE WITH READ_ONLY OPTION.

USER INFORMATION: LOGICAL FILE = ******** OF DBSET ********.

448   *** SYSTEM FATAL MESSAGE 448 (DBCRT), OPEN ACCESS OPTION ** IS NOT SUPPORTED.

449   *** SYSTEM FATAL MESSAGE 449 (DBDEF2), THE FILE ASSIGNMENT TABLE (DBSPACE) CONTAINS NO INFORMATION FOR THE ******** DBSET.

PROGRAMMER INFORMATION: THE XFIST1 ARRAY HAS INFORMATION ABOUT THIS DBSET
EITHER BY DEFAULT OR AS STORED BY THE RDINIT SUBROUTINE AFTER PROCESSING INIT CARDS. THIS INFORMATION DOES NOT MATCH THE DBSPACE TABLE CONTENTS.

451   *** SYSTEM FATAL MESSAGE 451, (DBDEF2), THE NUMBER OF RECORDS IN THIS CLUSTER EXCEEDS THE CURRENT LIMIT.   USER ACTION: DECREASE EITHER THE CLUSTER SIZE OR BUFFSIZE FOR THE **** DBSET. PROGRAMMER INFORMATION: REQUESTED = **** LIMIT = 2000.

In initializing the DBDIR records for this DBSET, a maximum of 2000 records is allowed. The initialization routine allocates these records for at least one cluster. If the number of records needed to fill one cluster is greater than 2000, this message is produced.

452 *** SYSTEM FATAL MESSAGE 452 (******), THE DATABASE DIRECTORY FILE (DBNAME) IS FULL. NO ADDITIONAL SUBMAPS CAN BE ADDED TO THE DBSET ********
USER ACTION: MODIFY COMPILE CARD TO STORE SUBDMAP ON A PREVIOUSLY USED DBSET.

PROGRAMMER INFORMATION: VARIABLES OF INTEREST ARE: DBNBOT = *********
DBNTOP = *********   LSTDBN = ********* DBSET = ********.

453   *** USER FATAL MESSAGE 453 (DBOLD), THE CURRENT DATABASE BEING USED FOR THIS RUN DOES NOT HAVE ENOUGH INFORMATION TO RESTART FROM.

USER INFORMATION: THIS IS A ******** DATABASE.

USER ACTION: DELETE THE CORRESPONDING DBSETS AND RESUBMIT THE DATA-BASE INITIALIZATION RUN.

454 *** SYSTEM FATAL MESSAGE 454 (DBOLD), DBSETS CANNOT BE ATTACHED WITH RWOPT = ****. THIS RWOPT IS NOT SUPPORTED.

455 *** USER WARNING MESSAGE 455 (DBOLD), THE PHYSICAL FILE CORRESPONDING TO THE LOGICAL NAME ******** DOES NOT EXIST. THIS FILE IS A PART OF THE DBSET ******** OF THE ********** DATABASE.

USER INFORMATION: NO REFERENCES TO THIS DBSET SHOULD BE MADE BY THIS RUN.

456 *** SYSTEM FATAL MESSAGE 456 (DBOLD), ERROR ATTEMPTING TO DO BIOOPN ON LOGICAL FILE NAME ******** ON DBSET = ********.

457 *** SYSTEM FATAL MESSAGE 457 (DBOLD), INSUFFICIENT CORE TO READ ONE RECORD FROM THE FILE ASSIGNMENT (DBSPACE) TABLE.

USER ACTION: INCREASE OPEN CORE SIZE PROGRAMMER INFORMATION: NWDS = **********

THE AMOUNT OF OPEN CORE REQUIRED IN DBOLD IS: ********** * (MAXIMUM NUMBER OF PHYSICAL FILES OF THE ********** DATABASE.

458 *** SYSTEM FATAL MESSAGE 458 (DBOLD), A DBSET ON THE ********** DATABASE HAS A BUFFSIZE REQUIREMENT EXCEEDING THE BUFFSIZE USED FOR THIS RUN.

USER INFORMATION: A SYSTEM BUFFER OF ********** HAS BEEN DEFINED FOR THIS RUN.

USER ACTION: ADD THE FOLLOWING KEYWORD TO THE NASTRAN CARD: BUFFSIZE = **********.

This can also occur if you attempt to DBLOCATE DBALL in addition to DBLOCATing the MAS-TER. Only MASTER needs to be DBLOCATEd.

459 *** USER FATAL MESSAGE 459 (DBPREQ), SHORT RECORD ENCOUN-TERED IN TRANSACTION FILE (****).

USER INFORMATION: THIS INDICATES THAT THE DATABASE HAS BEEN DESTROYED AND IS IRRECOVERABLE.

USER ACTION: DELETE AND REGENERATE THE DATABASE.

460 *** USER FATAL MESSAGE 460 (DBPREQ), THE TRANSACTION TABLE HAS EXCEEDED AVAILABLE OPEN CORE.

USER ACTION: RE-SUBMIT THIS JOB WITH A LARGER HICORE AND WITH ALL DBSETS ATTACHED TO CLEAN UP THE TRANSACTION FILE.

USER INFORMATION: SEE THE EXECUTION SUMMARY FILE FOR THE LIST OF UNAT-TACHED DBSETS.

461 *** USER FATAL MESSAGE 461 (DBSCIN), THE PHYSICAL FILE ASSIGNED TO THE ******** DBSET ALREADY EXISTS.

USER ACTIONS: DELETE THE FOLLOWING FILE AND RESUBMIT THE JOB.

462 *** USER FATAL MESSAGE 462 (*****), THE FOLLOWING PHYSICAL FILE NAME EXCEEDS THE MAXIMUM NUMBER OF CHARACTERS

ALLOWED.

USER INFORMATION: THE CURRENT LIMIT IS ***** CHARACTERS.

463   * USER FATAL MESSAGE 463 (******), THE NUMBER OF ASSIGNED PHYSICAL FILE NAMES FOR THE ******** DBSET EXCEEDS ****.**

There is a limit on the number of physical files which may exist in one DBSET. Check the User's Manual section on the FMS for the limits. If you need more files than are allowed, there are several options: 1) Create a new DBSET 2) Use DBUNLOAD and DBLOAD to unload the DBSET and then to load it back using larger files.

464   * USER FATAL MESSAGE 464 (DBSPC), THE NUMBER OF ASSIGNED PHYSICAL FILES FOR THE DBSET SCRATCH(MEM) EXCEEDS 1.**

USER INFORMATION: ONLY ONE FILE IS ALLOWED WHEN "MEM" IS PRESENT.

465   * USER FATAL MESSAGE 465 (******), THE LIST FILE FOR SUBDMAP ******** IS EMPTY, OR IT WAS NEVER CREATED.**

USER ACTION: 1. ENSURE THAT THE SUBDMAP WAS CREATED AS A MAIN SUBDMAP.

2. ENSURE THAT THE SUBDMAP WAS LINKED PROPERLY. USER INFORMATION: THE LIST FILE IS AN INTERNAL FILE USED TO EXTRACT SUBDMAP NAMES WHEN THE DIAG14 OPTION IS USED.

466   * SYSTEM FATAL MESSAGE 466 (DBUPDT), ATTEMPT TO WRITE FILE ASSIGNMENT (DBSPACE) TABLE TO MASTER DBSET FAILED. THE CORE-RESIDENT FILE ASSIGNMENT (DBSPACE) TABLE IS EMPTY.**

USER ACTION: SEND RUN TO UGS.

PROGRAMMER INFORMATION: VALUES OF INTEREST, DBSBGN = ********** DBSTOP = ********** DBSBOT = ********** LSTDBS = ********** IF THE ABOVE VALUES SEEM UNREASONABLE, THEN /XSPACE/ COMMON BLOCK HAS BEEN OVERWRITTEN.

467   * USER FATAL MESSAGE 467 (******), THE MAXIMUM NUMBER OF CALLS WITHIN ******** MAIN SUBDMAP HAS BEEN EXCEEDED.**

USER INFORMATION: THE MAXIMUM NUMBER OF CALLS IN THIS VERSION IS **** Combine SUBDMAPs in order to alleviate this problem.

468   * USER FATAL MESSAGE 468 (******), THE DBSET ******** IS NOT PART OF ANY DATABASE ATTACHED TO THIS RUN, INDICATING IT WAS NOT ALLOCATED FOR THIS RUN.**

469   * SYSTEM FATAL MESSAGE 469 (DGETTS), THE WRONG TIME STAMP BLOCK WAS READ FOR THE FOLLOWING PHYSICAL FILE NAME:**

Each database file created by NX Nastran contains a "time stamp" indicating the time the file was initially created. The MASTER dbset contains a record of these time stamps and NX Nastran compares these values. This message indicates that a file attached has a different time stamp than expected. Check the files to verify they are correct. If you are sure they are, there is a System Cell (135 or TSTAMP) that turns off this checking.

470   * (SYSTEM/USER) MESSAGE 470 (******), THE LOGICAL NAME ******** WAS ASSIGNED TO THE FOLLOWING PHYSICAL FILE, WHICH DOES NOT EXIST.**

USER ACTION: CHECK ASSIGNMENTS IN THE FILE MANAGEMENT SECTION.

471   * SYSTEM FATAL MESSAGE 471 (DGETTS), ERROR ATTEMPTING TO**

OPEN THE FOLLOWING PHYSICAL FILE NAME(PFILEX=***).

USER ACTION: 1. CHECK THE READ PRIVILEGE GRANTED THIS FILE.

2. CHECK MAXIMUM NUMBER OF FILES THAT THE OPERATING SYSTEM ALLOW TO OPEN.

NX Nastran is attempting to read information from a file for which the system is not allowing access.

472   *** USER FATAL MESSAGE 472 (EXPDBS), THE PHYSICAL FILE FOLLOWING AND REFERENCED BY THE EXPAND COMMAND WITH THE LOGICAL NAME OF ******** ALREADY EXISTS.

USER INFORMATION: FILES BEING ASSIGNED BY EXPAND COMMANDS CANNOT EXIST PRIOR TO THEIR ASSIGNMENTS.

473   *** USER FATAL MESSAGE 473 (EXPDBS), THE LOGICAL NAME ******** SPECIFIED ON THE EXPAND COMMAND HAS NOT BEEN ASSIGNED TO A PHYSICAL FILE.

USER INFORMATION: LOGICAL FILES SPECIFIED ON EXPAND COMMANDS MUST BE ASSIGNED PRIOR TO JOB SUBMITTAL.

474   *** USER INFORMATION MESSAGE 474 (GNADD), THE ********** FOR SUBDMAP ******** HAS BEEN REPLACED BY THE CURRENT ONE ON ******** DBSET

475   *** SYSTEM FATAL MESSAGE 475 (GNADD), LOGIC ERROR - THE ********** FOR SUBDMAP ******** HAS BEEN EQUIVALENCED TO ANOTHER FILE (SUBDMAP) IN DBSET ********

USER ACTION: SET THE OBJOUT OR OSCAROUT OF THIS SUBDMAP TO SCRATCH DBSET.

476   *** USER FATAL MESSAGE 476 (GPFILX), THE FOLLOWING LOGICAL NAME, ASSIGNED TO A PHYSICAL FILE NAME OF THE ********** DATABASE, DOES NOT EXIST.

USER INFORMATION: LOGICAL NAME = ********

PHYSICAL FILE NAME =

477   *** USER FATAL MESSAGE 477 (GPFILX), THE LOGICAL NAME ******** OF THE ********** DATABASE IS AUTO-ASSIGNED TO THE FOLLOWING ASSOCIATED PHYSICAL FILE NAME: THE TIME STAMP OF THIS PHYSICAL FILE DOES NOT MATCH THE ONE IN THE FILE ASSIGNMENT (DBSPACE) TABLE.

USER ACTION: CHECK OR RE-CREATE THE ********** DATABASE TO RESOLVE THIS ERROR

478   *** SYSTEM FATAL MESSAGE 478 (GPFILX), THE FOLLOWING LOGICAL NAME, PART OF THE ********** DATABASE, HAS A NULL TIME STAMP.

USER INFORMATION: LOGICAL NAME = ********.

479   *** USER FATAL MESSAGE 479 (LCADBS), THE REQUESTED LOGICAL NAME ******** WAS NOT ASSIGNED.

USER ACTION: CHECK FILE ASSIGNMENTS.

This error may be issued if the LOGICAL keyword on DBLOCATE references a reserved logical-name such as DBC, PUNCH, etc.

480 * SYSTEM INFORMATION MESSAGE 480 (*****), JOB TERMINATED DUE TO (***) IN EXECUTIVE CONTROL SECTION.**

481 * USER WARNING MESSAGE 481 (LCAENT), THE DATABLOCK/ PARAMETER NAME = ******** CANNOT BE LOCATED IN THE ******** DATA- BASE.**

USER ACTION: MAKE SURE ABOVE DATABLOCK/PARAMETER NAME EXISTS IN THE LOCATED DATABASE.

PROGRAMMER INFORMATION: PATH POINTER = **********, DBENTRY POINTER = **********.

482 * SYSTEM INFORMATION MESSAGE 482 (LCAENT), (LCAENT), ****** (***) HAVE BEEN LOCATED ON THE ******** DATABASE.**

483 * USER FATAL MESSAGE 483 (LCAENT), THE DATABLOCK/PARAME- TER NAME = ******** CANNOT BE LOCATED IN THE ******** DATABASE.**

USER ACTION: MAKE SURE ABOVE DATABLOCK/PARAMETER NAME EXISTS IN THE LOCATED DATABASE.

484 * USER FATAL MESSAGE 484 (LCAENT), NO DATABLOCK/PARAME- TER NAMES REQUESTED IN THE DBLOCATE CARD CAN BE ADDED FROM THE ******** DATABASE.**

USER ACTION: MAKE SURE ABOVE DATABLOCK/PARAMETER NAMES EXIST IN THE LOCATED DATABASE.

485 * SYSTEM FATAL MESSAGE 485 (******), THE QUALIFIER NAME ******** CANNOT BE FOUND IN THE PATH TABLE.**

486 * USER FATAL MESSAGE 486 (LCAPAR), THE (OLD/NEW) QUALIFIER VALUE CONTAINS THE INVALID DATA BELOW 487 *** SYSTEM WARNING MESSAGE 487 (******), THE (***) USED IN (***) DATA BLOCK(S) WAS NOT FOUND.**

USER ACTION: SEND RUN TO UGS.

488 * USER FATAL MESSAGE 488 (LCAVAL), INCORRECT KEYWORD DETECTED FOR THE LOGICAL NAME = ********.**

489 * USER FATAL MESSAGE 489 (LCAVAL), EXPECTING DATA TYPE ***, BUT DETECTED DATA TYPE *** DURING NUMERIC CONVERSION.**

USER INFORMATION: VALID DATA TYPES ARE: 1-INTEGER, 2-REAL SINGLE, 3-BCD, 4- REAL DOUBLE, 5-COMPLEX SINGLE, 6-COMPLEX DOUBLE, 7-LOGICAL.

490 * USER FATAL MESSAGE 490 (LCAVAL), SYNTAX ERROR DETECTED DURING CONVERSION OF A STRING ********** TO ********** NUMBER.**

491 * USER FATAL MESSAGE 491 (LCAVAL), EXPECTING A ********** NUMBER INSTEAD OF A ********** NUMBER.**

USER INFORMATION: THE PARSED STRING IS: ******

492 * USER FATAL MESSAGE 492 (LCAWHR), ERROR CODE = **** DETECTED WHEN PARSING THE WHERE CLAUSE:**

Error Code   Description 1 INCOMPLETE WHERE CLAUSE SYNTAX 2 MORE THAN ONE QUALIFIER WILDCARD FOUND IN THE WHERE CLAUSE 3   UNEXPECTED SYNTAX FOUND IN QUALIFIER NAME : ********** 4   THE EQUAL SIGN IS MISSING AFTER QUALIFIER NAME 5   UNEXPECTED CHARACTER FOUND IN OLD/NEW VALUE : ********** 6   UNEXPECTED SYNTAX FOUND AFTER NEW-VALUE : ********** 7   A WILDCARD QUAL- NAM CANNOT BE FOLLOWED WITH NON-WILDCARD VALUE(S) 8   A WILDCARD QUAL-

NAM CANNOT BE FOLLOWED BY ANOTHER LOGICAL OPERATION 9   A WILDCARD OLD VALUE MUST BE FOLLOWED BY A WILDCARD NEW VALUE 10 UNEXPECTED DIFFER- ENCE IN TYPE BETWEEN OLD- AND NEW-VALUE

493   *** USER FATAL MESSAGE 493 (LCAVAL), THE LENGTH OF THE STRING TO BE CONVERTED TO BCD FORMAT EXCEEDS THE LIMIT OF *****.

USER INFORMATION: STRING LENGTH = *****, STRING =.

494   *** SYSTEM FATAL MESSAGE 494 (LTMVPS), THE TEMPORARY VPS TABLE USED IN PROCESSING USER-SUPPLIED EQUATIONS HAS OVER- FLOWED.

USER ACTION: SIMPLY EQUATION AND NOTIFY UGS.

495   *** USER WARNING MESSAGE 495 (DBSPC), THE BUFFSIZE OF DBSET ********, ON DATABASE NUMBER *** IS UNABLE TO BE PRO- CESSED. A SYSTEM DEFAULT BUFFSIZE = ******** HAS BEEN SELECTED FOR THIS DBSET.

496   *** USER FATAL MESSAGE 496 (******), THE DBSET NAME ******** IS NOT IN THE DBSPACE TABLE.

USER INFORMATION: THE DBSET WAS NOT ASSIGNED TO THIS RUN.

USER ACTION: CHECK SPELLING OF DBSET NAME AND ASSIGNMENT OF CORRECT MASTER DBSET TO THIS RUN

497   *** USER FATAL MESSAGE 497 (OSCRIN), THE DBSET ******** CON- TAINING THE EXECUTIBLES (OSCARS) HAS BEEN ATTACHED TO THIS RUN.

USER ACTION: REMOVE SOLIN KEYWORD FROM THE SOL CARD TO LINK THIS SOLU- TION SEQUENCE.

498   *** USER WARNING MESSAGE 498 (DBSPC), YOU HAVE SELECTED A BUFFER SIZE OF ********** FOR THE SCRATCH DBSET, WHICH IS DIFFER- ENT THAN MASTERS BUFFER SIZE. THIS IS NOT ALLOWED WITH SCRATCH(MEM) TURNED ON. THE MASTER BUFFER SIZE ********** HAS BEEN SELECTED.

499   *** USER INFORMATION MESSAGE 499 (PRLINK), SUBDMAP ******** WILL BE LINKED.

505   *** USER FATAL MESSAGE 505, CONTROL CARD **** IS ILLEGAL.

The statement preceding Message 505 cannot be processed correctly. This message may also be issued if an invalid character; such as a control character appears on the statement. See the table in Section 2.1 for valid characters.

506   *** USER FATAL MESSAGE 506, CONTROL CARD **** DUPLICATED.

The statement preceding Message 506 cannot be input more than once.

507   *** USER FATAL MESSAGE 507, ILLEGAL SPECIFICATION OR FORMAT ON PRECEDING CARD.

Executive control statements cannot have equal (=) signs.

511   *** SYSTEM FATAL MESSAGE 511, DMAP SEQUENCE EXCEEDS CORE SIZE - REMAINING DMAP INSTRUCTIONS IGNORED.

There is no more open core. Split the DMAP sequence somewhere prior to where Message 511 was printed out.

515 * USER FATAL MESSAGE 515, END INSTRUCTION MISSING IN DMAP SEQUENCE.**

DMAP sequence must end with END control card. (END must begin in column 1.)

519 * USER FATAL MESSAGE 519, ID CARD MUST PRECEDE ALL OTHER CONTROL CARDS.**

ID statement must come before all other statements except the NASTRAN and FMS statements. Although the ID statement is documented as being an optional comment statement, if it is used, it must be before all other Executive Control statements.

520 * USER FATAL MESSAGE 520, CONTROL CARD **** IS MISSING.**
601 * USER FATAL MESSAGE 601, THE KEYWORD ON THE ABOVE CARD IS ILLEGAL OR MISSPELLED.**

Case Control expects each command to begin with a keyword (usually 4 characters in length). To remove the error, consult the Case Control command descriptions, Section 2.3, and spell your request correctly.

This occurs for SURFACE and VOLUME commands that are not in the OUTPUT(POST) section.

602 * USER WARNING MESSAGE 602, TWO OR MORE OF THE ABOVE CARD TYPES DETECTED WHERE ONLY ONE IS LEGAL. THE LAST FOUND WILL BE USED.**

Remove the command with the duplicate meaning. Note that some commands have alternate forms.

603 * USER FATAL MESSAGE 603, THE ABOVE CARD DOES NOT END PROPERLY. COMMENTS SHOULD BE PRECEDED BY A DOLLAR SIGN.**

Case Control commands of the form, name - value, should not contain more than one value. Consult the Case Control command descriptions, Section 2.3, for a complete description of the command or precede the comments with a dollar sign.

604 * USER FATAL MESSAGE 604, THE ABOVE CARD HAS A NONINTEGER IN AN INTEGER FIELD.**

Consult the Case Control command descriptions, Section 2.3, for legal values.

605 * USER FATAL MESSAGE 605, A SYMSEQ OR SUBSEQ CARD APPEARS WITHOUT A SYMCOM OR SUBCOM CARD.**

SYMSEQ or SUBSEQ commands must appear in a subcase defined by a SYMCOM or SUBCOM command. Check the Case Control and relabel the combination subcase.

607 * USER FATAL MESSAGE 607, A REPCASE SUBCASE MUST BE PRECEDED BY A SUBCASE OR SYM SUBCASE.**

A REPCASE subcase is an attempt to reoutput the previously computed case, therefore, it cannot be the first subcase.

608 * USER FATAL MESSAGE 608, THE SET ID SPECIFIED ON THE ABOVE CASE MUST BE DEFINED PRIOR TO THIS CARD.**

Set identification numbers must be specified prior to their use. Also sets specified within a subcase are valid only within that subcase. Redefine the errant set (or define a required set) or move the set out of the subcase it is in.

609 * USER FATAL MESSAGE 609, SUBCASE DELIMITER CARDS MUST HAVE A UNIQUE IDENTIFYING INTEGER.**

SUBCASE commands must have an identifying integer. These numbers must be strictly increasing. The use of a nonblank delimiter (e.g., "="), or misuse of the MODES command will also cause this message to occur. The subcase ID plus the value on a MODES command which follows must be less than the value of the next subcase ID. An "=" sign after SUBCASE may be interpreted as a large integer.

610 *** USER FATAL MESSAGE 610, THE VALUE FOLLOWING THE EQUAL SIGN IS ILLEGAL.

Case control cannot identify the value after the equal sign. Consult the Case Control command descriptions, Section 2.3.

For example, only real data can follow SUBSEQ and SUBCOM commands--not integers.

611 *** USER FATAL MESSAGE 611, TEN CARDS HAVE ILLEGAL KEY-WORDS. NASTRAN ASSUMES BEGIN BULK CARD IS MISSING. IT WILL NOW PROCESS YOUR BULK DATA.

In Case Control, only ten key words may be misspelled. A common source of this error may be the omission of the OUTPUT(PLOT) or OUTPUT(XYOUT) delimiter commands.

613 *** USER FATAL MESSAGE 613, THE ABOVE SET CONTAINS 'EXCEPT' WHICH IS NOT PRECEDED BY 'THRU'.

Only identification numbers included by the THRU keyword may be expected. Simplify the SET request.

614 *** USER FATAL MESSAGE 614, THE ABOVE SET IS BADLY SPECIFIED.

Simplify the SET list.

615 *** USER FATAL MESSAGE 615, AN IMPROPER OR NO NAME GIVEN TO THE ABOVE SET.

SET lists must have integer names. This SET list does not have one. SET 10 = is an example of the correct format. Give the SET a correct integer name.

616 *** USER FATAL MESSAGE 616, 'EXCEPT' CANNOT BE FOLLOWED BY 'THRU'. LIST EXPLICITLY ALL EXCEPTIONS.

EXCEPT in SET list can only be followed by integers. An integer larger than the THRU pair terminates the THRU. Either list exceptions explicitly, use two THRUs or terminate the first THRU.

617 *** USER FATAL MESSAGE 617, A NONPOSITIVE INTEGER APPEARS IN A POSITIVE POSITION.

Most integer values in case control must be positive. The above command either has a negative integer or a character value in a positive position. See Section 2.3.

619 *** USER WARNING MESSAGE 619, SET MEMBER *** BELONGS TO *** THRU ***.

A set member is already included in a THRU. The individual member will be absorbed in the THRU.

620 *** USER WARNING MESSAGE 620, DUPLICATE *** IS IN SET LIST.

A set member is listed twice. The second reference will be deleted.

621 *** USER WARNING MESSAGE 621, INTERVAL *** THRU *** OVERLAPS INTERVAL *** THRU ***. THE MAXIMUM INTERVAL WILL BE USED.

Two THRUs overlap. The actual set will contain one large THRU.

622   *** USER FATAL MESSAGE 622, SET CONTAINING REAL NUMBERS MAY NOT USE THRU OR EXCEPT.

Replace the THRU or EXCEPT range with a list of explicit real numbers.

625   *** USER FATAL MESSAGE 625, SUBCASE IDs MUST BE LESS THAN 99,999,999.

Reduce the size of the subcase identification number. Note also that character string subcase identification numbers are not legal.

626   *** USER FATAL MESSAGE 626, SUBCOM SUBCASE DOES NOT HAVE A SUBSEQ CARD.

A SUBCOM SUBCASE must contain a SUBSEQ command to define the linear combination coefficients.

627   *** USER FATAL MESSAGE 627, THE ABOVE SUBCASE HAS BOTH A STATIC LOAD AND A REAL EIGENVALUE METHOD SELECTION -- REMOVE ONE.

The buckling solution requires two subcases: one for statics and one for buckling. Both a load and a method selection cannot appear in the same subcase.

628   *** USER FATAL MESSAGE 628, THERMAL, DEFORMATION, AND EXTERNAL LOADS CANNOT HAVE THE SAME SET IDENTIFICATION NUMBER.

Set IDs specified on the LOAD, TEMP(LOAD), and DEFRM Case Control commands must be unique.

629   *** USER FATAL MESSAGE 629, ECHO CARD HAS REPEATED OR UNRECOGNIZABLE SPECIFICATION DATA -- REPEATED SPECIFICATIONS WILL BE IGNORED, UNRECOGNIZABLE SPECIFICATIONS WILL BE TREATED AS "SORT".

See Section 2.3.

630   *** USER WARNING MESSAGE 630, ECHO CARD WITH -NONE- SPECIFICATION HAS ADDITIONAL SPECIFICATIONS WHICH WILL BE IGNORED.

See Section 2.3.

631   *** USER FATAL MESSAGE 631, TWO OR MORE TEMPERATURE(INIT) CARDS AND/OR TEMPERATURE(MATE) CARDS DETECTED, WHERE ONLY ONE IS ALLOWED.

Only one TEMPERATURE(INIT) or TEMPERATURE(MATE) command is required for temperature initialization. Remove the extra command(s).

632   *** USER WARNING MESSAGE 632 USING THE MATERIAL OPTION IN THE TEMPERATURE CASE CONTROL CARD WILL RESULT IN UPDATING OF MATERIAL PROPERTIES ONLY ONCE. USE THE INITIAL OPTION IN THE TEMPARATURE CASE CONTROL CARD FOR UPDATING OF MATERIAL PROPERTIES AT EVERY LOAD ITERATION IN MATERIAL NON-LINEAR ANALYSIS.

633   *** USER FATAL MESSAGE 633 INCONSISTENT USE OF TEMPERATURE CASE CONTROL CARD. EITHER A TEMPERATURE(INIT), TEMPERATURE(MATERIAL) OR A TEMPERATURE(BOTH) CASE CONTROL CARD IS ALLOWED PER RUN.

Use TEMP(LOAD) and TEMP(MATERIAL) together, or TEMP(BOTH) by itself.

635 * USER FATAL MESSAGE 635 WRONG FORMAT OF DATA FOR THE EVEN FIELD ON CONTOUR CARD 675 *** USER FATAL MESSAGE 675, ABOVE CARD DOES NOT BEGIN WITH A NONNUMERIC WORD.**

XYPLOT commands must begin with character data.

676 * USER FATAL MESSAGE 676, **** IS NOT RECOGNIZED ON ABOVE CARD.**

Unrecognized XYPLOT command.

677 * USER FATAL MESSAGE 677, ILLEGAL VALUE SPECIFIED.**

See Section 4.3.

678 * USER FATAL MESSAGE 678, CONTRADICTS PREVIOUS DEFINI-TION.**

Conflicting requests on an XYPLOT command.

679 * USER FATAL MESSAGE 679, *** DELIMITER ILLEGALLY USED.**

XYPLOT error; see Section 4.3.

680 * USER FATAL MESSAGE 680, **** ILLEGAL IN STATEMENT.**

XYPLOT error; see Section 4.3.

681 * USER FATAL MESSAGE 681, **** IS ILLEGAL IN STATEMENT.**

XYPLOT error; see Section 4.3.

682 * USER FATAL MESSAGE 682, **** IS ILLEGAL IN STATEMENT.**

XYPLOT error; see Section 4.3.

683 * USER FATAL MESSAGE 683, TOO MANY SUBCASES. MAXIMUM = 200 ON ANY ONE XY-OUTPUT COMMAND CARD.**

No more than 200 subcases are allowed on an XYPLOT request command.

684 * USER FATAL MESSAGE 684, SUBCASE-ID IS LESS THAN 1 OR IS NOT IN ASCENDING ORDER.**

Subcases must be positioned in ascending order.

685 * USER FATAL MESSAGE 685, **** = POINT OR ELEMENT ID IS ILLE-GAL (LESS THAN 1).**

XYPLOT error; see Section 4.3.

686 * USER FATAL MESSAGE 686, NEGATIVE OR ZERO COMPONENTS ARE ILLEGAL.**

XYPLOT error; see Section 4.3.

687 * USER FATAL MESSAGE 687, ALPHA-COMPONENTS ARE NOT PER-MITTED FOR STRESS OR FORCE XY-OUTPUT REQUESTS.**
688 * USER FATAL MESSAGE 688, **** COMPONENT NAME NOT RECOG-NIZED.**

XYPLOT error; see Section 4.3.

689 * USER FATAL MESSAGE 689, LAST CARD ENDED WITH A DELIM-ITER BUT NO CONTINUATION CARD WAS PRESENT.**

XYPLOT error; see Section 4.3.

If an XYPLOT command ends in a delimiter (i.e., comma or slash) then the next entry is assumed to be a continuation for that entry. This error often occurs when a command is longer than 72 characters. Any characters in columns 73 and on are ignored in the XYPLOT section.

690 *** USER FATAL MESSAGE 690, TYPE OF CURVE WAS NOT SPECI-FIED. (E.G., DISPLACEMENT, STRESS, ETC.)

XYPLOT error; see Section 4.3.

691 *** USER FATAL MESSAGE 691, MORE THAN 2 OR UNEQUAL NUM-BER OF COMPONENTS FOR IDENTIFICATION NUMBERS WITHIN A SINGLE FRAME.

XYPLOT error; see Section 4.3.

692 *** USER FATAL MESSAGE 692, XY-OUTPUT COMMAND IS INCOM-PLETE.

XYPLOT error; see Section 4.3.

This may simply be a command that is too long (that is, a command that extends into column 73 or beyond). Those columns are not used in the XYPLOT section.

693 *** USER FATAL MESSAGE 693, INSUFFICIENT CORE FOR SET TABLE.

Reduce the number of requests or increase memory. Six words are used for each frame.

694 *** USER FATAL MESSAGE 694, AUTO OR PSDF REQUESTS MAY NOT USE SPLIT FRAME, THUS ONLY ONE COMPONENT PER ID IS PERMITTED.

AUTO or PSDF requests may only be specified for full frames.

695 *** USER FATAL MESSAGE 695, COMPONENT VALUE = **** IS ILLE-GAL FOR AUTO OR PSDF VECTOR REQUESTS.

XYPLOT error; see Section 4.3.

696 *** USER FATAL MESSAGE 696, COMPONENT VALUE = ******** IS ILLE-GAL FOR VECTOR TYPE SPECIFIED.

XYPLOT error; see Section 4.3.

701 *** USER FATAL MESSAGE 701 (PRCMPL), THE NUMBER OF SUBD-MAPS BEING COMPILED EXCEEDS THE MAXIMUM ALLOWED NUMBER OF 50 FOR THIS VERSION.

User action: 1) notify UGS   2) attempt to combine SUBDMAPs together to reduce the total number.

702 *** USER INFORMATION MESSAGE 702 (PRCMPL), THE NDDL WILL NOT BE COMPILED BECAUSE THE DATABASE ALREADY EXISTS.

If a run is using an existing database, the valid NDDL for the database is stored in the MASTER. If a new version were to be created, the information on the database would no longer be considered valid, since it would not match the current NDDL.

703 *** USER FATAL MESSAGE 703 (******), DMAP COMPILATION IS NOT ALLOWED WHEN "SOL" STATEMENT REQUESTS "SOLIN=".

USER ACTION: REMOVE DMAP COMPILES FROM INPUT AND RESUBMIT.

You can also remove the SOLIN = from the SOL statement and provide the correct information

for compiling and linking the solution.

704   * USER FATAL MESSAGE 704 (PRCMPL), THE SUBDMAP CARD IS MISSING.**

  USER ACTION: INSERT "SUBDMAP ******" IMMEDIATELY AFTER THE COMPILE CARD.

705   * USER FATAL MESSAGE 705 (PRCMPL), THE "SOUIN=" OPTION ON THE COMPILE CARD MUST BE SPECIFIED TO APPLY ALTER(S).**

  When modifying existing SUBDMAPs, the user must specify the location of the source code to be modified. If the SOUIN is not specified, the program assumes that the entire SUBDMAP follows the COMPILE statement.

706   * USER FATAL MESSAGE 706 (PRCMPL), THE SUBDMAP CARD IS MISSING.**

  USER ACTION: SPECIFY SUBDMAP CARD WITH NAME FOUND FOUND ON COMPILE CARD.

  When compiling a user-supplied SUBDMAP, the SUBDMAP must always begin with a SUBDMAP statement.

707   * USER FATAL MESSAGE 707 (PRCMPL), THE "SOUIN=" COMPILE OPTION AND INLINE DMAP CANNOT BOTH BE SPECIFIED.**
708   * USER FATAL MESSAGE 708 (PRCMPL), THE "SOUIN=" DBSET CANNOT BE A "SCRATCH" DBSET.**
709   * USER FATAL MESSAGE 709 (PRCMPL), THE COMPILE COMMAND CANNOT RESTORE SOURCE FROM A DBSET, SINCE THIS IS A DATABASE INITIALIZATION RUN.**

  USER ACTION: CHECK SPELLING OF THE ABOVE SPECIFIED DBSET FOR THE "SOUIN" KEYWORD, OR SUPPLY THE DMAP FOR A SUBDMAP.

  When creating a database, use the ACQUIRE NDDL FMS statement or SOL xxx, NOEXE to attach the data paths.

710   * USER FATAL MESSAGE 710 (******), NO INFORMATION TO PROCESS ON THE ********** COMMAND.**
711   * USER FATAL MESSAGE 711 (PRINCL), INCLUDE OR RFALTER COMMANDS CANNOT BE NESTED.**

  USER ACTION: REMOVE ********** COMMANDS FROM FILE(S) OBTAINED WITH AN ********** COMMAND.

712   * SYSTEM FATAL MESSAGE 712 (PRLINK), THE LIMIT ON THE NUMBER OF SUBDMAPS REFERENCED PER SOLUTION SEQUENCE HAS BEEN EXCEEDED FOR: ************.**

  USER ACTION: REDUCE NUMBER OF SUBDMAPS REFERENCED.

  PROGRAMMER INFORMATION: FISTNM IS ********. NUMBER OF FIST ENTRIES IS LIMITED TO 99 (201 TO 299) SOME OF THE XFIST ENTRIES ARE USED FOR THE DATABASE DIRECTORY FILES.

713   * SYSTEM FATAL MESSAGE 713 (PRTNDL), END-OF-FILE ENCOUNTERED WHILE READING NDDL.**
714   * SYSTEM WARNING MESSAGE 714 (PVAPRT), A DATABASE PATH WITH KEY NUMBER ******** WAS NOT FOUND IN THE PVA (PATH VALUE TABLE) WHILE PROCESSING DIRECTORY PRINT. INFORMATION FOR THE DATA BLOCK ********.**

USER INFORMATION: THIS INDICATES A PROBLEM WITH THE POINTERS IN YOUR DATA-BASE'S MASTER DIRECTORIES.

USER ACTION: DELETE THE OFFENDING DATA BLOCK WITH THE FMS SECTION COMMAND --> DBFIX.

715   *** SYSTEM INFORMATION MESSAGE 715 (RCARD), THE ALTERNATE SECOND FIELD FORMAT FOR VPS TYPE ********** IS NOT CURRENTLY SUPPORTED.

USER INFORMATION: THIS FIELD WILL BE ASSUMED CHARACTER (VPS TYPE 3) DATA
USER ACTION: NOTIFY UGS.

716   *** USER FATAL MESSAGE 716 (RDACQU), AN UNRECOGNIZABLE NDDL NAME APPEARS ON THE ACQUIRE STATEMENT.

USER INFORMATION: THE VALID NAMES ARE NDDLOLD AND NDDL FOR THE OLD AND THE NEW SOLUTION SEQUENCES, RESPECTIVELY.

717   *** USER WARNING MESSAGE 717 (RDASGN), (***) SPECIFICATION IS NOT REQUIRED FOR (***)

USER INFORMATION: (***) IS IGNORED.

USER ACTION: USE AN INIT CARD TO SPECIFY THE SIZE.

718   *** USER FATAL MESSAGE 718 (RDASGN), ***** SPECIFICATION IS MISSING ON THIS ASSIGN CARD.

719   *** USER FATAL MESSAGE 719 (******), THE SECURITY KEYWORD IS MISSING ON THE ******* COMMAND.

USER ACTION: REMOVE THE PARENTHESES, IF NO SECURITY CODE DEFINED IN THIS DATABASE.

720   *** USER FATAL MESSAGE 720 (******), THE ******* COMMAND IS MISSING THE KEYWORD *****.

721   *** USER FATAL MESSAGE 721 (RDASGN), INVALID STATUS KEYWORD. ILLEGAL FORM.

USER INFORMATION: THE VALID (***) KEYWORDS ARE: (***)

722   *** USER FATAL MESSAGE 722 (RDASGN), LOGICAL NAME EXCEEDS MAXIMUM NUMBER OF CHARACTERS ALLOWED.

USER INFORMATION: MAXIMUM CHARACTER LENGTH IS 8.

723   *** USER FATAL MESSAGE 723 (******), ******* EXPRESSION HAS AN UNBALANCED NUMBER OF (***)

This can occur when the DBLOCATE feature is used with the WHERE=(PROJECT=*) clause.
Modify the WHERE clause to include VERSION specification such as
WHERE=(PROJECT=*,VERSION=*); otherwise, the default for VERSION is "last" and the specification of "PROJECT=*" and "VERSION=LAST" will be conflicting.

724   *** USER WARNING MESSAGE 724 (RDASGN), SIZE SPECIFICATION IS NOT NECESSARY FOR THIS MACHINE.

USER INFORMATION: SIZE IS IGNORED.

725   *** USER FATAL MESSAGE 725 (******), THE EQUAL SIGN IS MISSING AFTER THE LOGICAL KEYWORD.

726   *** USER FATAL MESSAGE 726 (******), THE LIST OF LOGICAL NAMES MUST BE IN ENCLOSED PARENTHESES.

727   *** USER INFORMATION MESSAGE 727 (******), NO SPACE WAS

REQUESTED FOR LOGICAL NAME ********.**

USER INFORMATION: A DEFAULT OF ********** IS USED.

Assign the desired disk space by using the ASSIGN statement or by JCL.

728   * USER FATAL MESSAGE 728 (******), THE LOGICAL NAME SPACE REQUEST IS MISSING A CLOSING PARENTHESIS.**

729   * USER WARNING MESSAGE 729 (RDINIT), THE BUFFSIZE FOR ****** CANNOT BE CHANGED FROM THE MACHINE DEFAULT.**

USER INFORMATION: BUFFSIZE PARAMETER IGNORED.

730   * USER FATAL MESSAGE 730 (******), SYNTAX ERROR IN **** EXECUTIVE COMMAND.**

USER INFORMATION: CHECK SYNTAX AND FORMAT OF **** CARD.

731   * USER FATAL MESSAGE 731 (RDLOCA), THE NUMBER OF DB/PARM CARDS LOCATED WITH DBLOCATE EXCEEDS THE LIMIT OF ******.**

732   * USER FATAL MESSAGE 732 (RDLOCA), REDUNDANT SPECIFICATION OF DB/PARM ON DBLOCATE COMMAND.**

733   * USER FATAL MESSAGE 733 (RDLOCA), A BLANK LIST OF ******* IN DBLOCATE COMMAND.**

734   * USER FATAL MESSAGE 734 (RDLOCA), THE QUALIFY ARRAY OF THE DBLOCATE COMMAND EXCEEDS ITS LIMIT OF ****** CHARACTERS.**

735   * USER WARNING MESSAGE 735 (RDREST), THE MODIFIED AND UNMODIFIED KEYWORDS ARE NO LONGER VALID ON THE RESTART COMMAND.**

736   * USER INFORMATION MESSAGE 736 (RDREST), THE RESTART VERSION ID IS NOT DEFINED ON THE RESTART COMMAND.**

A RESTART OF LAST VERSION ID IS ASSUMED.

Whenever performing a restart, NX Nastran assumes that the restart will use the most recent version in the database unless a version number is specified.

737   * USER FATAL MESSAGE 737 (******), THE VALUE SPECIFIED FOR ***** IS NOT AN INTEGER. THE VALUE IS ********.**

738   * USER FATAL MESSAGE 738 (RDASGN), THE FILE NAME MUST BE DEFINED FOR LOGICAL ****.**

739   * USER FATAL MESSAGE 739 (RDASGN), THE LOGICAL NAME ********** IS NOT USER ASSIGNABLE.**

740   * USER FATAL MESSAGE 740 (RDASGN), UNIT NUMBER ***** HAS ALREADY BEEN ASSIGNED TO THE LOGICAL NAME ********.**

741   * USER FATAL MESSAGE 741 (RDASGN), THE LOGICAL NAME ********** HAS ALREADY BEEN ASSIGNED TO THE FOLLOWING PHYSICAL FILE:**

742   * USER FATAL MESSAGE 742 (******), ILLEGAL USAGE OF ***** KEYWORD ********.**

743   * USER FATAL MESSAGE 743 (RDEXPN), A LOGICAL KEYWORD HAS NOT BEEN DEFINED.**

USER ACTION: SPECIFY LOGICAL NAME(S) TO EXPAND THIS DBSET.

USER INFORMATION: LOGICAL NAMES ENABLE US TO OBTAIN THE PHYSICAL FILES WHICH YOU INTEND TO ADD TO A PARTICULAR DBSET .

744   * USER FATAL MESSAGE 744 (******), ********** IS AN INVALID (***) KEYWORD.**

USER INFORMATION: THE VALID KEYWORDS FOR THE (***) STATEMENT ARE:

("MASTER", "DBALL", "USROBJ", "USRSOU", "OBJSCR", "DBSET_NAME", AND "SCRATCH"
"VERSION" AND "PROJECT")

745   * USER FATAL MESSAGE 745 (******), THE MAXIMUM NUMBER OF
DBSETS ASSIGNABLE TO THIS RUN HAS BEEN EXCEEDED.**

USER INFORMATION: THE MAXIMUM NUMBER ALLOWED IS ****.

746   * USER FATAL MESSAGE 746 (RDEXPN), THE MAXIMUM NUMBER
OF LOGICALS THAT CAN BE ASSIGNED WITH THE EXPAND COMMAND
HAS BEEN EXCEEDED.**

USER INFORMATION: THE MAXIMUM NUMBER ALLOWED IS ****.

747   * USER FATAL MESSAGE 747 (RDINIT), THE MAXIMUM NUMBER OF
PHYSICAL FILES ASSIGNED FOR DBSET ********** IN THIS RUN HAS BEEN
EXCEEDED.**

USER INFORMATION: THE MAXIMUM NUMBER ALLOWED IS ****.

748   * USER FATAL MESSAGE 748 (******), ONLY ONE ******* COMMAND IS
ALLOWED. A MAXIMUM OF TEN DBCLEAN COMMANDS ARE ALLOWED.**
749   * USER WARNING MESSAGE 749 (DBINIT), WHEN THE PROJECT ID
ON THE RESTART CARD HAS NOT BEEN DEFINED, A RESTART WITH
"BLANK" PROJECT ID WILL BE ASSUMED. THE PROJECT CARD HAS TO
BE DEFINED PRIOR TO THE RESTART CARD, WHEN RESTARTS OF THE
CURRENT PROJECT ID ARE DESIRED.**
750   * USER WARNING MESSAGE 750 (DBINIT), ONLY ONE ***** COM-
MAND IS FUNCTIONAL. THE OTHERS ARE IGNORED.**
751   * USER FATAL MESSAGE 751 (DBINIT), THE PRIMARY DATABASE
CONTAINS BAD OR NULL MASTER DIRECTORIES.**

USER ACTION: 1. CORRECT THE CAUSE OF THIS PROBLEM.

2. RESUBMIT THE DATABASE INITIALIZATION RUN.

752   * USER WARNING MESSAGE 752 (DBINIT), ******* CARDS IN DATA-
BASE INITIALIZATION RUNS ARE IGNORED.**
753   * USER FATAL MESSAGE 753 (SEMINT), THE SOLUTION SEQUENCE
******** DOES NOT EXIST IN THE FIST.**

USER INFORMATION: IT HAS EITHER NOT BEEN ALLOCATED OR NOT BEEN LINKED.

USER ACTION: SUPPLY THE NECESSARY LINK CARD, IF THIS SOLUTION SEQUENCE IS
BEING COMPILED IN THIS RUN.

754   * USER FATAL MESSAGE 754 (SEMINT), INCLUDE COMMAND
ERROR. **** NASTRAN EXECUTION STOPPED.**

One cause of this is if the word INCLUDE is used as the first word in a line, without reference to
a file. For example, INCLUDE is a keyword for defining a plot SET definition, and if the definition
spans multiple lines, and the INCLUDE keyword is the first word of the continuation, then NX
Nastran thinks that is the INCLUDE command, thereby causing the error.

755   * USER FATAL MESSAGE 755 (XCSA), THE ABOVE STATEMENT IS
NOT SUPPORTED IN THE EXECUTIVE CONTROL SECTION, BUT IN THE
FILE MANAGEMENT SECTION (FMS).**

USER INFORMATION: THE FMS IS DELIMITED BY ANY EXECUTIVE CONTROL STATE-
MENT.

USER ACTION: MOVE THE STATEMENT ABOVE THE EXECUTIVE CONTROL SECTION.

756   *** USER FATAL MESSAGE 756 (XCSA), THE **** CARD IS NO LONGER SUPPORTED IN THE EXECUTIVE CONTROL SECTION.

USER INFORMATION: THE (***) STATEMENT IN THE EXECUTIVE CONTROL SECTION HAS
BEEN REPLACED BY THE (***) STATEMENT. SEE USER MANUAL SECTION 5. SEE USER
MANUAL SECTION 2.2.

This can occur if the RESTART statement of the File Management Section does not begin in col-
umn one.

757   *** USER FATAL MESSAGE 757 (XCSA), THE FIRST ALTER CARD OF A SUBDMAP MUST BE PRECEDED BY A COMPILE CARD THAT SPECIFIES THE SUBDMAP NAME AND LOCATION.

The Alter Executive Control statement must immediately follow a COMPILE statement.

758   *** USER FATAL MESSAGE 758 (XCSA), THE READ EXECUTIVE COM-MAND IS NO LONGER A VALID COMMAND, OR IT IS NOT SUPPORTED IN THIS VERSION.

759   *** USER INFORMATION MESSAGE 759 (XCSA), AUTOMATIC LINK IS ASSUMED.

USER INFORMATION: SPECIFY 'SOLIN' ON SOL CARD, IF AUTOMATIC LINK IS NOT
DESIRED.

760   *** USER FATAL MESSAGE 760 (XCSOL2), THE ABOVE SOL CARD CONTAINS A DBSET VALUE EXCEEDING 8 CHARACTERS. VALUE = ****.

761   *** USER FATAL MESSAGE 761 (XCSSUB), INVALID SOLUTION SEQUENCE REQUESTED.

USER INFORMATION: VALID SOL NUMBERS ARE: SOL NUMBER = **** - SOL NAME =
********.

762   *** SYSTEM FATAL MESSAGE 762 (XGPI), UNEXPECTED END-OF-RECORD DETECTED ON SCRATCH FILE ********.

USER INFORMATION: THE SCRATCH FILE CONTAINING THE COMPILE STATEMENTS HAS
PROBABLY BEEN DESTROYED.

763   *** SYSTEM FATAL MESSAGE 763 (******), INSUFFICIENT OPEN CORE AVAILABLE TO STORE DATABASE DIRECTORY TABLES.

USER ACTION: INCREASE MEMORY REQUEST AND RERUN.

PROGRAMMER INFORMATION: THE AMOUNT OF MAIN MEMORY AVAILABLE BEFORE
STORAGE OF DIRECTORY TABLES = **********. FOLLOWING IS A DUMP OF VALUES IN
THE COMMON BLOCK /XDIR/, WHICH TRACKS THE POSITION OF DIRECTORY TABLES IN
OPEN CORE AS THEY ARE READ FROM DISK.

NOTE: THE FIRST WORD OF EACH 3 WORD ENTRY IS UNUSED, THE SECOND WORD
IS THE TOP POINTER, AND THE 3RD WORD IS THE END POINTER+1 TO A DIRECTORY
TABLE.

THE DIFFERENCE BETWEEN THE SECOND WORD OF THE LAST NON-ZERO ENTRY AND THE AVAILABLE OPEN CORE WILL INDICATE HOW MUCH SPACE THE LAST TABLE TOOK UP BEFORE RUNNING OUT OF OPEN CORE. THE DUMP OF THE COMMON BLOCK /XDIR/ IS:

764   *** SYSTEM FATAL MESSAGE 764 (XSCNDM), END-OF-FILE ENCOUN-TERED WHILE READING SUBDMAP SOURCE.

USER INFORMATION: SUBDMAP FILE MUST BE EMPTY.

765   *** USER FATAL MESSAGE 765 (XREAD), END-OF-FILE ENCOUN-TERED ON UNIT *****. THE INPUT FILE IS INCOMPLETE.

USER INFORMATION: THE FOLLOWING GUIDELINES SHOULD BE FOLLOWED FOR PREP-ARATION OF AN INPUT DECK. FILE MANAGEMENT SECTION (FMS) CAN BE ENDED BY EITHER AN "ENDJOB" OR A NON-FMS CARD. EXECUTIVE CONTROL SECTION CAN ONLY BE TERMINATED BY A "CEND" CARD.

This error can also occur when there is a missing right or left parenthesis in an IF-THEN DMAP statement.

766   *** SYSTEM FATAL MESSAGE 766 (XSCNDM), END-OF-FILE ENCOUN-TERED WHILE READING SUBDMAP ALTERS.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER INFORMATION: SCRATCH FILE ******** MUST HAVE BEEN DESTROYED ?

767   *** USER FATAL MESSAGE 767 (XSCNDM), END-OF-RECORD ENCOUNTERED WHILE READING SUBDMAP SOURCE.

USER INFORMATION: SUBDMAP SOURCE IS MISSING AN "END" STATEMENT.

768   *** USER FATAL MESSAGE 768 (XTRAC3), SYNTAX ERROR ON "A" COMMAND CARD.

USER ACTION: CHECK FORMAT/SYNTAX OF THE COMMAND ABOVE.

769   *** USER FATAL MESSAGE 769 (XTRACT), COMPILE CARD SYNTAX ERROR. MISSING "=" OR NAME FOLLOWING EQUAL SIGN.

770   *** SYSTEM INFORMATION MESSAGE 770 (******), UPWARDS COMPAT-IBILITY CHANGE (DIAG 64) ON DMAP INSTRUCTION ******** BELOW:

***   ORIGINAL DMAP INSTRUCTION   ***   ********* ***   MODIFIED DMAP INSTRUC-TION   ***   *********

771   *** SYSTEM INFORMATION MESSAGE 771 (******), UPWARDS COMPAT-IBILITY CHANGE (DIAG 64) REQUIRED ON C,N AND/OR C,Y PARAMETER(S) IN DMAP INSTRUCTION ******** ABOVE.

USER INFORMATION: ACTUAL CHANGES TO THIS STATEMENT WILL BE MADE DURING DMAP SOURCE COMPILATION.

773   *** USER FATAL MESSAGE 773 (DBDEF), THE FOLLOWING PHYSICAL FILE ALREADY EXISTS.

LOGICAL NAME = ********
PHYSICAL FILE = ******** USER INFORMATION: NO ASSOCIATED DEFAULT FILES OR ASSIGNED DBSETS CAN EXIST PRIOR TO THE DATABASE INITIALIZATION RUN.

USER ACTION: DELETE THIS FILE AND RESUBMIT THE JOB.

774   *** USER FATAL MESSAGE 774 (XDMAP), THE "END" STATEMENT IS MISSING FROM THE SUBDMAP SOURCE.

USER INFORMATION: THE "END" STATEMENT MARKS THE END OF EACH SUBDMAP.

775   *** USER FATAL MESSAGE 775 (******), NUMBER OF ASSIGNED PHYS-ICAL UNITS HAS BEEN EXCEEDED. THE LIMIT = ******.

776   *** USER WARNING MESSAGE 776 (DGETTS), THERE IS NO REQUEST FOR PROCESSING OF THE TIME STAMP BLOCK. IT IS ASSUMED FOR ANY EXISTING MASTER DBSET THAT:

1.

THE DEFAULT BUFFER SIZE = ********   2.

THE DEFAULT CLUSTER SIZE =   1

777   *** USER FATAL MESSAGE 777 (XSPACI), THE MAXIMUM NUMBER OF DBLOCATE DATABASES HAS BEEN EXCEEDED. NUMBER REQUESTED = ****** , NUMBER ALLOWED = ******.

778   *** SYSTEM FATAL MESSAGE 778 (DBOLD), LOGIC ERROR.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER ACTION: THIS IS A ******** DATABASE. XSTORE EXPANSION HAS OVER-WRITTEN USER OPENCORE. SHOULD NOT HAVE PASSED ROUTINE XSPACI CHECKS (ERROR MESSAGE 777).

779   *** USER FATAL MESSAGE 779 (PRINCL), RFALTER ********** CANNOT BE FOUND.

USER ACTION: PLEASE CHECK THE SPELLING OR THE EXISTENCE OF THE ABOVE RFALTER.

The above message is issued if the specified RFAlter name is not found in the RFAlter library.

This error occurs on some UNIX systems when more than one member of the RFAlter library is requested and the first member has a longer filename than the others. This is most likely to occur when using user-written alters.   See Error Report 3663.

780   *** USER FATAL MESSAGE 780 (PRINCL), THE ABOVE RFALTER STATEMENT IS NOT IN THE EXECUTIVE CONTROL OR DOES NOT FOLLOW A VALID COMPILE STATEMENT.

USER ACTION: SPECIFY THE RFALTER STATEMENT IN THE EXECUTIVE CONTROL FOL-LOWING A VALID COMPILE STATEMENT.

The RFAlter statement is used to alter the UGS solution sequence and must be specified in the Executive Control following a valid compile statement.

Move the above command in the Executive Control and after a valid compile statement.

This can also occur if the INCLUDE feature is used in the Bulk Data and the included files incor-rectly contain Executive Control commands.

781   *** SYSTEM INFORMATION MESSAGE 781 (CGPIB), SUBDMAP ******** HAS GENERATED ONE OR MORE FATAL ERROR(S) (SEE ABOVE MES-SAGES)--NOGO = ********.

782   *** USER WARNING MESSAGE 782 (NASCAR), THE NASTRAN BUFF-

**SIZE PARAMETER CANNOT BE SMALLER THAN MACHINE DEFAULT =
**** USER INFORMATION: NASTRAN BUFFSIZE PARAMETER IGNORED.
USE INIT COMMAND TO SET THE DESIRED BUFFSIZE FOR EACH INDIVID-
UAL DBSET.
783 *** USER FATAL ERROR 783 (XUPCHK), THE ******** MODULE CANNOT
BE USED TO SET PARAMETER OVERRIDES.**

USER INFORMATION: THE INCORRECT PARAMETERS ARE *** AND ***. USER ACTION:
REPLACE INCORRECT PARAMETER USAGE WITH EQUIVALENT ARITHMETIC EXPRES-
SION.

784 * USER FATAL MESSAGE 784 (XCLNUP), VERSION = **** PROJECT =
**** OF THIS DATABASE IS NOT VALID FOR RESTART PURPOSES.**

USER ACTION: SUBSEQUENT RESTARTS SHOULD REFERENCE VERSION = **** OR A
PRIOR VALID VERSION.

This can occur in a run when a user's DMAP sequence and SYTEM cell 125 has not been set to
1. If this is the case, insert PUTSYS(1,125) into the DMAP sequence.

786 * USER FATAL MESSAGE 786 (NDDL), A CIRCULAR DEPENDENCY
CONDITION WAS FOUND WHILE PROCESSING ********.**

Examine the DEPEN statements and make the appropriate modifications.

787 * USER FATAL MESSAGE 787 (NSCLOS), ILLEGAL ALTER OR DMAP
SEQUENCE DETECTED USER INFORMATION: NO DMAP MODULES MAY
BE EXECUTED BEFORE THE XSORT AND IFP1 MODULES IN MULTI-LINK
SYSTEMS.**

In Multi-Link (2 or more) Systems, Link 1 cannot be reentered. The only modules currently found
exclusively in Link 1 are IFP1 and XSORT. Some statements may be executed before these
modules (arithmetic assignments/expressions). Put misplaced module after IFP1 module.

788 * USER FATAL MESSAGE 788 (SEMINT), INVALID BUFFER POOL
TYPE REQUEST = **** USER INFORMATION: THE VALID VALUES ARE = -1
FOR GINO FILES = -2 FOR EXECUTIVE SYSTEM FILES = -3 FOR GINO AND
EXECUTIVE SYSTEM FILES
789 *** USER WARNING MESSAGE 789 (RDSDEL), THE DBSET NAME ****
SPECIFIED ON A DBSETDEL STATEMENT DOES NOT EXIST.
790 *** USER FATAL MESSAGE 790 (RDSDEL), THE DBSETDEL STATE-
MENT HAS A SYNTAX ERROR NEAR COLUMN ****. USER ACTION: CHECK
FOR ILLEGAL CHARACTERS, UNMATCHED PARENTHESES, OR DBSET
NAMES LONGER THAN 8 CHARACTERS.
791 *** USER FATAL MESSAGE 791 (RDSDEL), THE DBSETDEL STATE-
MENTS HAVE MORE THAN **** DBSET NAMES.
792 *** USER FATAL MESSAGE 792 (RDSDEL), A DBSETDEL STATEMENT
SPECIFIES **** DBSET WHICH SHOULD NOT BE DELETED.
793 *** USER FATAL MESSAGE 793 (CFLORD), THE SIZE OF THE OSCAR
FOR A SINGLE SUBDMAP HAS A LIMIT OF **** WORDS WHICH HAS BEEN
EXCEEDED FOR THIS SUBDMAP (**** WORDS REQUIRED).**

USER ACTION: PARTITION THIS SUBDMAP INTO SMALLER SUBDMAPS.

794 * USER FATAL MESSAGE 794 (LWRTBK), THE OBJECT FOR THIS
SUBDMAP IS NOT COMPATIBLE WITH THIS VERSION OF NASTRAN.**

USER ACTION: RECOMPILE THIS SUBDMAP.

795 * USER FATAL MESSAGE 795 (CTYPE), NUMBER OF CHARACTERS
SPECIFIED FOR PARAMETER **** EXCEEDS THE ALLOWABLE LIMIT OF 80.**

796   * USER FATAL MESSAGE 796 (CCALL), DATA BLOCK **** IS A DBVIEW NAME AND IS SPECIFIED AS INPUT OR OUTPUT IN A CALL STATEMENT. THIS IS NOT ALLOWED.**

798   * SYSTEM WARNING MESSAGE 798 (NDDL) THE ITEM NAMES WITH (C) OPTION OF DATA BLOCK=********, RECORD=********, HAVE EXCEEDED THE MAXIMUM NUMBER OF **** PROGRAMMER ACTION: REDUCE THE NUMBER OF (C) ITEM NAMES,OR, CHANGE THE INTERNAL LIMIT TO A GREATER NUMBER**

975   * USER WARNING MESSAGE 975, XYTRAN DOES NOT RECOGNIZE **** AND IS IGNORING.**

Keyword XYPLOT package is not correct; see Section 4.3.

976   * USER WARNING MESSAGE 976, OUTPUT DATA BLOCK **** IS PURGED. XYTRAN WILL PROCESS ALL REQUESTS OTHER THAN PLOT.**

The data block output from XYTRAN has been purged; thus no XY PLOTs are possible.

977   * USER WARNING MESSAGE 977, FOLLOWING NAMED DATA BLOCK IS NOT IN SORT2 FORMAT.**

Probably a DMAP calling sequence error to XYTRAN. Only SORT2 data blocks can be purged.

979   * USER WARNING MESSAGE 979, AN XY-OUTPUT REQUEST FOR POINT OR ELEMENT ID ****, **** CURVE IS BEING PASSED OVER. THE ID COULD NOT BE FOUND IN DATA BLOCK ****.**

Curve request could not be found. Point, element or subcase requested was not on input data block.

980   * USER WARNING MESSAGE 980, INSUFFICIENT CORE TO HANDLE ALL DATA FOR ALL CURVES OF THIS FRAME ID = **** COMPONENT = *** DELETED FROM OUTPUT.**

Increase memory request.

981   * USER WARNING MESSAGE 981, COMPONENT = **** FOR ID = **** IS TOO LARGE. THIS COMPONENT CURVE NOT OUTPUT.**

Component request was larger than the data item available; see Section 4.3.

982   * USER WARNING MESSAGE 982, FORMAT OF **** INCOMPATIBLE WITH SDR3 DESIGN. CODE = ****.**

This message appears when the SDR3 module encounters trouble. The exact nature of the problem can be detected from the "code" number. The file type causing the problem can be determined from its name (for example, OESi is the stress output file, and OUGVi the displace-ment, velocity, and acceleration output file). The function of this module is to convert SORT1 out-put tables to SORT2 tables. It operates on one output type per pass (for example, displacements, then velocities, then stresses in BAR elements, then ROD elements, etc.). Since the user controls the content and size of the output tables with case control and plot requests, it is often possible to avoid these errors, as described below.

Codes   Cause and User Action 110   Insufficient memory. Increase memory request, or decrease the number 140   of variables output on one run by using restarts for additional output. 150

The following codes should not occur on standard solution sequences. Please send any such runs to UGS. If they occur on user-written DMAPs, it is likely that an illegal input block is used, or

that the input block is not correctly formatted.

Codes   Cause and User Action 100   The ID record is missing on the input file.

120 101   Missing data record.

102   Wrong number of words in input block.

122

112   The number of words per record is not an integer multiple of the number 142   of words per entry.

152

165   Logic error or ID record indicates zero words.

984   * USER WARNING MESSAGE 984, OUTPUT DATA BLOCK NO. **** IS PURGED. SDR3 CANNOT PROCESS INPUT DATA BLOCK ****.**

Probably DMAP calling sequence error. Needed output is purged.

992   * USER WARNING MESSAGE 992, XYPLOT INPUT DATA FILE I.D. RECORDS TOO SHORT. XYPLOT ABANDONED.**

The input data file records have invalid word counts and further plotting is not feasible.

993   * USER WARNING MESSAGE 993, XYPLOT FOUND ODD NO. OF VAL-UES FOR DATA PAIRS IN FRAME ****, CURVE NO. ****. LAST VALUE IGNORED.**

May indicate a bad input file, but plotting continues.

994   * USER WARNING MESSAGE 994, XYPLOT OUTPUT FILE NAME **** NOT FOUND. XYPLOT ABANDONED.**

PLT2 is missing.

997   * USER WARNING MESSAGE 997, NO. ***. FRAME NO. **** INPUT DATA INCOMPATIBLE. ASSUMPTIONS MAY PRODUCE INVALID PLOT.**

NO. *** may take any value from 1 to 4 with the following meaning:

   1.

Specified X maximum equal X minimum. If this value is zero, then X maximum is set to 5.0 and X minimum to -5.0, otherwise 5 times the absolute value of X maximum is added to X maximum and subtracted from X minimum.

   2.

Specified X maximum is smaller than X minimum. The values are reversed.

   3.

Same meaning as number 1 except for Y maximum and Y minimum.

   4.

Same meaning as number 2 except for Y maximum and Y minimum.

Error Messages 1001-2000

1001   *   SYSTEM FATAL MESSAGE 1001 (BGNSYS), ERROR IN READING FORTRAN UNIT 2 FILE 1002   ***   SYSTEM FATAL MESSAGE 1002 (BGN-SYS), PREMATURE END-OF-FILE IN READING FORTRAN UNIT 2 FILE.**
1003   *   SYSTEM FATAL MESSAGE 1003 (******), UNIT ***** DOES NOT**

HAVE A CORRESPONDING VALUE IN FORUNT ARRAY.

As an example, for punch files unit 7 must be one of the units on the ASSIGN statement.

1004   *   USER FATAL MESSAGE 1004 (CLSPFL), FORTRAN UNIT CLOSE ERROR.**

USER INFORMATION: IOSTAT = *****, *****; LOGICAL = **********; FILE = *********.

A possible cause is that you ran out of disk space.

1005   *   SYSTEM FATAL MESSAGE 1005 (ENDSYS), ERROR IN WRITING FORTRAN UNIT 2 FILE.**

1006   *   SYSTEM WARNING MESSAGE 1006 (F04SUM), CANNOT FIND END FOR 2A BEGN AT LINE NUMBER ******.**

1007   *   SYSTEM WARNING MESSAGE 1007 (F04SUM), LOGIC ERROR *** WITH FOLLOWING RECORD(S):**

Possible cause: If DIAG 49 is turned on and the time spent in some of the modules are too small to cause the END statement to be printed, then the message may be issued without summing the time spent in an individual module. This can occur even when there are other modules that take substantial time.

User action: Add the following NASTRAN System Cell to your run: NASTRAN SYSTEM(20) = 0

1008   *   SYSTEM WARNING MESSAGE 1008 (F04SUM), CANNOT FIND END FOR ********** AT LINE NUMBER ******.**

1009   *   USER INFORMATION MESSAGE 1009 (F04SUM), STATISTICAL SUMMARY OF ABOVE LOG FILE FOLLOWS.**

1010   *   USER INFORMATION MESSAGE 1010 (F04SUM), LOG FILE DOES NOT CONTAIN ANY PERTINENT STATISTICAL INFORMATION.**

1011   *   SYSTEM WARNING MESSAGE 1011 (F04SUM) , I/O ERROR PRO-CESSING FOLLOWING RECORD:**

1012   *   USER FATAL MESSAGE 1012 (******), DBSET ******** IS FULL AND NEEDS TO BE EXPANDED.**

USER ACTION: USE FILE MANAGEMENT COMMAND "EXPAND" FOR THIS DBSET.

See Section 2.2.2. Also, see Error Report 3652.

1013   *   SYSTEM FATAL MESSAGE 1013 (******), CANNOT FIND COR-RECT CLUSTER POINTER RECORD.**

1014   *   SYSTEM FATAL MESSAGE 1014 (******), ERROR IN LOOKING UP CLUSTER NUMBER.**

This has been observed when the maximum number of superelements has been exceeded.

1015   *   SYSTEM FATAL MESSAGE 1015 (******), PHYSICAL FILE NOT FOUND IN FILE ASSIGNMENT TABLE.**

This may be on restart issued if scratch files were not deleted in previous run. It may also be issued if there is insufficient memory.

1016   *   SYSTEM FATAL MESSAGE 1016 (GBKMGR), ERROR IN GINO REFERENCE NAME (****).**

1017   *   SYSTEM FATAL MESSAGE 1017 (******), NO CLUSTER RECORD INCORE FOR DATABASE DIRECTORY.**

1018   *   SYSTEM FATAL MESSAGE 1018 (GBKMGX), WRONG CLUSTER RECORD INCORE FOR DATABASE DIRECTORY.**

1019   *   USER FATAL MESSAGE 1019 (OPNPFL), FORTRAN UNIT OPEN ERROR, IOSTAT = *****, *****, LOGICAL = ********** FILE = ********.**

1020 *** SYSTEM FATAL MESSAGE 1020 (******), UNABLE TO PERFORM LOGICAL TO PHYSICAL FILE ASSIGNMENT.
1021 *** SYSTEM FATAL MESSAGE 1021 (*****), ERROR OCCURED IN BIORD.
1022 *** SYSTEM FATAL MESSAGE 1022 (*****), ERROR OCCURED IN BIOWRT.
1023 *** SYSTEM FATAL MESSAGE 1023 (*****), ATTEMPT TO OPEN A FILE WHICH WAS PREVIOUSLY OPENED (****).
1024 *** SYSTEM FATAL MESSAGE 1024 (*****), ATTEMPT TO OPEN A FILE WITH ILLEGAL REFERENCE NAME (****).
1025 *** SYSTEM FATAL MESSAGE 1025 (*****), BAD STATUS RETURNED FROM BIOGBF.
1026 *** SYSTEM FATAL MESSAGE 1026 (*****), ATTEMPT TO ACCESS A FILE WHICH IS NOT OPENED.
1027 *** SYSTEM FATAL MESSAGE 1027 (*****), SAVPOS ATTEMPTED ON A FILE WHICH WAS OPENED TO UPDATE.
1028 *** SYSTEM FATAL MESSAGE 1028 (*****), FILPOS ATTEMPTED ON A FILE WHICH WAS OPENED TO APPEND.
1029 *** SYSTEM FATAL MESSAGE 1029 (*****), ATTEMPT TO READ FROM AN EMPTY FILE.
1030 *** SYSTEM FATAL MESSAGE 1030 (*****), BLOCK NUMBER MIS-MATCH IN READ.
1031 *** SYSTEM FATAL MESSAGE 1031 (*****), FIELD 3 OF CONTROL WORD NOT EQUAL TO RECORD LENGTH. FIELD3 = ****, REC LENGTH = ****.

One cause of this may be an illegal BUFFSIZE (e.g., larger than allowed).

1032 *** SYSTEM FATAL MESSAGE 1032 (*****), ATTEMPT TO READ PAST END OF DATA.
1033 *** SYSTEM FATAL MESSAGE 1033 (*****), FILE **** NOT FOUND IN FIST.
1034 *** SYSTEM FATAL MESSAGE 1034 (*****), UNRECOGNIZED CON-TROL WORD ENCOUNTERED AFTER FILPOS OPERATION.
1035 *** SYSTEM FATAL MESSAGE 1035 (*****), ATTEMPT TO BCKREC PAST BEGINNING OF BLOCK.
1036 *** SYSTEM FATAL MESSAGE 1036 (*****), UNRECOGNIZED CON-TROL WORD ENCOUNTERED AFTER BCKREC OPERATION.
1037 *** SYSTEM FATAL MESSAGE 1037 (*****), ATTEMPT TO BCKREC ON A FILE OPENED FOR APPEND.
1038 *** SYSTEM FATAL MESSAGE 1038 (*****), ILLEGAL OPCODE = **********.
1040 *** USER FATAL MESSAGE 1040 (GALLEX), DBSET ******** IS FULL AND NEEDS TO BE EXPANDED. USE THE EXPAND FILE MANAGEMENT COMMAND TO INCREASE THE SPACE ALLOCATED TO THIS DBSET.
1041 *** SYSTEM FATAL MESSAGE 1041 (GALLEX), THE DB-DIRECTORY FOR ******** HAS BEEN FILLED UP AND IS NOT EXPANDABLE.

USER ACTION: 1. DELETE UNWANTED FILES FROM THE DBSET IF PERMANENT.

2. INCREASE BUFFSIZE AND/OR CLUSTER SIZE FOR THIS DBSET, IF TEMPORARY.

1042 *** SYSTEM FATAL MESSAGE 1042 (GALLEX), FILE **** NOT FOUND IN FIST.
1046 *** USER FATAL MESSAGE 1046, (INQPFL), FORTRAN INQUIRE ERROR, IOSTAT = *****, ****, LOGICAL = **** FILE = ****.
1047 *** USER FATAL MESSAGE 1047 (PRCMPL) , ILLEGAL INPUT FOR SUBDMAP, A. THE ABOVE COMMAND IS AN NDDL COMMAND.

USER ACTION: CORRECT OR REMOVE THE SUBDMAP COMPILE CARD.

This error occurs when compiling a SUBDMAP which contains NDDL statements.

Correct your COMPILE card to specify that you are compiling NDDL, using the NDDL keyword on the COMPILE card.

1048   ***   USER FATAL MESSAGE 1048 (PRCMPL) , ILLEGAL INPUT FOR NDDL ********. THE ABOVE COMMAND IS NOT AN NDDL COMMAND.

USER ACTION: CORRECT OR REMOVE THE NDDL COMPILE CARD.

This error occurs when compiling an NDDL which contains DMAP statements.

Correct your COMPILE card to specify that you are compiling SUBDMAP, using the SUBDMAP keyword on the COMPILE card.

1049   ***   USER FATAL MESSAGE 1049 (XSPAC) , AMOUNT OF USER OPENCORE(HICORE), MASTER(RAM), SCRATCH(MEM) AND BUFFER POOL SIZE HAVE EXCEEDED THE NX Nastran MEMORY LIMIT:

NX Nastran MEMORY LIMIT = ********** WORDS USER OPENCORE(HICORE) = **********
MASTER(RAM) SIZE = ********** SCRATCH(MEM) SIZE = **********   (******** BUFFERS)
BUFFER POOL SIZE = **********   (******** BUFFERS)
USER ACTION: DECREASE THE SUM OF HICORE, MASTER(RAM), SCRATCH(MEM) D BUFFER POOL SIZE TO FIT WITHIN THE NX Nastran MEMORY LIMIT.

1050   ***   USER WARNING MESSAGE 1050 (DBPRVR), THE PROJECT ID = 'A' SPECIFIED ON THE DBDIR CARD IS NOT DEFINED IN THIS DATABASE.

1051   ***   USER WARNING MESSAGE 1051 (DBPRVR) , THE VERSION ID = ******** OF PROJECT 'A' ON THE DBDIR CARD HAS ALREADY BEEN DELETED.

USER INFORMATION: THIS DBDIR CARD IS IGNORED.

1052   ***   USER WARNING MESSAGE 1052 (DBPRVR) , THE VERSION ID = ******** OF PROJECT 'A' ON THE DBDIR CARD HAS NEVER BEEN CREATED.

USER INFORMATION: THIS DBDIR CARD IS IGNORED.

1053   ***   USER FATAL MESSAGE 1053 (GPVTSH) ' /, PARAMETER INPUT DATA ERROR, ILLEGAL VALUE FOR PARAMETER NAMED ********.

1101   ***   SYSTEM FATAL MESSAGE 1101 (XXLOAD) , FIST NUMBER ********** IS NOT IN THE FIST TABLE.

PROGRAMMER INFORMATION: THIS IS THE FIST NUMBER FOR THE DBENTRY TABLE, WHICH SHOULD HAVE BEEN CREATED IN XCSA.

1102   ***   SYSTEM WARNING MESSAGE 1102 (BPOPEN) , BUFFER FOUND IS ALREADY AN ACTIVE BUFFER.

1103   ***   SYSTEM FATAL MESSAGE 1103 (BPOPEN) , LOGIC ERROR IN BUFFER POOL MANAGEMENT LINK LIST. BUFFER IN LINK LIST OF ********** EXCEEDS DEFAULT SIZE OF **********.

USER ACTION: PLEASE SEND RUN TO UGS.

This has been observed for very dense complex unsymmetric matrices. An avoidance is to increase WSL or decrease HICORE and REAL. See Error Report 3670.

1104 * SYSTEM WARNING MESSAGE 1104 (BPOPEN) , NO DBENTRY FOR FILE = ******.**
1105 * SYSTEM WARNING MESSAGE 1105 (BPSIZE) , NO MEMORY AVAILABLE FOR THE REQUESTED MEM FILE BUFFER POOLING.**

PROGRAMMER INFORMATION:

MEMSIZE = *****   MEMWRD = ***** LINIT = ***** BPOOL = *****   MAXBUF = *****
NEEDBF = *****   LIMIT = ***** PARTIAL DUMP OF /XSPACE/: (OPENCORE POINTERS)
XFTBOT = *****   XFTTOP = *****   LSTXFT = ***** MEMBOT = *****   MEMTOP = *****
LSTMEM = ***** BPLBOT = *****   BPLTOP = *****   LSTBPL = ***** POLBOT = *****
POLTOP = ***** LSTPOL = *****

1106 * SYSTEM FATAL MESSAGE 1106 (******) , ATTEMPT TO CLOSE FILE ***** WHICH IS NOT CURRENTLY OPENED.**

USER INFORMATION: THE ABOVE FILE CONTAINS THE DATABASE DIRECTORY.

1107 * SYSTEM FATAL MESSAGE 1107 (******) , A NON-400 FIST NUMBER OF ********** USED, WHEN ATTEMPTING TO CLOSE THE DBENTRY FILE.**
1108 * USER FATAL MESSAGE 1108 (CTONUM) , INVALID CHARACTER(S) FOUND IN FOLLOWING STRING, STRING: *****.**
1109 * USER FATAL MESSAGE 1109 (CTONUM) , AN EMPTY OR INCOMPLETE STRING DETECTED, STRING: ****.**
1110 * USER FATAL MESSAGE 1110 (CTONUM) , SYNTAX ERROR PROCESSING ***** NUMBER, STRING: ****.**
1111 * USER FATAL MESSAGE 1111 (CTONUM) , EXTRANEOUS DATA REMAINS AFTER STRING PROCESSING, STRING: ****.**
1112 * SYSTEM FATAL MESSAGE 1112 (******), ATTEMPT TO ADD A DBENTRY IN A LOCATION WHERE ANOTHER DBENTRY ALREADY EXISTS.**

USER ACTION: CONTACT UGS.

1113 * SYSTEM FATAL MESSAGE 1113 (DBERST) , WHILE ATTEMPTING TO INCREMENT THE PVA TABLE COUNTER, NO ENTRIES WERE FOUND FOR THIS PATH.**

USER ACTION: SEND THIS RUN TO UGS. MAKE RUN USING FMS COMMAND DBFIX.

1114 * SYSTEM FATAL MESSAGE 1114 (******) , POTENTIAL INFINITELOOP PROBLEM EXISTS IN DBENTRY TABLE FOR DATA BLOCK = ********.**

USER ACTION: RESUBMIT THIS RUN WITH FMS COMMAND DBFIX.

1115 * SYSTEM FATAL MESSAGE 1115 (******) , ERROR OPENING THE DATABASE TRANSACTION FILE (DBRQUE). GINO FILE NAME = *****.**

USER ACTION: CONTACT UGS.

This has been observed when using the SOLVE module and the B matrix in A x = B is null. Explicitly define an identity matrix for the B matrix input. If the SOLVE module is not used, then CONTACT UGS.

1116 * USER FATAL MESSAGE 1116 (DBERST) , NO DATABLOCKS WERE FOUND IN THE RESTART VERSION.**

USER ACTION: CHANGE RESTART VERSION TO AN EXISTING VERSION ON THE DATABASE, OR REMOVE THE RESTART CARD FROM THE INPUT.

1117 * SYSTEM FATAL MESSAGE 1117 (DBESEA) , DBENTRY TABLE**

POINTER TO DB DIRECTORY EQUALS 0.

1118 * USER FATAL MESSAGE 1118 (DBFLAL) , THE DBSET = ******** IS PART OF NEITHER THE CURRENT NOR THE ATTACHED DATABASE.**

1119 * SYSTEM WARNING MESSAGE 1119 (DIRCLN) , ATTEMPTING TO DELETE AN EMPTY DB-DIRECTORY.**

USER INFORMATION: THIS MAY INDICATE A PROBLEM UNLESS THIS DATA BLOCK IS SPECIFIED TWICE.

This message will be issued if a data block name appears twice as input to a module and its LTU (last-time-used) is also at that module. For example, in the following module, SMPYAD PHI,MAA,PHI,,,/X/3////1 $

this error would occur if this were the last time PHI were used. This does not indicate a problem.

1120 * SYSTEM FATAL MESSAGE 1120 (DIRPT3) , THE DATABASE DBENTRY TABLE HAS NO DBSET/FILPOS OFFSET.**

USER INFORMATION: THIS MAY INDICATE THAT THE DATABASE DIRECTORY HAS BEEN DESTROYED.

USER ACTION: TURN ON DIAG 2 AND SEND RUN TO UGS.

PROGRAMMER ACTION: VARIABLES OF INTEREST: NAME = ******** DBEPTR,DBDPTR,DBSPTR = ******* ******* *******.

1121 * USER WARNING MESSAGE 1121 (DIRPT2) , ROUTINE DIRPT2 WAS CALLED WITH AN ILLEGAL OPCODE = ********.**

USER INFORMATION: NO ***DIAG 2 *** PRINT HAS BEEN PRODUCED.

1122 * USER FATAL MESSAGE 1122 (DIRPT3) , THE FILE ASSIGNMENT (DBSPACE) TABLE DOES NOT CONTAIN AN ENTRY FOR THE SCRATCH DBSET, INDICATING IT WAS NOT ALLOCATED FOR THIS RUN.**

1123 * USER FATAL MESSAGE 1123 (GDBSNO) , RLOC = ********** IS NOT FOUND IN DBSPC TABLE.**

PROGRAMMER INFORMATION: VARIABLES OF INTEREST: DBSTOP = **********, SPCOFF = **********.

This indicates a logic error in the code. Please send the run to UGS.

1124 * USER FATAL MESSAGE 1124 (GNFIST) , AN APPENDABLE OUT-PUT FILE ******** CANNOT BE ACCESSED WITH THE DBLOCATE COM-MAND.**

USER ACTION: REMOVE THIS DATABLOCK NAME FROM THE DBLOCATE COMMAND AND RERUN JOB.

1125 * SYSTEM FATAL MESSAGE 1125 (GNFIST), PROGRAM LOGIC ERROR -- UNGENERATED OUTPUT DATA BLOCK *******(*******) DETECTED AT CONCLUSION OF FILE ALLOCATION ROUTINE.**

USER ACTION: CONTACT UGS.

1126 * USER FATAL MESSAGE 1126 (GNFIST) , DMAP MODULE ******** IS ATTEMPTING TO OUTPUT DATABLOCK ******** NAME = ********, WHICH ALREADY EXISTS.**

USER ACTION: DELETE THE DATABLOCK, OR USE FILE ********=OVRWRT.

  In nonlinear analysis, this occurs when iterations for the current subcase have been terminated without convergence. See Error Report 3677.

1127   *   USER FATAL MESSAGE 1127 (******) , DMAP MODULE ******** IS ATTEMPTING TO ACCESS DATA BLOCK ******** NAME = ******** WHICH IS ON AN UNAVAILABLE DBSET.**

1128   *   SYSTEM FATAL MESSAGE 1128 (GNLOC) , A LOCATION PARAMETER HAS AN INCORRECT TYPE AND/OR LENGTH.**

USER INFORMATION: 1.   GNLOC PERFORMS MODULE FILE ALLOCATIONS.

  2. LOCATION PARAMETER MUST BE TYPE 3 (BCD) AND LENGTH 2.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER INFORMATION: 1.   THE DBDIR RECORD INDICATES TYPE = ******** AND LENGTH = ********.

  2. THE FULL DBDIR RECORD IS: *********, VALUE = *******.

PROGRAMMER ACTION: THE NDDL COMPILER SHOULD HAVE CAUGHT THIS DISCREPANCY. THE DATABASE MAY HAVE BEEN DESTROYED.

1129   *   USER FATAL MESSAGE 1129 (GNLOC) , THE FILE ASSIGNMENT (DBSPACE) TABLE CONTAINS NO ENTRY FOR LOCATION PARAMETER ******** = ********.**

USER INFORMATION: 1.   GNLOC PERFORMS MODULE FILE ALLOCATIONS.

  2. THE DBSET ******** WAS NOT ALLOCATED FOR THIS RUN.

PROGRAMMER INFORMATION: THE FULL DBDIR RECORD CONTAINING THIS LOCATION PARAMETER IS: *********.

1130   *   SYSTEM FATAL MESSAGE 1130 (GNLOC) , PARAMETERS USED AS "LOCATION" PARAMETERS MUST BE OF TYPE=3 (BCD) AND LENGTH=2.**

USER INFORMATION: THE PARAMETER DBNAME TABLE ENTRY FOR THIS PARAMETER IS :********.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER INFORMATION: 1. THE NDDL COMPILER SHOULD HAVE CAUGHT THIS ERROR.

  2. IF THE PARAMETER ENTRY DUMP IS CORRECT, THEN OPEN CORE MAY HAVE BEEN OVERWRITTEN, OR
  3. THE DATABASE MAY HAVE BEEN DESTROYED/DAMAGED.

1131   *   SYSTEM FATAL MESSAGE 1131 (GNPARM) , THE POINTER INTO THE VPS TABLE FROM THE OSCAR IS ZERO.**

USER ACTION: SEND RUN TO UGS.

PROGRAMMER INFORMATION: THIS ERROR MAY MEAN THAT OPEN CORE HAS BEEN OVERWRITTEN.

1132   ***   USER FATAL MESSAGE 1132 (GNPREP) , THE DBVIEW OF DATABLOCK ******** IS ILLEGAL BECAUSE IT IS A SCRATCH DATABLOCK.

USER ACTION: DEFINE DATABLK STATEMENT IN THE NDDL, OR USE THE EQUIV DMAP STATEMENT TO EQUATE THESE FILES.

This will be issued if the data block name following the equal sign on the DBVIEW statement does not appear on a TYPE DB statement. If so, insert TYPE DB statement.

1133   ***   USER FATAL MESSAGE 1133 (GNXFST) , INVALID INPUT FIST NUMBER = ******, JOB TERMINATED DUE TO ABOVE ERROR.

1134   ***   USER FATAL MESSAGE 1134 (*******) , NUMBER OF ********** FILES USED EXCEEDS MAXIMUM ALLOWED.

PROGRAMMER INFORMATION: FISTNM = ******   LIMIT FISTNM = ******

1135   ***   USER FATAL MESSAGE 1135 (GNALOC) , THE FILE ASSIGNMENT (DBSPACE) TABLE CONTAINS NO ENTRY FOR THE ******** DBSET, INDICATING IT WAS NOT ALLOCATED FOR THIS RUN. THE FILE ASSIGNMENT (DBSPACE) TABLE CONTAINS NO ENTRY FOR THE SCRATCH OR OBJSCR DBSETS, INDICATING THEY WERE NOT ALLOCATED FOR THIS RUN.

Check ASSIGN FMS statements and DBS keyword for misspelled or improper physical file specification.

1136   ***   SYSTEM FATAL MESSAGE 1136 (TEMPORARY) (GVWFST), DBTEMP TABLE OVERFLOW IN TRYING TO MAKE ROOM FOR DBVIEW DATABLOCKS.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER ACTION: XSTORE LOGIC MUST BE IMPLEMENTED HERE.

1137   ***   USER FATAL MESSAGE 1137 (GVWFST) , MORE THAN 3 QUALIFIERS HAVE BEEN REQUESTED FOR THIS VIEW.

USER ACTION: REDUCE NUMBER OF QUALIFIERS TO THREE OR LESS.

1138   ***   SYSTEM FATAL MESSAGE 1138 (GVWFST) , THE NUMBER OF GINO FILES HAS BEEN EXCEEDED, WHILE CREATING DBVIEW DATABLOCK.

USER ACTION: SEND RUN TO UGS.

1139   ***   SYSTEM FATAL MESSAGE 1139 (QUASEA) , THE MAXIMUM QUALIFIER TABLE LENGTH HAS BEEN EXCEEDED.

USER ACTION: CONTACT UGS REGARDING THIS ERROR.

PROGRAMMER INFORMATION: THE MAXIMUM TABLE LENGTH IS **********.

PROGRAMMER ACTION: INCREASE MAXIMUM TABLE LENGTH IN CALLING ROUTINE.

1140   ***   USER FATAL MESSAGE 1140 (RESENT) , AN ERROR HAS BEEN DETECTED IN THE DATABASE POINTERS.

USER ACTION: SUBMIT A RUN WITH FMS COMMAND DBFIX.

PROGRAMMER ACTION: THIS ERROR OCCURRED WHILE SEARCHING FOR THE BEGIN-
NING OF THE DBENTRY FREE-CHAIN. THE FREE-CHAIN APPEARS TO BE CONNECTED
IN A CIRCULAR LOOP.

1141   *   USER INFORMATION MESSAGE 1141 (RESENT), A DB-DIREC-
TORY NOT PROPERLY CLOSED IN THE PREVIOUS RUN IS BEING
RESTORED BY THIS RUN.**

1142   *   USER FATAL MESSAGE 1142 (******) , THE PROJECT ID ='A'
SPECIFIED ON THE DBCLEAN CARD IS NOT DEFINED IN THIS DATABASE.
RESTART IS NOT DEFINED IN THIS DATABASE.**

1143   *   USER FATAL MESSAGE 1143 (RSPRVR) , THE VERSION ID =
******* HAS NOT BEEN CREATED FOR THIS DATABASE, MAKING A
RESTART FROM IT MEANINGLESS.**

1144   *   USER INFORMATION MESSAGE 1144 (RSPRVR) , LAST VERSION
CREATED IS BEING USED FOR THIS RESTART JOB. LAST VERSION =
**********, PROJECT = ********.**

1145   *   USER FATAL MESSAGE 1145 (RSPRVR) , THE VERSION ID =
******** OF PROJECT 'A' SPECIFIED ON RESTART CARD HAS BEEN
DELETED. PRIOR TO THIS RUN, A RESTART IS IMPOSSIBLE.**

1146   *   SYSTEM FATAL MESSAGE 1146 (RESENT), ATTEMPTING TO
READ BEYOND THE END OF DATA ON THE DATABASE DBENTRY TABLE.**

USER ACTION: RESUBMIT THIS RUN WITH FMS COMMAND DBFIX.

PROGRAMMER INFORMATION: ATTEMPT MADE TO READ DBENTRY BLOCK NUMBER
********* DBENTRY LAST BLOCK NUMBER SPECIFIED IN DBDIR TABLE *********.

1147   *   SYSTEM WARNING MESSAGE 1147 (WRTTRL) , BAD TRAILER
FOR FILE *********.**

This message will be issued when one of the trailer values (see Section 5.2) is outside an
accepted range. For example, if the density of a matrix exceeds 1.0, the message is issued.
Usually, these messages will not have an adverse affect on the job, but should be reported to
UGS as a precaution.

1148   *   SYSTEM WARNING MESSAGE 1148 (WRTTRL) , UNABLE TO
WRITE TRAILER FOR FILE ****.**

1150   *   SYSTEM FATAL MESSAGE 1150 (XCEI) , END OF FILE ENCOUN-
TERED WHILE DOING CONDITIONAL JUMP FROM COND, DMAP STATE-
MENT NUMBER IS ******.**

USER ACTION: CONTACT UDS.

1151   *   SYSTEM FATAL MESSAGE 1151 (XCEI) , ERROR DELETING
SCRATCH FILE ************ AT TOP OF DMAP LOOP.**

1152   *   USER WARNING MESSAGE 1152 (XCLNUP) , SOME DBSETS IN
THIS DATABASE WERE NOT INITIALIZED COMPLETELY.**

USER INFORMATION: THE DATABASE CREATED IN THIS RUN IS TOO IMMATURE TO BE
RESTARTED.

USER ACTION: DELETE THIS DATABASE BEFORE STARTING YOUR NEXT RUN.

1153   *   USER WARNING MESSAGE 1153 (XCLNUP) , THE NDDL FOR
THIS DATABASE HAS NEITHER BEEN CREATED NOR OBTAINED FROM
THE DELIVERY DATABASE.**

USER INFORMATION: THE DATABASE CREATED IN THIS RUN CANNOT BE RESTARTED
FROM.

USER ACTION: DELETE THIS DATABASE BEFORE STARTING YOUR NEXT RUN.

1154   *   SYSTEM FATAL MESSAGE 1154 (XCLOAD) , ERROR DETECTED IN DATABASE DIRECTORY (DBENTRY TABLE).**

USER ACTION: SEND RUN TO UGS, WITH DATABASE DIRECTORY PRINT.

PROGRAMMER INFORMATION: DBEPTR = ********   FWDPTR = ********

1155   *   SYSTEM FATAL MESSAGE 1155 (XCLOAD) , FILPOS POINTER TO DBDIR (DBENTRY) TABLE = 0.**

USER ACTION: SEND RUN TO UGS, WITH DATABASE DIRECTORY PRINT.

PROGRAMMER ACTION: EXAMINE DBENTRY ENTRY -- DBEPTR = *********.

1156   *   SYSTEM INFORMATION MESSAGE 1156 (XCLNUP), GINO FILE **** WAS LEFT OPEN AT PROGRAM TERMINATION.**

1157   *   USER FATAL MESSAGE 1157 (XDRMGR), THE ********** DATA-BASE CONTAINS INVALID OR NULL MASTER DIRECTORIES(NDDL).**

USER INFORMATION: THE NDDL FOR THIS DATABASE HAS NEITHER BEEN CREATED NOR OBTAINED FROM THE DELIVERY DATABASE. THE DATABASE ATTACHED TO THIS RUN IS TOO IMMATURE TO BE RESTARTED.

USER ACTION: DELETE THIS DATABASE AND RESUBMIT ITS DATABASE INITIALIZATION RUN.

1158   *   SYSTEM FATAL MESSAGE 1158 (XRETUR) , UNEXPECTED END OF FILE ENCOUNTERED WHILE POSITIONING BACK TO CALLING SUBD-MAP ********.**

1159   *   SYSTEM FATAL MESSAGE 1159 (XRETUR) , THE "MAIN" SUBD-MAP ******** CANNOT HAVE A "RETURN" STATEMENT.**

1160   *   SYSTEM FATAL MESSAGE 1160 (XSTORE) , OSCAR FILE MUST BE INCORRECTLY POSITIONED SINCE END-OF-FILE ENCOUNTERED.**

USER ACTION: SEND RUN TO UGS.

PROGRAMMER ACTION: CHECK LOGIC IN ROUTINE XSEM.

1161   *   SYSTEM FATAL MESSAGE 1161 (XSTORE) , THE PREALLO-CATED SPACE FOR DBDIR RECORDS IS INSUFFICIENT.**

USER ACTION: SEND THIS RUN TO UGS.

PROGRAMMER ACTION: INCREASE THE APPROPRIATE FIXED BUFFER SIZE.

1162   *   SYSTEM FATAL MESSAGE 1162 (XSTORE), CODING LOGIC ERROR, TYPE VARIABLE = ******** IS INVALID IN CALLS TO XSTORE.**

1163   *   SYSTEM INFORMATIONAL MESSAGE 1163 (XSTVPS) , AN ATTEMPT WAS MADE TO UPDATE AN UNKNOWN LOCAL VPS ENTRY ********.**

1164   *   SYSTEM INFORMATIONAL MESSAGE 1164 (XSTVPS) , AN ATTEMPT WAS MADE TO UPDATE THE LOCAL VPS ENTRY ********, WHOSE VALUE IS STORED ON THE DATABASE.**

1165   *   SYSTEM FATAL MESSAGE 1165 (XSTVPS) , AN ATTEMPT WAS MADE TO UPDATE THE TYPE OF THE LOCAL VPS ENTRY ******** FROM TYPE **** TO TYPE ****.**

1166   *   SYSTEM INFORMATIONAL MESSAGE 1166 (XSTVPS) , AN**

UPDATE TO THE CHARACTER ENTRY ******** IN THE LOCAL VPS WAS TRUNCATED FROM **** WORDS TO **** WORDS.

1167 *** SYSTEM FATAL MESSAGE 1167 (XSUBLD) , THE DUMMY RECORD IS MISSING FROM THE OSCAR FILE **********.

1168 *** SYSTEM FATAL MESSAGE 1168 (XSTORE), THE NUMBER OF ENTRIES IN THE EXECUTIVE TABLE HAS BEEN EXCEEDED.

USER ACTION: 1. ADD THE FOLLOWING KEYWORD TO THE NASTRAN CARD: MAXDB-SET = **********.

2. OR REDUCE NUMBER OF SUBDMAPS IN THIS RUN.

3. OR REDUCE NUMBER OF DATABASE PHYSICAL FILES ATTACHED TO THIS RUN.

1169 *** SYSTEM FATAL MESSAGE 1169 (XSTVPS) , AN ATTEMPT WAS MADE TO UPDATE THE LENGTH OF THE LOCAL VPS ENTRY ******** OF TYPE **** FROM **** TO **** WORDS.

1170 *** SYSTEM INFORMATIONAL MESSAGE 1170 (XSTVPS) , AN UPDATE TO THE CHARACTER ENTRY ******** IN THE LOCAL VPS WAS BLANK-FILLED FROM WORD **** FOR **** WORDS.

1171 *** SYSTEM FATAL MESSAGE 1171 (XSUBLD) , UNEXPECTED END OF RECORD FOUND ON THE FIRST RECORD OF THE OSCAR FILE = ********.

USER INFORMATION: THIS IS PROBABLY NOT BE AN OSCAR DATA BLOCK.

USER ACTION: SEND RUN TO UGS.

PROGRAMMER ACTION: EXAMINE THE FOLLOWING DUMP OF THE OSCAR FILE.

1172 *** SYSTEM FATAL MESSAGE 1172 (EXPDBD) , NUMBER OF RECORDS IN CLUSTER EXCEEDS CURRENT LIMIT: REQUESTED = **********, LIMIT = 2000.

1173 *** USER INFORMATION MESSAGE 1173 (DBCLPR) , VERSION ***** OF PROJECT 'A' HAS BEEN DELETED FROM THE PRIMARY DATABASE. THE CREATION DATE OF THIS VERSION IS **/**/** **·**·**.

1174 *** USER WARNING MESSAGE 1174 (DBCLPR) , THE VERSION ID = ******** OF PROJECT 'A' ON THE DBCLEAN CARD HAS ALREADY BEEN DELETED, NEVER BEEN CREATED.

USER INFORMATION: THIS DBCLEAN CARD IS IGNORED.

1175 *** USER FATAL MESSAGE 1175 (COPY1) , THE DBSET OF THE OUTPUT DATABLOCK HAS A BUFFSIZE LESS THEN THE DBSET OF THE INPUT DATABLOCK.

USER INFORMATION: THE DBSET OF THE INPUT DATABLOCK HAS BUFFSIZE OF **********
THE DBSET OF THE OUTPUT DATABLOCK HAS BUFFSIZE OF **********.

1176 *** SYSTEM WARNING MESSAGE 1176 (DIRPT3), NOT ENOUGH SPACE AVAILABLE TO PRINT ENTIRE PATH VALUE TABLE. PRINT WILL NOT INCLUDE PATH VALUES.

1177 *** SYSTEM WARNING (TEMPORARY) MESSAGE 1177 (DIRPT3), SPILL LOGIC NOT YET INCORPORATED INTO THIS MODULE, AND DATA WILL NOT FIT IN OPEN CORE. DBDIR ABORTED.

1178 *** SYSTEM FATAL (TEMPORARY) MESSAGE 1178 (GNDIR), DUR-ING A DATABLOCK ALLOCATION THE DATABASE DIRECTORY (DBDIR) HAS OVERFLOWED.

USER ACTION: 1. DELETE ANY UNWANTED FILES FROM THE DBSET THIS DATABLOCK
IS ON (VIA DBCLEAN FMS COMMAND) AND RE-RUN.

2. CONTACT UGS.

PROGRAMMER INFORMATION: 1. DATA BLOCK BEING ALLOCATED IS ********.

2. XFIST # OF DBDIR IS ********.

1179   *   USER INFORMATION MESSAGE 1179 (RESDBS) , A DB-DIREC-TORY IMPROPERLY CLOSED IN THE PREVIOUS RUN IS BEING RESTORED BY THIS RUN.**

1180   *   SYSTEM FATAL MESSAGE 1180 (DBCLN), LOGIC ERROR IN DATABASE CLEANUP ROUTINE.**

PROGRAMMER INFORMATION: VARIABLE DBUPTR (THE 10TH ENTRY OF THE
DBTEMP ARRAY) INDICATES NO NEW OUTPUT DBDIR ENTRY WAS GENERATED FOR
DATA BLOCK ******** ALL OUTPUT OR SCRATCH (300 SERIES) DATA BLOCKS MUST HAVE
A NON-ZERO DBUPTR VALUE--.

USER ACTION: RERUN WITH DIAG 45 AND THEN SEND RUN TO UGS.

1181   *   SYSTEM FATAL MESSAGE 1181 (******) , ERROR READING THE TIME STAMP FROM THE DBSET ******** WRITING TO.**

USER INFORMATION: THE CORRESPONDING PHYSICAL FILE IS:

1182   *   SYSTEM FATAL MESSAGE 1182 (GPUTTS) , THE BIT MAP SHOWS CLUSTER FOR TIME STAMP IS ALREADY IN USE.**

1183   *   SYSTEM WARNING MESSAGE 1183 (******), FILE REQUESTED HAS NOT BEEN PREVIOUSLY OPENED.**

PROGRAMMER INFORMATION: REFNUM = ******.

1184   *   SYSTEM WARNING MESSAGE 1184 (BPBACK), (***) FILE WAS OPENED FOR WRITE.**

PROGRAMMER INFORMATION: REFNUM = ****** NAM = ****** TOP = ****** BOT = ******
CUR = ******.

1185   *   SYSTEM FATAL MESSAGE 1185 (ADDPAT), THE PATH VALUE TABLE HAS GROWN TOO LARGE FOR ITS CURRENT LIMITS.**

USER ACTION: INCREASE MASTER(RAM) SIZE ON THE INIT MASTER COMMAND TO
INCREASE THE SIZE OF THE TABLE.

1186   *   SYSTEM FATAL MESSAGE 1186 (GBKMGZ), THE DBDIR CLUS-TER PONTER RECORD LENGTH HAS BEEN EXCEEDED AND IS NOT EXPANDABLE.**

USER ACTION: DELETE DATA BLOCKS WHICH ARE NOT NEEDED ON THE DATABASE
WITH THE DELETE DMAP MODULE, OR DELETE ENTIRE VERSIONS WITH THE DBCLEAN
FILE MANAGEMENT COMMAND.

Currently, a DB Directories cluster pointer record is unexpandable. If it has filled up, the user
must delete data blocks for the cluster pointer record in order to proceed writing to his database.

This has been observed when the maximum number of superelements has been exceeded.

1187   *   USER INFORMATION MESSAGE 1187 (XRETUR) , RETURNING**

TO SUBDMAP ******** WHICH WAS RECURSIVELY CALLED.

1188 * USER FATAL MESSAGE 1188 (GBITEX), DBSET ******** DOES NOT HAVE ****** CONTIGUOUS BLOCKS TO EXPAND THIS DBSET DIREC-TORY.**

USER ACTION: 1. USE FILE MANAGEMENT COMMAND "INIT" FOR A TEMPORARY (SCRATCH) DBSET.

2. USE FILE MANAGEMENT COMMAND "EXPAND" FOR A PERMANENT DBSET.

A number of contiguous blocks need to be allocated for an expansion of a DBSET directory. The BIT-MAP is searched for available bits and it cannot find the requested bits.

1189 * SYSTEM FATAL MESSAGE 1189 (GALLOC), THE SIZE DATA BLOCK **** ON DBSET **** HAS EXCEEDED THE NX Nastran LIMIT OF 65535 GINO BLOCKS.**

USER ACTION: 1. REDUCE THE SIZE OF THE MODEL OR DIVIDE THE MODEL INTO (MORE) SUPERELEMENTS.

2. CREATE A NEW DATA BASE WITH A LARGER BUFFSIZE FOR THE DBSET.

3. CONTACT UGS FOR OTHER POSSIBLE AVOIDANCES.

1190 * SYSTEM INFORMATION MESSAGE 1190 (BGNSYS), NUMBER OF PROCESSORS REQUESTED = **** NUMBER OF PROCESSORS AVAIL-ABLE = **** This is issued if the number of parallel processors specified on the NASTRAN PARALLEL statement exceeds the number available.**

1192 * SYSTEM FATAL MESSAGE 1192 (CKEQUV), THE EQUIVALENCE CORRESPONDENCE TABLE SIZE HAS BEEN EXCEEDED.**

USER INFORMATION: THE TABLE SIZE IS EQUAL TO **** WORDS PARTITIONED FROM THE AVAILABLE OPENCORE SPACE.

USER ACTION: INCREASE HICORE SIZE AND RERUN JOB.

1193 * USER WARNING MESSAGE 1193 (UNLDRF), THE FORMAT ON THE ASSIGN,DBUNLOAD STATEMENT IS INCOMPATIBLE WITH THE FORM ON THE DBUNLOAD STATEMENT FOR UNIT *.**

USER INFORMATION: 1. FORMAT ON ASSIGN IS **** 2. FORM ON DBUNLOAD IS ****

3. DBUNLOAD FORM DEFAULTS ARE SET FOR THIS UNIT RECL = **** FORMAT = ****

1194 * SYSTEM FATAL MESSAGE 1194 (UNLIFU), OVERFLOW OF DBUNLOAD FORTRAN UNIT ARRAY.**

USER ACTION: REDUCE THE NUMBER OF FORTRAN UNITS SPECIFIED IN DBUNLOAD STATEMENTS.

USER INFORMATION: THE MAXIMUM NUMBER OF FORTRAN UNITS THAT CAN BE SPECI-FIED ON DBUNLOAD STATEMENTS IS ****

1195 * USER FATAL MESSAGE 1195 (UNLODR), INVALID VALUE SPECI-FIED FOR FORM KEYWORD ON DBUNLOAD STATEMENT**

1200 * SYSTEM FATAL MESSAGE 1200 (LDDRVR), AN ERROR HAS OCCURRED WHILE ATTEMPTING TO READ A DBLOAD HEADER RECORD FROM THE FMS CONTROL FILE.**

PROGRAMMER INFORMATION: ERROR FLAG FROM FMSGEH = ****.

1201   *   SYSTEM FATAL MESSAGE 1201 (*DRVR), AN ERROR HAS OCCURED WHILE ATTEMPTING TO READ ONE OR MORE DBLOAD DATA RECORDS FROM THE FMS CONTROL FILE.**

PROGRAMMER INFORMATION: 1. ERROR FLAG 1 FROM FMSGEI = ****   2. ERROR FLAG 2 FROM FMSGEI = ****   3. ERROR FLAG 3 FROM FMSGEI = ****   4. ERROR FLAG 4 FROM FMSGEC = ****   5. ERROR FLAG 5 FROM FMSGEC = ****

1202   *   SYSTEM FATAL MESSAGE 1202 (LDDRVR), AN ERROR HAS OCCURED WHILE ATTEMPTING TO REWIND THE FMS CONTROL FILE.**

PROGRAMMER INFORMATION: ERROR FLAG FROM FMSREW = ****.

1203   *   USER WARNING MESSAGE 1203 (UNDRVR), THE CONVERT CLAUSE IS NOT SUPPORTED BY THE DBUNLOAD STATEMENT. THE CON-VERT CLAUSE SPECIFIED WILL BE IGNORED. SPECIFIED CONVERT CLAUSE WAS: ******

1204   *   SYSTEM WARNING MESSAGE 1204 (UN*), ABSOLUTE VALUE OF DOUBLE PRECISION VALUE IS **** THAN THE **** FILTER OF ****, AND WILL BE RESET TO THE CORRECTLY SIGNED FILTER VALUE**

1205   *   SYSTEM INFORMATION MESSAGE 1205 (UNEND), **** ERRORS OCCURED DURING TRANSMISSION PROCESS**

1206   *   USER INFORMATION MESSAGE 1206 (UNLN*), THE DATABLOCK **** IN A (DBUNLOAD/OUTPUT2) REQUEST IS NOT DEFINED IN THE NX Nastran DATA DEFINITION LANGUAGE (NDDL). THIS DATABLOCK WILL NOT BE TRANSLATED TO NEUTRAL FORMAT**

1207   *   USER INFORMATION MESSAGE 1207 (UNLNEU), THE DAT-ABLOCK **** DEFINED AS NDDL TYPE **** IS NOT SUPPORTED BY NEU-TRAL FILE TRANSLATION. THIS DATABLOCK WILL NOT BE TRANSLATED TO NEUTRAL FORMAT**

1208   *   SYSTEM FATAL MESSAGE 1208 (*STR), ERROR SETTING UP TRANSLATE TABLE AT LOC = ******

1209   *   SYSTEM FATAL MESSAGE 1209 (LDDBLK), INSUFFICIENT OPENCORE SPACE AVAILABLE TO LOAD SAVENT ARRAY FOR (DAT-ABLOCK/PARAMETER) ****.**

USER ACTION: INCREASE OPENCORE.

USER INFORMATION: 1.   THE SAVENT ARRAY USES 15 PERCENT OF AVAILABLE OPEN-CORE OR **** WORDS IN THIS RUN.

2. THIS SAVENT ARRAY CONTAINS **** WORDS.

1210   *   SYSTEM FATAL MESSAGE 1210 (LD*), THE PRIMARY QUALIFIER TABLE SIZE HAS BEEN EXCEEDED FOR (DATABLOCK/PARAMETER) ****.**

USER INFORMATION: THE MAXIMUM PRIMARY QUALIFIER TABLE SIZE IS **** WORDS.
USER ACTION: 1. DECREASE NUMBER OF QUALIFIERS FOR DATABLOCK AND RERUN JOB   2. NOTIFY UGS

1211   *   SYSTEM FATAL MESSAGE 1211 (LDDRVR), AN ERROR WAS DETECTED IN THE SUBROUTINE LDLENT WHEN ATTEMPTING TO LOAD A DATABLOCK OR PARAMETER TO THE DATABASE.**

USER INFORMATION: THE REMAINING INPUT FILE WILL NOT BE PROCESSED

1212   *   SYSTEM FATAL MESSAGE 1212 (LDINPT), INVALID DATABLOCK TRAILER DETECTED FOR **** DURING DBLOAD NEUTRAL FILE PROCESS-ING.**

USER INFORMATION: 1.   DATABLOCK TRAILERS CONSIST OF 7 WORDS.

2. THIS TRAILER CONTAINS **** WORDS.

1213   *   SYSTEM FATAL MESSAGE 1213 (LDPHDR), HEADER RECORD MISSING ON NEUTRAL FILE ATTACHED TO UNIT ******

1214   *   SYSTEM INFORMATION MESSAGE 1214 (LDRTRN), ERROR TRANSLATING DATA FROM NEUTRAL FILE READ FOR SUBROUTINE ****. CHARACTER = **** POSITION IS LINE **** CHARACTER ******

1215   *   USER FATAL MESSAGE 1215 (DBDEF), THE PRIMARY DATA-BASE IS INCOMPATIBLE WITH THIS VERSION OF THE PROGRAM.**

USER INFORMATION: PRIMARY DATABASE VERSION IS ****, PROGRAM VERSION IS ****.

USER ACTION: 1. CONVERT THE PRIMARY DATABASE USING THE UGS MIGRATION TOOLS.

2. OR, SET SYSTEM CELL 148 ON NASTRAN STATEMENT TO IGNORE THIS INCOM-PATIBILITY, e.g., "NASTRAN SYSTEM(148)=1"

1216   *   SYSTEM INFORMATION MESSAGE 1216 (LDDBLK), THE DAT-ABLOCK **** CLASSIFIED AS NDDL-TYPE **** CANNOT BE LOADED TO THIS DATABASE BECAUSE THE (MACHINE TYPES/BUFFER SIZES) ARE INCOMPATIBLE. UNLOAD (MACHINE TYPE/BUFFER SIZE): ****, LOAD (MACHINE TYPE/BUFFER SIZE): ******

1217   *   USER FATAL MESSAGE 1217 (LCDEFC), PROJECT OR VERSION IS NOT SPECIFIED IN CONVERT CLAUSE. CONTENTS OF CONVERT CLAUSE: ****.**

USER ACTION: SPECIFY PROJECT AND VERSION.

If either PROJECT or VERSION is specified then both must be specified.

1218   *   USER FATAL MESSAGE 1218 (LCDRVR), RUN IS TERMINATED DUE TO ABOVE ERRORS IN DBLOCATE.**

1219   *   USER FATAL MESAGE 1219 (LCLENT), AN ATTEMPT TO OVER-WRITE THE EXISTING DATABLOCK/PARAMETER **** WITH **** WAS MADE BUT THE NOOVRWRT KEYWORD IS SPECIFIED.**

PROGRAMMER INFORMATION: PATH-POINTER **** DBENTRY POINTER ****

1220   *   USER INFORMATION MESSAGE 1220 (LCLPJV), *** IS (***) IN THE PRIMARY DATABASE.**

1221   *   USER FATAL MESSAGE 1221 (GALLO*), THE PARTITION OF THE SCRATCH DBSET USED FOR DMAP-SCRATCH DATABLOCKS IS FULL.**

USER INFORMATION: THE DMAP SCRATCH PARTITION WILL NOT SPILL INTO THE 300 SCRATCH PARTITION.

USER ACTION: 1. SET NASTRAN SYSTEM(151)=1, OR   2. INCREASE THE NUMBER OF MEMBERS, AND/OR THEIR MAXIMUM SIZE, FOR THE SCRATCH DBSET ON THE "INIT" STATEMENT.

1221   *   USER INFORMATION MESSAGE 1221 (GALLO*), THE PARTITION OF THE SCRATCH DBSET USED FOR (***) IS FULL.**

USER INFORMATION: THE (***) WILL NOW SPILL INTO THE (***)

1222   *   SYSTEM FATAL MESSAGE 1222 (LDRTRN), AN UNEXPECTED END OF FILE WAS DETECTED ON A NEUTRAL FILE DURING A DBLOAD**

OPERATION.

USER INFORMATION: THIS ERROR TERMINATES PROGRAM EXECUTION AND GENER-
ALLY OCCURS WHEN THE DBUNLOAD JOB FAILS DURING NEUTRAL FILE CREATION.

USER ACTION: REVIEW NEUTRAL FILE CREATION JOB FOR FATAL MESSAGES

1223   *   USER WARNING MESSAGE 1223 (UNLDRF), THE RECL SPECI-
FIED ON THE ASSIGN STATEMENT IS **** THAN THE **** VALUE ALLOWED
FOR NEUTRAL FILES.**

USER INFORMATION: 1.   THE SPECIFIED RECL OF **** HAS BEEN RESET TO THE ****
ALLOWED RECL OF ****   2. UNIT NUMBER = **** LOGICAL NAME = **** FILE NAME =
****

1224   *   USER WARNING MESSAGE 1224 (LDLDRF), NO RECL WAS
SPECIFIED ON THE ASSIGN,DBLOAD STATEMENT FOR UNIT ****.**

USER INFORMATION: THE RECL HAS BEEN SET TO THE VALUE OF **** CHARACTERS
DETECTED ON THE NEUTRAL FILE DEFAULT VALUE OF **** CHARACTERS

1225   *   USER WARNING MESSAGE 1225 (LDLDRF), THE RECL ON THE
ASSIGN,DBUNLOAD STATEMENT DIFFERS FROM THE INTERNAL RECL OF
THE NEUTRAL FILE OF UNIT ****.**

USER INFORMATION: 1.   THE INTERNAL RECL FROM THE NEUTRAL FILE WILL BE USED.

2. THE INTERNAL NEUTRAL FILE RECL IS ****.

3. THE ASSIGN,DBUNLOAD STATEMENT RECL IS ****.

1226   *   SYSTEM FATAL MESSAGE 1226 (DBINIT), MAXIMUM NUMBER
OF CONTINUATION ENTRIES IS EXCEEDED.**

USER ACTION: SPECIFY MULTIPLE STATEMENTS.

1227   *   USER FATAL MESSAGE 1227 (LCDRVR), THE DATABLOCK/
PARAMETER NAME **** CANNOT BE PROCESSED DUE TO ABOVE POSSI-
BLE SYNTAX ERROR IN THE ABOVE DBLOCATE STATEMENT.**

1231   *   SYSTEM INFORMATION MESSAGE 1231, (OPNPFL) THE ALLO-
CATION FOR ***   (DDNAME IS *** , DSN IS ***) IS BEING DEALLOCATED.**

1232   *   USER FATAL MESSAGE 1232, (OPNPFL) ALLOCATION ERROR,
UNIT = **** THE FILE CANNOT BE DEALLOCATED BECAUSE DYNAMIC FILE
ALLOCATION IS NOT ENABLED. LOGICAL = **** FILE = ******

USER ACTION: DEALLOCATION IS ATTEMPTED WHEN A CONFLICT EXISTS BETWEEN
AN ASSIGN STATEMENT AND A CORRESPONDING JCL DD STATEMENT, OR WHEN A
CONFLICT EXISTS BETWEEN AN INCLUDE STATEMENT AND THE CORRESPONDING
INCLD1 JCL DD STATEMENT. WHEN DYNAMIC FILE ALLOCATION IS NOT ENABLED, A
JCL DD STATEMENT MUST EXIST FOR EVERY ASSIGN CARD AND THE DATASET NAME
SPECIFICATIONS MUST MATCH. THE DATASET NAME SPECIFED ON ALL INCLUDE
STATEMENTS MUST MATCH THE DATASET NAMESPECIFIED ON THE INCLUD1 JCL DD
STATEMENT. THE INCLUDE STATEMENT MAY SPECIFY DIFFERENT MEMBERS OF A
PDSSO LONG AS THE PDS DATASET NAME SPECIFICATIONS MATCH.

1233   *   USER FATAL MESSAGE 1233 (OPNPFL), AN ALLOCATION CON-
FLICT HAS OCCURRED. LOGICAL = ***   FILE = *** PROGRAMMER
INFORMATION: IOSTAT =   *** See below for more details.**

THERE IS A MEMBER NAME CONFLICT.

USER ACTION: CHECK THE SYNTAX OF THE RFALTAR OR INCLUDE STATEMENT.
CHECK THE ALLOCATIONS OF THE RFALTER LIBRARY AND ANY INCLUDES FOR POSSI-
BLE ALLOCATION CONFLICTS.

IF IOSTAT IS GREATER THAN 32768 THEN AN SVC 99 ERROR HAS OCCURRED. CHECK
YOUR IBM MANUALS FOR THE ERROR.

THE DATASET IS ALLOCATED TO A DIFFERENT DDNAME.

USER ACTION: CHECK YOUR JCL AND ASSIGN STATEMENTS TO SEE IF THE SAME
DATASET IS ALLOCATED TO MORE THAN ONE DDNAME. CHANGE THE ALLOCATIONS. IF
IOSTAT IS GREATER THAN 32768 THEN AN SVC 99 ERROR HAS OCCURRED. CHECK
YOUR IBM MANUALS FOR THE ERROR.

FILE IS AN UPDATE OR READ/WRITE FILE.

USER ACTION: THE SAME DATASET CANNOT BE OPENED FOR WRITE OR UPDATE ON
TWO DIFFERENT DDNAMES AT THE SAME TIME CHECK YOUR JCL AND ASSIGN STATE-
MENTS TO SEE IF THE SAME DATASET IS ALLOCATED TO MORE THAN ONE ONE
DDNAME. CHANGE THE ALLOCATIONS. NOTE THAT TWO DIFFERENT MEMBERS OF A
PDS CANNOT BE OPENED FOR WRITE OR UPDATE SIMULTANEOUSLY. CHANGE ONE OF
THE ALLOCATIONS TO READ ONLY. IF IOSTAT IS GREATER THAN 32768 THEN AN SVC 99
ERROR HAS OCCURRED. CHECK YOUR IBM MANUALS FOR THE ERROR.

OPEN ERROR.

USER ACTION: CHECK YOUR JCL AND ASSIGN STATEMENTS TO SEE IF THERE IS AN
INCORRECT DATASET NAME SPECIFICATION.

1234   *   USER FATAL MESSAGE 1234, (OPNPFL) AN ERROR OCCURED
PROCESSING THE SYS KEYWORD. LOGICAL = ***   FILE = *** PROGRAM-
MER INFORMATION: IOSTAT =   *****

USER ACTION: CHECK THE ASSIGN STATEMENT SYS KEYWORD VALUE FOR INPUT
ERRORS. IF IOSTAT IS GREATER THAN 32768 THEN AN SVC 99 ERROR HAS OCCURRED.
CHECK YOUR IBM MANUALS FOR THE ERROR.

1235   *   USER WARNING MESSAGE 1235, (OPNPFL) THE FILE IS REA-
DONLY OR A PDS, THE ASSIGN STATEMENT SYS KEYWORD VALUE IS
IGNORED. LOGICAL = ***   FILE = ***
1236   ***   USER WARNING MESSAGE 1236, (OPNPFL) THE ASSIGN
STATEMENT TEMP KEYWORD IS NOT PERMITTED FOR IBM PDS
DATASETS OR MEMBERS. THE TEMP KEYWORD IS IGNORED. LOGICAL =
***   FILE = ***
1237   ***   USER WARNING MESSAGE 1237, (OPNPFL) THE FILE HAS
BEEN DYNAMICALLY ALLOCATED AS NEW, BUT THE FILE IS READ ONLY.
LOGICAL = ***   FILE = *** PROGRAMMER INFORMATION: IOSTAT =   ***
1238   ***   USER FATAL MESSAGE 1238, (OPNPFL) AN ERROR OCCURRED
WHEN ALLOCATING A DATASET. OPEN ERROR. LOGICAL = ***   FILE = ***
PROGRAMMER INFORMATION: IOSTAT =   *****

USER ACTION: CHECK THE ASSIGN STATEMENT FOR INPUT ERRORS. IF IOSTAT IS
GREATER THAN 32768 THEN AN SVC 99 ERROR HAS OCCURRED. CHECK YOUR IBM

MANUALS FOR THE ERROR.

If two jobs are trying to DBLOCATE the same database simultaneously, then this error may occur. This is most likely to occur on IBM MVS/XA using dynamic file allocation with certain files being allocated automatically with default names. Make sure that each jid is assigned to a unique name on the exec jcl statement for the two runs that are used to DBLOCATE the same database simultaneously.

1239   *   USER WARNING 1239, (OPNPFL) DISP=NEW IS SPECIFIED FOR A DATASET THAT EXISTS, THE DISPOSITION IS CHANGED TO OLD. LOGICAL = ***   FILE = *****

1240   *   USER ERROR MESSAGE 1240, (FRMPHF) ERROR OCCURRED FORMING THE DATASET NAME SPECIFICATION FOR AN RFALTER OR INCLUDE STATEMENT. LOGICAL = ***   FILE = *** INCLUDE NAME = *** PROGRAMMER INFORMATION: IOSTAT =   *****

USER ACTION: CHECK THE SYNTAX OF THE RFALTER OR INCLUDE STATEMENT. CHECK THE ALLOCATIONS OF THE RFALTER LIBRARY AND ANY INCLUDE STATEMENTS FOR POSSIBLE ALLOCATION CONFLICTS.

1241   *   USER WARNING MESSAGE 1241, (INQPFL) THE FILE IS CATALOGED, BUT IS NOT FOUND ON THE VOLUME. LOGICAL = ***   FILE = *** PROGRAMMER INFORMATION: IOSTAT =   *** VOLUME(S) = *****

USER ACTION: A COMMON CAUSE OF THIS ERROR IS THAT THE DATASET HAS BEEN DELETED FROM THE VOLUME, BUT A CATALOG ENTRY FOR THE DATASET REMAINS IN THE CATALOG. DELETE THE CATALOG ENTRY AND RERUN.

1242   *   USER FATAL MESSAGE 1242, (INQPFL) AN ERROR OCCURRED WHEN PROCESSING A FILE ALLOCATION. LOGICAL = ***   FILE = *** PROGRAMMER INFORMATION: IOSTAT = *****

USER ACTION: CHECK FILE ASSIGNMENTS AND ALLOCATIONS. THIS ERROR MAY HAVE OCCURRED WHEN VALIDATING THE VOLUME SERIALS. CHECK THE VOLUME SERIAL SPECIFICATIONS ON THE ASSIGN STATEMENT SYS KEYWORD OR IN THE JCL. IF IOSTAT IS GREATER THAN 32768 THEN AN SVC 99 ERROR HAS OCCURRED. CHECK YOUR IBM MANUALS FOR THE ERROR.

1243   *   USER WARNING MESSAGE 1243, (NASLOG) AN ERROR OCCURRED PROCESSING LOGICAL NAMES IN THE CONTROL FILE. LOGICAL SPECIFICATION IGNORED RECORD = *** , NLOG = *** LOG = *** ALIAS = *** USER ACTION: CHECK LOGICAL NAME SPECIFICATION.**

1244   *   USER WARNING MESSAGE 1244, (PRMFLD) THE FOLLOWING PARM FIELD ENTRY IS INVALID AND IGNORED: *****

1245   *   USER FATAL MESSAGE 1245, (BIO) AN ALLOCATION ERROR HAS OCCURRED FOR A DATABASE FILE, FILX =   ***. WRITE ATTEMPTED ON FILX WHICH WAS OPENED FOR READONLY. LOGICAL = ***   FILE = *** USER ACTION: CHECK FILE ASSIGN STATEMENTS AND JCL.**

1246   *   USER FATAL MESSAGE 1246 (DBFASG) MISSING FILE NAME SPECIFICATION FOR LOGICAL NAME ***   .**

USER ACTION: CHECK TO SEE IF THE FILE OR DATA SET ASSOCIATED WITH THE LOGICAL NAME EXISTS AND HAS BEEN ASSIGNED OR ALLOCATED IN THE JCL. PERFORM APPROPRIATE ASSIGNMENTS.

1247   *   USER WARNING MESSAGE 1247, (NSIIBM) NX Nastran HAS BEEN EXECUTED USING DYNAMIC FILE ALLOCATION, BUT NO HIGH LEVEL DATASET PREFIX HAS BEEN SPECIFIED. NX Nastran WILL ASSUME THAT ALL DATASETS HAVE BEEN ALLOCATED USING EITHER**

ASSIGN STATEMENTS OR JCL STATEMENTS OR THAT APPROPRIATE DATASET PREFIXES HAVE BEEN SPECIFIED IN AN RC FILE.

USER ACTION: A HIGH LEVEL DATASET PREFIX MAYBE SPECIFIED USING THE USER= KEYWORD IN THE PARM FIELD OR AN RC FILE. (FOR EXAMPLE USER=GENGHIS.KHAN)

1248   *   USER INFORMATION MESSAGE 1248, (RDJCL) FILE, *** IS NOT ELIGIBLE TO BE ASSIGNED AND IS NOT ASSIGNED. THE FILE IS NOT SUITABLE FOR A DATABASE FILE. THE DD STATEMENT HAS CONCATE- NATIONS. THE DDNAME IS RESERVED DDNAME.**

1249   *   USER INFORMATION MESSAGE 1249, (RDJCL) DDNAME, *** ASSIGNED TO FORTRAN LOGICAL FILE = ***** **

1250   *   USER FATAL MESSAGE 1250, (OPNPFL) THE REQUESTED FILE HAS DATA (OR A PDS MEMBER DOES EXIST), AND THE FILE STATUS IS NEW. LOGICAL = **** FILE = **** PROGRAMMER INFORMATION: IOSTAT = ****** **

USER ACTION: A FILE STATUS OF NEW INDICATES THAT THE FILE IS GOING TO BE WRITTEN. TO PREVENT THE LOSS OF DATA, SPECIFY ADIFFERENT FILE. TO REUSE THE FILE AND OVERWRITE THE PREVIOUS DATA, SPECIFY STATUS=UNKNOWN ON THE ASSIGN STATEMENT. TO DELETE THE FILE BEFORE THE START OF THE RUN SPECIFY DELETE ON THE ASSIGN STATEMENT.

+++++++++++++ or +++++++++++++

THE REQUESTED FILE HAS NO DATA (OR A PDS MEMBER DOES NOT EXIST), AND THE FILE STATUS IS OLD. LOGICAL = **** FILE = **** PROGRAMMER INFORMATION: IOSTAT = **** USER ACTION: A FILE STATUS OF OLD INDICATES THAT THE FILE IS A PREVIOUSLY EXISTING FILE THAT MAY CONTAIN DATA TO READ. SPECIFY A FILE THAT CONTAINS DATA. TO USE THE FILE REGARDLESS, SPECIFY STATUS=UNKOWN ON THE ASSIGN STATEMENT.

1251   * SYSTEM FATAL MESSAGE 1251 (CHKNAM) THE DATA SET NAME SPECIFICATION IS INCORRECT. FILE: ******

USER ACTION: THE FOLLOWING SPECIFICATION RULES ARE ENFORCED:

1.) THE LENGTH CANNOT EXCEED 44 CHARACTERS. IF A MEMBER   NAME IS SPECI- FIED, AN ADDITIONAL TEN CHARACTERS ARE   ALLOWED FOR THE MEMBER NAME, (2 FOR THE PARENTHESIS   8 FOR THE MEMBER NAME FOR 54 TOTAL.) 2.) EACH QUAL- IFIER (OR MEMBER NAME) CAN ONLY HAVE   BETWEEN 1 AND 8 CHARACTERS.

3.) EACH QUALIFIER (OR MEMBER NAME) MUST BEGIN WITH A   LETTER OR WITH AN @, #, OR $. THE INITIAL QUALIFIER   MAY BEGIN WITH AN & TO INDICATE A TEMPO- RARY FILE.

4.) EACH QUALIFIER (OR MEMBER NAME) CAN ONLY HAVE   ALPHNUMERIC CHARAC- TERS PLUS @, #, AND $.

5.) IF THE DATA SET IS TEMPORARY (I.E. THE NAME BEGINS   WITH AN &), THEN DATA SET MAY NOT HAVE EXTENSIONS.   CORRECT THE DATA SET NAME SPECIFICATION AND RERUN THE JOB.

1257   *   USER FATAL MESSAGE 1257 (DBMAP) THE MAX-SIZE SPECI- FIED ON THE INIT FMS STATEMENT OR SMEM VALUE IN THE RC FILE OR SMEM KEYWORD IN THE COMMAND PROCEDURE FOR THE MEMFILE OF DBSET *** IS *** BLOCKS AND IS LESS THAN THE RECOMMENDED MINI- MUM OF ******** BLOCKS.**

USER ACTION: SPECIFY A MAX-SIZE OR SMEM VALUE AT OR ABOVE THE RECOM- MENDED VALUE.

+++++++ or +++++++++

THE MAX-SIZE SPECIFIED ON THE INIT FMS STATEMENT FOR THE FIRST MEMBER OF DBSET *** IS *** BLOCKS AND IS LESS THAN THE RECOMMENDED MINIMUM OF *** BLOCKS.

USER ACTION: SPECIFY A MAX-SIZE VALUE AT OR ABOVE THE RECOMMENDED VALUE.

Error Messages 2001-3000

2001 * USER FATAL MESSAGE 2001, SEQGP CARD REFERENCES UNDEFINED GRID POINT ****.**

SEQGP references a point which is not a grid or scalar point.

2002 * SYSTEM FATAL MESSAGE 2002, GRID POINT **** NOT IN EQEXIN.**

This message indicates a program design error in GP1.

2003 * USER FATAL MESSAGE 2003, COORDINATE SYSTEM **** REFERENCES UNDEFINED GRID POINT ****.**

Applies to CORD1j definitions.

2004 * USER FATAL MESSAGE 2004, COORDINATE SYSTEM **** REFERENCES UNDEFINED COORDINATE SYSTEM ****.**

Applies to CORD2j definitions.

2005 * SYSTEM FATAL MESSAGE 2005, INCONSISTENT COORDINATE SYSTEM DEFINITION.**

At least one coordinate system cannot be tied to the basic system.

2006 * USER FATAL MESSAGE 2006, INTERNAL GRID POINT **** REFERENCES UNDEFINED COORDINATE SYSTEM ****.**

The grid point whose internal sequence number is printed above references an undefined coordinate system in either field 3 or field 7 for a GRID entry.

2007 * USER FATAL MESSAGE 2007, ELEMENT **** REFERENCES UNDEFINED GRID POINT ****.**

The element specified points to a non-existent grid or scalar point. This message may occur in superelement analysis when the reference grid point GO is neither exterior nor interior to the superelement. An avoidance is to instead use the vector component method to define the element coordinate system.

2008 * USER FATAL MESSAGE 2008, LOAD SET **** REFERENCES UNDEFINED GRID POINT ****.**

The LOAD set specified points to a non-existent grid or scalar point.

2009 * USER FATAL MESSAGE 2009, TEMP SET **** REFERENCES UNDEFINED GRID POINT ****.**

The TEMP set specified points to a non-existent grid or scalar point.

2010 * USER FATAL MESSAGE 2010, ELEMENT **** REFERENCES UNDEFINED PROPERTY ****.**

The element specified points to a non-existent property entry.

2011 * USER FATAL MESSAGE 2011, NO PROPERTY CARD FOR ELEMENT TYPE ****.**

No property entries exist for the element type specified.

2012 * USER FATAL MESSAGE 2012, GRID POINT **** SAME AS SCALAR POINT.**

Identification of grid and scalar points must be unique.

2013 * USER WARNING MESSAGE 2013, NO STRUCTURAL ELEMENTS EXIST.**

Model check for structural elements.

2014 * SYSTEM FATAL MESSAGE 2014, LOGIC ERROR IN ECPT CONSTRUCTION.**

Internal logic error in connection table construction. Send run to UGS for analysis.

2016 * USER FATAL MESSAGE 2016, NO MATERIAL PROPERTIES EXIST.**

Material properties are required for matrix generation and none are present in the Bulk Data Section.

2017 * USER FATAL MESSAGE 2017, MATERIAL PROPERTY IDENTIFICATION *** WAS DUPLICATED.**

Duplicate material identifications cannot be used on more than one MATi entry type. Check all MATi entries for unique material identification numbers.

2018 * USER FATAL MESSAGE 2018, MATTi CARD *** DID NOT MATCH PARENT TYPE.**

A temperature-dependent material entry does not match the correct type of parent entry. Make sure that referenced temperature and material entries are identified as the same type.

2019 * USER WARNING MESSAGE 2019, AN INCONSISTENT VALUE FOR -NU.21- HAS BEEN COMPUTED FOR MAT8 ID *********.**

The evaluation of $Y = 1 - (v12)*(v12\ E2/E1)$ resulted in a negative value. This will not cause mathematical failure, but could cause strange behavior on elements which reference this MAT ID. Review values for E1 and E2 to make sure that they are correct.

2020 * USER WARNING MESSAGE 2020, ONE OR MORE OF THE ALLOWABLE STRESS CONSTANTS WERE INCORRECT FOR ELEMENT ******** PLY ********.**

Failure theory calculations were requested, but Sb on the PCOMP entry or Xt, Xc, Yt, Yc, or S on the MAT8 were less than or equal to zero. See the element/PLY for which PCOMP or MAT8 entry is in error. The failure index calculations were not made. Either drop request for Failure theory calculations or be sure that Sb, Xt, Xc, Yt, Yc and S are positive.

2021 * SYSTEM FATAL MESSAGE 2021, BAD GMMAT CALLING SEQUENCE.**

The calling sequence of the subroutine which calls either subroutine GMMATD or GMMATS defined a nonconformable matrix product. The subroutine examines the transpose flags in combination with the orders of the matrices to make sure that a conformable matrix product is defined by this input data. This test clearly is made for purposes of calling routine checkout only. No tests are made, nor can they be made, to insure that the calling routine has provided sufficient storage for arrays.

2024 * USER FATAL MESSAGE 2024, OPERATION CODE ******** NOT**

DEFINED FOR MODULE PARAM.

The operation code "SUB" was not chosen from the legal list or was misspelled.

2025   *   USER FATAL MESSAGE 2025, UNDEFINED COORDINATE SYSTEM ****.**

The coordinate system identification number transmitted via ECPT(1) could not be found in the CSTM array. The user should check coordinate system numbers used on Bulk Data entries against those defined on CORD1C, CORD1R, etc., Bulk Data entries to insure that there are no undefined coordinate systems.

This message can occur in superelement analysis when the CORD1x entry is in the Bulk Data entry. The cause is that grid points referenced on the CORD1x entry are not connected by elements in the superelement. An avoidance is to use the CORD2x formats, which reference points in space rather than grid points.

This message also occurs frequently when using a non-UGS model generation program that places grid point identification numbers in the field used for material identification numbers by modern plate elements. See especially the CTRIA3 entry, field 7.

2026   *   USER FATAL MESSAGE 2026, ELEMENT **** GEOMETRY OR MATERIAL PROPERTY YIELDS UNREASONABLE MATRIX.**

Referenced element geometry and/or properties yield a numerical result which causes an element stiffness or mass matrix to be undefined. Possible causes include, but are not limited to, (1) the length of a rod or bar is zero because the end points have the same coordinates, (2) the sides of a triangle or quadrilateral are collinear which leads to a zero cross product in defining an element coordinate system, (3) the bar orientation vector is parallel to the bar axis, or (4) a shear panel has zero thickness or modulus. Check GRID Bulk Data entries defining element end points for bad data.

2027   *   USER FATAL MESSAGE 2027, ELEMENT **** HAS INTERIOR ANGLE GREATER THAN 180 DEG. AT GRID POINT ****.**

SHEAR panel element with the referenced element number has been defined with the four grid points out of the proper cyclical order. See Bulk Data entry definition for CSHEAR entry.

2028   *   SYSTEM FATAL MESSAGE 2028, SMA3A ERROR NO. ****.**

Internal logic error in Subroutine SMA3A of Module SMA3. Possibly an error exists in the generation of the GEI data block. Use the TABPT module to print GEI.

2029   *   USER FATAL MESSAGE 2029, UNDEFINED TEMPERATURE SET ****.**

The referenced temperature set had no default temperature defined. Define a temperature or default temperature for each grid point in the model.

2031   *   USER FATAL MESSAGE 2031, ELEMENT **** UNACCEPTABLE GEOMETRY.**

Possible error on GRID entry or connection entry.

2032   *   USER FATAL MESSAGE 2032, ELEMENT **** UNACCEPTABLE GEOMETRY.**

Possible error on GRID entry or connection entry.

2033   *   USER FATAL MESSAGE 2033, SINGULAR H-MATRIX FOR ELE-**

MENT ****.

Possible error on GRID entry or connection entry.

2034   *   SYSTEM FATAL MESSAGE 2034, ELEMENT ****** SILS DO NOT MATCH PIVOT**

2035   *   USER FATAL MESSAGE 2035, QUADRILATERAL **** INTERIOR ANGLE GREATER THAN 180 DEG.**

Possible error on connection entry for element.

2036   *   USER FATAL MESSAGE 2036, SINGULAR MATRIX FOR ELE-MENT ****.**

Possible error on GRID entry or connection entry.

2037   *   USER FATAL MESSAGE 2037, BAD ELEMENT **** GEOMETRY.**

Possible error on GRID entry or connection entry.

2038   *   SYSTEM FATAL MESSAGE 2038, SINGULAR MATRIX FOR ELE-MENT ****.**

Possible error on GRID entry, connection entry, or rigid element. Rigid elements must have 6 n-set degrees of freedom that define all six rigid body motions of the element.

2039   *   USER FATAL MESSAGE 2039, ZERO SLANT LENGTH FOR HAR-MONIC **** OF CCONEAX ****.**

Possible error on GRID entry or connection entry.

2040   *   USER FATAL MESSAGE 2040, SINGULAR MATRIX FOR ELE-MENT ****.**

Possible error on GRID entry or connection entry or a zero value of G was specified on a MAT1 entry for a Beam element. A zero value of G may be used if K1 and K2 are explicitly set to zero also. Their default value is nonzero.

2041   *   USER FATAL MESSAGE 2041, A MATT1, MATT2, MATT3 OR MATS1 ENTRY REFERENCES TABLE NUMBER **** WHICH IS NOT DEFINED ON A TABLEM1, TBLEM2, TABLEM3, TABLEM4 OR TABLES1 ENTRY.**

The user must insure that all table identification numbers on MATT1, MATT2, MATT3, or MATS1 entries reference tables which exist in the Bulk Data Deck.

2042   *   USER FATAL MESSAGE 2042, MISSING MATERIAL TABLE **** FOR ELEMENT ****.**

The referenced material table identification number is missing. The user should check to see that all element property Bulk Data entries (e.g., PBAR, PROD) reference material identification num-bers for material property entries that exist in the Bulk Data Section.

2044   *   USER FATAL MESSAGE 2044, UNDEFINED TEMPERATURE SET ****.**

The referenced temperature set was selected in the Case Control but not defined in the Bulk Data.

2046   *   USER FATAL MESSAGE 2046, UNDEFINED ELEMENT DEFORMA-TION SET ****.**

The referenced element deformation set was selected in the Case Control but not defined in the Bulk Data.

2047 * USER WARNING MESSAGE 2047, UNDEFINED MULTIPOINT CONSTRAINT SET ****.**

A multipoint constraint set selected in the Case Control could not be found in either an MPC or MPCADD entry or a set referenced on an MPCADD entry could not be found on an MPC entry.

2048 * USER FATAL MESSAGE 2048, UNDEFINED GRID POINT **** IN MULTIPOINT CONSTRAINT SET ****.**

An MPC entry references a grid point which has not been defined.

This message can be output in superelement analysis if:

1) All grids referenced on the MPC are not interior to the same superelement, or 2) The dependent DOF are downstream of the independent DOF.

As a minimum requirement, when an MPC (or RBE) definition includes grid points interior to more than one superelement, then the independent DOF must be downstream of the dependent DOF.

2049 * USER FATAL MESSAGE 2049, UNDEFINED GRID POINT **** HAS A COORDINATE REFERENCED ON A CONSTRAINT CARD.**

An ASET, BSET, CSET, QSET, MPC, SPC, OMIT, or SUPORT entry references an undefined grid or scalar point. In superelement analysis, the equivalent entries SEBSET, SECSET, or SEQSET must refer to exterior points of the superelement being processed. This message has been observed when the superelement has no exterior points, due to modeling errors.

This message has also been observed to reference grid point 0 when scalar points have any of the components 1 through 6 referenced in the C field. Zero or blank should be used instead.

2049A *** USER WARNING MESSAGE 2049A, UNDEFINED GRID POINT ******** ON OMIT1 OR ASET1 CARD - IGNORED. ANY OTHERS ALSO IGNORED.

This message has been observed when an ASETi references a grid point interior to a superelement.

2050 * USER FATAL MESSAGE 2050, UNDEFINED GRID POINT **** HAS A SUPPORT COORDINATE.**

A SUPORT entry references a grid point which has not been defined.

2051A * USER FATAL MESSAGE 2051A, UNDEFINED GRID POINT **** IN SINGLE POINT CONSTRAINT SET ****.**

In superelement analysis this message may not be issued. It is recommended that all superelement definitions (e.g., SESET and grid entries) be removed temporarily so that PARAM,CHECKOUT may be used to check for this type of error.

2052 * USER FATAL MESSAGE 2052, UNDEFINED GRID POINT **** IN SINGLE-POINT CONSTRAINT SET ****.**

An SPC entry in the selected SPC set references a grid point which has not been defined.

2053 * USER WARNING MESSAGE 2053, UNDEFINED SINGLE-POINT CONSTRAINT SET ****.**

A single point constraint set selected in the Case Control could not be found on either an SPCADD, SPC or SPC1 entry, or a set referenced on an SPCADD entry could not be found on

either an SPC or SPC1 entry.

2061 * USER FATAL MESSAGE 2061, UNDEFINED GRID POINT **** ON GENERAL ELEMENT ****.**

A general element references an undefined grid point.

2063 * SYSTEM FATAL MESSAGE 2063, TA1C LOGIC ERROR. GENERAL ELEMENT DATA COULD NOT BE FOUND IN THE ECT DATA BLOCK WHEN TRAILER LIST INDICATED IT WAS PRESENT. REFER PROBLEM TO MAINTENANCE PROGRAMMING STAFF.**

2064 * USER FATAL MESSAGE 2064, UNDEFINED EXTRA POINT **** REFERENCED ON SEQEP CARD.**

An attempt has been made to resequence an undefined extra point.

2065 * USER FATAL MESSAGE 2065, UNDEFINED GRID POINT **** ON DMIG CARD.**

Direct matrix input references an undefined grid point.

2066 * USER FATAL MESSAGE 2066, UNDEFINED GRID POINT **** ON DAREA, RLOAD- OR TLOAD- CARD.**

A dynamic loading entry references an undefined grid point.

2067 * USER FATAL MESSAGE 2067, UNDEFINED GRID POINT **** ON NOLIN - CARD.**

A nonlinear dynamic load references an undefined grid point.

2068 * USER FATAL MESSAGE 2068, UNDEFINED GRID POINT **** IN TRANSFER FUNCTION SET ****.**

A transfer function references an undefined grid point.

2069 * USER FATAL MESSAGE 2069, UNDEFINED GRID POINT **** IN TRANSIENT INITIAL CONDITION SET ****.**

An attempt has been made to specify initial conditions for an undefined grid point.

2070 * USER FATAL MESSAGE 2070, REQUESTED DMIG MATRIX **** IS UNDEFINED.**

A DMIG matrix was selected in the Case Control but was not present in the Bulk Data.

2071 * USER FATAL MESSAGE 2071, DYNAMIC LOAD SET **** REFERENCES UNDEFINED TABLE ****.**

A referenced dynamic load table was not present in the Bulk Data.

This has been observed in a restart into SOL 71 when PARAM,RESDUAL,-1 is set and a LOAD-SET invoking an LSEQ is present. The avoidance is to remove PARAM,RESDUAL,-1. See Error Report 2946.

2072 * SYSTEM WARNING MESSAGE 2072, CARD TYPE **** NOT FOUND ON DATA BLOCK.**

This warning message is issued when the trailer bit for the card type = 1 but the corresponding record is not on the data block.

2074 * USER FATAL MESSAGE 2074, UNDEFINED TRANSIENT FUNCTION SET ****.**

A transfer function set was selected in the Case Control but was not present in the Bulk Data.

2075 * SYSTEM OR USER DMAP FATAL MESSAGE 2075, IMPROPER VALUE **** FOR FIRST PARAMETER IN DMAP INSTRUCTION SDR2.**

Data recovery was requested for a problem type which was not defined.

2076 * USER FATAL MESSAGE 2076, ELEMENT ******** REFERENCES TABLES1 ******** WHICH IS THE INCORRECT FORM FOR NONLINEAR ELASTIC ANALYSIS.**

The user has referenced a TABLES1 entry of FORM=1 which is plastic strains and slopes of the curve in the plastic region rather than FORM=0 which is a list of stress-strain data points. For FORM=0 tables, the second point was not at the yield location. Enter the correct table form or change the MATS1 analysis type.

2077 * SYSTEM FATAL MESSAGE 2077, INVALID NONLINEAR EST APPENDAGE ENCOUNTERED IN SUBROUTINE ********.**

While processing the nonlinear EST data block, an appendage was located which did not conform to the bit specifications on the trailer, thus it could not be processed in the routine's open-core area. This is a possible user error. Regenerate the ESTNL data block from TA1. If this does not work, then the code must be reexamined for error.

2078 * USER FATAL MESSAGE 2078, TABLES1 ID ********* HAS INSUFFICIENT NUMBER OF ENTRIES.**

The user has entered a nonlinear table composed of less than three points which implies that the plastic strain versus stress-strain slope appendage cannot be computed. Supply a TABLES1 with a minimum of three entries.

2079 * USER FATAL MESSAGE 2079, GRID OR SCALAR POINT **** HAS AN UNDEFINED COORDINATE REFERENCED ON A DAREA, DELAY, DPHASE CARD.**

The "C", or component value for scalar-type points must be zero or one.

2080 * USER WARNING MESSAGE 2080, AN OBSOLETE (***) IS BEING USED. THIS CAPABILITY MAY BE DELETED IN THE NEXT SYSTEM.**

As capabilities are replaced by newer technology, the old version is removed. Usually a system or two is allowed for removal. Currently the following capabilities are being considered for removal.

PLOTTING   The SC 4020 plotter ELEMENT   The elements HEXA1, HEXA2, HEX8, HEX20, QDPLT, QDMEM, QUAD1, QUAD2, QDMEM1, QDMEM2, TRIA1, TRIA2, TRBSC, TRPLT, TRMEM and WEDGE CNGRNT   The CNGRNT Bulk Data card Before the next system release of NX Nastran, change your input to use the newer capabilities.

2082 * USER FATAL MESSAGE 2082, PROJECTED OR CONCENTRATED LOAD USED ON BEND ELEMENT ********.**

The PLOAD1 options for projected or concentrated loads are not supported for bend elements.

2083 * USER FATAL MESSAGE 2083, MATERIAL INPUT INCONSISTENT WITH NONLINEAR FORMULATION FOR ELEMENT ********.**

For nonlinear material properties referenced on the PSHELL entry, MID4 must be blank and MID1 and MID2 must reference the same MAT1/MATS1 entry combination.

2084 * USER FATAL MESSAGE 2084, GAP ELEMENT WITH ID = ******** HAS ILLEGAL GEOMETRY OR CONNECTIONS.**

Bad GAP geometry has been detected. Review GAP element definition.

2085   *   SYSTEM FATAL MESSAGE 2085, ELEMENT TYPE **** NOT SUP-PORTED FOR NONLINEAR ANALYSIS.**

An element type not currently implemented was encountered on the data block ESTNL. This should be impossible unless the user inputs an EST data block with its trailer altered.

2088   *   USER FATAL MESSAGE 2088, DUPLICATE TABLE ID ****.**

All tables must have unique numbers. Check for uniqueness.

2089   *   USER FATAL MESSAGE 2089, TABLE **** UNDEFINED.**

The table number in the list of table numbers input to subroutine PRETAB via argument 7 was not found after reading the DIT data block. Check list of tables in the Bulk Data.

2090   *   SYSTEM FATAL MESSAGE 2090, TABLE DICTIONARY ENTRY **** MISSING.**

Logic error in subroutine PRETAB, or open core used by PRETAB has been destroyed.

2092   *   SYSTEM WARNING MESSAGE 2092, SDR2 FINDS A SYMMETRY SEQUENCE LENGTH = **** AND AN INSUFFICIENT NUMBER OF VECTORS AVAILABLE = **** WHILE ATTEMPTING TO COMPUTE STRESSES AND FORCES. ALL FURTHER STRESS AND FORCES COMPUTATION TERMI-NATED.**

The number of SUBSEQ command coefficients must be less than or equal to the number of SUBCASES that precede the SUBCOM which contains the SUBSEQ command. Either increase the number of SUBCASEs or reduce the number of SUBSEQ coefficients.

2093   *   USER FATAL MESSAGE 2093, NOLIN CARD FROM NOLIN SET **** REFERENCES GRID POINT **** WHICH IS NOT IN UD SET.**

Nonlinear loads can only be applied to points in the dynamic analysis set.

2094   *   USER WARNING MESSAGE 2094, SUBROUTINE TABFMT, KEY-NAME ******** NOT IN RECOGNIZED LIST. A PRINTOUT OF THE RECOG-NIZED LIST OF KEYNAMES FOLLOWS.**

Formatted table print is requested for a data block which is not coded in the module.

2098   *   USER WARNING MESSAGE 2098, SUBROUTINE TABFMT, INSUF-FICIENT CORE.**

Additional main memory required to execute the formatted table printer.

2099   *   USER WARNING MESSAGE 2099, SUBROUTINE TABFMT, KF ********.**

Contents of requested data block do not match assumed format.

2101A   *   USER FATAL MESSAGE 2101A, GRID POINT **** COMPO-NENT *** ILLEGALLY DEFINED IN SETS ****.**

The above grid point and component has been defined in each of the above dependent subsets. A point may belong to at most one dependent subset. This error occurs when a DOF is defined as belonging to two mutually exclusive sets (see User's Manual Section 1.4).

A common example of this is if a DOF is defined as dependent on an MPC (M- set) and as being constrained (S-set) on an SPC entry. The message for this would state that the component was illegally defined in the UM (user-defined M- set) and US (User-defined S-set). These two sets are mutually exclusive in that all MPC equations are processed before the SPCs are applied (excep-

tion SOL 24) and the M-set DOF have been removed from the matrix. When the program attempts to apply the SPC, the DOF is no longer available and the FATAL message is issued. The normal correction for this is to modify the MPC so that the DOF in question is independent (N-set). Then there is no conflict.

2101B   ***   USER FATAL MESSAGE 2101B, SCALAR POINT **** ILLEGALLY DEFINED IN SETS ****.

The above scalar point has been defined in each of the above dependent subsets. A point may belong to at most one dependent subset.

2104   ***   USER FATAL MESSAGE 2104, UNDEFINED COORDINATE SYSTEM ****.

See the explanation for Message 2025.

2105   ***   USER FATAL MESSAGE 2105, PLOAD2 CARD FROM LOAD SET **** REFERENCES MISSING OR NON-2-D ELEMENT ****.

PLOAD2 entries must reference two-dimensional elements.

2106   ***   USER FATAL MESSAGE 2106, LOAD CARD DEFINES NONUNIQUE LOAD SET ****.

All load sets must have unique identification numbers.

2107   ***   USER FATAL MESSAGE 2107, EIG-CARD FROM SET **** REFERENCES DEPENDENT COORDINATE OR GRID POINT ****.

When the point option is used on an EIGB, EIGC or EIGR entry the referenced point and component must be in the analysis set for use in normalization.

2109   ***   USER FATAL MESSAGE 2109, NO GRID, SCALAR OR EXTRA POINTS DEFINED.

Dynamics problems must have at least one grid, scalar or extra point.

2112   ***   SYSTEM FATAL MESSAGE 2112, ATTEMPT TO USE TABLE PROCESSING FOR MATERIAL *** WHEN NO TABLE WAS SUPPLIED.

This error occurs in nonlinear analysis when, for a given value of strain, a table lookup was requested but the user did not supply a table. Make sure that tables referenced by MATS1 or CREEP entries are supplied.

2113   ***   USER FATAL MESSAGE 2113, ELEMENT *** REFERENCED MATID *** WHICH CANNOT BE USED TO OBTAIN REQUIRED PROPERTIES.

A search procedure in MAT allows any possible MATi entry to be referenced under any INFLAG. However, only certain material formats can be used to construct the required output in /MATOUT/ . Make certain the element can reference the material entry type.

2114   ***   USER FATAL MESSAGE 2114, THE VALUE OF PARAMETER F12 DOES NOT SATISFY THE STABILITY CRITERION FOR ELEMENT ******** PLY ********.

Failure theory calculations for the noted element/ply were not calculated. The value of the parameter F12 did not satisfy the following equations for Tsai-Wu failure theory:

    1   1   --- * --- - (F12)**2 > 0   XtXc   YtYc Change the value of the parameter F12.

2115   ***   USER FATAL MESSAGE 2115, TABLE **** (TYPE ****) ILLEGAL WITH STRESS-DEPENDENT MATERIAL.

Only TABLES1 entries may be used to define stress-strain curves for use in piecewise linear analysis.

2116   ***   USER FATAL MESSAGE 2116, ALL TABLES MUST BE SUPPLIED FOR CREEP CARD ***.

When the table option is selected for CREEP analysis, all possible table fields must be supplied.

2117   ***   SYSTEM FATAL MESSAGE 2117, LOGIC ERROR, ELEMENT *** MATERIAL *** REQUIRES A MATS1 OR CREEP CARD WHICH WAS NOT LOADED.

Normally, module TA1 determines which types of analyses are possible for an element based upon which material is referenced. The processing routine has requested processing other than that for which the element was flagged. Review references to MATS1 or CREEP entries by MATi entries.

2120   ***   USER FATAL MESSAGE 2120, MODULE VEC - BOTH SUBSET BITS ARE NONZERO. I ********.

Possible error in partitioning set definition.

2121   ***   USER FATAL MESSAGE 2121, MODULE VEC - BOTH SUBSET BITS ARE ZERO. I ********.

Possible error in partitioning set definition.

2122   ***   USER FATAL MESSAGE 2122, MODULE VEC - SET X BIT IS ZERO BUT SUBSET XO BIT IS NOT. I ********.

Possible error in partitioning set definition.

2123   ***   USER FATAL MESSAGE 2123, MODULE VEC - SET X BIT IS ZERO BUT SUBSET X1 BIT IS NOT. I ********.

Possible error in partitioning set definition.

2124   ***   USER WARNING MESSAGE 2124, MODULE VEC - NR=0, OUTPUT WILL BE PURGED.

Requested partitioning vector is null.

2125   ***   USER WARNING MESSAGE 2125, MODULE VEC - NZ=0, ONE OR MORE COLUMNS OF OUTPUT MATRIX WILL BE NULL.

Requested partitioning vector is full.

2131   ***   USER FATAL MESSAGE 2131, NON-SCALAR ELEMENT *** REFERENCES A SCALAR POINT.

An element which must be attached to a geometric grid point has been attached to a scalar point. No geometry data can be inferred.

2133   ***   USER FATAL MESSAGE 2133, INITIAL CONDITION IN SET **** SPECIFIED FOR POINT NOT IN ANALYSIS SET.

Initial conditions can only be specified for analysis set points. Therefore the point/component mentioned on TIC entries must belong to the d- or h-sets.

2134   ***   USER FATAL MESSAGE 2134, LOAD SET *** DEFINED FOR BOTH GRAVITY AND NON-GRAVITY LOADS.

The same load set identification number cannot appear on both a GRAV entry and another loading entry such as FORCE or MOMENT. To apply both a gravity load and a concentrated load

simultaneously, the LOAD entry must be used.

2135   *   USER FATAL MESSAGE 2135, DLOAD CARD *** HAS A DUPLICATE SET ID FOR SET ID ***.**

The Li set IDs on a DLOAD entry are not unique. See DLOAD description in Section 2.4.

2136   *   USER FATAL MESSAGE 2136, DUPLICATE DLOAD, RLOAD, OR TLOAD SET ID NUMBER = ****** HAS BEEN ENCOUNTERED FOR DLOAD SET = ******.**

Dynamic loads may not be combined by giving multiple data cards with the same ID. Use unique IDs.

2139   *   USER WARNING MESSAGE 2139, ELEMENT **** IN DEFORM SET **** IS UNDEFINED.**

A selected element deformation set includes an element twice, includes a non-existent element, or includes a non-one-dimensional element.

2140   *   USER FATAL MESSAGE 2140, GRID POINT OR SCALAR POINT ID *** IS TOO LARGE.**

This is a program restriction on the size of integer numbers. A card defining a grid point or scalar point has a number larger than the maximum of 2,000,000.

2141   *   USER INFORMATION MESSAGE 2141, TIME ESTIMATE IS ******** SECONDS. PROBLEM SIZE IS ********, SPILL WILL OCCUR FOR THIS CORE AT A PROBLEM SIZE OF ********.**

The time estimate includes the time of the tridiagonalization and eigenvalue calculation. If ND is given on the EIGR entry, it also includes the time of the eigenvector generation. If F1 and F2 are used instead, the eigenvector times are not estimated. This leads to underestimates of time when the range includes many eigenvectors.

2142   *   USER FATAL MESSAGE 2142, INSUFFICIENT CORE FOR MODULE VEC. AVAILABLE CORE = ********** WORDS. ADDITIONAL CORE NEEDED = ********** WORDS.**

Additional main memory is needed to execute module VEC.

2143   *   USER FATAL MESSGE 2143, MODULE VEC UNABLE TO IDENTIFY SET OR SUBSET DESCRIPTOR ********.**

Illegal set name for partitioning vector definition.

2145   *   USER FATAL MESSAGE 2145, ******** FATAL MESSAGES HAVE BEEN GENERATED IN SUBROUTINE VEC. ONLY THE FIRST **** HAVE BEEN PRINTED.**

Only a limited number of error messages are printed.

2146   *   USER FATAL MESSAGE 2146, BOTH OF THE SECOND AND THIRD VEC PARAMETERS REQUEST COMPLEMENT.**

Illegal definition of partitioning vector.

2148   *   USER WARNING MESSAGE 2148, SPCD ON A POINT NOT IN S SET GRID **** COMP. ****.**

All components on SPCD entries must be members of the s-set, e.g., an entry on an SPC Bulk Data entry. Data on the referenced variable is discarded.

2150   *   USER FATAL MESSAGE 2150, ILLEGAL VALUE FOR FOURTH PARAMETER = ******.**

2152   *   USER FATAL MESSAGE 2152, GRID POINT ******** COMPONENT ** DUPLICATELY DEFINED IN THE **** SET.**

  A component may appear only once in a set.

2153   *   USER FATAL MESSAGE 2153, SCALAR POINT ******** DUPLI-CATELY DEFINED IN THE **** SET.**

  A component may appear only once in a set.

2154   *   USER WARNING MESSAGE 2154, ZERO AREA OR ILLEGAL CONNECTION FOR HBDY ELEMENT NUMBER ********.**

  Possible error on connection entry or property entry.

2155   *   USER WARNING MESSAGE 2155, MAT4 AND MAT5 MATERIAL DATA CARDS HAVE THE SAME ID = ********** MAT4 DATA WILL BE SUP-PLIED WHEN CALLED FOR THIS ID.**

  The same identification number has been used for an isotropic and an anisotropic material.

2157   *   USER FATAL MESSAGE 2157, MATERIAL ID = *************** DOES NOT APPEAR ON ANY MAT4 OR MAT5 MATERIAL DATA CARD.**

  Material properties required for thermal matrix generation are not present in the Bulk Data.

2160   *   USER FATAL MESSAGE 2160, BAD GEOMETRY OR ZERO COEF-FICIENT FOR SLOT ELEMENT NUMBER ***************.**

  Possible error on GRID entry or connection entry.

2161   *   USER FATAL MESSAGE 2161, PARTITION FILE, **** IS OF SIZE ******** ROWS BY ********** COLS. PARTITIONING VECTORS INDICATE THAT THIS PARTITION SHOULD BE OF SIZE ********** ROWS BY ********** COL-UMNS FOR A SUCCESSFUL MERGE.**

  Check RP and CP sizes for MERGE.

2162   *   USER WARNING MESSAGE 2162, THE FORM PARAMETER AS GIVEN TO THE MERGE MODULE IS INCONSISTENT WITH THE SIZE OF THE MERGED MATRIX, HOWEVER, IT HAS BEEN USED. FORM = **********, SIZE = ********** ROWS BY ********** COLUMNS.**

  Use square forms for square matrices, etc, or use FORM=0.

2163   *   USER WARNING MESSAGE 2163, REQUESTED VALUE OF **** **** USED BY ****. LOGICAL CHOICE IS ****.**

  The type of the output matrix is not consistent with the precision of the computer.

2165   *   USER FATAL MESSAGE 2165, ILLEGAL GEOMETRY OR ZERO COEFFICIENT FOR SLOT ELEMENT NUMBER *******************.**

  Possible error on grid or connection card.

2166   *   USER FATAL MESSAGE 2166, MATRIX TO BE PARTITIONED IS OF SIZE ********** ROWS BY ********** COLUMNS. ROW PARTITION SIZE IS ********** COLUMN PARTITION IS ********** (INCOMPATIBLE).**

  The RP or CP matrices do not match the incoming matrix size. Check the DMAP and DIAG 8 output.

  Note that in versions prior to V65C, the size of the partitioning vector did not have to be compat-ible with the matrix being partitioned. This was changed starting with V65C, when a warning

message was issued. Starting with V67.5, this was changed to a fatal message.

2168   *   USER WARNING MESSAGE 2168, THE FORM PARAMETER AS GIVEN TO THE PARTITIONING MODULE FOR SUB-PARTITION ********* IS INCONSISTENT WITH ITS SIZE. FORM = **********, SIZE = ********** ROWS BY ********** COLUMNS.**

Either use FORM=0, or label square results square, etc.

2170   *   USER FATAL MESSAGE 2170, BOTH THE ROW AND COLUMN PARTITIONING VECTORS ARE PURGED AND ONLY ONE MAY BE.**

Check your DMAP PARTN or MERGE for loss of both RP and CP.

2171   *   USER WARNING MESSAGE 2171, SYM FLAG INDICATES TO THE PARTN OR MERGE MODULE THAT A SYMMETRIC MATRIX IS TO BE OUT-PUT. THE PARTITIONING VECTORS ******** HOWEVER DO NOT CONTAIN AN IDENTICAL NUMBER OF ZEROS AND NON-ZEROS.**

Do not specify both RP and CP if a symmetric partition is desired.

2172   *   USER WARNING MESSAGE 2172, ROW AND COLUMN PARTI-TIONING VECTORS DO NOT HAVE IDENTICAL ORDERING OF ZERO AND NON-ZERO ELEMENTS, AND SYM FLAG INDICATES THAT A SYMMETRIC PARTITION OR MERGE IS TO BE PERFORMED.**

Do not specify both RP and CP if a symmetric partition is desired.

2173   *   USER WARNING MESSAGE 2173, PARTITIONING VECTOR FILE **** CONTAINS ********** COLUMNS. ONLY THE FIRST COLUMN IS BEING USED.**

The COLNO parameter has been set longer than the number of columns in RP or CP in the PARTN or MERGE modules.

2174   *   USER WARNING MESSAGE 2174, PARTITIONING VECTOR ON FILE **** IS NOT REAL-SINGLE OR REAL-DOUBLE PRECISION.**

Partitioning vectors may not be complex for the PARTN or MERGE modules.

2184   *   SYSTEM WARNING MESSAGE 2184, STRESS OR FORCE REQUESTS FOR ELEMENT TYPE = *************** WILL NOT BE HONORED AS THIS ELEMENT IS UNDEFINED TO SDR2.**

2187   *   USER FATAL MESSAGE 2187, INSUFFICIENT WORKING CORE TO HOLD FORTRAN LOGICAL RECORD. LENGTH OF WORKING CORE = ********.**

LENGTH OF FORTRAN LOGICAL RECORD = **********.

2190   *   SYSTEM FATAL MESSAGE 2190, ILLEGAL VALUE FOR KEY = *********. EXPECTED VALUE = *********.**

2193   *   USER FATAL MESSAGE 2193, A REDUNDANT SET OF RIGID BODY MODES WAS SPECIFIED FOR THE GENERAL ELEMENT.**

Only a non-redundant list of rigid body modes is allowed to appear in the ud set when the S matrix is to be internally calculated in subroutine TA1CA.

2194   *   USER FATAL MESSAGE 2194, A MATRIX D IS SINGULAR IN SUB-ROUTINE TA1CA.**

While attempting to calculate the [S] matrix for a general element in TA1CA, it was discovered that the matrix Dd which relates ub to ud was singular and could not be inverted.

2195   *   USER WARNING MESSAGE 2195, ILLEGAL VALUE FOR P4 = ******.**

2197   *   SYSTEM FATAL MESSAGE 2197, ABORT CALLED DURING TIME TEST OF *********.**
2198   *   SYSTEM FATAL MESSAGE 2198, INPUT DATA BLOCK, ******** HAS BEEN PURGED.**
2199   *   SYSTEM FATAL MESSAGE 2199, SUMMARY/ ONE OR MORE OF THE ABOVE FATAL ERRORS WAS ENCOUNTERED IN SUBROUTINE ********.**
2200   *   USER FATAL MESSAGE 2200, INCONSISTENT RIGID BODY SYSTEM.**

The rigid body mass matrix is not positive definite. Possible causes are unconstrained mechanisms, or input of negative mass terms.

A diagnostic method is to remove all SUPORT entries, and inspect the resulting eigenvectors for implausible behavior.

2251A   *   USER WARNING MESSAGE 2251A, ONE OR MORE MAT1 CARDS HAVE UNREASONABLE OR INCONSISTENT VALUES OF E,G OR NU. ID OF FIRST ONE = ********.**

Potentially bad elastic constants have been defined on one or more Isotropic Materials (MAT1 entry). Checks are made for

(a) any of E < 0.0, G < 0.0, (unless two of the three data fields are blank).

(b) |1-E/2*(1+NU)G| < 0.01 if all three constants are defined. If greater than 0.01, then a 2D anisotropic material is recommended.

Verify that the values defined are meaningful for the designated application.

2251B   ***   USER WARNING MESSAGE 2251B, THE NUMBER OF MAT1 CARDS HAVING UNREASONABLE OR INCONSISTENT VALUES FOR E,G AND/OR NU IS ********. ID OF LAST ONE = ********.

See Message 2251A. Check all Isotropic Material (MAT1 entries) in the range indicated for the ones with potentially bad elastic constants. These values should be verified for application suitability.

2257   *   USER WARNING MESSAGE 2257, SET **** REFERENCED ON SPLINE CARD **** IS EMPTY.**

While processing the SET1 or SET2 entry referenced on the SPLINEi entry, no included grid points were found. If SET1 was used, either no points were included or they were all scalar points. If SET2 was used, the volume of space referenced did not include any structural grid points. This may occur if a tapered element is extended too far. The spline is omitted from the problem and processing continues.

2258   *   USER FATAL MESSAGE 2258, SET **** REFERENCED ON SPLINE CARD **** NOT FOUND.**

The necessary SET1 or SET2 entry was not found. Include the proper SET entry.

2259   *   SYSTEM FATAL MESSAGE 2259, POINT ASSIGNED TO BOX **** FOR CAERO1 **** NOT IN EQAERO.**

No internal k point could be found for external box. If box number is correct, module APD is in error; if box number is incorrect, module GI is in error.

2260   *   USER FATAL MESSAGE 2260, SINGULAR MATRIX DEVELOPED WHILE PROCESSING SPLINE ****.**

Matrix developed by SSPLIN or LSPLIN (depending on type of spline) could not be inverted; possibly for the surface spline all points lie in a straight line, or not enough points are included.

2261 *** USER FATAL MESSAGE 2261, PLANE OF LINEAR SPLINE **** PERPENDICULAR TO PLANE OF AERO ELEMENT ****.

Y-axis of linear spline was perpendicular to connected element and could not be projected onto element.

2262 *** USER FATAL MESSAGE 2262, SPLINE **** INCLUDES AERO BOX INCLUDED ON AN EARLIER SPLINE.

Two splines are attached to the same box. Splines must be connected to the same structural grid point but not the same aerodynamic grid point. This type of error checking will stop with one error, so check this spline and subsequent splines (sorted) for overlaps before resubmitting.

2263 *** USER FATAL MESSAGE 2263, INSUFFICIENT CORE TO PROCESS SPLINE ****.

Depending on type of spline and input options, subroutine SSPLIN, or LSPLIN would not have had enough core for this spline. Either allow more core or break this spline into smaller splines.

2264 *** SYSTEM FATAL MESSAGE 2264, NUMBER OF ROWS COMPUTED (****) WAS GREATER THAN SIZE REQUESTED FOR OUTPUT MATRIX (****).

Module ADD determines size of output matrices (j set size). Sum of number of rows added by different method total more than maximum allowed.

2266 *** USER FATAL MESSAGE 2266, ONE OR MORE OF THE FOLLOWING FLFACT SETS WERE NOT FOUND *** ***.

One or more of the FLFACT IDs on the FLUTTER entry could not be found. Include all sets mentioned.

2267 *** USER FATAL MESSAGE 2267, INTERPOLATION METHOD **** UNKNOWN.

Matrix interpolation method on FLUTTER entry is not implemented.

2268 *** USER FATAL MESSAGE 2268, FMETHOD SET **** NOT FOUND.

FLUTTER entry for FMETHOD = **** in case control could not be found.

2269 *** USER FATAL MESSAGE 2269, FLUTTER METHOD **** NOT IMPLEMENTED.

Flutter analysis method on FLUTTER entry is not implemented.

2269A *** USER WARNING MESSAGE 2269A (FA1) THE KE FLUTTER METHOD DOES NOT SUPPORT A BHH MATRIX AND THESE DATA ARE IGNORED.

USER ACTION: DELETE THE INPUT DATA WHICH GENERATES THE BHH MATRIX OR USE AN ALTERNATIVE FLUTTER METHOD (PK OR K).

2270 *** USER FATAL MESSAGE 2270, LINEAR INTERPOLATION WITHOUT ENOUGH INDEPENDENT MACH NUMBERS EQUAL TO DEPENDENT MACH ****.

Linear interpolation is for points with the same Mach number, and less than two more found from QHHL list which matched the requested Mach on an FLFACT list.

2271 * USER FATAL MESSAGE 2271, INTERPOLATION MATRIX IS SINGULAR.**

Possibly for the surface spline, all the Mach numbers were the same, or for either method, not enough points were included.

The range of Mach numbers and reduced frequencies must be larger on the MKAEROi entry than on the FLFACT entry.

2286 * USER FATAL MESSAGE 2286, C ELEMENT ******** REFERENCED ON PLOAD1 ******** NOT FOUND.**

An element identification number is referenced on a PLOAD1 entry which does not exist on either a CBAR or CBEAM bulk data entry.

2317 * USER WARNING MESSAGE 2317, PARAM HAS STORED OUTSIDE DEFINED RANGE OF COMMON BLOCK /SYSTEM/. INDEX VALUE = *****************.**

2318 * USER FATAL MESSAGE 2318, NO AERO CARD FOUND.**

An AERO or AEROS entry is required for module APD.

2319 * USER FATAL MESSAGE 2319, NO CAERO1 CARDS FOUND.**

At least one CAERO MESSAGE entry is required for module APD.

2320 * USER FATAL MESSAGE 2320, NO AEFACT CARDS FOUND.**

An AEFACT entry has been referenced and none have been found in the input.

2321 * USER FATAL MESSAGE 2321, NO FLUTTER CARDS FOUND.**

Flutter analysis requires at least one FLUTTER entry.

2322 * USER FATAL MESSAGE 2322, NEITHER MKAERO1 OR MKAERO2 CARDS FOUND.**

Either MKAERO1 or MKAERO2 entries are required.

2323 * USER FATAL MESSAGE 2323, PAERO2 ENTRY NO. **** REFERENCED BY CAERO2 ENTRY NO. **** BUT DOES NOT EXIST.**

2324 * USER FATAL MESSAGE 2324, CAERO1 ELEMENT NO. XXXXXXX REFERENCED ON A SPLINE1 CARD DOES NOT EXIST.**

Either a SPLINE1 or a SPLINE2 entry references a CAERO1 entry which is missing.

2325 * USER FATAL MESSAGE 2325, CAERO1 ELEMENT NO. XXXXXXX REFERENCED ON A SET2 CARD DOES NOT EXIST.**

A SET2 entry points to a CAERO1 which was not included.

2326 * *** USER FATAL MESSAGE 2326, CAERO2 ELEMENT NO. **** REFERENCES AEFACT ENTRY NO. **** WHICH DOES NOT EXIST.**

2327 * USER FATAL MESSAGE 2327, CAERO1 ELEMENT NO. ******* REFERENCES AEFACT CARD NO. ******* WHICH DOES NOT EXIST.**

The listed CAERO1 entry requires one AEFACT entry for LCHORD or LSPAN.

2328 * USER FATAL MESSAGE 2328, SETI AND SPLINEI CARDS REQUIRED.**

At least one SET1 or SET2 entry and at least one SPLINE1 or SPLINE2 entry required.

2329 * USER FATAL MESSAGE 2329, DUPLICATE EXTERNAL ID NO. ******* GENERATED.**

The external ID's assigned to each generated box must be unique, and different from any grid or scalar point ID.

2330   *   USER FATAL MESSAGE 2330, SET1 OR SPLINE3 ENTRY NO. ******* REFERENCES EXTERNAL ID NO. ******* WHICH DOES NOT EXIST.**

External ID on SET1 or SPLINE3 entry does not exist as structural grid point.

2331   *   USER FATAL MESSAGE 2331, BOX PICKED ON SPLINE CARD NO. ******* NOT GENERATED BY CAERO CARD NO. *******.**

SPLINE entry ******* points to a box which was not generated by the CAERO entry.

Since the output data block was purged, the data in the corresponding input data block was not used.

2332   *   USER FATAL MESSAGE 2332, DEPENDENT MPC COMPONENT HAS BEEN SPECIFIED TWICE. EXTERNAL ID = ****** DOF = ******.**

A duplicate dependent MPC component has been found. See Section 1.4.9

2333   *   USER INFORMATION MESSAGE 2333, MODULE DDRMM TERMI-NATED WITH VARIABLE IERROR = ***********.**

IERROR CODE   CAUSE   2   Frequency list is empty probably due to DMAP error

2334   *   USER WARNING MESSAGE 2334, ILLEGAL MAJOR OR MINOR OFP-ID IDENTIFICATIONS = ***********. *********** DETECTED IN DATA BLOCK, ****, PROCESSING OF SAID DATA BLOCK DISCONTINUED.**

2335   *   USER WARNING MESSAGE 2335, THE AMOUNT OF DATA IS NOT CONSISTENT FOR EACH EIGENVALUE IN DATA BLOCK **** PROCESSING OF THIS DATA BLOCK TERMINATED.**

2336   *   USER WARNING MESSAGE 2336, A CHANGE IN WORD 2 OF THE OFP-ID RECORDS OF DATA BLOCK **** HAS BEEN DETECTED. PROCESS-ING OF THIS DATA BLOCK HAS BEEN TERMINATED.**

2337   *   USER WARNING MESSAGE 2337, DATA BLOCK **** CANNOT BE PROCESSED DUE TO A MEMORY INSUFFICIENCY OF APPROXIMATELY ********** DECIMAL WORDS.**

2338   *   USER WARNING MESSAGE 2338, DATA BLOCK **** MAY NOT BE FULLY COMPLETED DUE TO A MEMORY INSUFFICIENCY OF APPROXI-MATELY ********** DECIMAL WORDS.**

2339   *   USER MESSAGE 2339, A CHANGE IN WORD 2 OF THE OFP ID RECORDS OF DATA BLOCK **** HAS BEEN DETECTED. PROCESSING OF THIS DATA BLOCK HAS BEEN TERMINATED.**

2340   *   USER INFORMATION MESSAGE 2340, MODULE **** ****, HAS BEEN REQUESTED TO DO UNSYMMETRIC DECOMPOSITION OF A SYM-METRIC MATRIX.**

The matrix to be solved has a matrix trailer that indicates that it is symmetric ("FORM=6"). The DMAP call requests that the unsymmetric decomposition algorithm be used. The symmetric algorithm is more economical that the unsymmetric algorithm, and unconditionally stable for pos-itive-definite matrices.

Change the DMAP call to request symmetric decomposition, unless it is known that the unsym-metric algorithm is required.

2341   *   USER FATAL MESSAGE 2341, MODULE **** **** HAS BEEN FUR-NISHED A SQUARE MATRIX MARKED UNSYMMETRIC FOR SYMMETRIC DECOMPOSITION.**

The module has been instructed to perform the symmetric decomposition algorithm in the DMAP call, but the trailer of the input matrix indicates that it is not of Form 6. If the matrix should be symmetric, a MODTRL module call can be scheduled before the module to convert the matrix trailer to Form 6. If this message is encountered in a solution sequence, it is a signal that a solution is being requested for a system (unsymmetric matrices) for which it was not designed. Wrong answers may result if the solution is forced through with the MODTRL technique.

2342 * USER WARNING MESSAGE 2342, UNRECOGNIZED DMAP APPROACH PARAMETER = **** ****.**

2343 * SYSTEM WARNING MESSAGE 2343, DATA BLOCK, *****, IS EITHER NOT -EQEXIN-OR POSSIBLY INCORRECT.**

2344 * SYSTEM WARNING MESSAGE 2344, GPFDR FINDS ELEMENT = **** ****, HAS AN ECT ENTRY LENGTH TOO LONG FOR A PROGRAM LOCAL ARRAY.**

2345 * SYSTEM WARNING MESSAGE 2345, GPFDR FINDS AND IS IGNORING UNDEFINED ECT DATA WITH LOCATE NUMBERS = ******** ******** ********.**

2346 * SYSTEM WARNING MESSAGE 2346, GPFDR FINDS DATA FOR EL-TYPE = **********, IN DATA BLOCK, ********** NOT TO BE IN AGREEMENT WITH THAT WHICH IS EXPECTED.**

2347 * SYSTEM WARNING MESSAGE 2347, GPFDR FINDS TOO MANY ACTIVE CONNECTING GRID POINTS FOR ELEMENT ID = **********.**

2348 * SYSTEM WARNING MESSAGE 2348, GPFDR DOES NOT UNDER-STAND THE MATRIX-DICTIONARY ENTRY FOR ELEMENT ID = **********.**

2349 * SYSTEM WARNING MESSAGE 2349, GPFDR FINDS AN ELE-MENT ENTRY CONNECTING PIVOT SIL = **********, ON DATA BLOCK ***** TOO LARGE FOR A LOCAL ARRAY. ENTRY IS BEING IGNORED.**

2351 * USER INFORMATION MESSAGE 2351, A FORCE CONTRIBUTION DUE TO ELEMENT TYPE = **** ****, ON POINT ID = **********, WILL NOT APPEAR IN THE GRID POINT FORCE BALANCE SUMMARY.**

2352 * SYSTEM WARNING MESSAGE 2352, GPFDR IS NOT ABLE TO FIND PIVOT SIL = ********* AS READ FROM DATA BLOCK ***** IN TABLE OF SILS.**

2353 * USER WARNING MESSAGE 2353, INSUFFICIENT CORE TO HOLD ALL NON-ZERO APP-LOAD AND F-OF-SPC OUTPUT LINE ENTRIES OF GRID-POINT-FORCE-BALANCE REQUESTS. SOME POINTS REQUESTED FOR OUTPUT WILL BE MISSING THEIR APP-LOAD OR F-OF-SPC CONTRI-BUTION IN THE PRINTED BALANCE.**

2354 * USER WARNING MESSAGE 2354, GPFDR MODULE IS UNABLE TO CONTINUE AND HAS BEEN TERMINATED DUE TO ERROR MESSAGE PRINTED ABOVE OR BELOW THIS MESSAGE. THIS ERROR OCCURRED IN GPFDR CODE WHERE THE VARIABLE -NERROR- WAS SET = *****.**

This can occur in nonlinear solutions which invoke GPFDR via user-written DMAP. See Error Report 3771.

2355 * USER WARNING MESSAGE 2355----, NULL DISPLACEMENT VECTOR ENCOUNTERED IN CROSS STRAIN ENERGY CALCULATIONS.**

2360 * USER FATAL MESSAGE 2360, CAERO 3, 4, OR 5 CARDS ARE NOT ALLOWED IN STATIC AERO PROBLEMS.**

Static aeroelasticity only supports the doublet-lattice method of aerodynamics.

Remove these entries types from the Bulk Data.

Error Messages 3001-4000

3001 * SYSTEM FATAL MESSAGE 3001, ATTEMPT TO OPEN DATA SET *** IN SUBROUTINE ****** WHICH WAS NOT DEFINED IN FIST.**

Subroutine did not expect data block to be purged. Check data block requirements for module. See Section 6.3.1 for interpretation of this message.

The FIST is the File Status Table. Files (input data blocks, in this case) are internally numbered--the first one is 101, the second is 102, and so forth. UFM 3001 can be diagnosed by listing the DMAP and the contents of the database dictionary to see which input is missing. The subroutine listed in the message is expecting the file as input, and for some reason the file is purged or otherwise nonexistent (generally due to missing input).

One kind of missing input occurs by forgetting to put the METHOD command in Case Control for modal transient or frequency response analyses. Another kind of missing data is to forget the SET command in the OUTPUT(POST) section. Yet another kind of missing data is to forget to put a FREQ, FREQ1, or FREQ2 in the Bulk Data for frequency response.

Another way to get this message is to specify PARAM,OPTIM,NO in a SOL 200 that contains superelements, and there is no design model (see Error Report 3650). In SOL 200, one way to encounter this error is to have invalid RTYPE, PTYPE combinations. Another way is to request optimization with shape variables (see Error Reports 3543, 3585).

Another way to get this message is to request output for anything other than the boundary point responses in SOL 118 (see Error Report 3581). Still another way is to have no constrained DOF in the model and to use the AUTO option on the TSTEPNL entry in nonlinear transient analysis. An avoidance is to use the ADAPT option on TSTEPNL (see Error Report 3644).

This message has been seen in SOL 103 with Design Sensitivity Analysis-- material properties were incorrectly left out.

Using CREEP with nonlinear-elastic materials (MATS1) will also give this message. CREEP works only with temperature-dependent materials.

This message can occur in nonlinear analysis with no constrained DOF.

Data in incorrect locations is another means of getting this message. For example, the OUTPUT(POST) section must be below the subcase level. In addition, the SURFACE and VOLUME commands must be in the OUTPUT(POST) section, and not anywhere else. The SET referenced by the SURFACE or VOLUME commands must be defined prior to it being referenced.

3002 *** SYSTEM FATAL MESSAGE 3002, EOF ENCOUNTERED WHILE READING DATA SET ********* (FILE ***) IN SUBROUTINE ******.

This message is issued when an End-Of-File occurs while trying to skip the header record. The data block is not in the proper format. This generally occurs when data that the subroutine expects is missing.

3003 *** SYSTEM FATAL MESSAGE 3003, ATTEMPT TO READ PAST THE END OF A LOGICAL RECORD IN DATA SET ********* (FILE ***) IN SUBROUTINE ********.

This message is issued when the file is positioned at the beginning of a logical record and the record does not contain at least three words. The data block is not in proper format. This can occur, for example, when using the arc length method (NLPCI entry) for enforced displacement problems. See Error Report 3737.

3004   ***   SYSTEM FATAL MESSAGE 3004, INCONSISTENT TYPE FLAGS ENCOUNTERED WHILE PACKING DATA SET **** 3005   ***   USER FATAL MESSAGE 3005, ATTEMPT TO OPERATE ON SINGULAR MATRIX **** IN SUBROUTINE ****.

Subroutine SDCOMP or subroutine UDCOMP has detected a singular matrix and the calling routine does not support this case. A User Information Message defining the singularity has already been printed.

3007   ***   SYSTEM FATAL MESSAGE 3007, ILLEGAL INPUT TO SUBROUTINE ****.

Subroutine **** has encountered data which it cannot process. This error should not be caused by user input data, except as described in the next paragraphs. A system or programming error is indicated. Go directly to the subroutine listing or description to determine the exact cause of the problems.

This message occurs in superelement analysis when restarting improperly. The illegal input message is usually caused by a purged input file.

One example is if the subroutine is CALCV. A common cause of this error is when attempting to perform a PARTN (or MERGE) on matrices with null partitioning vectors, or attempting to perform UPARTN (or UMERGE) on a matrix for which the original set is the same size as the final set. In this case, the partitioning vector generated by the program is null and this error is generated. In CALCV, if the DMAP partition "hard-coded" and the set does not exist, you'll get this error. For example, if a UPARTN module is using the Q-set, but the user hasn't used any Q set entries, this error will be issued. One remedy is to conditionally jump over the problem DMAP based on parameters such as NOQSET, NORSET, etc.
 This can also occur if inertia relief is not used properly in SOLs 91 or 101. Make sure that the rules stated in UM Vol 2 for inertia relief are followed.

This has also been observed in SOL 129 models with initially closed GAPs that specify the ADAPT method on the TSTEPNL entry. It can be avoided by specifying the AUTO method instead. See Error Report 3733.

3008   ***   SYSTEM FATAL MESSAGE 3008, INSUFFICIENT CORE AVAILABLE FOR SUBROUTINE ********.

This message implies that the particular subroutine does not have sufficient memory to meet its demands. The subroutine or module description should be consulted to determine the memory requirements.

Refer to Section 7.6 of the Application Manual for instructions to increase the memory for the run. If an increase in memory is desired for only the module producing the error, an alter must be included in the Executive section of the input file. An example of the alter is included below.

COMPILE DMAP=dmap,SOUIN=source $ source=MSCSOU or USRSOU ALTER # $ before module TYPE PARM,,I,N,MVAL $
MVAL = GETSYS(MVAL,57) PUTSYS(value1,57) $ value1=increased memory value ALTER # $ after module PUTSYS(MVAL,57) $
ENDALTER $

One cause observed for this in the Bulk Data SORT module is too many continuation entries. An

avoidance is to have the Bulk Data already sorted and to increase available memory. See Error Report 2925.

Also, large THRU ranges can cause excessive memory to be used.

3011 *** SYSTEM FATAL MESSAGE 3011, ATTEMPT TO WRITE A TRAILER ON FILE *** WHEN IT HAS BEEN PURGED.

The file did not exist in the FIST when WRTTRL was called.

3016 *** SYSTEM FATAL MESSAGE 3016, **** MATRIX IS NOT IN PROPER FORM IN SUBROUTINE ****.

This implies that the input matrix is not in the proper form of type acceptable to the subroutine. Check the trailer information on the matrix and the subroutine description for the discrepancy.

3018 *** SYSTEM FATAL MESSAGE 3018, MODULE ********, SEQUENCE NO. ***, REQUIREMENTS EXCEED AVAILABLE FILES.

Segment File Allocator (SFA) did not have sufficient logical files available to fill the request of the module. Reduce module requirements or increase the logical files within the computer system. See Section 5 of the NX Nastran Programmer's Manual.

3019 *** USER FATAL MESSAGE 3019, MAXIMUM LINE COUNT EXCEEDED IN SUBROUTINE **** LINE COUNT EQUALS ****.

The total number of lines written on the system output file has exceeded the set limit (default value is 100,000). To increase this value, include a card of the form "MAXLINES=n" in the Case Control Deck.

3030 *** USER WARNING MESSAGE 3030, OFP UNABLE TO PROCESS DATA BLOCK. ALTER IN A TABLE PRINT TO SEE DATA, OFP LOC CODE = ****.

The format of the file is unrecognized. This may be caused by an output request for an element for which formats are not defined.

3030*** USER WARNING MESSAGE 3030 (MACOFP) MACOFP UNABLE TO PROCESS DATA BLOCK. ALTER IN A TABLE PRINT TO SEE DATA MACOFP LOC CODE****

3031 *** USER FATAL MESSAGE 3031, UNABLE TO FIND SELECTED SET (****) IN TABLE (****) IN SUBROUTINE (****).

A particular set used in the problem was not included in the data. Good examples are loads, initial conditions, or frequency sets. Include the required data or change the Case Control commands to select data already in problem. Set zero (0) has a special meaning. A set selection was required but none was made. For example, no METHOD was selected for an eigenvalue extraction problem, or no FREQ was selected for frequency response.

This message can also indicate that a LOAD entry has referenced another LOAD entry, which is not permitted.

This can also occur if a DLOAD entry references a non-existing LOAD entry, e.g. RLOAD1.

3032 *** Same as Message 3031.
3033 *** USER FATAL MESSAGE 3033, SUBCASE ID **** IS REFERENCED ON ONE OR MORE RANDPS CARDS BUT IS NOT A CURRENT SUBCASE ID.

The RANDPS set selected can only reference subcase identification numbers included in the current loop. All subcases in which the direct input matrices or transfer functions do not change are run together. Either add a subcase with referenced identification number, change your RANDPS entries, or change the identification numbers on your current subcases.

3034   *   USER WARNING MESSAGE 3034, ORTHOGONALITY TEST FAILED. LARGEST TERM = ****, NUMBER FAILED = ***, PAIR = **, **, EPSILON = ***.**

This indicates that eigenvector accuracy is in doubt.

This message is printed only when the off-diagonal terms of the modal mass matrix are larger than the user input criteria on the EIGB or EIGR bulk data entry when the READ module is used, or larger than 1.0E-10 on the EIGRL entry when the REIGL module is used. The eigenvectors are not orthogonal to this extent. This nonorthogonality is especially important if a modal formulation is used. The pair of eigenvectors listed exhibit the worst behavior. The user can improve the numerical conditioning of the problem by reducing the range of mass ratios, stiffness ratios, and eigenvalue range.

3035   *   USER INFORMATION MESSAGE 3035, FOR DATA BLOCKS ********. SUPORT PT. NO. EPSILON STRAIN ENERGY EPSILONS LARGER THAN .001 ARE FLAGGED WITH ASTERISKS.**

One line of output is printed for each component on a SUPORT entry. Large values of either EPSILON or STRAIN ENERGY indicate errors in the constraints. See Section 3.3.6. See also Section 8.1.1 in the Handbook for Dynamic Analysis.

3036   *   SYSTEM FATAL MESSAGE 3036, DATA SET ********* IS REQUIRED AS INPUT BUT HAS NOT BEEN GENERATED OR PURGED.**
3037   *   SYSTEM FATAL MESSAGE 3037, JOB TERMINATED IN SUBROUTINE ****.**

This message designates the subroutine in which the program terminated. It should be preceded by a user message which explains the cause of the termination. The module in which the program terminated can be found by examining the log messages.

3040   *   SYSTEM FATAL MESSAGE 3040, ATTEMPT TO WRITE DATA SET **********(FILE ***) WHEN IT IS AN INPUT FILE.**

Input data blocks for a module (FILE NO. 101-199) may be read only.

3041   *   USER WARNING MESSAGE 3041, EXTERNAL GRID POINT *** DOES NOT EXIST OR IS NOT A GEOMETRIC GRID POINT. THE BASIC ORIGIN WILL BE USED.**

The reference grid point specified on the PARAM, GRDPNT entry for weight and balance calculations in GPWG cannot be used.

Possible causes include:
1. The referenced grid point does not exist.
2. In superelement analysis, if the referenced grid point is not either interior or exterior to the current superelement, this message is issued. If it is desired to use the listed grid point as a reference, then a CSUPEXT entry should be used to make it exterior to the superelement.

3042   *   USER WARNING MESSAGE 3042, INCONSISTENT SCALAR MASSES HAVE BEEN USED. EPSILON/DELTA = *****.**

The GPWG has detected inconsistent scalar masses. Direct masses have been used. Skew inertia's will result. Examine the scalar masses and CONM1 entry.

3043   *   USER FATAL MESSAGE 3043, UNCONNECTED EXTRA POINT (MODAL COORDINATE=***) HAS BEEN DETECTED BY SUBROUTINE ****.**

Extra points must be connected via Direct Matrix Input (or Transfer Functions) in modal transient or frequency response.

3044   *   USER FATAL MESSAGE 3044, A POINT ON NONLINEAR LOAD SET **** NOLIN **** IS NOT AN EXTRA POINT. ONLY EXTRA POINTS MAY HAVE NONLINEAR LOADS IN A MODAL FORMULATION.**

Modal transient analysis will support nonlinear loads only on extra points. Pick another nonlinear load set.

3045   *   USER WARNING MESSAGE 3045, INSUFFICIENT TIME TO COMPLETE THE REMAINING ** SOLUTION(S) IN MODULE ***.**

The estimated time for completion of the module is less than the time remaining, as specified on the Executive Control TIME statement. The module will compute one solution (for example, one excitation frequency in frequency response analysis) then process all output requests. The remaining frequencies can be obtained on restart by adding or changing a FREQ command.

3046   *   USER FATAL MESSAGE 3046, YOUR SELECTED LOADING CONDITION, INITIAL CONDITION, AND NONLINEAR FORCES ARE NULL. A ZERO SOLUTION WILL RESULT.**

Transient solutions must have one of the above nonzero.

Also, make sure that LOADSET is spelled correctly, in its entirety. See Error Report 3573.

3047   *   USER FATAL MESSAGE 3047, NO MODES WITHIN RANGE AND LMODES=0. A MODAL FORMULATION CANNOT BE MADE.**

The modes used for a modal formulation must be selected by a PARAM entry. Set LFREQ, HFREQ or LMODES to request modes.

3050   *   USER FATAL MESSAGE 3050, INSUFFICIENT TIME REMAINING FOR ****. TIME ESTIMATE IS **** SECONDS.**

The time estimate for execution of the named subroutine exceeds the time remaining as specified on the TIME statement.

3051   *   USER FATAL MESSAGE 3051, INITIAL CONDITION SET **** WAS SELECTED FOR A MODAL TRANSIENT PROBLEM. INITIAL CONDITIONS ARE NOT ALLOWED IN SUCH A PROBLEM.**

IC command is not allowed for modal problems.

3052   *   USER WARNING MESSAGE 3052, A RANDOM REQUEST FOR CURVE TYPE - **** -, POINT - **** COMPONENT - **** -, SPECIFIES TOO LARGE A COMPONENT ID. THE LAST COMPONENT WILL BE USED.**

Check Section 4 for component order.

3053   *   USER WARNING MESSAGE 3053, THE ACCURACY OF EIGENVALUE **** IS IN DOUBT. GIV/HOU QR FAILED TO CONVERGE IN **** ITERATIONS.**

Each eigenvalue is computed to the precision limits of each machine consistent with the maximum number of iterations allowed. A programming change would be required to increase the maximum iteration parameter.

3055   *   USER FATAL MESSAGE 3055, AN ATTEMPT TO MULTIPLY OR**

MULTIPLY AND ADD NON-CONFORMABLE MATRICES TOGETHER WAS MADE IN MODULE ****.**

The multiply/add subroutine requires conformable matrices. There are two possible equations   1. X = A*B + C   The number of columns of [A] must be equal to the number of rows of [B] the number of columns of [C] be equal to the number of columns of [B] and the number of rows of [C] must be equal to the number of rows of [A].

  2. X = A(T)*B + C

  The number of rows of [A] must be equal to the number of rows of [B] the number of columns of [C] must be equal to the number of columns of [B] and the number of rows of [C] must be equal to the number of columns of [A].

One cause of this is if the model in a cyclic symmetry analysis contains MPCs and only the zero harmonic is requested. This can be avoided by requesting an additional harmonic. See Error Report 3755.

3057   *   USER FATAL MESSAGE 3057, MATRIX **** IS NOT POSITIVE DEFINITE.**

A Cholesky decomposition was attempted on the above matrix, but a diagonal term of the factor was imaginary or equal to zero, such that the decomposition failed.

This message may be produced because of constraint problems. Check the output for UWM 4698 for large factor diagonal ratios and constrain appropriately.

3059   *   USER FATAL MESSAGE 3059, SET IDENTIFIER **** DOES NOT EXIST. ERROR DETECTED IN SUBROUTINE ****.**

When describing displacement matrices only those set identifiers (such as M or G) listed in DMAP module MATGPR are legal set names. Choose a set name which is legal (and describes the matrices to be operated on). See Section 1.4.

3060   *   USER FATAL MESSAGE 3060, SUBROUTINE ********* - OPTION **** NOT IN APPROVED LIST.**

This option is not authorized for your authorization code. Contact your UGS Remote Office Manager for the list of options available at your site. This option can be easily enabled with a contractual change on your present system and a new authorization code.

There may be a problem with the file that contains the authorization code.   Refer to Section 7.7 of the Application Manual for a description and use of the file.

3061   *   USER INFORMATION MESSAGE 3061, THE MEASURE OF NON-PLANARITY IS **** FOR ELEMENT NUMBER ********.**

The measure of non-planarity for isoparametric quadrilateral membrane elements is the distance from actual grid points to mean plane divided by the average length of the diagonals. This message is issued only when the absolute value of this measure is greater than .01.

3062   *   SYSTEM FATAL MESSAGE 3062, HMAT1 MATERIAL ROUTINE CALLED IN A NON-HEAT-TRANSFER PROBLEM.**

3070   *   USER WARNING MESSAGE 3070, QGE IS REQUIRED BY THIS MODULE AND IS PURGED. NO OUTPUT FILE HAS BEEN CREATED.**

3071   *   SYSTEM WARNING MESSAGE 3071, EXTRA DATA IN RADLST RECORD OF MATPOOL DATA BLOCK IGNORED.**

3072   *   USER WARNING MESSAGE 3072, TOO MANY MATRIX VALUES INPUT VIA RADMTX BULK DATA FOR COLUMN ********. EXTRA VALUES IGNORED AS MATRIX SIZE IS DETERMINED TO BE OF SIZE ******** FROM RADLST COUNT OF ELEMENT ID-S.**

3073   *   USER FATAL MESSAGE 3073, NO -HBDY- ELEMENT SUMMARY DATA IS PRESENT FOR ELEMENT ID = ********, WHICH APPEARS ON A -RADLST- BULK DATA CARD.**

3074   *   USER FATAL MESSAGE 3074, COLUMN ******** OF THE Y MATRIX IS NULL.**

3077   *   USER FATAL MESSAGE 3077, THERE IS NO GRID POINT TEMPERATURE OR DEFAULT TEMPERATURE DATA FOR SIL POINT ******** AND POSSIBLY OTHER POINTS.**

3078   *   USER FATAL MESSAGE 3078, NO GPTT DATA IS PRESENT FOR TEMPERATURE SET ********.**

3079   *   USER FATAL MESSAGE 3079, THERE ARE NO -HBDY- ELEMENTS PRESENT.**

3080   *   USER FATAL MESSAGE 3080, INTEGER VALUES OF EMISSIVITY ENCOUNTERED ********** ELEMENT ID = **********.**

3081   *   USER FATAL MESSAGE 3081, INCONSISTENT USET DATA DETECTED.**

Input matrices whose dimensions are inconsistent with the matrix sizes stored in the USET table have been detected. The usual cause is a restart that does not select the proper SE-type Case Control commands.

Try an SEALL=ALL restart

3082   *   USER WARNING MESSAGE 3082, M = **********, N = **********.**

An illegal (for non-linear heat transfer) MPC has been chosen. The only legal type is of the form um - un = 0. The term associated with the m,n indices given in the messages is ignored.

3083   *   USER FATAL MESSAGE 3083, UM POSITION = **********, SIL = **********.**

An illegal (for non-linear heat transfer) MPC has been chosen. The only legal type is of the form um - un = 0. For the um indicated in the message, there is no un.

3084   *   USER FATAL MESSAGE 3084, THERE IS NO TEMPERATURE DATA FOR SIL NUMBER **********.**

Temperatures must be supplied for all grids. The TEMPD bulk data entry is recommended.

3085   *   USER FATAL MESSAGE 3085, THE PF LOAD VECTOR IS EITHER PURGED OR NULL.**

Some type of heat excitation on an independent degree of freedom is required. The solution of a problem with no loads would be zero.

3086   *   USER INFORMATION MESSAGE 3086, ENTERING SSGHT EXIT MODE BY REASON NUMBER **.**

Followed by additional text associated with the reason number from the following list:

1. CONVERGENCE   2. MAXIMUM ITERATIONS   3. UNSTABLE ITERATION
4. INSUFFICIENT TIME   5. MAXIMUM CONVERGENCE See Section 8.4 of the Theoretical Manual for additional information. See also Section 1.8.6 of this manual.

3088   *   USER FATAL MESSAGE 3088, ILLEGAL GEOMETRY FOR HBDY ELEMENT ****.**

Possible error on grid card or connection card.

3093   *   SYSTEM FATAL MESSAGE 3093, ELEMENT = ******** REASON = ******.**

1. Less than 2 points have been referenced.

2. Unable to locate SIL value.

3. Unrecognized form for element   4. Illegal number of points for this form of the element.

5. Illegal number of points for this form of the element.

3094   *   SYSTEM FATAL MESSAGE 3094, SLT LOAD TYPE ************ IS NOT RECOGNIZED.**

A new load type was added to SLT but not to subroutine SSGSLT.

3095   *   USER WARNING MESSAGE 3095, (SSGSLT-1) ELEMENT TYPE *** WITH ID = **********, REFERENCED BY A QVOL CARD IN LOAD SET ********, IS NOT BEING USED FOR INTERNAL HEAT GENERATION IN THIS LOAD SET BECAUSE ANOTHER ELEMENT WITH THE SAME ID, HAS ALREADY BEEN PROCESSED.**

Element ID's should be unique but the same ID was used for two different element types.

3096   *   USER FATAL MESSAGE 3096, ELEMENT ID = ********* AS REFERENCED ON A QVOL, QBDY1, QBDY2, OR QVECT LOAD CARD COULD NOT BE FOUND AMONG ACCEPTABLE ELEMENTS FOR THAT LOAD TYPE.**

QBDY1, QBDY2 or QVECT entries can only point to CHBDY elements. QVOL can only point to legal heat transfer elements. See Section 1.8 for the list.

3097   *   USER FATAL MESSAGE, DECOMPOSITION ABORTED BECAUSE THE FOLLOWING COLUMN IS NULL XX.**

The user can avoid this message by using the DECOMP=16 statement to continue with the zero column. (This is set by setting SYSTEM(69)=16 or via DMAP.) This puts 1.0 on the diagonal of the null column. See Chapter 4 in the V67 Numerical Methods User's Guide.

3100   *   USER WARNING MESSAGE 3100, ELEMENT THERMAL LOAD COMPUTATION FOR QDMEM2 ELEMENT ID = ******. FINDS ILLEGAL GEOMETRY THUS NO LOADS OUTPUT FOR ELEMENT-ID NOTED.**

3101   *   USER WARNING MESSAGE 3101, SINGULARITY OR BAD GEOMETRY FOR QDMEM2 ELEMENT ID = ******. STRESS OR FORCES WILL BE INCORRECT.**

3103   *   USER WARNING MESSAGE 3103, EMGCOR OF EMG MODULE FINDS EITHER OF DATA BLOCKS *** OR *** ABSENT AND THUS ****. MATRIX WILL NOT BE FORMED.**

3104   *   SYSTEM FATAL MESSAGE 3104, EMGCOR FINDS EST (ASSUMED DATA BLOCK ***) MISSING. EMG MODULE COMPUTATIONS THUSLY LIMITED.**

3112   *   USER INFORMATION MESSAGE 3112, ELEMENTS CONGRUENT TO ELEMENT ID = ****** WILL BE RE-COMPUTED AS THERE IS INSUFFICIENT CORE AT THIS MOMENT TO HOLD DICTIONARY DATA.**

3118   *   USER FATAL MESSAGE 3118 (RODD-1), ROD ELEMENT WITH ID = ****** HAS ILLEGAL GEOMETRY OR CONNECTIONS. LOC CODE = ***

3200   *   SYSTEM FATAL MESSAGE 3200, LOGIC ERROR DETECTED BY SUBROUTINE ******   ****** = LOCATE CODE OR VALUE.**

3203   *   USER FATAL MESSAGE 3203, AN ILLEGAL VALUE OF -NU- HAS**

BEEN SPECIFIED UNDER MATERIAL ID ****** FOR ELEMENT ID ********.**

Plate elements must not have Poisson's ratio equal to + 1.0 or -1.0. Solid elements must not have Poisson's ratio equal to +0.5 or -1.0.

3204   *   USER WARNING MESSAGE 3204, UNABLE TO FIND SELECTED SET **** IN TABLE SLT IN SUBROUTINE **** A load set ID referenced either in Case Control or on a LOAD Bulk Data entry does not exist for the structure or for the current superelement.**

This message can also indicate that a LOAD Bulk Data entry has referenced another LOAD Bulk Data entry, which is not permitted. Remove the ID of the non-existent LOAD from the Bulk Data entry.

3300   *   SYSTEM WARNING MESSAGE 3300, INVALID PARAMETER **** **** SUPPLIED TO MODULE DIAGONAL, COLUMN SUBSTITUTED.**

4000   *   USER WARNING MESSAGE 4000, ONE SIDE OF ELEMENT ******** CONNECTING FOUR POINTS IS NOT APPROXIMATELY PLANAR.**

Check CHEXAi entries for order of grid point identification numbers or incorrect grid point identification numbers.

Error Messages 4001-5000

4001   *   USER FATAL MESSAGE 4001, ELEMENT ********* DOES NOT HAVE CORRECT GEOMETRY.**

Possible error on grid entry or connection entry.

4002   *   USER FATAL MESSAGE 4002, MODULE SSG1 DETECTS BAD OR REVERSED GEOMETRY FOR ELEMENT ID ********.**

Check CHEXAi entries for order of grid point identification numbers or incorrect grid point identification numbers. Subtetrahedra must have nonzero volume.

4003   *   USER FATAL MESSAGE 4003, AN ILLEGAL VALUE OF -NU- HAS BEEN SPECIFIED UNDER MATERIAL ID =, ******** FOR ELEMENT ID =, ********.**

Solid TETRA elements must not have Poisson's ratio equal to 0.5.

4004   *   USER FATAL MESSAGE 4004, MODULE SMA1 DETECTS BAD OR REVERSED GEOMETRY FOR ELEMENT ID ********.**

Check CHEXAi entries for order of grid point identification numbers or incorrect grid point identification numbers. Subtetrahedra must have nonzero volume.

4005   *   USER WARNING MESSAGE 4005, AN ILLEGAL VALUE OF -NU- HAS BEEN SPECIFIED UNDER MATERIAL ID=******** FOR ELEMENT=******** NU=0.333 ASSUMED FOR STRESS COMPUTATION.**

4010   *   USER FATAL MESSAGE 4010, TEMPP3 BULK DATA CARD WITH SETID = ********* AND ELEMENT ID = ********* DOES NOT HAVE ASCENDING VALUES SPECIFIED FOR Z.**

See TEMPP3 entry description in Section 2.4.

4011   *   USER FATAL MESSAGE 4011, ELEMENT TEMPERATURE SET ******** CONTAINS MULTIPLE TEMPERATURE DATA SPECIFIED FOR ELEMENT ID ********.**

Temperature for element is specified on more than one bulk data card.

4012   *   USER WARNING MESSAGE 4012, THERE IS NO ELEMENT, GRID POINT, OR DEFAULT TEMPERATURE DATA FOR TEMPERATURE SET ******** WITH RESPECT TO ELEMENT ********.**

Required temperature data is probably missing from the Bulk Data. Check for TEMPD or for TREF on the MAT1 entry.

4013   *   USER FATAL MESSAGE 4013, PROBLEM LIMITATION OF 66 TEMPERATURE SETS HAS BEEN EXCEEDED.**

Remove some TEMPij from the Bulk Data.

4015   *   SYSTEM WARNING MESSAGE 4015, ELEMENT THERMAL AND DEFORMATION LOADING NOT COMPUTED FOR ILLEGAL ELEMENT TYPE ******** IN MODULE SSG1.**

Only certain elements have algorithms for enforced deformation or thermal loads. This element type will not produce a load. Check DEFORM, TEMPP1, TEMPP3 and TEMPRB Bulk Data entries.

4016   *   USER FATAL MESSAGE 4016, THERE IS NO TEMPERATURE DATA FOR ELEMENT ******** IN SET ********.**

Required temperature data is probably missing from Bulk Data.

4017   *   USER FATAL MESSAGE 4017, THERE IS NO TEMPERATURE DATA FOR ELEMENT ******** IN SET ********.**

Required temperature data is probably missing from Bulk Data.

4018   *   USER FATAL MESSAGE 4018, A SINGULAR MATERIAL MATRIX -D- FOR ELEMENT ******** HAS BEEN DETECTED BY ROUTINE SSGKHI WHILE TRYING TO COMPUTE THERMAL LOADS WITH TEMPP2 CARD DATA.**

The element bending load - curvature relation is at fault and cannot be inverted.

4019   *   SYSTEM FATAL MESSAGE 4019, SDR2E DETECTS INVALID TEMPERATURE DATA FOR ********.**

Data block table GPTT (ETT) should be investigated.

4020   *   SYSTEM FATAL MESSAGE 4020, TA1A HAS PICKED UP TEMPERATURE SET ******** AND NOT THE REQUESTED SET ********.**

The requested temperature set ID for temperature dependent material properties cannot be found in data block GPTT.

4023   *   USER FATAL MESSAGE 4023, TA1A FINDS NO ELEMENT, GRID POINT, OR DEFAULT TEMPERATURE DATA FOR ELEMENT ID = ********.**

Required temperature data is probably missing from Bulk Data.

4024   *   USER FATAL MESSAGE 4024, NO CYJOIN CARDS WERE SUPPLIED.**

CYJOIN entries are required in cyclic symmetry problems to define the boundary points.

4025   *   USER FATAL MESSAGE 4025, NO SIDE 1 DATA FOUND.**

See CYJOIN entry description in Section 2.4.

4026   *   USER FATAL MESSAGE 4026, TOO MANY SIDE 1 CARDS.**

Only one Side 1 entry is permitted.

4027   *   USER FATAL MESSAGE 4027, NUMBER OF ENTRIES IN SIDE 1 NOT EQUAL TO NUMBER IN SIDE 2.**

Number of boundary points on Side 1 must be the same as on Side 2.

4028   *   USER FATAL MESSAGE 4028, THE CODE FOR GRID POINT, ********* DOES NOT MATCH THE CODE FOR GRID POINT *********.**

4029   *   USER FATAL MESSAGE 4029, GRID POINT, ********* APPEARS ON BOTH SIDE LISTS.**

A grid point cannot be on both Side 1 and Side 2.

4030   *   USER WARNING MESSAGE 4030, COMPONENT *** OF GRID POINTS, ********* AND ********* CANNOT BE CONNECTED.**

4031   *   USER FATAL MESSAGE 4031, INSUFFICIENT CORE = **** TO READ DATA ON AXIF CARD.**

Additional main memory required.

4032   *   USER WARNING MESSAGE 4032, NO COMPONENTS OF GRID POINTS, ********* AND ********* WERE CONNECTED.**

$$$$$$$$$$$$$$$$$$

4033   *   USER FATAL MESSAGE 4033, COORDINATE SYSTEM ID = **** AS SPECIFIED ON AXIF CARD IS NOT PRESENT AMONG ANY OF CORD1C, CORD1S, CORD2C, OR CORD2S CARD TYPES.**

Cylindrical type assumed for continuing data check.

4034   *   USER FATAL MESSAGE 4034, INSUFFICIENT CORE = **** TO HOLD GRIDB CARD IMAGES.**

Additional main memory required.

4035   *   USER FATAL MESSAGE 4035, THE FLUID DENSITY HAS NOT BEEN SPECIFIED ON A BDYLIST CARD AND THERE IS NO DEFAULT FLUID DENSITY SPECIFIED ON THE AXIF CARD.**

Required information missing from Bulk Data.

4036   *   USER FATAL MESSAGE 4036, INSUFFICIENT CORE TO BUILD BOUNDARY LIST TABLE.**

Additional main memory required.

4037   *   USER FATAL MESSAGE 4037, GRID POINT ********** IS LISTED MORE THAN ONCE.**

The referenced grid point cannot be specified more than once on a CYJOIN entry.

4038   *   USER FATAL MESSAGE 4038, RINGFL CARD HAS ID = **** WHICH HAS BEEN USED.**

An identification number of a RINGFL entry is not unique.

4040   *   USER FATAL MESSAGE 4040, ID = **** APPEARS ON A BDYLIST CARD, BUT NO RINGFL CARD IS PRESENT WITH THE SAME ID.**

All entries on BDYLIST card must be defined on a RINGFL entry.

4041   *   USER FATAL MESSAGE 4041, ID = **** IS OUT OF PERMISSIBLE RANGE OF 1 TO 499999.**

The identification number of a RINGFL is too large to be processed.

4042   *   USER FATAL MESSAGE 4042, COORDINATE SYSTEM IS CYLIN-**

DRICAL BUT RINGFL CARD ID = **** HAS A NONZERO X2 VALUE.

The azimuthal angle of a RINGFL point must be zero.

4043   ***   USER FATAL MESSAGE 4043, COORDINATE SYSTEM IS SPHER-ICAL BUT RINGFL CARD ID = **** HAS A NONZERO X3 VALUE.

4044   ***   USER FATAL MESSAGE 4044, RINGFL CARD ID = **** HAS SPEC-IFIED A ZERO RADIAL LOCATION.

Fluid points cannot be located on the axis of symmetry.

4045   ***   USER FATAL MESSAGE 4045, THE BOUNDARY LIST ENTRY FOR ID = **** HAS A ZERO CROSS-SECTIONAL LENGTH.

A hydroelastic boundary can not be defined between two RINGFL points having the same location. Check BDYLIST and RINGFL entries.

4047   ***   USER FATAL MESSAGE 4047, INSUFFICIENT CORE TO HOLD RINGFL IMAGES.

Additional main memory required.

4048   ***   USER FATAL MESSAGE 4048, THE FLUID DENSITY HAS NOT BEEN SPECIFIED ON A FSLIST CARD AND THERE IS NO DEFAULT FLUID DENSITY SPECIFIED ON THE AXIF CARD.

Required information missing from Bulk Data.

4049   ***   USER FATAL MESSAGE 4049, INSUFFICIENT CORE TO BUILD FREE SURFACE LIST TABLE.

Additional main memory required.

4050   ***   USER FATAL MESSAGE 4050, FSLIST CARD HAS INSUFFICIENT IDF DATA, OR FSLIST DATA MISSING.

A referenced RINGFL point doesn't exist or the FSLIST entry is in error. At least two points must be defined.

4051   ***   USER FATAL MESSAGE 4051, AN MPC CARD HAS A SET ID SPECIFIED = 102. SET 102 IS ILLEGAL WHEN FLUID DATA IS PRESENT.

This set identification number is reserved for internal use in hydroelastic problems.

4052   ***   USER FATAL MESSAGE 4052, IDF = **** ON A FREEPT CARD DOES NOT APPEAR ON ANY FSLIST CARD.

A referenced RINGFL point must also appear on a FSLIST entry.

4053   ***   USER FATAL MESSAGE 4053, INSUFFICIENT CORE TO PER-FORM OPERATIONS REQUIRED AS A RESULT OF FREEPT OR PRESPT DATA CARDS.

4055   ***   USER FATAL MESSAGE 4055, SET ID = 102 MAY NOT BE USED FOR SPC CARDS WHEN USING THE HYDROELASTIC-FLUID ELEMENTS.

This set identification number is reserved for internal use in hydroelastic problems.

4056   ***   USER FATAL MESSAGE 4056, RECORD ID **** **** IS OUT OF SYNC ON DATA BLOCK NUMBER **** AN IFP4 SYSTEM ERROR.

The record identification numbers are the values of LOCATE record ID. The data block numbers are the GINO file numbers. Error implies that IFP4 is possibly operating on the wrong data block. This system error should not occur. Message comes from IFP4B.

4057   ***   USER FATAL MESSAGE 4057, GRIDB CARD WITH ID = **** HAS A

REFERENCE IDF = **** WHICH DOES NOT APPEAR IN A BOUNDARY LIST.

GRIDB points must be in the fluid boundary.

4058   ***   USER FATAL MESSAGE 4058, THE FLUID DENSITY HAS NOT BEEN SPECIFIED ON A CFLUID CARD WITH ID = **** AND THERE IS NO DEFAULT ON THE AXIF CARD.

Required data missing from the Bulk Data Section.

4059   ***   USER FATAL MESSAGE 4059, THE FLUID BULK MODULUS HAS NOT BEEN SPECIFIED ON A CFLUID CARD WITH ID = **** AND THERE IS NO DEFAULT ON THE AXIF CARD.

Required data missing from the Bulk Data Section.

4060   ***   SYSTEM FATAL MESSAGE 4060, COORDINATE SYSTEM = **** CANNOT BE FOUND IN CSTM DATA.

Data blocks MATPOOL or CSTM have been changed illegally.

4061   ***   SYSTEM FATAL MESSAGE 4061, CONNECTED FLUID POINT ID = **** IS MISSING BGPDT DATA.

Data blocks MATPOOL or BDPDT have been changed illegally.

4062   ***   USER FATAL MESSAGE 4062, DMIG BULK DATA CARD SPECI-FIED DATA BLOCK **** WHICH ALSO APPEARS ON A DMIAX CARD.

One direct input matrix may not be specified by both types of bulk data entries.

4081   ***   USER FATAL MESSAGE 4081, AXSLOT DATA CARD IS NOT PRESENT OR IS INCORRECT.

Acoustic analysis data is present and this entry is necessary.

4082   ***   USER FATAL MESSAGE 4082, INSUFFICIENT CORE TO HOLD ALL GRID CARD IMAGES.

Executive Module IFP5 must hold this data in core. Increase core size or decrease amount of data.

4083   ***   USER FATAL MESSAGE 4083, INSUFFICIENT CORE TO HOLD ALL GRIDF CARD IMAGES.

Executive Module IFP5 must hold this data in core. Increase core size or decrease amount of data.

4084   ***   USER FATAL MESSAGE 4084, INSUFFICIENT CORE TO HOLD ALL GRIDF CARD IMAGES BEING CREATED INTERNALLY DUE TO GRIDS CARDS SPECIFYING AN IDF.

Executive Module IFP5 is creating GRIDF entries from GRIDS entries. Increase core size.

4085   ***   USER FATAL MESSAGE 4085, INSUFFICIENT CORE TO CON-STRUCT ENTIRE BOUNDARY TABLE FOR SLBDY DATA CARDS.

Executive Module IFP5 requires five words of core for each entry in the SLBDY entries.

4086   ***   USER FATAL MESSAGE 4086, CELAS2 DATA CARD HAS ID = *** WHICH IS GREATER THAN 10000000, AND 10000000 IS THE LIMIT FOR CELAS2 ID WITH ACOUSTIC ANALYSIS DATA CARDS PRESENT.

Subroutine IFP5 is generating CELAS2 entries and a possible conflict of ID numbers exists.

4087   ***   USER FATAL MESSAGE 4087, SLBDY ID = *** DOES NOT

APPEAR ON ANY GRIDS DATA CARD.

The SLBDY entry has a point listed which does not exist in the data.

4088 * USER FATAL MESSAGE 4088, ONE OR MORE OF THE FOLLOW-ING ID-S NOT EQUAL TO -1 HAVE INCORRECT OR NO GEOMETRY DATA.**
ID = ***, ID = ***, ID = ***.

The listed GRIDS points may have a bad radius or a slot width greater than geometrically possible.

4089 * USER FATAL MESSAGE 4089, RHO AS SPECIFIED ON SLBDY OR AXSLOT DATA CARD IS 0.0 FOR ID = ***.**

A value of density is required to formulate the slot boundary matrix terms.

4090 * USER FATAL MESSAGE 4090, ONE OF THE FOLLOWING NON-ZERO IDENTIFICATION NUMBERS APPEARS ON SOME COMBINATION GRID, GRIDS, OR GRIDF BULK DATA CARDS. ID = ***, ID = ***, ID = ***.**

All GRID, SPOINT, EPOINT, GRIDS, and GRIDF data entries should have unique identification numbers.

4091 * USER FATAL MESSAGE 4091, BAD GEOMETRY OR ZERO COEF-FICIENT FOR SLOT ELEMENT NUMBER ***.**

The listed CSLOT3 or CSLOT4 element has its connected points defining zero area or its density equal to zero.

4101 * SYSTEM FATAL MESSAGE 4101, MATPCH UNABLE TO FIND NAME FOR DATA BLOCK ****************.**

4103 * USER INFORMATION MESSAGE 4103, MATPCH HAS PUNCHED MATRIX DATA BLOCK ******** ONTO DMI CARDS.**

4104 * USER FATAL MESSAGE 4104, ATTEMPT TO PUNCH MORE THAN 9999 DMI CARDS FOR A SINGLE MATRIX.**

4105 * USER INFORMATION MESSAGE 4105, DATA BLOCK ******** RETRIEVED FROM USER TAPE **** NAME OF DATA BLOCK WHEN PLACED ON USER TAPE WAS ********.**

As each block is retrieved, its new and old names are printed. Check to be sure your tape/DMAP are together.

4108 * SYSTEM FATAL MESSAGE 4108, SUBROUTINE INPTT2 UNABLE TO OPEN OUTPUT DATA BLOCK ****.**

4109 * USER INFORMATION MESSAGE 4109 (OUTPX2), THE LABEL IS **** FOR FORTRAN UNIT **** (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN =**** WORDS.) (NUMBER OF FORTRAN RECORDS WRITTEN =**** RECORDS.) (TOTAL DATA WRITTEN FOR TAPE LABEL =**** WORDS.)**

4110 * USER INFORMATION MESSAGE 4110 (OUTPX2), END-OF-DATA SIMULATION ON FORTRAN UNIT **** (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN =**** WORDS.) (NUMBER OF FORTRAN RECORDS WRITTEN =**** RECORDS.) (TOTAL DATA WRITTEN FOR EOF MARKER =**** WORDS.)**

4113 * USER FATAL MESSAGE 4113, (****) MODULE **** - ILLEGAL VALUE FOR FIRST PARAMETER = ******************.**

See Section 5.4.

4114 * USER INFORMATION MESSAGE 4114, DATA BLOCK ******** WRITTEN ON NASTRAN FILE ****, TRL = ***********.**

This message is issued for each nonpurged data block as it is written.

4115   ***   SYSTEM FATAL MESSAGE 4115, MODULE OUTPUT1 - SHORT REC.

4116   ***   SYSTEM FATAL MESSAGE 4116, SUBROUTINE OUTPT2 UNABLE TO OPEN INPUT DATA BLOCK *****.

4120   ***   USER FATAL MESSAGE 4120, MODULE OUTPUT2 - ILLEGAL VALUE FOR FIRST PARAMETER = ******************.

See Section 5.

4121   ***   USER FATAL MESSAGE 4121, ONLY ONE (1) AXIF CARD ALLOWED IN BULK DATA.

See Bulk Data Description in Section 2.4.

4122   ***   USER FATAL MESSAGE 4122, AXIF CARD REQUIRED.

See Bulk Data Description in Section 2.4.

4123   ***   USER FATAL MESSAGE 4123, ONLY ONE (1) FLSYM CARD ALLOWED IN BULK DATA.

See Bulk Data Description in Section 2.4.

4124   ***   USER WARNING MESSAGE 4124, THE SPCADD OR MPCADD UNION CONSISTS OF A SINGLE SET.

Only one SET was on an SPCADD or MPCADD entry. There are no sets to add together.

4125   ***   USER FATAL MESSAGE 4125, MAXIMUM ALLOWABLE HARMONIC ID IS 99. DATA CONTAINS MAXIMUM = ****.

See Bulk Data Description in Section 2.4.

4126   ***   USER FATAL MESSAGE 4126, BAD DATA OR FORMAT OR NON-UNIQUE NAME, DMIAX ****.

See Bulk Data Description in Section 2.4.

4130   ***   USER FATAL MESSAGE 4130, MODULE OUTPUT2 - ILLEGAL TAPE CODE HEADER = *****************.

4131   ***   USER WARNING MESSAGE 4131, USER TAPE ID CODE - ******** - DOES NOT MATCH THIRD OUTPUT2 DMAP PARAMETER - ********.

4134   ***   USER FATAL MESSAGE 4134, MODULE INPUTT2 - ILLEGAL TAPE CODE HEADER = *****************.

4135   ***   USER WARNING MESSAGE 4135, USER TAPE ID CODE - ******** DOES NOT MATCH THIRD INPUTT2 DMAP PARAMETER - ********.

4136   ***   USER FATAL MESSAGE 4136, USER TAPE ID CODE - ******** - DOES NOT MATCH THIRD INPUTT2 DMAP PARAMETER - ********.

4137   ***   USER WARNING MESSAGE 4137, ALL OUTPUT DATA BLOCKS FOR INPUTT2 ARE PURGED.

4138   ***   USER WARNING MESSAGE 4138, DATA BLOCK ******** (DATA BLOCK COUNT = ***** HAS PREVIOUSLY BEEN RETRIEVED FROM USER TAPE **** AND WILL BE IGNORED.

4139   ***   USER INFORMATION MESSAGE 4139, DATA BLOCK ******** RETRIEVED FROM USER TAPE **** (DATA BLOCK COUNT = *****).

4140   ***   USER WARNING MESSAGE 4140, SECONDARY VERSION OF DATA BLOCK HAS REPLACED EARLIER ONE.

4141   ***   USER WARNING MESSAGE 4141, ONE OR MORE DATA BLOCKS NOT FOUND ON USER TAPE.

4142   ***   USER FATAL MESSAGE 4142, ONE OR M/RE DATA BLOCKS NOT FOUND ON USER TAPE.

4143   ***   SYSTEM FATAL MESSAGE 4143, SEMAP DATA BLOCK WAS

GENERATED ON A PRIOR RELEASE. IT MUST BE REGENERATED ON THIS RELEASE.

Format of SEMAP was changed between releases. Execute SEP1 in order to generate a new SEMAP.

4148 * USER INFORMATION MESSAGE 4148, CSUPER, *****, HAS BEEN WRITTEN ON UNIT, ***, NUMBER OF CARD IMAGES = ****.**

This message indicates the number of CSUPER entries punched by the TABPRT module.

4149 * USER WARNING MESSAGE 4149, MORE THAN 1000 CARD IMAGES ENCOUNTERED IN PUNCHING CSUPER, *****, ON UNIT, ***, ONLY 1000 WERE PUNCHED.**

An attempt has been made to punch more than 1000 CSUPER entries (8000 grid points on the boundary).

4152 * USER FATAL MESSAGE 4152, DUPLICATE ENFORCED DIS-PLACEMENT ON (SPC/SPCD) CARD. EXTERNAL ID = ***** DOF = ***** VALUE *****.**

An SPC with a nonzero enforced displacement value has been duplicated.

4153 * USER INFORMATION MESSAGE 4153, FBS METHOD 2 TIME ESTIMATE TO FORM ******** IS *** CPU = *** I/O= *** TOTAL= PASSES=***.**

I/O seconds are equivalent to CPU seconds based on the estimated number of blocks to be transferred between main and secondary storage and the blocks per second rate. Seconds printed is the sum of CPU and I/O. This message is printed when the time estimate is greater than the contents of SYSTEM(20).

4154 * USER WARNING MESSAGE 4154, SEELT CARD REFERENCED UNDEFINED SUPERELEMENT ***, ELEMENT ASSIGNMENTS ARE IGNORED.**

Element reassignment specified by SEELT entry not possible because superelement specified does not exist.

4155 * USER WARNING MESSAGE 4155, GRID POINTS FOR ******** SECONDARY SUPERELEMENT **** ARE COLINEAR. CONFORMITY CHECKS NOT MADE.**

4156 * USER FATAL MESSAGE 4156, DIMENSIONS OR TYPE OF DATA BLOCK, ********, SUPERELEMENT, ********, TRAILER=(,****************) ARE INCONSISTENT WITH SUPERELEMENT MAP.**

The referenced superelement matrix is not consistent with the new superelement map. Request SEALL for the superelement.

4157 * USER INFORMATION MESSAGE 4157, PARAMETERS FOR SYM-METRIC/CHOLESKY DECOMPOSITION OF dbname (TYPE=***) FOLLOW.**

MATRIX SIZE = ** ROWS   CPU TIME ESTIMATE = ** SEC ADDITIONAL MEMRY = ** WORDS   PASSIVE COLUMNS = ** GROUPS ACTIVVE COLUMNS = ** MAX   PASSIVE COLUMNS = ** MAX ACTIVE COLUMNS = ** RMS   PASSIVE COLUMNS = ** AVG SPILL = ** GROUPS   I/O TIME ESTIMATE   = ** SEC SPILL ROWS = ** AVG   NZ NBR IN FACTOR = ** TERMS FACTOR STRING LGTH = ** AVG   FACTOR BANDWIDTH = ** AVG
This information is useful in optimizing the performance of your run.When spill is indicated, the model is too large to fit into memory. The job may run faster by increasing the available memory (this will decrease the number of spill groups).

See Section 7.5.1 of the NX Nastran Application Manual for a description of these terms. See also Chapter 4 in the V67 Numerical Methods User's Guide.

4157   ***   USER INFORMATION MESSAGE 4157, PARAMETERS FOR SPARSE DECOMPO-SITION OF DATA BLOCK *** (TYPE=***) FOLLOW.

MATRIX SIZE = ** ROWS   NUMBER OF NONZEROES = ** TERMS NUMBER OF ZERO COLUMNS = *   NUMBER OF ZERO DIAGONAL TERMS = * CPU TIME ESTI-MATE = * SEC   I/O TIME ESTOMATE = * SEC ESTIMATED MEMORY REQUIRE-MENT = * K WORDS   MEMORY AVAILABLE = * K WORDS EST. INTEGER WORDS IN FACTOR = * K WORDS   EST. NONZERO TERMS = * K TERMS ESTIMATED MAXIMUM FRONT SIZE = * TERMS

See Section 7.5.1 of the NX Nastran Application Manual for a description of these terms. See also Chapter 4 in the V67 Numerical Methods User's Guide. This message is issued in the .F04 file, prior to decomposition. Message 6439 is issued in the .F04 file, after decomposition. Memory estimates may not be conservative, especially prior to Version 67.5.

See also Chapter 4 in the V67 Numerical Methods User's Guide.

4157A   *** USER INFORMATION MESSAGE 4157A ---ACTUAL MEMORY AND DISK SPACE REQUIREMENTS FOR SPARSE SYM. DECOMPOSITION   MEMORY REQUIRED = ***K WORDS   MEMORY AVAILABLE = ***K WORDS   INTEGER WORDS IN FACTOR = ***K WORDS   NONZERO TERMS IN FACTOR = ***K TERMS This message is issued when exe-cuting the sparse DECOMP module with reduced memory requirements. It provides the actual memory and disk space requirements for the decomposition phase of the sparse solver. Addi-tional memory may be required in the FBS phase, which follows the decomposition phase.

See Chapter 4 in the V67 Numerical Methods User's Guide.

4158   ***   USER INFORMATION MESSAGE 4158, STATISTICS FOR SYM-METRIC/CHOLESKY DECOMPOSITION OF dbname FOLLOW.

NUMBER OF NEGATIVE TERMS ON FACTOR DIAGONAL = ** MAXIMUM RATIO OF MATRIX DIAGONAL TO FACTOR DIAGONAL = ** AT ROW NUMBER ** NUMBER OF ROWS WRITTEN TO SPILL FILE = **, RATIO = ** One, two or three of the statistics will be printed as follows: (1) negative terms on factor diagonal only if they exist; (2) maximum ratio only if it exceeds a thresh-old defined by the parameter MAXRATIO (default 1.0E8);
(3) spill rows only if the problem spills.

Depending on the context, these messages may indicate modeling problems. The threshold may be changed with the parameter MAXRATIO, however the user is cautioned against arbitrarily increasing the MAXRATIO value just to get the model to run. The cause of large MAXRATIOs should be investigated.

This message is also generated (though the text is slightly different) when a Sturm check is per-formed during eigenvalue extraction. For this case, the message does not generally indicate a modeling problem.

4179   ***   USER FATAL ERROR 4179, TABLE **** CONTAINS NONUNIQUE

DOWNSTREAM ID-S *** AND *** FOR SUPERELEMENT***.

4180   *   USER FATAL MESSAGE 4180, NUMBER OF GENERALIZED COORDINATES REQUIRED IS ****, ONLY **** GENERALIZED COORDINATES AVAILABLE.**

An insufficient number of generalized coordinates has been specified by the user on the DYNRED Bulk Data entry.

4181   *   USER INFORMATION MESSAGE 4181, NUMBER OF ROOTS BELOW **** CYCLES IS ****. NUMBER OF GENERALIZED COORDINATES SET TO ****.**

The message specifies the number of generalized coordinates as determined by the program.

The number of generalized coordinates chosen (if autoselection is used) is the minimum of the following quantities:

   1. 1.5 times the number of natural frequencies below FMAX, rounded up to the next integer multiple of the number of initial random vectors.

   2. The number of non-zero columns of the matrix.

If there are any natural frequencies below FMAX, a minimum of NIRV (from the DYNRED entry) generalized coordinates is always provided. If FMAX is below all natural frequencies and there are no physical degrees of freedom in the a-set, User Fatal Message 4683 will result.

4182   *   USER FATAL ERROR 4182, TABLE name REFERENCES UNDE-FINED SUPERELEMENT ***.**

4183   *   USER WARNING MESSAGE 4183, TABLE **** DID NOT SPECIFY DOWNSTREAM CONNECTION FOR THE FOLLOWING SUPERELEMENTS. R.S. ASSUMED.**

4185   *   USER FATAL ERROR 4185, TABLE **** SPECIFIES CLOSED SUPERELEMENT CONNECTIVITY LOOP BEGINNING WITH SUPERELE-MENT ***.**

   SE ID   DOWNSTREAM ID   ***   ***   ***   ***

4192   *   SYSTEM FATAL ERROR 4192, GRID POINT *** IN SUPERELE-MENT *** IS NOT DEFINED IN EQEXIN FOR DOWNSTREAM SUPERELE-MENT ***.**

There are two probable causes for the failure: (1) User has made some changes to the geometry for the superelement and has not regenerated the SEMAP data block (or has fetched an incorrect version of SEMAP from the database); or (2) a programming logic error exists in SEP2 in prepar-ing the data block subsets.

4193   *   USER WARNING MESSAGE 4193, A GRID AND COMPONENT SPECIFICATION ON A (DPHASE/DELAY) SID = **, DOES NOT APPEAR ON A DAREA CARD.**

The area specification will be set to zero.

4194   *   USER FATAL MESSAGE 4194, ***** ELEMENT ******** HAS ILLE-GAL GEOMETRY DUE TO DEFORMATIONS.**

4196   *   USER WARNING MESSAGE 4196, POINT ID = ************ .GE.******* (MESSAGE NOT REPEATED FOR ANY OTHER SUCH POINTS).**

The indicated point ID is greater than the maximum allowed. Only one such message is printed.

4197   *   USER WARNING MESSAGE 4197, MORE THAN ***** UNIQUE**

ENTRIES WILL NOT BE LISTED IN FULL.

Word size insufficient to hold the indicated number of unique entries. Additional unique entries will not be processed. Only one such message printed.

4198 * USER WARNING MESSAGE 4198, UNABLE TO PRINT UNIQUE CONNECTIVITY LIST SORTED BY SUPERELEMENT ID DUE TO INSUFFI-CIENT CORE.**

ADDITIONNAL CORE NEEDED = ****** WORDS.

The indicated additional memory is required to process the unique connectivity list sorted by superelement ID.

4200 * USER WARNING MESSAGE 4200, KEYWORD ********** NOT REC-OGNIZED. IT WILL BE IGNORED.**

DIT keyword for superelement time estimation not in recognized list and is ignored. List of acceptable keywords is printed after first unrecognized keyword is encountered.

4201 * SYSTEM FATAL MESSAGE 4201, THE DICTIONARY DESCRIP-TION OF THE STIFFNESS MATRIX IS UNACCEPTABLE TO GNFMIS. EITHER FORM = **. OR BAD SIL = **, FOR ELEMENT ID = **.**

Programming error in processing stiffness matrix in nonlinear analysis.

4202 * SYSTEM FATAL MESSAGE 4202, MODULE GNFM CANNOT FIND CORRELATED ENTRIES IN THE EST, STIFFNESS AND DIFFERENTIAL STIFFNESS MATRICES. LOC = **, ELTYPE = **, ELID = **.**

Programming error in processing element matrices in nonlinear analysis.

4203 * USER FATAL MESSAGE 4203, THE SEMAP DATA BLOCK HAS BEEN MARKED NON-EXECUTABLE BY MODULE SEP1. (See errors noted in creation run.)**

Warning message is issued by SEP1 during generation of the superelement map. Fatal message is issued by SEP3 if further execution is attempted without regenerating the superelement map.

4204 * USER WARNING MESSAGE 4204, RSPLINE ******** SEGMENT **** HAS NO DEPENDENT DEGREES OF FREEDOM.**

The RSPLINE has a segment with two independent grid points with no dependent grid points between them.

4214 * USER INFORMATION MESSAGE 4214, ROW AND COLUMN nnn OF DATA BLOCK dbname ARE NULL. DIAGONAL TERM REPLACED WITH 1.0.**

This message is printed (depending on the option selected) by the unsymmetric decomposition routine. If the default option is selected, this message will be treated as an error condition and the execution aborted at the completion of the preface of the decomposition.
Schedule matrix partitioning or other technique to remove singularities.

4215 * USER FATAL MESSAGE 4215, (ROW/COLUMN) OF DATA BLOCK ******** IS NULL BUT (COLUMN/ROW) *** IS NOT.**

The matrix is singular and cannot be decomposed by the unsymmetric decomposition routine.
Examine and correct data which caused singular matrix to be generated.

4216 * USER INFORMATION MESSAGE 4216, PARAMETERS FOR UNSYMMETRIC DECOMPOSITION OF DATA BLOCK ********(TYPE=****) FOL-**

LOW MATRIX SIZE=****ROWS CPU TIME ESTIMATE=****SECS I/O TIME ESTIMATE=****SECS ACTIVE COLS=****AVG   ACTIVE COLS=****MAX ACTIVE COLS*ROWS=****AVG ACTIVE ROWS=****AVG   ACTIVE ROWS=****MAX   ACTIVE COLS*ROWS=****MAX SPILL=****GROUPS SPILL GROUP AVG=****ROWS   SPILL TOTAL=****BLOCKS PASS. COLS/ ROWS=****GROUPS PASS. COLS*ROWS=****AVG PASS. COLS*ROWS=****MAX ADDL. MEMORY****WORDS NZ NBR IN LOWER=****TERMS NZ NBR IN UPPER=****TERMS

4217   ***   USER INFORMATION MESSAGE 4217, DECOMPOSITION OF DATA BLOCK ******** TERMINATED ACCORDING TO USER REQUEST.

The bit corresponding to 26 has been set in SYSTEM(69) indicating that the execution is to be terminated after execution of the preface of symmetric or unsymmetric decomposition.

This occurs when a zero column or zero diagonal occurs and SYSTEM(69) is not set to continue (SYSTEM(69)=16).

This message is often preceded by a message that indicates the offending column.

4218   ***   SYSTEM FATAL MESSAGE 4218, UNSYMMETRIC DECOMPOSI-TION OF DATA BLOCK ******** IS ABORTED DUE TO INSUFFICIENT MEM-ORY.REASON=***.

The preface of the unsymmetric decomposition has insufficient memory to execute. Reasons are:

100   minimum core=* MATRIX SIZE + 7 * BUFFSIZE not available.

190   nonzero terms in longest column do not fit.

218   active row vector does not fit.

222   nonzero terms in longest row do not fit.

302   active column vector does not fit.

320,335   spill definition table does not fit Increase region or field length and resubmit.

4219   ***   SYSTEM FATAL MESSAGE 4219, UDCOMP LOGIC ERROR ***.
CONTENTS OF UDCOMX/FOLLOW...

A situation which the program is not prepared to handle has occurred.

Forward the run to the UGS programming staff.

4221   ***   USER WARNING MESSAGE 4221, (***) CARD REFERENCES SEC-ONDARY SUPERELEMENT **** WHICH IS NOT ALLOWED.

The referenced entries define interior constraints of superelements. Secondary superelements automatically have the same interior constraints as their primary superelement, hence no other constraints may be specified.

Remove the entries listed.

4222   ***   USER FATAL MESSAGE 4222, (***) CARD FOR SUPERELEMENT **** REFERENCE INTERIOR POINT **** The referenced entries are used to place exterior points in special boundary sets.

Either change grid from interior to exterior, or remove offending SE-type bulk data entry.

4223   *   USER FATAL MESSAGE 4223, (***) CARD FOR SUPERELEMENT **** REFERENCE UNDEFINED POINT **** These entries must reference exterior grid or scalar points for the superelement they reference.**

Inspect the SEMAP for the list of exterior degrees of freedom of the superelement.

4224   *   USER FATAL MESSAGE 4224, (***) CARD REFERENCES UNDEFINED SUPERELEMENT ****.**

These entries define generalized coordinates of superelements. Inspect the SEMAP table for the list of superelement identification numbers in the model.

4225   *   USER FATAL MESSAGE 4225, THE NUMBER OF GENERALIZED COORDINATES IS ****, WHICH IS GREATER THAN THE ASET SIZE ****.**

For generalized dynamic reduction, the user must define at least as many ASET points as there are generalized coordinates. The user may either reduce the number of generalized coordinates or increase the number of ASET points.

4227   *   USER FATAL MESSAGE 4227, ILLEGAL VALUE SPECIFIED FOR CTYPE PARAMETER.**

CTYPE can only take on the values DIH, AXI or ROT.

4228   *   USER FATAL MESSAGE 4228, TEMPERATURE SET **** CONTAINS DUPLICATE GRID ID (****).**

A grid point has been referenced more than once within the temperature set indicated.

4229   *   USER WARNING MESSAGE 4229, SUBROUTINE TRHT1C, UNSTABLE TEMP. VALUE OF ******** COMPUTED FOR TIME STEP **** AT POINT NUMBER **** IN THE ANALYSIS SET.**

For transient heat transfer calculations with radiation, the solution is considered unstable when the temperature exceeds 100,000,000.

The point number listed in the above message is an internal sequence number (after resequencing). To find the correct GRID or SCALAR point ID, rerun the job with PARAM,CHECKOUT,YES and PARAM,USETPRT,1 (for SOL 159).

4230   *   USER FATAL MESSAGE 4230, SUBROUTINE TRHT1C TERMINATING DUE TO ERROR FOR MESSAGE 4229.**

A maximum of ten messages 4229 will be given.

4235   *   USER FATAL MESSAGE 4235, CSUPER CARD ****** REFERENCES INTERIOR POINT ****** OF ITS PRIMARY SUPERELEMENT.**
4236   *   USER FATAL MESSAGE 4236, NUMBER OF EXTERIOR GRID POINTS FOR SECONDARY SUPERELEMENT ****** IS NOT EQUAL TO NUMBER FOR PRIMARY SUPERELEMENT ********

Probably an error on the CSUPER Bulk Data entry for the secondary superelement.

4237   *   USER FATAL MESSAGE 4237, SEQSEP CARD REFERENCES** SECONDARY SUPERELEMENT ****** WHICH WAS NOT DEFINED ON A CSUPER CARD.

4238   *   USER FATAL MESSAGE 4238, NUMBER OF GRID POINTS ON SEQSEP ****** DOES NOT MATCH NUMBER ON REFERENCED CSUPER CARD.**
4239   *   USER FATAL MESSAGE 4239, SEQSEP ****** REFERENCE PRIMARY SUPERELEMENT ****** WHICH IS DEFINED AS A SECONDARY.**

4240   *   USER FATAL MESSAGE 4240, BEND ELEMENT ******** BEND RADIUS OR ARC ANGLE INCONSISTENT WITH GEOM OPTION.**

RB is nonzero on PBEND card when GEOM option on CBEND card is 1, 2, or 4 or RB is zero when GEOM option is 3 or AB is nonzero when GEOM option is 1, 2, or 3 or B is .LE. zero or .GT. 180, when GEOM option is 4. Fix inconsistency and resubmit run.

4241   *   SYSTEM INFORMATION MESSAGE 4241, COMIFP ABORTED DURING FILE COMPARISON OF CARD TYPE ESTIMATED INCREASED CORE REQUIREMENT=*** WORDS.**

Increase core available by at least suggested amount.

4242   *   SYSTEM INFORMATION MESSAGE 4242, PBEAM CARD IMAGE(S) CANNOT BE RECONSTRUCTED PRESENTLY. THE CARD IMAGES REPRESENTED BY THIS EPT RECORD ARE**

Either insufficient information in the IFP file to reconstruct the entry type or the entry is currently not implemented in module.

4243   *   USER FATAL MESSAGE 4243, ELEMENT TYPE ******** IS OUT OF SORT STARTING WITH ID ********.**

Elements which were allowed to be input two per entry, must now be input in sort. Make two physical entries for the out-of-sort elements and resubmit.

4244   *   USER FATAL MESSAGE 4244, SEQSET **** REFERENCES PRI-MARY SUPERELEMENT **** WHICH IS UNDEFINED.**

The PSID field should reference the same primary superelement that the CSUPER entry does. Change the PSID field on the CSUPER and SEQSEP entries to reference a primary superele-ment.

4245   *   USER FATAL MESSAGE 4245, SEQSEP **** REFERENCES GRID POINT **** WHICH IS NOT IN SUPERELEMENT ****.**

SEMAP table to find the exterior grid points of the primary superelement. Inspect the SEMAP table to find the exterior grid points of the primary superelement.

4246   *   USER FATAL MESSAGE 4246, SEQSEP **** REFERENCES UNDE-FINED GRID POINT ****.**

Same comments as Message 4245.

4247   *   USER FATAL MESSAGE 4247, SECONDARY SUPERELEMENT **** AND PRIMARY SUPERELEMENT **** HAVE SCALAR POINTS IN DIFFER-ENT SEQUENCE.**

Scalar points are included in the same sequence as grid points when establishing exterior grid and scalar point sequencing.

4248   *   USER INFORMATION MESSAGE 4248, NUMBER OF EXTERIOR GRID POINTS .LT. 3 FOR SECONDARY SUPERELEMENT ****.**

CONGRUENCE TEST WITH PRIMARY SUPERELEMENT **** CANNOT BE PERFORMED.

The first three noncolinear exterior grid points of the secondary superelement and its primary superelement are used to establish local coordinate systems for grid point location and global coordinate congruence test.

These tests will not be performed if there are less than three exterior grid points. A third point may be attached to the primary superelement by use of a CSUPEXT entry, if congruence tests are desired. It will not change the load paths of the structure.

4249   *   USER FATAL MESSAGE 4249, SUPERELEMENT PROCESSING**

REQUESTED BUT SEMAP DATA BLOCK IS MISSING.

One cause is improper use of PARAM,DLOAD or PARAM,NODATA. Another cause might be lack of a RESTART FMS statement on restart. Use PARAM,DBDICT,2 to print the contents of database.

4251   *   USER FATAL MESSAGE 4251, CONFLICTING DEFINITIONS FOR GRID POINT **** ON SESET CARDS FOR SUPERELEMENTS **** AND ***.**

SESET entries are used to describe the interior grid point membership of superelements. A grid point may be interior to only one superelement. Remove one of the offending SESET entries.

4252   *   SYSTEM FATAL MESSAGE 4252, DATA BLOCK **** **** **** NOT FOUND IN DATABASE SUBSET ****.**

KAA matrix for the upstream superelement listed is not found in the database. Probable causes are that the upstream superelement was not assembled, there were no elements present in the superelement, or the proper databases were not mounted on restart. Reassemble the superelement listed (SEKR operation), or mount all of the databases needed.

4253   *   SYSTEM FATAL MESSAGE 4253, GRID POINTS LISTED FOR DOWNSTREAM S.E. IN EQEXIN TABLE DO NOT MATCH CURRENT SEMAP.**

If the downstream database is assembled, and then its bulk data is changed, its stored matrices and tables will not match the current SEMAP. This can also happen using multiple databases if an obsolete database is mounted. Perform the SEALL operation on the downstream superelement, or attach the correct downstream database.

Another possible cause is JCL errors that cause the old database to be improperly attached.

4254   *   USER FATAL MESSAGE 4254, CSUPER CARD DEFINES SECONDARY SUPERELEMENT *** WHICH IS ALREADY DEFINED AS A PRIMARY.**

Image, mirror and external superelements are defined on CSUPER entries. They may not have the same identification number as existing primary superelements.

Change the SSID field on the CSUPER entry.

4255   *   SYSTEM FATAL MESSAGE 4255, UNSYMMETRIC DECOMPOSITION OF DATA BLOCK *** FAILS AT ROW ***. UNABLE TO PIVOT.**

The matrix is undoubtedly singular. No terms which exceed the user specified threshold (or its default) were available to allow pivoting to take place.

Use SOL 60 or PARAM,CHECKOUT to determine where the problems exist, and look for large MAXRATIOs. See Sections 3.3.9 and 3.3.10 for further discussion. See also Chapter 4 in the V67 Numerical Methods User's Guide.

If this message is followed by UFM 3005, referring to subroutine MCE1, it can be because the DOF defined on the dependent set on an RBE3 entry are indeterminate and form a redundant set. See User's Manual Sec. 3.3.22 and Remark 3 under RBE3. See Error Report 3486.

4256   *   SYSTEM INFORMATION MESSAGE 4256, MPC SEQUENCE PROCESSING HAS COMPLETED.**

Message appears if NOGO flag set information message to indicate that MPC processing has completed. Under condition where NEWSEQ=-1 and MPC 0 on input, the NOGO flag is set at

start of SEQP module processing. If MPC processing is successful, no error messages or other information messages would appear prior to termination of run. Some doubt may otherwise be left in the user's mind that anything had been done.

4257 *** USER FATAL MESSAGE 4257, FLUID MATRIX CALCULATION STOPPING BECAUSE ELEMENTS ********** AND ********** HAVE ZERO DISTANCE.

Elements noted have zero separation. Element centers are coincidental, not allowed for fluid interaction calculation.

4258 *** USER FATAL MESSAGE 4258, ELEMENT **********, WHICH IS ON FLUID STRUCTURE BOUNDARY, CROSSES A PLANE OF SYMMETRY.

None of the elements included in an MFLUID group may span a symmetry plane.

4259 *** USER FATAL MESSAGE 4259, ELIST VALUES ON MFLUID CARDS MAY NOT BOTH BE ZERO.

MFLUID entry parameters ELIST1 and ELIST2 may not both be zero. This constitutes a fluid group containing no element surfaces.

4260 *** USER WARNING MESSAGE 4260, (PRESSURE/BENDING) CHARACTERISTIC PARAMETER EXCEEDS RANGE OF APPLICABILITY FOR ELEMENT ********.

Stress output for the BEND element may exceed the range of applicability for the following stress intensification options. For BEND elements with the FSI option of 3; the bending parameter should be within

$$0.5 < (TRb / (r**2 \ SQRT(1-v**2))) < 1.0$$

the pressure should be within

$$0.0 < (PRb**2 / (Ert)) < 0.1$$

For the BEND elements with the FSI option of 2 the bending parameter should be $tRb / (r**2 \ SQRT(1-v**2)) > 0.2$

Change parameter so equations are within range.

4261 *** USER FATAL MESSAGE 4261, THE INPUT MAXIMUM NUMBER OF GENERALIZED COORDINATES IS ZERO.

NCMAX field on DYNRED entry is 0 or blank. Must be nonzero if QSETi or SEQSETi entries are not used.

4262 *** USER FATAL MESSAGE 4262, MASS MATRIX NOT PRESENT OR NULL.

Dynamic reduction computes approximate eigenvectors and therefore requires nonzero mass terms.

Determine why no mass terms are present and rectify.
Common causes are no mass density input on material cards, or dynamic reduction not appropriate for massless superelement.

4265 *** USER WARNING MESSAGE 4265, RBE3 RECORD HAS ERRONEOUS GRID *** AND COMPONENTS *** SPECIFIED.

All grid and components specified in the m-set on the RBE3 entry must also be specified either in the REFGRID and component or in the independent grid and components.

4266 *** SYSTEM FATAL MESSAGE 4266, UNABLE TO FIND EXTERNAL GRID NUMBER IN EXTERNAL V. INTERNAL CONVERSION TABLE.

Either an internal logic error has occurred or erroneous data has been detected incoming to subroutine SEQMR for use in its MPC relations processing.

4267 *** USER FATAL MESSAGE 4267---, THE NUMBER OF PHYSICAL DEGREES OF FREEDOM PLUS GENERALIZED COORDINATES *** IS LESS THAN NCMAX *** The number of generalized coordinates specified by SPOINT and ASETi entries must match the NCMAX field.

4268 *** SYSTEM FATAL MESSAGE 4268, MINIMUM CONNECTIVITY SEARCH FAILED.

Subroutine SEQMAC was unable to choose the next grid for sequencing before all grids had been sequenced.

Possible cause believed to be machine failure or logic error.

4269 *** USER FATAL MESSAGE 4269, ONE OR MORE ELIST BULK DATA CARDS IS MISSING.

MFLUID entry selects an ELIST entry which cannot be located.

4270 *** USER FATAL MESSAGE 4270, SELECTED MFLUID BULK DATA CARD WITH ID ********** CANNOT BE FOUND.

MFLUID set selected in Case Control Section cannot be found.

4271 *** USER WARNING MESSAGE 4271, MFLUID SET ********** CONTAINS NO ELEMENTS BELOW THE FLUID FREE SURFACE.

Possible error in defining fluid free surface. No elements are wetted.

4272 *** USER FATAL MESSAGE 4272, COORDINATE SYSTEM ********** USED FOR FLUID-STRUCTURE INTERACTION NOT DEFINED OR IS NOT A RECTANGULAR SYSTEM.

The coordinate system used to identify the orientations of the free surface (normal to X3) and the planes of symmetry (if any) must be rectangular.

Review CID value on MFLUID entry.

4273 *** USER WARNING MESSAGE 4273, ELEMENT ********** HAS BEEN LISTED MORE THAN ONCE FOR FLUID STRUCTURE BOUNDARY.

ELIST entries have referenced a given element ID more than once in an MFLUID group.

4274 *** USER WARNING MESSAGE 4274, ********** ELEMENTS SELECTED FOR FLUID STRUCTURE BOUNDARY CANNOT BE FOUND AMONG ALLOWABLE ELEMENT TYPES.

One or more element IDs referenced on ELIST entries were not present.

4275 *** SYSTEM FATAL MESSAGE 4275, (***) UNIT=**, DATA BLOCK=***, OPERATION=***, CODE=***, RMS CODES=**** ****.

Fatal error in subroutine IOVAX while processing I/O request. I/O ERROR is either program logic or possible machine error condition. If run is a restart and data block is from previous run, END-OF-DATA may be caused by improper job setup. Otherwise, END-OF-DATA is probably caused by a program logic error.

If error is in job setup, correct DCL and resubmit.

Otherwise, examine the RMS codes for a possible I/O error or other type of machine error. If it does not appear to be caused by local hardware problems, forward the run to the UGS programming staff.

Another possible cause is that the disk is full. See Error Report 3161.

Another possible cause is that the BUFFSIZE needs to be increased. See Error Report 3484. If this corrects the error, please notify UGS so it can be better documented.

4276   ***   SYSTEM FATAL MESSAGE 4276, **** ERROR CODE ****

This message occurs when NX Nastran encounters errors that are not otherwise trapped (including system errors). There are various Error Codes (EC), each of which has a different meaning. These Error Codes are described in Sections 6.3.11 and 6.3.12.

In nearly every case, the log file will contain further information about the problem, so you should look there for further clues. In addition, because these are errors that most likely should have been caught in another manner (and with a more explicit error message), you should look at the recent Error Reports (search for "4276").

In many cases, increasing memory, BUFFSIZE, or disk space will resolve the problem. This is especially true when attempting to run large models on workstations.

SFM 4276 is issued when GPERR is called. The name refers to the subroutine calling GPERR and the error code is specific to that subroutine.

On CRAY/UNICOS computers an attempt is made to trap the error and print a diagnostic and an error number. More information may be obtained by using the following command: "man 2 intro."

Possible causes of this error are listed in ascending order by Error Code. Note that some are for older versions of NX Nastran, but they may still be of help.

 EC 4
1. This has been observed on V66 on Cray X-MP COS. It can be avoided by increasing MFL and MEM.

 EC 93
1. This has been observed in V66B on the IBM MVS/XA. It can be avoided by setting the MEM and BUFFPOOL to zero.

 EC 100
1.This has been observed when MATMOD is operating on a null matrix.

 EC 105
1. This occurs when there are no mass properties and SOL 3 is run with dynamic reduction.

 EC 201
1. If the IF value on a Cray UNICOS is set to a value larger than the allowable value, then the job may fail with this Error Code.

 EC 211
1. If this is a large job and it fails in the PLTVEC module with an SEUPPLOT request, then it is most likely related to Error Report 2609. This error has been noticed by clients, but UGS has been unable to reproduce it. Send your input file to UGS.

2. Incorrect data on the PSOLID entry (specifically, placing the FCTN input in a field other than 8). See Error Report 3752.

[k] EC 240
1. This is due to insufficient space in the DEB array. This error should only occur on the IBM VM/CMS V65* or prior systems. The DEB array size can be increased by modifying the site code information on the NASTRAN EXEC run-time procedure from 'MY_SITE' to 'MY_SITE,DEB=xxx'.

EC 301
1. This has been seen when the LOGICAL keyword on the DBLOC statement did not refer to the MASTER dbset.

EC 302
1. This has been observed when a BUFFSIZE has been specified that is larger than allowable.

EC 304
1. Possible causes of this error are insufficient disk space (especially for IBM machines) and too small a BUFFSIZE--check both. Insufficient disk space should show up as a "device full" error in the log file.

2. Another possible cause is a bad block on your disk pack.

3. Another possible cause is too little memory (especially for "decomp").

EC 923
Your system resources (disk space or maximum file size) have been exceeded.
Possible causes include:

1. Insufficient disk space. This is usually accompanied by a "device full"
type error on most Unix machines and a B37 or E37 type jess log messages on the IBM MVS/XA and MVS/ESA.

2. This has also been observed when a BUFFSIZE that is larger than the maximum allowable on a particular machine is used. Reduce the BUFFSIZE to an acceptable value.

3. On the IBM MVS/XA, a possible cause is insufficient pool space.
Increase the space allocation on the pool DD statement.

4. On Unix machines, if the ulimit is exceeded, then this Error Code may be issued. In most instances, "errno = 27 " will also appear in the log file.
The avoidance is to increase ulimit.

5. On Cray UNICOS, the lf and IF parameters may need to be increased.

EC 1039
1. Possible cause of this error is insufficient disk space.

EC 1044

1. Required DBSETs are offline. Make sure that all required DBSETs are either in the same location that they were originally created or use full assignment statements.

2. If it is SOL 99 restart run, make sure that the restart file contains "param,loopid,x".

3. The model contains PCOMP entries and there is no corresponding MAT8
^{k} entry.

4. This has been seen in a nonlinear run with superelements, with no elements in the residual structure. The fix is to put at least one element in the residual.

 EC 1102
1. If the job fails in the DCMP module and SOL 24 is used, make sure that the sequencer is turned on.

 EC 1401
1. If the job contains a user DMAP with INPUTT2, make sure that the first parameter ITAPE is not set to a value of "-5" to "-8". This is documented as General Limitation 2303.

2. Using the same matrix twice as input to a DMAP module can cause this message. See Error Report 3640.

3. Do not use BUFFPOOL options -1 or -3. See Error Report 3796.

 EC 1404
1. A possible cause is a ulimit that is too small.

2. Another possible cause is that the BUFFSIZE needs to be increased.

 EC 1409
1. This will occur in SOL 200 if the analysis model properties and stress recovery locations are specified with DVPREL1 relations; DVPREL2 relations should be used. See Error Report 3551.

 EC 1604
1. This was observed for SOL 144, 145, and 146 restarts from a database processed by DBTRANS. See Error Report 3739.

 EC 1802
1. Large jobs with small memory and BUFFSIZE have shown this.

 EC 3001
1. This error can occur if system(119) is set to "-3". This is most likely to occur on an IBM MVS/XA system. Use the default value of "-2" for system cell 119.

2. Check for missing design optimization entries.

 EC 3002
1. This can occur if FBS Method 2 is executed with insufficient scratch space. Method 2 requires more scratch space than Method 1, so you can force Method 1 or 1A or increase the amount of scratch space.

EC 3003
1. Using the ARC method for enforced displacement problems. See Error Report 3737.

EC 3006
1. Insufficient memory or BUFFSIZE.

[k] 2. Placing the TEMP(LOAD) command above the SUBCASE command in a buckling analysis.
The avoidance is to place the TEMP(LOAD) command within the first subcase. See Error Report
3646.

EC 4276
1. Placing the RESTART statement above the NASTRAN statement.

EC 7777
This error code often indicates machine underflow or overflow, though it is impossible to list spe-
cific reasons for this error code. Observed problems have included:

1. One possible cause is a modeling problem.   This is usually accompanied by an "arithmetic
fault, floating overflow" type message in the log file on some machines. Perform a static analysis
and verify that the value for the maximum diagonal ratio is acceptable.

2. If SEALL=ALL is used when generating component modes, and "read only"
type commands are used to attach the database for subsequent residual structure analysis, then
the job may fail with this error. Either remove the "read only" type restriction, or use SEALL=x
with x being the superelement number. This error is most likely to occur with external superele-
ment type analysis. On the VAX, the log file may also contain error message "access violation
fatal error".

3. This error code has also been observed when requesting large amount of output and there is
insufficient disk space for the f06 file.

4. Non-default values of TOUT on the DMIG entry can also cause this error on some machine.
Use the default value of TOUT set by machine precision.

5. Missing an ENDDATA entry at the end of the file can also cause the error.

6. Bad geometry on a CBEND will cause this message to be issued by EMG.
See Error Report 3539.

7. Defining loads for transient heat transfer analysis using TLOAD2 instead of TLOAD1 also
gives this error.

8. Using the INV method for complex eigenvalue extraction when the search region contains
roots that approach machine infinity. Choose a different search region or use a different extrac-
tion method.

9. Requesting plot labels for acoustic HEXA elements.

10. Restarting a model with PCOMP entries that use the SYM option. See Error Report 3669.

11. Using a comma in a WHERE clause. See Error Report 3749.

12. In a superelement analysis with multiple subcases, if the boundary conditions are changed in successive subcases this message will occur after the OLOAD output for the preceding sub-cases. (Cray UNICOS)

13. If the option PLOTFORM=3 is used in the VECPLOT module and the input datablock INVECT is purged, then this error mat occur. This error has been observed for some problems on a Cray [k] and is most likely to occur with user DMAP that uses VECPLOT. The avoidance is to generate a null input matrix for INVECT.

14. This has also been observed when a large (1.0E32 or greater) value of G1,Z and/or G2,Z was used on a MAT8 entry.

4277   *   USER FATAL MESSAGE 4277, GRID POINT *** OF SECONDARY SUPERELEMENT ** IS NOT IN SAME RELATIVE LOCATION AS GRID POINT *** OF PRIMARY SUPERELEMENT **.**

All grid points for secondary superelement must be in the same location as for primary superele-ment. See PARAMeter CONFAC described in Section 3.1.3.

4278   *   USER FATAL MESSAGE 4278, GRID POINT *** OF SECONDARY SUPERELEMENT ** DOES NOT HAVE SAME GLOBAL ORIENTATION AS GRID POINT *** OF PRIMARY SUPERELEMENT **.**

UNIT VECTORS OF SECONDARY MEASURED IN PRIMARY   I   J   K

  ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   ***   *** All grid points for a sec-ondary superelement must have the same global coordinate system as the primary superele-ment. See PARAMeter CONFAC described in Section 3.1.3.

4281   *   USER FATAL MESSAGE 4281, POOR CHOICE OF DEPENDENT DEGREE OF FREEDOM ON RIGID ROD ********.**

The dependent degree of freedom should not be perpendicular (or nearly so) to the RROD.

4282   *   USER FATAL MESSAGE 4282, UNDEFINED GRID POINT ******** RIGID ELEMENT ********.**

The rigid element references a grid point that does not exist in the model, or is disjoint from the superelement being processed. Check the bulk data section and the superelement SEMAP table for the existence of the grid point referenced.

4283   *   USER FATAL MESSAGE 4283, ILL-CONDITIONED MATRIX FOR RIGID ELEMENT ********.**

The independent degrees of freedom of a rigid element must form a nonredundant and sufficient set of freedoms to define rigid motions.

4284   *   USER FATAL MESSAGE 4284, RIGID ELEMENT ******** HAS ILLE-GAL UM SET SPECIFICATION.**

One or more unique dependent degrees of freedom must be selected for a rigid element.

4285   *   USER FATAL MESSAGE 4285, UNDEFINED GRID POINT ******** RIGID SPLINE ********.**

4286   *   USER FATAL MESSAGE 4286, RSPLINE ******** HAS MORE THAN 100 GRID POINTS.**

The number of grid points for an RSPLINE is limited.

4287   *   USER FATAL MESSAGE 4287, ILLEGAL THICKNESS FOR PLATE ELEMENT ID = ****.**

The user can supply thickness either on the connection entry or the PSHELL property entry. No corner thickness may be negative and at least one corner thickness must be positive.

4288   *   USER FATAL MESSAGE 4288, ILLEGAL GEOMETRY FOR QUAD8 ELEMENT WITH ID = ********. CODE PATH = *****.**

The code paths refer to the reason. Reasons 1 thru 5 mean that the program was unable to find an element coordinate system. Reasons 6 thru 12 imply the program cannot find a local coordinate system at a Gauss point.

Reason 13 may be due to a negative 12I/T3 (PSHELL).

Reason 14 is due to zero transverse shear thickness (PSHELL). Reason 21 occurs if the isoparametric mapping is unreasonable, which can occur if the midside nodes are too close to the corners.

4289   *   SYSTEM FATAL MESSAGE 4289, CORE IS INSUFFICIENT BY A BASE10 AMOUNT = ******** WORDS TO PROCESS QUAD 8 ELEMENT WITH ID = ********.**

4290   *   USER FATAL MESSAGE 4290, FOR QUAD8 ELEMENT WITH ID = ******** THE MATERIAL ROUTINE -MAT- RETURNS A 3X3 MATERIAL MATRIX WITH EITHER OR BOTH OF TERMS G11 AND G22 EQUAL TO ZERO. MATERIAL ID CONCERNED EQUALS ********.**

Nonzero values of bending stiffness are required if MID2 data is supplied.

4291   *   USER FATAL MESSAGE 4291, FOR SHELL ELEMENT WITH ID =** ******** THE MATERIAL ROUTINE -MAT- RETURNS A 2X2 J-MATRIX FOR MATERIAL ID = ******** WHICH IS SINGULAR.

Also see remarks concerning MID3 on the PSHELL entry description.

4292   *   USER FATAL MESSAGE 4292, FOR QUAD8 ELEMENT WITH ID = ******** THE FLEXIBILITY MATRIX Z (4X4) IS SINGULAR.**

4293   *   USER INFORMATION MESSAGE 4293, MATERIAL -ID- 1 NOT SPECIFIED FOR QUAD8 ELEMENT WITH ID = ********.**

4294   *   USER FATAL MESSAGE 4294, QUAD8 ELEMENT ******** HAS ILLEGAL GEOMETRY DUE TO DEFORMATIONS.**

For geometric nonlinear calculation, the deformations are so large that the geometry tests fail.

4295   *   USER FATAL MESSAGE 4295, NONLINEAR FOR ELEMENT WITH ID =** ***** IS INVALID WITH MATID-1, MATID-2, MATID-4 RESPECTIVELY **** **** ****. NLFLAG NLTYPE = *** ***.

For a material nonlinear element an incorrect set of material identifications were selected. Review material limitations for material nonlinear elements.

4296   *   USER FATAL MESSAGE 4296, ILLEGAL GEOMETRY FOR QUAD4 ELEMENT WITH ID = ********.**

This may be caused by improper specification of geometry and/or connectivity. Make sure that the QUAD4 connectivity goes completely around the element clockwise or counter-clockwise.

4297   *   USER FATAL MESSAGE 4297, QUAD4 ELEMENT WITH ID =** ******** HAS AN INTERIOR ANGLE POSSIBLY GREATER THAN OR EQUAL 180 DEGREES.

This may be caused by improper specification of geometry and/or connectivity. Make sure that

the QUAD4 connectivity goes completely around the element clockwise or counter-clockwise.

4298 * USER FATAL MESSAGE 4298, A CORNER POINT MEMBRANE THICKNESS HAS NOT BEEN SPECIFIED FOR ELEMENT WITH ID =**
******** AND THERE IS NO DEFAULT VALUE ON THE ASSOCIATED PROPERTY CARD.

4299 * USER FATAL MESSAGE 4299, FOR ELEMENT WITH ID = ******** THE JACOBIAN FOR INTEGRATION POINT NUMBER ** IS LESS THAN OR EQUAL ZERO.**

This may be caused by improper specification of geometry and/or connectivity. As an example, connecting the CRACi in the wrong direction (counterclockwise) can cause this.

4300 * USER FATAL MESSAGE 4300, FOR ELEMENT WITH ID = ******** THE THICKNESS FOR INTEGRATION POINT NUMBER ** IS LESS THAN OR EQUAL ZERO.**

4301 * USER FATAL MESSAGE 4301, FOR ELEMENT WITH ID = ******** THE MATERIAL ROUTINE -MAT- RETURNS A 3X3 G-MATRIX WITH EITHER OR BOTH OF TERMS G11 AND G22 EQUAL ZERO.**
MATERIAL ID CONCERNED EQUALS ********.

The material data (Gxx and Gyy) is not supplied for the QUAD4 element.

In material nonlinear analysis this message will be issued if PARAM,NLAYERS is greater than or equal to 12 and a stiffness update is performed during the nonlinear iterations. The avoidance is to set PARAM,NLAYERS less than 12.

If the MID2 field on the PSHELL entry is greater than 0, PARAM,NLAYERS should be set to a value greater than 1 or bending stiffness will be ignored.

4303 * USER FATAL MESSAGE 4303, FOR ELEMENT WITH ID = ******** THE FLEXIBILITY MATRIX Z(4X4) IS SINGULAR.**

Logic error. To avoid problem, add transverse shear flexibility.

4304 * SYSTEM FATAL MESSAGE 4304, LOGIC ERROR DETECTED WHILE PROCESSING QUAD4 ELEMENT WITH ID = ********.**

Logic error

4305 * USER INFORMATION MESSAGE 4305, MATERIAL-ID NOT SPECI-FIED FOR ELEMENT = ********.**

4306 * USER FATAL MESSAGE 4306, DEGENERATE GEOMETRY OR INADEQUATE MATERIAL DATA SPECIFIED FOR TRIA6 ELEMENT WITH ID = ****** REASON NUMBER = ***** See UFM 4288 for an explanation of reason numbers, except that Reason 28 corresponds to CODE 21.**

4311 * USER FATAL MESSAGE 4311, TIME EXPIRATION PRIOR TO LINK **** CALLING MODULE **********.**

The time specified on the TIME statement in the Executive Control Section has been exceeded.

4312 * USER WARNING MESSAGE 4312, CONM2 ********** HAS NON-POSITIVE-DEFINITE INERTIA MATRIX.**

Most dynamic analysis methods require positive-definite mass matrices. Inserting inertia data into the wrong fields can result in non-positive-definite systems, which are not physically realistic for normal modeling practices.

Reduce the size of the off-diagonal terms to provide a positive-definite determinant.

4313 * USER FATAL MESSAGE 4313, GRID POINT *** REFERENCED BY CYAX (OR CYSUP OR CYJOIN) BULK DATA CARD IS UNDEFINED.**

4314 * USER FATAL MESSAGE 4314, HARMONICS CARD IS REQUIRED**

IN CASE CONTROL DECK FOR CYCLIC SYMMETRY ANALYSIS BUT IS NOT SUPPLIED BY USER.

4315 * USER FATAL MESSAGE 4315, OVERALL SYMMETRY OPTION IS NOT ALLOWED UNDER ROT OR AXI CYCLIC SYMMETRY ANALYSIS.**

4316 * USER FATAL MESSAGE 4316, GRID POINT ID, *** WHICH LIES ON THE AXIS OF SYMMETRY IS ILLEGALLY DEFINED AS A SIDE 1 OR SIDE 2 POINT BY MEANS OF A CYJOIN CARD.**

4317 * USER FATAL MESSAGE 4317, GRID POINT ID, ***, WHICH LIES ON THE AXIS OF SYMMETRY SHOULD NOT BE CONSTRAINED BY MULTI-POINT CONSTRAINT SET.**

4318 * USER FATAL MESSAGE 4318, GRID POINT ID, ***, WHICH LIES ON THE AXIS OF SYMMETRY HAS ILLEGALLY DEFINED SPC CON-STRAINTS.**

4319 * USER FATAL MESSAGE 4319, GRID POINT ID, ***, AND COMPO-NENT ID, ***, WHICH IS DEFINED IN CYSUP BULK DATA CARD, HAS BEEN ILLEGALLY DEFINED ON SPC, SPC1, OMIT, OMIT1 CARDS, OR IN RIGID ELEMENTS OR MULTIPOINT CONSTRAINTS AS DEPENDENT COORDI-NATES.**

4320 * USER FATAL MESSAGE 4320, GRID POINT ID, ***, DEFINED IN CYSUP BULK DATA CARD IS ILLEGAL. FOR DIHEDRAL SYMMETRY, THIS GRID POINT SHOULD BE A SIDE 1 POINT AND FOR ROTATIONAL SYMME-TRY THIS GRID POINT SHOULD NOT BE DEFINED ON THE AXIS OF SYM-METRY OR ON SIDE 2.**

4321 * USER WARNING MESSAGE 4321, SOME VALUES OF THE HAR-MONICS SPECIFIED FOR ANALYSIS IN THE HARMONICS CARD ARE GREATER THAN THE MAXIMUM VALUE PERMISSIBLE. VALUES OF HAR-MONICS GREATER THAN NSEG/2 WILL NOT BE USED IN THE ANALYSIS.**

4326 * USER INFORMATION MESSAGE 4326, USER SUPPLIED LOAD-CYH AND GRAV CARDS ARE REPLACED AS FOLLOWS:**

4327 * USER INFORMATION MESSAGE 4327, USER SUPPLIED LOAD-CYH AND RFORCE CARDS ARE REPLACED AS FOLLOWS:**

4328 * USER WARNING MESSAGE 4328, THE ANISOTROPIC MATERIAL PROPERTY FOR MEMBRANE ACTION DEFINED BY MAT2 ID ******** IS INCONSISTENT WITH CONICAL SHELL THEORY. G13 AND G23 WILL BE SET TO ZERO ****

4329 * USER WARNING MESSAGE 4329, THE ANISOTROPIC MATERIAL PROPERTY FOR BENDING ACTION DEFINED BY MAT2 ID ******** IS INCON-SISTENT WITH CONICAL SHELL THEORY. G13 AND G23 WILL BE SET TO ZERO *** PROPERTY FOR TRANSVERSE SHEAR ACTION DEFINED BY MAT2 ID ******** IS INCONSISTENT WITH CONICAL SHELL THEORY. G12 WILL BE SET TO ZERO ****

4334 * USER FATAL MESSAGE 4334, NEGATIVE-DEFINITE MASS MATRIX FOUND IN DYNAMIC REDUCTION.**

Generalized dynamic reduction assumes a non-negative definite mass matrix. This prevents computation of modes with negative generalized mass. User input of negative mass, large off-diagonal mass terms, or requesting more modes than there are independent degrees of freedom with mass can lead to this condition.

Inspect the input mass data for the conditions described above, or reduce FMAX if the number of degrees of freedom with mass is not adequate.

4335 * USER FATAL MESSAGE 4335, MORE THAN ONE SUPPORT POINT IS ILLEGALLY DEFINED IN THE MODEL, WHERE ONLY ONE IS ALLOWED. THE LIST OF POINTS REFERENCED BY CYSUP BULK DATA CARDS FOLLOWS:**

Only one support point allowed in Cyclic Symmetry Analysis. Delete all support points (except one).

4336   *   USER FATAL MESSAGE 4336, NO CYSYM CARD FOUND.**

CYSYM Bulk Data entry is required to perform cyclic symmetry analysis. Define CYSYM Bulk Data entry.

4337   *   USER FATAL MESSAGE 4337, HARMONICS SET SPECIFIED ON HOUTPUT CASE CONTROL CARD IS UNDEFINED.**

The HOUTPUT Case Control command defines the values of harmonics for which output will be produced. The set ID specified by this command is not defined in Case Control.

4338   *   USER FATAL MESSAGE 4338, SEGMENTS SET SPECIFIED ON NOUTPUT CASE CONTROL CARD IS UNDEFINED.**

The NOUTPUT Case Control command defines the values of segments for which output will be produced. The set ID specified by this command is not defined in Case Control Section.

4339   *   USER FATAL MESSAGE 4339, HARMONICS SET SPECIFIED ON NOUTPUT CASE CONTROL CARD IS UNDEFINED.**

In the solution of vibration problems, the segment output can be selected for a specified set of harmonics.
The set of harmonics specified in the NOUTPUT Case Control command is not defined in the Case Control.

4340   *   USER FATAL MESSAGE 4340, LINEAR COMBINATION OF SUB-CASES NOT ALLOWED IN CYCLIC SYMMETRY ANALYSIS.**

SUBCOMS and/or SYMCOMS are not allowed in cyclic symmetry analysis. Delete requests of SUBCOMS and/or SYMCOMS.

4341   *   USER FATAL MESSAGE 4341, HARMONICS SET SPECIFIED FOR ANALYSIS IS UNDEFINED.**

The values of harmonics for which analysis will be performed is given by the set specified in the HARMONICS Case Control Section. This set is not defined. Define the set of integer values of harmonics for analysis.

4342   *   USER FATAL MESSAGE 4342, THE LOAD BULK DATA CARD GIVEN BELOW, IS INCONSISTENT WITH SPECIFIED ANALYSIS HARMON-ICS OR SEGMENTS OR SYMMETRY TYPE.**

The load specified by LOADCYH Bulk Data entry should specify loading for harmonics that are valid for the problem. For example, the integer value of the harmonics that are loaded should be contained in the analysis harmonics set and furthermore the harmonic type should also be con-tained in analysis harmonics type. If not, this fatal message will result. Similarly, the load speci-fied by LOADCYN Bulk Data entry should specify loading for segments that are in the model. In addition, if symmetry option is used in DIHEDRAL type problems, the load should be applied in segments in the first half-plane (or quadrant) of the model. Specify valid harmonic loading or segment loading.

In buckling problems, the static pre-load must be the same for all segments, which is ensured by providing a zero (cosine) harmonic loading. For such problems, this fatal message will result if the loading is specified any other way than via LOADCYH entry.

See also Error Report 3502.

4343   *   USER FATAL MESSAGE 4343, LOAD ID=*** WAS ILLEGALLY REFERENCED BY BOTH LOADCYH AND LOADCYN CARDS.**

The same load set ID has been referenced by both LOADCYH and LOADCYN Bulk Data entries. This is illegal. Define separate load IDs for loads referenced by LOADCYH and LOADCYN entries.

4344 * USER FATAL MESSAGE 4344, SELECTED LOAD SET, ID = *** WAS NOT DEFINED ON A LOADCYH, LOADCYN, OR LOADCYT CARD.**

The load set ID selected in case control is not defined by a LOADCYH, LOADCYN and/or LOAD-CYT Bulk Data entry.

Define the load set ID selected in case control by means of LOADCYH, LOADCYN, and/or LOADCYT Bulk Data entry.

4345 * USER FATAL MESSAGE 4345, USER SPECIFIED A *** LOAD WITH ID = *** IN SUBCASE NO. = *** THIS ID WAS USED ELSEWHERE TO DEFINE A LOAD OF A DIFFERENT TYPE.**

The load ID selected in one subcase to define a physical load via LOADCYN Bulk Data entry is a harmonic load via LOADCYH entry (or vice versa). The same ID cannot be used to select normal and harmonic loadings in different subcases.

4346 * USER FATAL MESSAGE 4346, FREQUENCY RESPONSE SET, ID = *** IS UNDEFINED.**

Define the set of frequencies to be used for analysis.

4347 * USER FATAL MESSAGE 4347, RFORCE OPTION SPECIFIED ON LOADCYH CARD, BUT NO RFORCE CARD FOUND.**

Define RFORCE Bulk Data entry selected by LOADCYH Bulk Data entry.

4348 * USER FATAL MESSAGE 4348, GRAV OPTION SPECIFIED ON LOADCYH CARD, BUT NO GRAV CARD FOUND.**

Define GRAV loading via GRAV Bulk Data entry.

4350 * USER FATAL MESSAGE 4350, LOADCYT CARD WITH SID= *****, SPECIFIES NON-EXISTENT TABLE ID=**** 4351 *** USER WARNING MES-SAGE 4351, TEMPERATURE/DEFORMATION SET ID = ******** SPECIFIES INPUT IN HARMONIC VARIABLES.**

PHYSICAL ELEMENT STRESS OUTPUT WILL BE IN ERROR, USE ONLY STRESS OUTPUT IN HARMONIC VARIABLES.

4352 * USER WARNING MESSAGE 4352, TEMPERATURE/DEFORMA-TION SET ID = ******** SPECIFIES INPUT IN PHYSICAL VARIABLES.**

HARMONIC ELEMENT STRESS OUTPUT WILL BE IN ERROR, USE ONLY STRESS OUTPUT IN PHYSICAL VARIABLES.

4353 * USER FATAL MESSAGE 4353, DMIG MATRICES SELECTED BY K2GG, M2GG, OR B2GG DO NOT HAVE TITLE SYMMETRIC FORM (IFO=6).**

DMIG matrices added before constraints are applied must be symmetric in form. The form is specified in the IFO field (Field 4) of the DMIG entry. Set IFO to 6.

4355 * USER FATAL MESSAGE, INPUT FILE NOT FOUND. NASTRAN EXECUTION STOPPED.**

The input data was either nonexistent or the file was empty.

4356 * USER WARNING MESSAGE 4356, MATMOD MODULE OPTION 16 WILL NOT PROCESS MATRIX ******** BECAUSE IT IS NOT FORM 1, 2, 6, OR 9.**

This option converts NX Nastran matrices to DMIG entry formats. The other forms of matrices

are not suitable for DMIG formats. Convert the matrix to the proper form using the MODTRL and ADD modules.

4357   *   USER WARNING MESSAGE 4357, MATRIX *** INPUT TO MATMOD OPTION 16 HAS ** ROWS AND ** COLUMNS, G-SIZE IS **. NO OUTPUT PRODUCED.**

All matrices input for Option 16 must have g-size rows.

If they are Form 1 or 6 they must also have g-size columns. Merge the matrices to g-size.

4358   *   USER FATAL MESSAGE 4358, SUPORT POINT IS ILLEGALLY SPECIFIED AS A SCALAR POINT.**

The support point should be a grid point in cyclic symmetry analysis. Redefine the support point such that it is a grid point and not a scalar point.

4359   *   USER WARNING MESSAGE 4359, COMPONENT *** REFERENCED ON CYSUP BULK DATA CARD FORCES COMPONENT *** TO ALSO BE SUPPORTED.**

See CYSUP Bulk Data entry for explanatory remarks.

4360   *   USER WARNING MESSAGE 4360, COMPONENT 2 WILL BE SUPPORTED INSTEAD OF COMPONENT 6, AS REFERENCED ON THE CYSUP BULK DATA CARD.**

See CYSUP Bulk Data entry for explanatory remarks.

4361   *   USER INFORMATION MESSAGE 4361---, AS THE ORIGINAL PERFORMANCE IS BETTER THAN THE RESEQUENCE PERFORMANCE DATA, THE NEW SEQGP CARD IMAGES WILL NOT BE GENERATED.**

4362   *   USER FATAL MESSAGE 4362, INTERIOR POINTS ILLEGALLY DEFINED IN THE AXI OPTION OF THE CYCLIC SYMMETRY PROBLEM.**

In the AXI option of cyclic symmetry, all degrees of freedom must be on Side 1, Side 2, or on the axis.

Define all grid points to be on Side 1, Side 2, or on the axis.

4363   *   USER FATAL MESSAGE 4363, SYMMETRY ON TWO PLANES OF THE MODEL ILLEGALLY SPECIFIED WITH ODD NUMBER OF SEGMENTS.**

Symmetry on the planes of the model is allowed only when the total number of segments is even.

Use only symmetry with respect to Side 1 of Segment 1 of the model.

4364   *   USER FATAL MESSAGE 4364, COMPONENT *** OF GRID POINTS, *********, AND ********* CANNOT BE CONNECTED.**

In the AXI option of CYCLIC symmetry, all degrees of freedom in the analysis set must be on SIDE 1, SIDE 2, or on the AXIS. If a degree of freedom is on either SIDE 1 or SIDE 2, then its connected d.o.f. must not be constrained out in any way. (This same condition is only a warning error for the ROT option.) Make all SIDE 1 and SIDE 2 points meet the above stated restrictions.

4365   *   USER INFORMATION MESSAGE 4365, USER SUPPLIED LOADCYT BULK DATA CARD (ID = ****) IS USED AS EQUIVALENT TO THE FOLLOWING LOADCYH CARD(S).**

When Method = 0 (or blank) option is used with the LOADCYT Bulk Data entry, the magnitude of the load (specified by the loadset ID) will be multiplied by the following harmonic coefficients.

4366   *   USER INFORMATION MESSAGE 4366, USER SUPPLIED LOADCYT BULK DATA CARD (ID = ****) IS USED AS EQUIVALENT TO THE FOLLOWING LOADCYN CARD(S).**

When Method = 1 option is used with the LOADCYT Bulk Data entry, the magnitude of the load (specified by the LOADSET ID) at corresponding points in the various segments of the model will be multiplied by the following scale factors.

4367   *   USER INFORMATION MESSAGE 4367, STATISTICS FOR UNSYM-METRIC DECOMPOSITION OF DATA BLOCK *** FOLLOW NUMBER OF PIVOT OPERATIONS = **.**

Pivot operations only occur when the ratio of the diagonal term of the pivot row to the largest term in the pivot column is less than the threshold. (Default = 1.E-6) See Chapter 4 in the V67 Numerical Methods User's Guide.

4368   *   USER WARNING MESSAGE 4368, INSUFFICIENT TIME TO COM-PLETE GENERALIZED DYNAMIC REDUCTION. REQUIRED TIME IS *** SEC-ONDS.**

An interval time estimate made using parameters reflecting the users model, indicates that DYNAMIC reduction module will consume more than the user allowed for when the time estimate was set for the entire job.

USER INFORMATION: THE RUN WILL BE ALLOWED TO PROCEED BECAUSE CPU TIME ESTIMATES, IN SOME CASE, ARE POOR.

4369   *   USER FATAL MESSAGE 4369, FOR THE DIH OR AXI OPTION OF CYCLIC SYMMETRY (EXCEPT FOR HEAT TRANSFER) THE DEGREE OF FREEDOM NORMAL TO SIDE 1 (AND/OR SIDE 2) - FIELD 3 CYJOIN BULK DATA CARD - MUST BE DEFINED.**

Field 3 of the CYJOIN entry for Side 1 must be filled in for non-heat transfer problems. Supply degree of freedom perpendicular to Side 1 (and/or Side 2) in Field 3 of CYJOIN Bulk Data entry.

4370   *   SYSTEM FATAL MESSAGE 4370, DECOMPOSITION REQUIRES THAT PRECISION OF DATA BLOCK *** EQUAL SYSTEM PRECISION.**

The symmetric and unsymmetric decomposition routines require that the input matrix be single precision for CDC and CRAY machines, and double precision for all other machines.

4372   *   USER FATAL MESSAGE 4372, NO NON-LINEAR ELEMENTS HAVE BEEN SPECIFIED FOR MATERIAL NON-LINEAR ANALYSIS PROB-LEM.**

Material nonlinear analysis solution sequences must have at least one nonlinear element.

4373   *   USER WARNING MESSAGE 4373, CASE CONTROL RECORD NOT REFERENCED.**

4375   *   USER FATAL MESSAGE 4375, SUBCASE LISTS ARE ILLEGAL FOR AUTO OR PSDF REQUESTS.**

XYPLOT requests for AUTO or PSDF type curves cannot include subcase lists.

4376   *   USER FATAL MESSAGE 4376, ILLEGAL NUMBER OF SUPPORT POINTS ARE GIVEN FOR AUTOMATIC RIGID BODY MATRIX CALCULATION. SIX ARE REQUIRED.**

Module VECPLOT provides an option to compute a rigid body transformation matrix based on grid point coordinates. To use this option there must be six and only six r-set degrees of freedom specified on SUPORT entries. This option is commonly used in component modal synthesis using external superelements. The user must provide six degrees of freedom on SUPORT entries or input the rigid body transformation on DMIG entries.

4377   *   USER FATAL MESSAGE 4377, PCOMP ID. ********** HAS NO PLY**

DATA.

User supplied no ply information for the specified PCOMP bulk data entry. Supply some ply data.

4379   *   USER INFORMATION MESSAGE 4379, THE USER SUPPLIED PCOMP BULK DATA CARDS ARE REPLACED BY THE FOLLOWING PSHELL AND MAT2 CARDS.**

Output is only produced when PCOMP bulk data entries are present and sorted ECHO output is requested.

4380   *   USER FATAL MESSAGE 4380, RECORD ID=****** ****** IS OUT OF SYNC ON DATA BLOCK NUMBER, ***** AN IFPG SYSTEM ERROR.**

IFP output files of either EPT or MPT were not properly formed.

4381   *   USER FATAL MESSAGE 4381, ABNORMAL END OF PCOMP RECORD ENCOUNTERED ON DATA BLOCK, *******.**

An unexpected end of record mark was encountered while processing the PCOMP record as output by IFP. Check PCOMP bulk data entries for proper format.

4382   *   USER FATAL MESSAGE 4382, PCOMP AND PSHELL IDENTIFICATION ******* WAS DUPLICATED.**

While merging the new PSHELL bulk data entries generated from the presence of the PCOMP bulk data entries a duplicate identification number (PID) was encountered within the user supplied PSHELL data. The user record is temporarily copied to the EPT data block to continue preface processing. Remove duplicate identification.

4383   *   USER FATAL MESSAGE 4383, TRANSVERSE SHEAR MATERIAL MATRIX IS SINGULAR FOR PCOMP *********.**

Review properties given for MAT2 and MAT8 bulk data entries for specified PCOMP record causing error.

4384   *   USER FATAL MESSAGE 4384, THERMAL MATRIX INVERSION FAILURE FOR PCOMP ********* MID *.**

Review properties given for MAT2 and MAT8 bulk data entries for specified PCOMP record causing error.

4385   *   USER WARNING MESSAGE 4385, STRESS PROCESSING FOR ******** ELEMENTS IN SUBCASE *******. NOT COMPLETE BECAUSE OF INSUFFICIENT DATA IN DATA BLOCK ********.**

The composite stress was not calculated for the noted element type in a particular subcase because the data needed could not be found. If the data block is the force data block, then perhaps forces were not requested in this subcase. If the data block is any other, the problem is a programming bug.

4386   *   USER WARNING MESSAGE 4386, COMPOSITE STRESSES FOR ELEMENT ******** NOT CALCULATED. FORCE RECORD WAS NOT FOUND.**

For composite stress calculations there must be a force element record for each requested stress. Match up the stress and force requests or make the stress request a subset of the force request.

4388   *   USER FATAL MESSAGE 4388, AXIS POINT **** DEFINED BY THE CYAX BULK DATA CARD HAS COMPONENTS IN THE O-SET.**

If there are ASET, ASET1 and/or OMIT, OMIT1 bulk data entries present the components of axis

points must be in the analysis set. Include degrees of freedom of axis points in the a-set.

4390   *   USER FATAL MESSAGE 4390, LOADSET **** REQUESTED FOR SUPERELEMENT **** DOES NOT EXIST IN SLT.**

A LOADSET entry has selected a set of LSEQ bulk data entries which do not exist in the static load table.

Check bulk data LSEQ entries for proper set ID.

4391   *   USER FATAL MESSAGE 4391, NONUNIQUE DAREA SET ***** HAS BEEN SPECIFIED FOR LSEQ DEFINED VECTOR *****.**

Each vector number defined on an LSEQ bulk data entry must have a unique DAREA set specification, i.e. the combination of vector number and DAREA set number must be maintained throughout all LSEQ sets. Make sure that each vector number "X" always specifies the same DAREA set "Y", regardless of which LSEQ set the vector is in.

4392   *   USER FATAL MESSAGE 4392, CONTINUATION CARD ERRORS.**
EXPLANATIONS FOLLOW LIST OF CARDS IN ERROR.

ERROR NUMBER   .1..2..3...

***   Card echo EXPLANATION OF ERROR CODES ABOVE FOLLOWS...

1 - FIELD 1 IS NOT UNIQUE.

2 - MORE THAN ONE CARD HAS FIELD 10 WHICH IS THE SAME AS FIELD 1 OF THIS CARD.

3 - CARD IS AN ORPHAN (I.E. NO PARENT CARD EXISTS).

Continuation mnemonics in field 10 of a parent and field 1 of its continuation entry must be unique. Each continuation entry must have parent entry. Check all continuation mnemonics.

4393   *   USER FATAL MESSAGE 4393, ILLEGAL DELETE CARD.**

A delete card contains a / in Field 1, a positive integer in Field 2 and a positive integer or blank in Field 3.

If Field 3 is non-blank, its contents must be greater than or equal to Field 2. Failing to meet any of these conditions results in the error message.

It may be best to use free-field format (i.e., /,a,b).

4394   *   USER WARNING MESSAGE 4394, SOLUTION SIZE REDUCTION PARAMETER ******** IS NOT APPROPRIATE FOR THIS PROBLEM.**

The MODB module has been asked to retain more vectors than exist. The module will retain all that have been found.

4395   *   USER INFORMATION MESSAGE 4395, PROBLEM SIZE (VECTORS RETAINED) HAS BEEN REDUCED TO ******** VECTORS.**

The number of vectors retained has been reduced by user request.

4396   *   USER INFORMATION MESSAGE 4396, MASS CONVERGENCE OF **.*** ACHIEVED AFTER ****** CYCLES.**

The generalized masses have all passed the test   (Mnew - Nold) / Mnew < MVAR

4397   *   USER INFORMATION MESSAGE 4397, FREQUENCY CONVERGENCE OF **.*** ACHIEVED AFTER ****** CYCLES.**

The frequencies (f) have all (not including f < .01) passed the test ******

4398   ***   USER WARNING MESSAGE 4398, GRID POINT ******** FOR (TRANSL/ROT) DEGREES OF FREEDOM DOES NOT PASS SYMMETRY CHECK. NO SINGULARITY TESTS MADE ON THESE TERMS.

*****.***   *****.***   *****.*** *****.***   *****.***   *****.*** *****.***   *****.***   *****.*** The stiffness matrix is inspected for singularities before any user-supplied unsymmetric terms are allowed.

The solution technique makes it unlikely that correct answers will result if unsymmetric terms exist. When these tests are made, the three-by-three stiffness matrix terms printed are the terms about the diagonal of the listed grid point, normalized to the largest term in the three-by-three submatrix. Likely causes are unsymmetric terms from user-supplied matrices, downstream superelements whose upstream members have mechanisms suppressed due to use of PARAM,MAXRATIO or PARAM,BAILOUT, or errors in NX Nastran code. If the stiffness terms were generated from NX Nastran elements rather than matrices from outside NX Nastran, and no large factor-to-diagonal messages are present, please send runs to UGS.

4399   ***   USER WARNING MESSAGE 4399, GRID POINT ******** FOR (TRANSL/ROT) DEGREES OF FREEDOM WILL NOT CONVERGE. NO SINGULARITY TESTS MADE ON THESE TERMS.

The eigen solution for the 3 by 3 matrix printed does not converge. Check the matrix for plausibility.

4401   ***   USER FATAL MESSAGE 4401, A Q-SET EXISTS, BUT AN O-SET DOES NOT EXIST.

This error is detected by the GPSP module and issued by the PRTPARM DMAP statement. The q-set is used for Generalized Dynamic Reduction and Component Mode Synthesis. It requires the presence of an o-set. An o-set is formed only if ASETi or OMITi entries are present. Put degrees of freedom listed on QSETi entries on ASETi entries.

4402   ***   USER FATAL MESSAGE 4402, NO L-SET REMAINS AFTER CONSTRAINTS AND O-SET REMOVED.

No degrees of freedom remain in the L-set after multipoint and single point constraints and omitted coordinates are removed. Although this may be a well- defined engineering problem, all solution sequences require at least one L-set degree of freedom. Either remove some constraints or omitted coordinates or add unconstrained degrees of freedom.

4403   ***   USER FATAL MESSAGE 4403, STIFFNESS MATRIX FOR Q-SET NOT NULL.

The q-set is reserved for generalized coordinates. In superelement analysis, each superelement must have a unique set of variables specified for its q-set. Remove any elements connected to q-set points and provide a unique set of degrees of freedom for each superelement that has generalized coordinates.

4404   ***   USER FATAL MESSAGE 4404, MASS MATRIX FOR Q-SET NOT NULL.

The q-set is reserved for generalized coordinates. In superelement analysis, each superelement must have a unique set of variables specified for its q-set. Remove any elements connected to q-set points and provide a unique set of degrees of freedom for each superelement that has generalized coordinates.

4405   ***   USER FATAL MESSAGE 4405, NO EIGENVECTORS COMPUTED

FOR COMPONENT MODE SYNTHESIS OR SYSTEM SOLUTION.

The eigenvectors computed in component mode synthesis are used to approximate the motion of the component.

Some vectors must be present to perform this reduction.

For the system solution, an exit is taken if eigenvalues are requested but not eigenvectors.

Reset the "range of frequency" and/or the "number desired" on the EIGR or EIGRL entry.

If the superelement does not have any eigenvalues in the range of interest, remove the CMS request for that particular superelement.

This message is also issued when the eigenvectors calculated with a transformation method such as Givens do not pass internal orthogonality checks. This is indicative of a modeling error.

This message can also be issued if insufficient memory is available for Lanczos with sparse decomposition.

This could occur with UFM 5401 and be related to UWM 5411.

4406   ***   USER FATAL MESSAGE 4406, THE SEMG OPERATION HAS NOT BEEN COMPLETED FOR THIS SUPERELEMENT.

The SEMG operation must be completed before the SEKR, SEMR, SELR, and SELG operation is requested. If these other operations are requested and the SEMG operation was not completed on a prior run, certain data blocks such as the SIL will not be in the Database. Request the SEMG operation for the superelement that fails.

4407   ***   USER FATAL MESSAGE 4407, MR MATRIX HAS NULL DIAGONAL TERM.

The MR matrix contains the rigid body mass matrix of the structure as measured at the degrees of freedom listed on the SUPORT entry.

If any of these degrees of freedom have null mass, they will result in invalid eigenvectors. Put in enough masses to define all rigid body modes.

4408   ***   USER FATAL MESSAGE 4408, Q-SET NOT IMPLEMENTED FOR SOL62.

The q-set is used for generalized coordinates and has no function in this solution sequence.

Load reduction errors will occur if it is present. Remove QSETi entries.

4409   ***   USER WARNING MESSAGE 4409, PARAM, FIXEDB USED IN SOLUTION SEQUENCE WHERE NOT SUPPORTED.

This capability is intended for the data recovery in the statics and normal modes solution sequences only. If requested in other solution sequences it will cause an exit from the data recovery loop for the present superelement and continuation to the next superelement.

4410   ***   USER WARNING MESSAGE 4410, DATA RECOVERY REQUESTED WHEN USET TABLE NOT PRESENT.

This is caused by improper restarts or improper use of the multiple file database concept. The program will terminate processing the superelement listed at the top of the page, and attempt data recovery on the next superelement. Attach the database that has the superelement data on it or rerun the superelement and all downstream superelements through the SEALL process.

4411   ***   SYSTEM FATAL MESSAGE 4411, GEOMETRIC NONLINEAR MODEL WITH NO STRUCTURAL ELEMENTS AND/OR GENELS.

Solution 64 requires "simple" (conventional) elements and does not process GENEL entries.

4412 *** USER FATAL MESSAGE 4412, GEOMETRIC NONLINEARITY DOES NOT SUPPORT O- OR R-SETS.

SOL 64 does not process any sets that are subsets of the f-set. Remove OMITi, SUPORT, ASETi, BSETi, CSETi entries from the Bulk Data Section.

4413 *** SYSTEM FATAL MESSAGE 4413, NEGATIVE TERMS IN FACTOR.
STATICALLY UNSTABLE SYSTEM.

Negative terms on the diagonal terms of the factor of the decomposed stiffness matrix indicates that portions of the structure are in a post-buckled state. If allowed to iterate, the solution may not converge.

PARAM, TESTNEG may be used to force iteration to continue.

4414 *** USER FATAL MESSAGE 4414, SIL TABLE NOT AVAILABLE FOR COMPRESSIBLE VIRTUAL FLUID MASS.

The SEALL operation must be completed on the residual structure before this capability may be used.

4415 *** USER INFORMATION MESSAGE 4415, THE FOLLOWING A-SET DEGREES OF FREEDOM HAVE EITHER NULL MASSES OR NULL MASSES AND STIFFNESSES.

For the GIV or MGIV methods, if the listed freedoms have null mass, they are given the auto-omit operation. For the INV method, or for Direct Frequency or Transient Response, they are given the auto-elimination operation.

(See Section 3.3.9). Inspect the listed degrees of freedom to insure that masses or stiffnesses have not been left out inadvertently.

4416 *** USER FATAL MESSAGE 4416, NO DYNAMIC LOAD TABLE AVAILABLE.

A frequency response or transient response analysis was requested but no dynamic load data is available.

Include dynamic load data in model.

4417 *** USER FATAL MESSAGE 4417, NO TRANSIENT RESPONSE LIST AVAILABLE.

A transient response dynamic analysis was requested but no transient response list is available.
Include TSTEP entry in bulk data.

4418 *** USER FATAL MESSAGE 4418, NO EIGENVALUE EXTRACTION DATA IS AVAILABLE.

A dynamic analysis was requested but no eigenvalue extraction data is available. Include eigenvalue extraction data EIGR, EIGRL, EIGC, etc. in bulk data.

Possible causes are:
METHOD entry in Case Control, No EIGR or EIGRL in Bulk Data   METHOD entry in Case Control, EIGRL Entry in Bulk Data, No RF3D83   (SOL 3 only)   No correspondence between Set IDs on METHOD and EIGR/EIGRL

4419 *** USER FATAL MESSAGE 4419, NO QSET BUT REQUIRED FOR DYNAMIC REDUCTION.

Dynamic reduction was requested for dynamic analysis but no QSET was specified. Define QSET in bulk data.

4420   ***   USER WARNING MESSAGE 4420, THE FOLLOWING DEGREES OF FREEDOM ARE POTENTIALLY SINGULAR.

During decomposition, the degrees of freedom listed had pivot ratios greater than MAXRATIO. Verify that the degrees of freedom are not part of a mechanism or rigid body mode and that elements do not have excessive stiffness relative to nearby elements. In superelement analysis, this will cause run termination.

PARAM,BAILOUT,-1 may be used to continue the run, however, results may not be reliable.

4421   ***   USER FATAL MESSAGE 4421, NO FREQUENCY RESPONSE LIST AVAILABLE.

A frequency response dynamic analysis was requested but no frequency data is available.

Include frequency data (FREQ, FREQ1, FREQ2) in bulk data.

4422   ***   USER FATAL MESSAGE 4422, NUMBER OF NULL ROWS IN THE DYNAMIC MATRICES IS NOT EQUAL TO THE NUMBER OF NULL COLUMNS. AUTOMATIC CONSTRAINT CANNOT BE PERFORMED.

This problem may be caused by improper direct inputs for K2PP, M2PP and B2PP. Check all DMIGs and TFs defining K2PP, M2PP and B2PP. It can also occur when all input matrices are null.

This problem may also be caused by singularities in the model.

Check the constraints in the model.

4423   ***   USER FATAL MESSAGE 4423, A NONLINEAR ELEMENT IS ATTACHED TO AN OMITTED DEGREE OF FREEDOM.

In material and geometric nonlinear analysis all nonlinear elements must not be attached to o-set degrees of freedom. Move the degree of freedom to the a-set.

This error will occur if there are QSETi entries present but no ASETi or OMITi entries.

4424   ***   USER WARNING MESSAGE 4424, AN ERROR HAS OCCURRED DURING THE NONLINEAR ITERATION. SEARCH THE PRECEDING OUTPUT FOR SPECIFIC ERROR MESSAGES.

If a user fatal error occurs during the nonlinear iteration in NLITER or NLTRD, the program will continue with the data recovery after issuing the error message.

This is to recover the converged solutions as much as possible.

Search for the specific user fatal error message that caused this termination. Make an appropriate correction and restart the run.

4425   ***   USER FATAL MESSAGE 4425, ONE OR MORE FATAL ERRORS HAVE OCCURRED. THERE MAY BE MORE ERROR MESSAGES IN THE PRECEDING OUTPUT.

One or more modules has found a fatal error condition.

A message is printed for each fatal error condition.

They have set a flag, which causes this message to be printed at the end of the run. Error messages may occur anywhere in the output, so you should search your output for these errors (search for FATAL).

This message is most likely when PARAM,ERROR,0 is used. However, this error will be issued in

superelement analysis if User Warning Message 4698 is also issued.

In cyclic symmetry analysis, if no eigenvalues are found in the prescribed frequency range on the EIGR or EIGRL entry for the current harmonic, the run will not continue to the next harmonic and the message will result. Instead of selecting a frequency range, input the desired number of modes.

4500 *** USER WARNING MESSAGE 4500, STIFFNESS MATRIX PURGED. GRID POINT SINGULARITY NOT TESTED.

The stiffness matrix (KGG) input to module GPSP was purged. No singularity testing was possible. This can occur normally during checkout of downstream superelements before their upstream components are reduced. Assemble and reduce the upstream superelements.

4501 *** USER FATAL MESSAGE 4501, RLOADi CARD SELECTED IN TRANSIENT ANALYSIS. USE TLOADi.

RLOADi entries are used in frequency response analysis.
They have no meaning in transient analysis. Replace RLOADi with TLOADi entries.

4502 *** USER WARNING MESSAGE 4502, ALL PLOT VECTORS FOR SEUPPLOT **** DO NOT HAVE THE SAME NUMBER OF COLUMNS.

The SEUPPLOT command causes plot vectors that were generated for each superelement to be combined. There must be an equal number of vectors for all superelements. Common causes of this error include not using the same SUBCASE - SUBCOM - REPCASE structure for all superelements and restart errors. Print the database dictionary, and inspect the number of columns in all PUGV matrices. Rerun any superelement with an incorrect number through data recovery.

4503 *** USER FATAL MESSAGE 4503, SELECTED ELIST BULK DATA CARD WITH ID **** CANNOT BE FOUND.

An ELIST entry selected on an MFLUID Bulk Data entry could not be found in the MATPOOL.

4504 *** USER FATAL MESSAGE 4504, COMPRESSIBLE FLUID (MFLUID SET = ****) NOT ALLOWED FOR SUPERELEMENT ID = ****, ONLY ALLOWED ON THE RESIDUAL STRUCTURE.

Compressible fluid may only be placed on the elements of the residual structure - not on upstream superelements.

4505 *** USER WARNING MESSAGE 4505, THE LIMIT OF 90 DEGREES ON GIMBAL ANGLE Y HAS BEEN EXCEEDED FOR POINT SIL = *****.

In large displacement analysis the rotational degrees of freedom are represented by gimbal angles. The transformations at angle = 90 become singular. To avoid the problem choose the local Z axis for large angle motion.

Sometimes the gimbal angle has nothing directly to do with this message.
In nonlinear models with plate elements, a small or undefined value of K6ROT has caused this message. Increase the value of K6ROT. Note, there has been a change in the default of K6ROT in the nonlinear solutions in the past few versions, so this may not necessarily apply to V67. If this is the cause, then this message occurs within the first few iterations.

Another possible way to avoid this message is to decrease the size of the load increment. This will avoid a large incremental change in the gimbal angle.

4506 *** USER WARNING MESSAGE 4506--- TOTAL STRAIN ENERGY IS ZERO. THE PERCENT OF TOTAL STRAIN ENERGY IS ALSO SET TO ZERO.

4507 * USER INFORMATION MESSAGE 4507--- IN SUBCASE ********
THERE ARE **** ******** ELEMENTS HAVING STRAIN ENERGY WHICH IS
LESS THAN ******* PERCENT OF THE TOTAL STRAIN ENERGY OF ALL ELE-
MENTS.**
4508 * USER FATAL MESSAGE 4508, A GRID ID AND COMPONENT HAS
BEEN SPECIFIED TWICE ON DMIG ********.**

The referenced DMIG matrix has an element input more than once. This is not allowed, even if
both entries are of the same value. Delete all multiple entries.

4509 * USER FATAL MESSAGE 4509, A GRID AND COMPONENT HAVE
BEEN SPECIFIED TWICE ON TF FUNCTION ****.**

The referenced TF entry has an element input more than once. Delete all multiple entries.

4511 * USER FATAL MESSAGE 4511, SUBCASE ***** DOES NOT REFER-
ENCE AN NLPARM BULK DATA CARD. (REQUIRED BY NON-LINEAR ANAL-
YSIS).**

Each subcase in a nonlinear analysis must contain an NLPARM Bulk Data entry selection. The
subcase indicated does not contain this selection.

4512 * USER FATAL MESSAGE 4512, SUBCASE ***** REFERENCES
UNDEFINED NLPARM ID=*****.**

The NLPARM Bulk Data entry referenced in the subcase indicated does not exist in the MPT.

4519 * USER WARNING MESSAGE 4519, A TIME CARD IS MISSING.
THE DEFAULT TIME LIMIT IS ONE MINUTE.**

The Executive Control statement "TIME" provides the internal NX Nastran time limit.

4520 * USER INFORMATION MESSAGE 4520, THE PROJECTION OF
THE X-AXIS OF THE USER SUPPLIED COORDINATE SYSTEM ID, ****, IS
ORIENTED AT AN ANGLE OF, *****, TO SIDE 1-2 OF THE ELEMENT ID ****.**

The user supplied material orientation coordinate system ID for the QUAD4, QUAD8, TRIA3 or
TRIA6 element is oriented at an angle of Theta = ****, to lines = constant of the element. This
message is printed only when DIAG 26 is in the Executive Control Section.

4521 * USER FATAL MESSAGE 4521, THE X-AXIS OF THE USER SUP-
PLIED COORDINATE SYSTEM ID, ****, IS NORMAL TO THE PLANE OF THE
ELEMENT ****.**

The user supplied material orientation coordinate system x-axis is normal to the plane of the ele-
ment and, hence, the material orientation angle with lines = constant of the element is indetermi-
nate. Choose a new coordinate system ID whose x-axis is not normal to the plane of the
element.

4522 * USER FATAL MESSAGE 4522, THE NON-RECTANGULAR AREA
ELEMENTS ARE DIVIDED INTO TWO AREA3 ELEMENTS BY THE PRO-
GRAM. THIS HAS CREATED TOO MANY ELEMENTS FOR THE PROGRAM
TO HANDLE. INCREASE YOUR MEMORY REQUEST OR DECREASE THE
NUMBER OF ELEMENTS.**

Increase memory.

4523 * USER FATAL MESSAGE 4523, ERROR IN CHBDY CARD ********.**
THE GRID POINTS OF A LINE ELEMENT MUST BE DISTINCT.
VECTOR (V1, V2, V3) MUST NOT BE THE ZERO VECTOR NOR MAY IT COINCIDE WITH THE
LINE CONNECTING THE TWO GRID POINTS.

CHBDY entry defines an illegal line element.

4524   *   USER FATAL MESSAGE 4524, ERROR IN CHBDY CARD ******.**
THIS CARD REFERENCES AN UNDEFINED VIEW CARD.

Either the VIEW entry number in field 9 of the CHBDY entry is incorrect, or the VIEW entry is incorrect (field 1 or 2).

4525   *   USER WARNING MESSAGE 4525, THE USER HAS SPECIFIED A ZERO SUBELEMENT**
MESH SIZE FOR CHBDY CARD ******. THE PROGRAM DEFAULTS TO A 1X1 MESH SIZE AND CONTINUES PROCESSING.

The results are quite sensitive to subelement mesh size.

4526   *   USER FATAL MESSAGE 4526, ERROR IN PHBDY CARD ******.**
THE AREA SPECIFIED MUST BE POSITIVE.

Element must be given positive areas.

4527   *   USER FATAL MESSAGE 4527, ERROR IN CHBDY CARD ******.**
GRID POINTS ********* AND ********* ARE COINCIDENT.

Coincident grid points will not properly define the element shape specified in field 4 of the CHBDY entry.

4528   *   USER FATAL MESSAGE 4528, ERROR IN CHBDY CARD *********.**
AN AREA4 ELEMENT MUST BE A QUADRILATERAL CONTAINING NO ANGLE GREATER THAN OR EQUAL TO 180 DEGREES. THE GRID POINTS MUST BE SPECIFIED SEQUEN-TIALLY AROUND THE QUADRILATERAL.

4529   *   USER FATAL MESSAGE 4529, ERROR IN CHBDY CARD *********.**
VECTOR (V1, V2, V3) MUST NOT BE THE ZERO VECTOR. FIELDS 6, 7, AND 8 OF THE CON-TINUATION CARD OF THE CHBDY CARD WERE ALL FOUND TO BE ZERO.

Thus, a vector V = (0, 0, 0) was defined. The element type (either POINT or LINE) defined in field 4 of the CHBDY entry requires V to be nonzero.

4530   *   USER FATAL MESSAGE 4530, ERROR IN CHBDY CARD *********.**
THE FOUR GRID POINTS MUST ALL BE IN ONE PLANE.

All four grid points of AREA4 element must be coplanar.

4531   *   USER WARNING MESSAGE 4531, EITHER NB OR NG HAS BEEN CALCULATED AS ZERO FOR THE SECOND TRIANGLE COMPOSING CHBDY CARD ******. REPLACE THE ZERO WITH A ONE.**

The AREA4 element was split into two triangles as it is nonrectangular. The MESH distribution for NB and NG yielded a zero MESH. It was changed to one. The user should consider replac-ing AREA4 with two AREA3 elements to assume control of the MESH.

4532   *   USER FATAL MESSAGE 4532, FOR LOAD SET = ****, A ******** CARD REFERENCES UNDEFINED GRID ID = ****. WHERE ******** = FORCE, FORCE1, MOMENT, MOMENT1, PLOAD.**

The referenced entry refers to a grid point ID that is not in the Bulk Data deck.

4533   *   USER FATAL MESSAGE 4533, FOR LOAD SET = *****, AN SLOAD CARD REFERENCES UNDEFINED SCALAR ID = *****.**

SLOAD entries may only reference legitimate SCALAR points.

4534   *   USER INFORMATION MESSAGE 4534, ***** ELEMENTS HAVE A**

TOTAL VIEW FACTOR (FA/A) LESS THAN 0.99, ENERGY MAY BE LOST TO SPACE.

Some radiation HBDY elements have a column sum in the RADMTX matrix which is less than the element area. If you intended to allow energy loss, no action is required. If you do not want the loss, adjust the values on the RADMTX input data entries.

4535 *** USER WARNING MESSAGE 4535, CHBDY ELEMENT ******** HAS NO NORMAL OR BAD GEOMETRY WHICH MAKES IT UNPLOTABLE.

CHBDY types "POINT" and "LINE" must have an orientation vector. For type LINE the two grid points must be spatially distinct and not define a line colinear with the orientation vector (V1, V2, V3 on CHBDY entry).
Check V1, V2 and V3 on CHBDY entry.

4536 *** USER FATAL MESSAGE 4536, A FREE FIELD BULK DATA CARD HAS GENERATED AN INTEGER THAT OVERFLOWS THE ALLOWED 8 COLUMNS.

The free field Bulk Data entry generator only works with 8 column fields, but input to it generated an integer less than -9999999 or greater than 99999999.
Redesignate the numbering scheme or switch to double field entries. NOTE: Double field entries CANNOT be generated using free field entries.

4536 *** USER WARNING MESSAGE 4536, COL ******, ROW ****** OF RADMTX IS NEGATIVE (-*.******E**).

A negative RADMTX value is not valid for a real structure, since it corresponds to a negative view factor. Correct RADMTX entries.

4537 *** USER INFORMATION MESSAGE 4537, TOTAL VIEW FACTOR (FA/A), FOR ELEMENT ******* IS *.0000E+00 (ELEMENT AREA IS *.*****E+01).

This information is requested by SYSTEM(88) = 1.
Correct RADMTX data, unless it is intended to radiate to space (lost to zero absolute temperature surroundings).

4538 *** USER FATAL MESSAGE 4538, UNABLE TO FIND SELECTED NLPARM SET (********) IN **** DATA IN SUBROUTINE ******.

The set identification was either not selected within case control or the bulk data entry for the set was not supplied. Check both the case control and bulk data for the requested NLPARM set.

4539 *** USER FATAL MESSAGE 4539, THE NLPARM/TETEPNL DATA CARDS HAVE NOT BEEN ENTERED.

The user requested nonlinear analysis and supplied the correct Case Control commands but did not supply the corresponding NLPARM OR TSTEPNL Bulk Data entries.
Enter the corresponding NLPARM or TSTEPNL Bulk Data entries.

4540 *** SYSTEM FATAL MESSAGE 4540, INPUT ESTNL DATA BLOCK IS NOT NONLINEAR FORMAT.

The EST data block which was submitted to the nonlinear iteration module was not in the correct format. This implies that the nonlinear appendages were nonexistent and no computations can be performed. (This is detected by the fact that the second trailer word for linear EST data blocks is a zero, and it is non-zero for nonlinear appendage format.) Make sure that the DMAP has the correct EST data block as the input to the NLITER module.

4542 * USER WARNING MESSAGE 4542, NO LOAD INCREMENT EXISTS FOR NONLINEAR SUBCASE.**

The DELPLV data block, which is the incremental load vector for the subcase, was null. This implies that no change in the nonlinear load occurred. Review the LOAD requests and make sure a valid SUBCASE was selected.

4543 * USER WARNING MESSAGE 4543, NO INCREMENTAL DISPLACE-MENTS EXIST FOR NONLINEAR SUBCASE.**

On a NLITER restart condition the nonlinear incremental displacement vector was zero. Review the SUBCASE and LOAD options for correctness.

4546 * SYSTEM FATAL MESSAGE 4546, ESTNL AND FILE (***) ARE NOT PROPERLY ALIGNED.**

The nonlinear EST file has become misaligned with the associated file number. Check that no elements have been inadvertently eliminated. Review element and set definitions.

4547 * SYSTEM FATAL MESSAGE 4547, NO ELEMENT STIFFNESS MATRIX FOUND FOR ELEMENT *******.**

No element stiffness matrix was found on the KELEM file.

All nonlinear elements must have a stiffness matrix.

Review properties and element definition.

4548 * USER FATAL MESSAGE 4548, SINGULAR (C-KRR) MATRIX ENCOUNTERED FOR BEAM ELEMENT ********.**

A singular BEAM plastic hinge matrix was detected.

Review definition of BEAM element.

4549 * USER FATAL MESSAGE 4549, SINGULAR (C+KRRR) MATRIX ENCOUNTERED FOR BEAM ELEMENT ********.**

A singular BEAM plastic hinge update matrix was encountered. Review definition for BEAM element.

4550 * USER INFORMATION MESSAGE 4550, *** NEW STIFFNESS MATRIX REQUIRED *** .**

This is issued based on the stiffness matrix update strategy specified on the NLPARM or TSTEPNL entry, or when the adaptive gap element stiffens or its penalty value is adjusted after convergence.

4551 * USER FATAL MESSAGE 4551,STOPPED PROBLEM DUE TO (***) or USER FATAL MESSAGE 4551, PREVIOUS MESSAGE HAS OCCURRED ON FIVE CONSECUTIVE TIME STEPS.**

A solution is not possible. Review NLPARM requests and modify to select a better solution approach.

4553 * USER FATAL MESSAGE 4553 (NCONVG), DIVISION BY ZERO IN THE CONVERGENCE TEST RESULTED FROM THE ABSENCE OF AN APPLIED LOAD (P) OR LOAD INCREMENT (DELTA P).**

USER ACTION: REVIEW THE INPUTS TO THE NLITER MODULE AND MAKE ADJUST-MENTS SO THAT THE ILLEGAL OPERATION WILL NOT OCCUR.

4557 * USER WARNING MESSAGE 4557, THE ABOVE FREE FIELD BULK DATA CARD IS INCORRECTLY FORMATTED. THIS CARD WILL MOST LIKELY BE FLAGGED AS A FATAL ERROR LATER ON.**

There was an error in the free field format. Most likely an "=(n)" was coded outside of field 1, there was a parenthesis mismatch, or an alphabetic character incorrectly included in a numeric field (e.g., "*(1.2F7)" instead of "*(1.2E7)." Correct the entry.

4558   ***   USER FATAL MESSAGE 4558, INAPPROPRIATE GEOMETRY, OR INCORRECT MATERIAL DATA SPECIFIED FOR ELEMENT WITH ID =

******, SUBROUTINE REASON IS NUMBER ***.

The input user geometry yielded an unacceptable local element geometry which would result in an illegal mathematical operation. The reason codes specified in the message are defined below.

Reason Codes 1,2,3,4,5,16: INAPPROPRIATE -TRIA3-GEOMETRY.
Reason Codes 6,7,13,14,15: MID2 MATERIAL -G- 3X3 MATRIX INSUFFICIENT, MATERIAL ID = ******.
Reason Code 8: ZERO MOMENT OF INERTIA HAS BEEN COMPUTED.
Reason Codes 9,10: MID3 MATERIAL -G- 2X2 MATRIX INSUFFICIENT, MATERIAL ID = ******.
Reason Codes 11,12: SINGULAR TRANSVERSE SHEAR MATRIX-Z-.

Review the element grid locations and properties for acceptable values.

4559   ***   USER FATAL MESSAGE 4559, ILLEGAL GEOMETRY FOR TRIA3 ELEMENT WITH ID = ********.

An illegal geometry was determined while calculating the local element reference system. Check the element grid locations and properties for acceptable values.

4560   ***   USER INFORMATION MESSAGE 4560, QUAD4 ELEMENT WITH ID =

******** HAS A MEMBRANE PROPERTIES MATERIAL ID=0 AND THUS IS NOT CONSIDERED TO BE NONLINEAR.

4561   ***   USER WARNING MESSAGE 4561, INSUFFICIENT MEMORY FOR MODE ORTHOGONALITY CHECKS.

The amount of memory needed for eigenvector orthogonalization is 1/2 [number of eigenvectors * (number of eigenvectors +1)] + 2 * BUFFSIZE + number of eigenvalues. If this equation is not met, the modes are orthogonalized but the checking function is not performed. However, all outputs from the module are provided. If the check is desired, the user should either increase memory or decrease the number of eigenvectors to meet the above equation.

4562   ***   USER FATAL MESSAGE 4562, TSTEP (TIME STEPS) DATA IS MISSING.

Transient analysis requires the time step data. Add a TSTEP Bulk Data entry, and select it with a Case Control command.

4566   ***   USER FATAL MESSAGE 4566, SCALED RESPONSE SPECTRA REQUESTED BUT SPECSEL FILE NOT IN DATABASE.

The Bulk Data entry used to control scaled response spectra is named DTI,SPSEL. It is described in Section 2.4 under that name. It must be stored in the database using a DMAP alter, as described on the referenced entry description. Print the database directory to see if the SPSEL block is present.

See also Error Report 3042.

4567   ***   USER WARNING MESSAGE 4567, NEW HESSENBERG METHOD,

FAILED TO CONVERGE. ALTERNATE METHOD RECOMMENDED.

For certain pathological problems, the transformation method may fail. In UGS testing, this has occurred only for problems with multiple real roots or complex conjugate roots with zero-real components. Avoidances are to add a small damping or stiffness term, to add degrees of free-dom, or otherwise perturb the problem to separate the roots on the real axis or move them into the complex plane.

4568   ***   USER WARNING MESSAGE 4568, THE NUMBER OF SPEC-TRUMS SELECTED ON THE DLOAD CARD DOES NOT MATCH THE NUM-BER OF SUPPORT POINTS. CALCULATIONS FOR THIS SUBCASE TERMINATED.

The DLOAD Bulk Data entry is used for an unconventional purpose in response spectrum analy-sis. It is required, and is used to place a scaling factor on each coordinate with enforced motion. Each of these coordinates must also be on SUPORT Bulk Data entries. (Reference NX Nastran Application Manual, Section 2.15.3.5).

Change the number of pairs of Si, Li entries to match the number of coordinates where enforced motion occurs.

4569   ***   USER FATAL MESSAGE 4569, ERROR ON RECORD **** OF **** - WRONG TYPE, NO TABLES OR INCOMPLETE PAIRS.

An error has been found in the DTI Bulk Data entries used for response spectra input.

Check your input against the examples given in the Handbook for Dynamic Analysis. In particu-lar, check for the presence of "D", "U", or "A" on each record.

4570   ***   USER INFORMATION MESSAGE 4570, DATA BLOCK *** NOT FOUND IN DATABASE. NO LOAD DATA EXISTS FOR UPSTREAM SUPER-ELEMENT ***.

One of the matrices needed for load assembly was not found on the database. It is assumed that no loads exist for this superelement.

4571   ***   USER (WARNING/FATAL) MESSAGE 4571, THE PARAMETER NEWSEQ FOR THE SEQUENCER MODULE HAS A VALUE (***)

The referenced parameter is set to an illegal value.

See 3.1 of the User's Manual for proper values for the parameter, and their action.

4572   ***   USER FATAL MESSAGE 4572, RESEQUENCING PROCESSING CANNOT BE COMPLETED.

The resequencing algorithm has failed to converge.

Avoidances are: (1) request more memory; (2) divide the structure into groups, using the SESET bulk data entry;

(3) avoid the resequencing operation by use of PARAM,NEWSEQ,-1.

4574   ***   USER FATAL MESSAGE 4574, DATA RECOVERY STARTED BUT NO DISPLACEMENT VECTORS AVAILABLE.

The SDR1 module has begun to expand the displacement vector from solution set size to g-set size, but no solution set vector is available. Usual causes are a null load vector. Check the load-ing input. If only enforced displacements are desired, add a very small load to produce a load vector.

This message may also occur in a non-superelement unstructured solution sequence if SEALL, SEMG, SELG, SEKR, SELR, or SEMP are used in the Case Control.

4575 * USER FATAL MESSAGE 4575, DATA BLOCK filename FOR SUPERELEMENT seid IS PURGED IN MODULE SELA.**

The input load matrix for the superelement being assembled is purged. This is probably caused by attempting to perform the SELR operation prior to SELG.

Perform SELG for the offending superelement.

4576 * USER WARNING MESSAGE 4576, RESPONSE SPECTRA REQUESTED BUT DTI,SPECSEL NOT PRESENT. DISPLACEMENT OR VELOCITY OUTPUT REQUEST FOR GRID POINT *** REFERENCED IN DTI,SPSEL NOT PRESENT IN CASE CONTROL. NO SCALED RESPONSE SPECTRA WILL BE CALCULATED FOR IT.**

Response spectra of the form requested by XYPLOT SPECTRAL etc. requires the presence of the DTI Bulk Data entries named SPECSEL. See Application Manual Section 2.15. Scaled response spectra of the form requested by XYPLOT SPECTRAL etc. has been listed on the required Bulk Data entry DTI,SPECSEL, but not in DISP and VELO Case Control requests. Add Case Control requests for DISP and VELO.

4577 * USER FATAL MESSAGE 4577, PLOAD4 SET = xxxxxxxx REFERENCES ELEMENT ID = yyyy WHICH WAS NOT FOUND AMONG TRIA3, TRIA6, QUAD4, QUAD8, HEXA, OR PENTA ELEMENTS IN THE PROBLEM.**
4578 * USER FATAL MESSAGE 4578, PLOAD4 LOAD SET = **** WITH DIAGONAL CONNECTING GRIDS yyyy AND zzzz IS INCORRECT FOR ELEMENT WITH ID = vvvv.**

The two grids must be at opposite corners of a quadrilateral face.

4579 * USER FATAL MESSAGE 4579, PLOAD4 LOAD SET = ****. PENTA ELEMENT *** DOES NOT CONTAIN GRID *** AS A CORNER NODE FOR EITHER TRIANGULAR FACE.**
4580 * USER WARNING MESSAGE 4580, DET METHOD HAS CONVERGED TO A MULTIPLE POLE AT ***. INCREASE M.**

The EIGP Bulk Data entry is used to input known roots ("poles"), and the number of roots at the pole (the multiplicitly, "M"). If M is underestimated, the method will not converge. If this condition is detected, the iteration process is halted. Increase M.

4581 * USER WARNING MESSAGE 4581, PK FLUTTER ANALYSIS FAILED TO CONVERGE FOR LOOP ******, ROOT ******.**

When using the PK-method for flutter analysis, the FA1 module may not always converge to a solution. The last estimate has been kept for output. If DIAG 39 is used, the iteration data can be printed for examination.

4582 * USER WARNING MESSAGE 4582, LSEQ CARD SID = *** REFERS TO A NONEXISTENT STATIC LOAD MATRIX COLUMN *** (NCOLS = ***).**

The most likely cause is from changing an LSEQ entry on a restart without regenerating and assembling the static load matrix. This error is detected in subroutine DPD2.

4584 * SYSTEM WARNING MESSAGE 4584, UNABLE TO EXECUTE THE SEQUENCER PROCESSOR DUE TO THE LACK OF CONNECTION DATA.**

No connection data could be found probably due to missing or incomplete Bulk Data entries.

4585 * USER WARNING MESSAGE 4585, PLOAD1 WITH SID **** HAS AN APPLIED LOAD BEYOND THE END OF LID ****.**

The load specified or the element specified is being applied outside the end points of the BAR, BEAM or BEND element. The load will be applied correctly, but it is probably not what was

desired. The effective values for X1 and X2 on the PLOAD1 entry should be less than or equal to 1.0.

4587 *** USER FATAL MESSAGE 4587, NO LOAD DATA AVAILABLE FOR CYCLIC SYMMETRY ANALYSIS.

A cyclic symmetry analysis was requested but no load data is available. Include load data in model (i.e.

LOADCYN, LOADCYH, or LOADCYT and other appropriate load data). For superelement analysis the user must include loads in all superelements.

4588 *** USER WARNING MESSAGE 4588, NONZERO PRODUCT OF INERTIA (I12) FOR BAR ELEMENT. IGNORED FOR DIFF STIFF CALCULATIONS.

This message will be printed out when a nonzero I12 term encountered during differential stiffness formulation in buckling analysis. Either put inertia terms in principal axes or change to a BEAM element.

4589 *** USER INFORMATION MESSAGE 4589, PARAMETERS FOR SEQP MODULE. ADDITIONAL MEMORY FOR NO SPILL = ***.

The performance of the SEQP module is improved if spill is avoided. This message appears when spill is necessary, and lists the amount of additional memory required to avoid spill for the largest group being processed. Increase memory or REGION.

Another way to avoid spill is to break large groups into several smaller groups. See Section 1.2.2.

4590 *** USER WARNING MESSAGE 4590, A SURFACE OR VOLUME CARD HAS BEEN IMPROPERLY DEFINED - IGNORED.

The SURFACE or VOLUME command does not have a valid ID.
Check all SURFACE or VOLUME commands for proper integer IDs.

4591 *** USER WARNING MESSAGE 4591, ILLEGAL PARAMETER SPECIFICATION ON A SURFACE OR VOLUME. ID = ****.

The SURFACE or VOLUME command indicated contains data which cannot be properly interpreted or which is not a legal value for a given parameter. Check indicated SURFACE or VOLUME commands for illegal data.

Note that the Application Manual page 2.2-13 shows an OUTPUT parameter in field 4; this is an illegal parameter and should be removed (see Error Report 2612).

4592 *** USER WARNING MESSAGE 4592, THE SURFACE OR VOLUME CARD WITH ID = **** HAS NO SET SPECIFICATION - IGNORED.

The SURFACE or VOLUME command indicated does not select a set of elements. Check indicated SURFACE or VOLUME command for missing set ID specification.

4593 *** USER WARNING MESSAGE 4593, THE SURFACE OR VOLUME CARD WITH ID = XXXX HAS COLINER AXIS AND NORMAL SPECIFICATION. NOT ALLOWED - SURFACE OR VOLUME WILL BE IGNORED.

The SURFACE or VOLUME command indicated fails to select different axis and normal specifications. Check indicated SURFACE or VOLUME command for improper AXIS/NORMAL specification combination. They must be different.

4594 *** USER WARNING MESSAGE 4594, THE POSTCDB CONTAINS NO

LEGITIMATE SURFACE OR VOLUME DEFINITIONS.

Since no legitimate SURFACE or VOLUME commands exist, processing stopped. Check OUTPUT(POST) and Case Control grid point stress requests for consistency. Also, make sure that SURFACE is spelled correctly (see Error Report 3576).

4595 * USER WARNING MESSAGE 4595, UNABLE TO OPEN NASTRAN DATA BLOCK ******** IN GPSTR1 MODULE. PROCESS STOPPED.**

An essential data block to module GPSTR1 is purged. A programming logic error exists in GPSTR1 which failed to supply the indicated data block.

4596 * USER WARNING MESSAGE 4596, A SURFACE CARD WITH ID = ******** REFERENCES A NONEXISTENT SET ID = ********.**

The set referenced on the surface card has not been defined within the post control section of the CASE CONTROL, i.e. OUTPUT(POST). Check OUTPUT(POST) and Case Control grid point stress requests for consistency of SURFACE definitions.

4597 * USER WARNING MESSAGE 4597, A SURFACE CARD WITH ID = **** REFERENCES A SET ID = **** WHICH CONTAINS NO ELEMENTS OF PERMISSABLE TYPE.**

The set referenced contains no QUAD4, QUAD8, QUADR, TRIA3, TRIA6 or TRIAR elements. Grid point stresses are not calculated which contain no elements of permissible types.

4598 * USER WARNING MESSAGE 4598, REFERENCE COORDINATE SYSTEM **** SPECIFIED ON SURFACE CARD **** IS NOT DEFINED IN CSTM. SURFACE IGNORED.**

The surface card references a nonexistent coordinate system. Reference coordinate system on indicated SURFACE is not defined in (superelement) model. Surface ignored.

4599 * USER WARNING MESSAGE 4599, THE REFERENCE STRESS OUTPUT X-AXIS IS PERPENDICULAR TO STRESS SURFACE **** AT ELEMENT ****, GRID ID = ****. STRESSES ARE ILL-DEFINED AT THIS GRID POINT.**

The reference stress output X-AXIS does not project on the local average surface for indicated element. The element to output stress rotation angle and fiber consistency cannot be determined. Keys are assumed to be the same. Stresses are ill-defined at the indicated grid point number.

Check reference output system and AXIS specification for consistency with indicated element.

4600 * USER WARNING MESSAGE 4600, THE REFERENCE STRESS OUTPUT NORMAL IS NEARLY PARALLEL TO ELEMENT, SURFACE ****, AT ELEMENT ****, GRID ID = ****.**

The reference stress output NORMAL nearly lies in the element surface. Element fiber to output fiber consistency may be incorrect. Stress must indicate internal grid point number may not be valid. Check reference output system and NORMAL specification for consistency with indicated element.

4601 * USER WARNING MESSAGE 4601, THE REFERENCE STRESS OUTPUT X-AXIS IS NEARLY PERPENDICULAR TO ELEMENT, SURFACE ****, AT ELEMENT ****, GRID ID = ****.**

The reference stress output X-AXIS does not project on the element surface. Element to output stress rotation angle cannot be determined. Rotation angle set to 0.

Stresses at indicated internal grid point number may not be valid. Check reference output sys-

tem and AXIS specification for consistency with indicated element.

4602 * USER WARNING MESSGE 4602, BREAK WARNING MESSAGE - GRID **** IN SURFACE **** CONNECTS TO A LINE SEGMENT SHARED BY MORE THAN TWO ELEMENTS.**

Indicated grid point connects to a line segment shared by more than two elements (GEOMETRIC interpolation only). Stress at indicated internal grid point may not be valid.

4603 * USER FATAL MESSAGE 4603, THE LSEQ SET ID **** IS NOT UNIQUE WITH RESPECT TO OTHER STATIC LOAD IDS.**

LSEQ set IDs must be unique with respect to all other static load set IDs.

4604 * USER FATAL MESSAGE 4604, FLUID MASS INTEGRATION ROU- TINE HAS DETECTED ILLEGAL GEOMETRY. SENDER ELEMENT ID = ****, RECEIVER ELEMENT ID = ****.**

Surface elements used for virtual mass must not overlap.
This message occurs when the center of a receiver element lies at an edge of a sender element.
Correct geometry or selection of elements.

4605 * USER FATAL MESSAGE 4605, INPUT MATRIX **** IS INCOMPATI- BLE WITH ITS ASSOCIATED OUTPUT LIST (I.E., TOL, FOL, LAMA, CLAMA).**

Input matrix to module MODACC has fewer columns than its output list indicates. Probable DMAP error.

4606 * USER WARNING MESSAGE 4606, SURFACE ID **** HAS BEEN MULTIPLY DEFINED. LAST DEFINITION USED.**

4607 * USER WARNING MESSAGE 4607, NO PSOLID CARDS FOUND - GPSTR1 MODULE TERMINATED.**

4608 * USER WARNING MESSAGE 4608, FROM GPSTR1, COORD. SYS- TEM SPECIFIED ON PSOLID CARD BUT NO CSTM DATA BLOCK.**

4609 * USER WARNING MESSAGE 4609, FOR ELEMENT ID = **** THE CORNER POINTS HAVE NOT BEEN SUPPLIED CORRECTLY. GPSTR1 TER- MINATED.**

4620 * USER WARNING MESSAGE 4620, GPSTRESS REQUEST IN SUB- CASE ****. IGNORED SINCE NO GPL INPUT.**

4621 * USER WARNING MESSAGE 4621, NO STRESS REQUESTED FOR ELEMENT **** SUBCASE **** REQUIRED FOR SURFACE **** GRID STRESS.**

Stress output for the specified element was not requested. This stress output is required to cal- culate the grid stresses for the specified surface.

4622 * USER WARNING MESSAGE 4622, CASECC MISSING, GPSTR2 PROCESSING TERMINATED.**

4623 * USER WARNING MESSAGE 4623, OES1 MISSING, GPSTR2 PRO- CESSING TERMINATED.**

4624 * USER FATAL MESSAGE 4624, EGPSF MISSING, GPSTR2 PRO- CESSING TERMINATED.**

4625 * USER FATAL MESSAGE 4625, INSUFFICIENT MEMORY FOR GPSTR2 MODULE GINO BUFFER ALLOCATION.**

4626 * USER FATAL MESSAGE 4626, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO PROCESS GPL.**

4627 * USER FATAL MESSAGE 4627, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO PROCESS CASECC.**

4628 * USER FATAL MESSAGE 4628, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO STORE STRFIELD SET.**

4629 * USER FATAL MESSAGE 4629, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO STORE GPSTRESS SET.**

4630 * USER FATAL MESSAGE 4630, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO STORE ELEMENT LIST.**
4631 * USER WARNING MESSAGE 4631, STRFIELD SET **** NOT FOUND IN CASECC SUBCASE ****.**
4632 * USER WARNING MESSAGE 4632, GPSTRESS SET **** NOT FOUND IN CASECC SUBCASE ****.**
4633 * USER WARNING MESSAGE 4633, NO OUTPUT STRESS REQUEST FOR SUBCASE **** SO NO GRID STRESSES CACULATED.**
4634 * USER WARNING MESSAGE 4634, NO STRESSES FOR SUPPORTED ELEMENT TYPES ON OES1 FOR SUBCASE **** SO NO GRID STRESSES CALCULATED.**
4635 * USER WARNING MESSAGE 4635, GPSTRESS REQUEST IN SUBCASE **** IGNORED SINCE OGS1 PURGED.**
4636 * USER WARNING MESSAGE 4636, STRFIELD REQUEST IN SUBCASE **** IGNORED SINCE EGPST PURGED.**
4637 * USER FATAL MESSAGE 4637, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO STORE ELEMENT POINTER LIST.**

GPSTR2 requires at least enough working space to hold in memory an element pointer list consisting of two computer words for each element of a supported type (QUAD4, QUAD8, TRIA3, or TRIA6) selected for output.

4638 * SYSTEM FATAL MESSAGE 4638, LOGIC ERROR SUBROUTINE GPS2GS - SCR1 FILE INCONSISTENT WITH POINTER TABLE. SEARCHING FOR EID ****, FOUND EID ****.**
4639 * USER WARNING MESSAGE 4639, GPSTRESS REQUEST IN SUBCASE **** BUT NO MATCHING SURFACE ID ON EGPSF.**

GPSTRESS must reference set xx, which in turn references SURFACE or VOLUME yy. For example,   SET 21 = 91   GPSTRESS = 21   STRFIELD = 21
...

      OUTPUT(POST)   ...
      SURFACE 91 ---

4640 * USER WARNING MESSAGE 4640, STRFIELD REQUEST IN SUBCASE **** BUT NO MATCHING SURFACE ID ON EGPSF.**

STRFIELD must reference set xx, which in turn references SURFACE or VOLUME yy. For example,   SET 21 = 91   GPSTRESS = 21   STRFIELD = 21   ...
      OUTPUT(POST)   ...
      SURFACE 91 ---

4642 * USER WARNING MESSAGE 4642, NLPARM SET **** DISPLACEMENT CONVERGENCE OPTION IS INVALID FOR MATRIX UPDATE INTERVAL OF ONE WHEN METHOD IS EITHER ITER OR LSQN. THE WORK (W) CONVERGENCE OPTION HAS BEEN SUBSTITUTED IF NONE SUPPLIED.**
4643 * USER FATAL MESSAGE 4643, DUPLICATE COORDINATE SYSTEM ID **** FOUND.**

Message indicates user has defined a coordinate system twice. Check for duplicate coordinate system IDs on CORD ij entries.

4645 * USER FATAL MESSAGE 4645, THE SHIFTED STIFFNESS MATRIX IS NOT POSITIVE DEFINITE.**

The matrix sum K + lambda*M is given a Cholesky decomposition at the start of the modified Givens Method of eigen solution. This requires that the matrix be positive-definite. Conditions that prevent this are massless mechanisms (for example, a point mass on an offset with no rotational stiffness), or stiffness matrices derived from geometric nonlinear analysis that are in a highly

post-buckled state.

4646   ***   USER FATAL MESSAGE 4646, THE MASS MATRIX IS NOT POSITIVE DEFINITE, USING THE GIV METHOD. USE MGIV INSTEAD.

The reduced mass matrix has columns that are not linearly independent. Common causes are rotation degrees of freedom whose only inertia terms result from point masses on offsets. Use the MGIV method instead, as it does not require a positive definite mass matrix.

4647   ***   USER FATAL MESSAGE 4647, INSUFFICIENT TIME TO COMPLETE *****.

CPU ESTIMATE = *** SEC CPU REMAINING = *** SEC I/O ESTIMATE = *** SEC I/O REMAINING = *** SEC CPU and I/O limits are supplied on the Executive Control statement TIME (in minutes). The module where the program terminated is listed. If the time to completion appears reasonable, the user should increase the estimates on the TIME statement and resubmit the run. For large models, an increase in the system region request should also be considered.

4648   ***   USER WARNING MESSAGE 4648, THE MODAL MASS MATRIX IS NOT POSITIVE DEFINITE.

The modal mass matrix cannot be decomposed by Cholesky algorithms after merging elastic and free-body modes.

(The Cholesky decomposition is used to orthogonalize the eigenvectors with respect to the mass matrix.) Causes include input of negative masses, and calculation of eigenvectors for eigenvalues approaching machine infinity. Inspect the model, or ask for fewer eigenvectors by use of the F2 option. When this condition occurs, the eigenvectors are not orthogonalized or normalized.

The second parameter of the READ module is given a negative sign. This parameter is used in the solution sequences to branch to an error exit after printing the real eigenvalue table.

The user may schedule a DMAP alter to print these eigenvectors, if the cause of the problem is not apparent in the eigenvalues. The solution can be forced to completion by changing the sign of this parameter.

The user should be aware that a poor quality of solution is provided for this case. It may be useful for diagnosing the problem, but should not be used for other purposes.

The error can occur when large offsets (large relative to the element length) are used for the BEAM element and coupled mass has been selected. See Error Report 3647.

4652   ***   USER INFORMATION MESSAGE 4652, THE ADDITIONAL MEMORY ESTIMATE IS ***** WORDS. REDUCE G-SET BY APPROXIMATELY **** DEGREES OF FREEDOM.

For nonlinear problems (either statics or transient) there was insufficient open core space to process the problem. This attempts to estimate the additional memory requirements in machine words and supply an alternative approach to allow the user to reduce his problem size. Either supply more machine memory or reduce the problem size by the indicated amount. This is similar to the UFM 6136.

4653   ***   SYSTEM FATAL MESSAGE 4653, CORE IS IN SUFFICIENT BY A BASE10 AMOUNT = *** WORDS TO PROCESS ELEMENT WITH ID = ***.

Reduce problem size or increase memory.

4654   ***   USER FATAL MESSAGE 4654, ELEMENT WITH ID = ***.
CONNECTS TWO POINTS HAVING THE SAME COODINATES.
CONNECTION ORDER OF GRID POINTS IN QUESTION = *** AND ***.

Two grid points which should be unique are defined as coincident. Check connectivity.

4655   *   USER INFORMATION MESSAGE 4655, RATIO OF LONGEST EDGE TO SHORTEST EDGE EXCEEDS 100 FOR ELEMENT WITH ID ***.**

Aspect ratio too large. Try to idealize the structure in such a way that all the edges are nearly the same size.

4656   *   USER INFORMATION MESSAGE 4656, ELEMENT WITH ID = *** HAS A SIDE WHICH IS CONSIDERABLY OUT OF PLANE.**

One of grid points for the element may be defined wrong.

Check connectivity.

4657   *   USER INFORMATION MESSAGE 4657, CONNECTION ORDER GRID NUMBER ** DOES NOT LIE APPROXIMATELY BETWEEN CONNEC-TION ORDER GRID NUMBERS ** AND ** FOR ELEMENT ID = ***.**

Midside node for the element node may be defined wrong.

Check connectivity of all nodes for the element.

4658   *   USER FATAL MESSAGE 4658, DIFFICULT GEOMETRY PRE-VENTS FURTHER COMPUTATIONS FOR ELEMENT WITH ID = **********

Difficult geometry for solid elements occurs when faces have zero areas, or when Jacobians at integration points do not all have the same sign, which signifies that the edges are crossed. In geometric nonlinear analysis, tests are made for initial and deformed geometry.

Elements should be modeled such that their faces are as nearly equilateral as possible and mid-side nodes should be positioned close to the center of their edges.

4659   *   USER FATAL MESSAGE 4659, DURING INTEGRATION FOR ELE-MENT WITH ID = ***. BAD GEOMETRY HAS BEEN DETECTED.**

The element may be folding on itself. Check the grid points which connect all the edges of the element.

4660   *   USER FATAL MESSAGE 4660, FOR ELEMENT WITH ID = *** THE CORNER POINTS HAVE NOT BEEN SUPPLIED CORRECTLY.**

Elements like HEXA and PENTA require, at a minimum, 8 or 6 corner points, respectively. Mini-mum number of corner points are mandatory for certain elements. Check connectivity.

4661   *   USER FATAL MESSAGE 4661, ELEMENT *** HAS SINGULAR INTERNAL STRAIN FUNCTIONS. CHECK MATERIAL PROPERTIES.**

Because of 0 in a diagonal element of strain function stiffness matrix, inversion is not possible.

Check to make sure tangent matrix is nonsingular.

4662   *   USER WARNING MESSAGE 4662, SOME VARIABLES ARE RESET TO AVOID OVERFLOW OR UNDERFLOW CONDITIONS IN ELEMENT ID = ****.**

Creep laws are unit dependent. Creep parameters could get into overflow condition if inconsis-tent units are used (e.g. lb and ksi). The program resets the value to 10+38 and continues.

Check structural units (length, force, stress, time, etc.). Reduce the time step (t).

4663   *   USER FATAL MESSAGE 4663, IMPLAUSIBLE STRESS-STRAIN CURVE FOR ELEMENT-ID = ****.**

The yield stress is found to be negative, which is implausible. This could occur if the stress-strain curve is defined for or extrapolated to the negative value of the stress. Check the table for stress-strain curve.

4664   *   USER WARNING MESSAGE 4664, UNREALISTIC VALUE OF STRESSES FOR PLASTIC DEFORMATION IN ELEMENT-ID = ****.**

This message is issued if the second invariant of the deviatoric stress is nearly zero during plastic deformation. This condition should not occur under the normal deformation process. It may be a program error if it happens. Use smaller steps. If this does not work, CONTACT UGS.

4665   *   USER WARNING MESSAGE 4665, THE NUMBER OF LAYERS MUST BE GREATER THAN 0 AND LESS THAN 13. FOR THIS PROBLEM, NLAYER = **.**

NLAYER must be greater than zero and less than thirteen.
NLAYER is the number of layers for integration through the thickness. For bending, it is advisable to have NLAYER greater than 1.

4666   *   USER WARNING MESSAGE 4666, PROBABLE ERROR. NEED MORE LAYERS THAN ONE IF BENDING.**

If bending is present, then wrong results are likely if only one layer is specified for integration through the thickness. Either use the default (5) or specify NLAYERS greater than 1.

4667   *   USER WARNING MESSAGE 4667, INCREMENTAL TIME INTERVAL FOR CREEP ANALYSIS IS EXCESSIVE IN ELEMENT ID = ****.**

This message is issued if the incremental creep strain (primary and/or total creep) is greater than 10-3 or if the incremental stress and/or strain is too large compared to the total stress/strain (i.e. if FSTRESS*(delta-sigma-bar)/(delta-sigma) > 5). This message is issued only when the solution is converging. Reduce the creep time interval.

This message may also be issued when the initial static subcase is missing. Include a static subcase before the creep subcases.

4668   *   USER WARNING MESSAGE 4668, PROPERTY ID = ******** NOT FOUND IN EPT**

4669   *   USER FATAL MESSAGE 4669, NO LOAD DATA EXISTS FOR VECTOR = ****.**

Check the CLOAD entry.

4670   *   USER FATAL MESSAGE 4670, SELECTED CLOAD BULK DATA CARD DOES NOT EXIST FOR SID = ****.**

4671   *   USER FATAL MESSAGE 4671, LOAD COMBINATION REQUESTED BUT LSEQ CARDS DO NOT EXIST FOR SID = ****.**

Check the LSEQ entries.

4672   *   USER FATAL MESSAGE 4672, IN SOLUTION 66 OR 99 THE USE OF PIN FLAGS ON NONLINEAR BEAM ELEMENTS IS ILLEGAL.**

Either remove the pin flags for nonlinear elements or make the problem linear.

4673   *   USER WARNING MESSAGE 4673, AT LEAST ONE SOLID ELEMENT IGNORES NONLINEAR MATERIAL DATA BECAUSE SELECTED OPTION IS NOT AVAILABLE.**

For nonlinear analysis, solid elements with nonlinear material properties may not have midside nodes and their integration network may not be 3 or THREE. See the PSOLID entry description in Section 2.4. Otherwise only linear solution is possible.

4674   *   USER FATAL MESSAGE 4674, E IS TOO LARGE FOR ELEMENT = **********

4675   *   USER WARNING MESSAGE 4675, EXCESSIVE INCREMENTAL LOAD IS APPLIED IN ELEMENT ID = ****.**

This message is issued if the number of subincrements (m) in the plasticity routine is required to be greater than 25. The number of subincrements is determined by   m = Int (F / FSTRESS*Y + 1)

where F is the value of yield function, Y is the yield stress, FSTRESS is the user input, on NLPARM entry. The program continues execution with the number of subincrements(m) reset to 10. Use smaller load increments.

4676   *   USER FATAL MESSAGE 4676, ERROR EXCEEDS ** PERCENT OF YIELD STRESS IN ELEMENT ID = ****.**

The error in the yield function will be corrected if it is within (FSTRESS*100) %. This message will be issued if the error is greater than this. Take smaller load increments or specify a larger error tolerance in the FSTRESS field on the NLPARM entry. All output requests are honored for subcases processed prior to this message; then execution is terminated.

4677   *   USER FATAL MESSAGE 4677, EFFECTIVE STRESS GREATER THAN YIELD STRESS FOR ELEMENT ID = ****.**

This message is issued if the starting stress state is detected to be outside the yield surface in the plasticity routine. This is not likely to occur under the normal condition unless an erroneous database is used for restart. Check the database and restart parameters. CONTACT UGS.

4678   *   USER WARNING MESSAGE 4678, TABLE LOOK-UP RESULTS IN NEGATIVE VALUE OF CREEP MODEL PARAMETER IN ELEMENT ID = ****.**

Creep parameters must be positive for table-supplied data. The program sets the value to zero and continues.

Check the table values of creep parameters.

4679   *   USER WARNING MESSAGE 4679, ZERO DERIVATIVE ENCOUNTERED IN CREEP LAW TYPE 300 FOR ELEMENT ID = ****.**

Unsolvable nonlinear equation in creep law type 300.

The program sets the value to 10-6 and continues. Check the creep data. Reduce t for creep.

4680   *   USER WARNING MESSAGE 4680, INPUT FILES TO TABPT ARE PURGED.**

"PURGED" means "does not exist."

4681   *   USER FATAL MESSAGE 4681, INSUFFICIENT MEMORY FOR GPSTR2 MODULE TO SORT OGS1 DATA ON EXT GRID ID.**

In order to sort OGS1 data on external grid ID, GPSTR2 must store a table of size 2 x (no. of grids in surface) in open core. The above message is issued if amount of open core will not accommodate this table. Increase memory request for the job.

4682   *   USER FATAL MESSAGE 4682, HARMONICS SET SPECIFIED FOR ANALYSIS INCONSISTENT WITH SPECIFIED SYMMETRY OPTION.**

All of the harmonics specified by the user with the HARMONICS command are excluded from the analysis by the symmetry option specified on the DSYM command. Note that the AA and SS options omit all odd harmonics. The AS and SA options omit all even harmonics.

4683   *   USER FATAL MESSAGE 4683, (***) MATRIX NEEDED FOR EIGEN-VALUE ANALYSIS.**

The eigen solution module was given a purged (that is, non-existent) mass, stiffness, or differen-

tial stiffness matrix. Common causes include deletion of mass density input on MATi entries, user restart errors in the superelement solution sequences or when the auto-selection feature of Generalized Dynamic Reduction (GDR) determines that there are no natural frequencies below FMAX. It therefore sets the number of generalized coordinates to zero. This condition can be detected from User Information Message 4181. An avoidance is to increase FMAX on the DYNRED Bulk Data entry. Provide mass matrix generating data by any of several means, including a mass density entry on material entries, concentrated masses, and G-type DMIG entries.

A possible cause of this is specifying a Q-set but not requesting GDR. When this is done, if no other A-set dof are specified, a static condensation of the matrices is performed, reducing the problem to the Q-set, which will contain no mass or stiffness.
Avoidance: specify a Q-set only when GDR is requested.

Possibly no mass matrix has been defined. Check for:
      RHO entry on MATi   NSM entry on element properties (i.e., PSHELL, PBAR)
CONMi or CMASSi NX Nastran needs at least one of the above to compute the mass matrix.
Incorrect cross-sectional properties may also lead to this error but would typically show up as another error.

In buckling analysis, an absence of loads, or loads that cause no stress, can lead to this message. The message will state that no mass matrix is present, but this really means that the differential stiffness matrix is missing. Print the stresses from the static solution to insure that they are proper.
This can occur in buckling when there is no output request in Case Control for the static subcase (in which case the geometric stiffness matrix is not formed).

This can also occur if a job is restarted from SOL 101 to SOL 103 and the SOL 101 run contains a TEMPD entry.

This can also occur if the DBLOCATE statements are not in the correct order.

4684   ***   USER WARNING MESSAGE 4684, LOADSET ID NOT FOUND IN SUBCASE **.

In the process of executing subcase **, the module was unable to obtain the loadset ID. See Section 2.3.3 (Case Control Command Description) for the LOADSET command.

4691   ***   USER FATAL MESSAGE 4691, ERROR IN CHBDY CARD. THE FIRST TWO GRID POINTS MUST DETERMINE A LINE IN THE X-Z PLANE WHICH IS NOT PARALLEL TO THE X AXIS. THE X COORDINATES MUST BOTH BE POSITIVE.

This error may also occur if the REV option is used for TYPE on the CHBDY Bulk Data entry, and the IVIEW field is not blank. Set IVIEW (Field 9).

4697   ***   USER FATAL MESSAGE 4697, THE FOLLOWING FREE FIELD CARD HAS MORE THAN TEN FIELDS SPECIFIED (CARD IGNORED).

A free field Bulk Data entry had more than ten fields specified. Only ten fields are allowed on a free field Bulk Data entry.

4698   ***   USER WARNING MESSAGE 4698, STATISTICS FOR DECOMPOSITION OF MATRIX ****. THE FOLLOWING DEGREES OF FREEDOM HAVE FACTOR DIAGONAL RATIOS GREATER THAN ****, OR HAVE NEGATIVE TERMS ON THE FACTOR DIAGONAL.

Module DCMP generates this message. During decomposition, the degrees of freedom listed have pivot ratios greater than maxratio or are negative. Verify that the degrees of freedom are not part of a mechanism and that elements do not have excessive stiffness. In superelement analysis, this will cause run termination.

PARAM,BAILOUT may be used to continue the run.

See Section 8.1.4 in the Handbook for Dynamic Analysis.

See also Chapter 4 in the V67 Numerical Methods User's Guide.

4699   *   USER WARNING MESSAGE 4699, INPUT FIELD TO REPLICATOR HAS MORE THAN 8 COLUMNS. SOME DATA MAY BE DISCARDED.**

The Bulk Data entry replicator reads the first eight fields of an entry, then discards any that may remain.

This may lead to unintended results. Check all entries generated by the replicator if this message appears.

5000   *   USER FATAL MESSAGE 5000, NEG. OR ZERO RADIUS DETECTED FOR CFLUID2 ELEMENT. ELEMENT NO. ****.**

Error Messages 5001-6000

5001   *   USER FATAL MESSAGE 5001, NEG. OR ZERO RADIUS DETECTED FOR CFLUID3 OR CFLUID4 ELEMENT. ELEMENT NO. ****.**
5002   *   USER FATAL MESSAGE 5002, INTERIOR ANGLE GREATER THAN OR EQUAL TO 180 DEGREES. CFLUID4 ELEMENT NO. ****.**
5003   *   USER FATAL MESSAGE 5003, THE BEND RADIUS RB IS A NEGATIVE NUMBER CREATING ILLEGAL GEOMETRY FOR ELEMENT = XXXXXX.**

The orientation of the BEND element has been improperly specified (see the remarks on the CBEND entry). Correct the BEND element geometric or orientation vector data.

5004   *   USER FATAL MESSAGE 5004, THE ARC SUBTENDED BY THE BEND ELEMENT = **** HAS EXCEEDED AN ARC OF 180 DEGREES.**

The orientation of the BEND element has been improperly specified (see the remarks on the CBEND entry). Correct the BEND element geometric or orientation vector data.

5005   *   USER FATAL MESSAGE 5005, INVALID VALUE TO OPTION PARAMETER DETECTED.**

The user, in calling a module, has specified an option that does not exist. Change the option parameter in the DMAP statement.

5006   *   USER FATAL MESSAGE 5006, INPUT FILES HAVE DIFFERENT RECORD TYPES.**

One of the input files was a matrix and the other was not.

5007   *   USER FATAL MESSAGE 5007, INPUT MATRICES ARE OF DIFFERENT DATA TYPES.**

The matrices involved are of different data types, e.g., one contains real data and another contains integer data.

5008   *   USER FATAL MESSAGE 5008, THE INPUT MATRICES HAVE DIFFERENT NUMBERS OF ROWS.**

One of the input matrices has a larger number of rows than the other(s), thereby preventing the requested matrix calculation.

5009 * USER FATAL MESSAGE 5009, IN CALL TO DSVG3, UGX MATRIX OF WRONG SIZE.**

The number of columns in the UGX matrix is not evenly divisible by the number of columns in the UG matrix. As a result, the UGX matrix cannot be divided into submatrices for the DSVG3 routine. Check the generation sequence for the UGX matrix.

5010 * USER INFORMATION MESSAGE 5010, STURM SEQUENCE DATA FOR EIGENVALUE EXTRACTION. TRIAL EIGENVALUE = (real), CYCLES = (real), NUMBER OF EIGENVALUES BELOW THIS VALUE = (integer).**

This message is automatic output during eigenvalue extraction. This can be used, along with the list of eigenvalues, to identify the modes found. See Section 8.1.6
in the Handbook for Dynamic Analysis. See also Chapter 6 in the V67 Numerical Methods User's Guide.

5012 * USER FATAL MESSAGE 5012, ENTRY ***** OF SIL TABLE INCOMPATIBLE WITH NEXT ENTRY.**

5018 * USER FATAL MESSAGE 5018, ECT PURGED. DSTA MODULE TERMINATED.**

5019 * USER FATAL MESSAGE 5019, EPT PURGED. DSTA MODULE TERMINATED.**

5020 * USER FATAL MESSAGE 5020, EST PURGED. DSTA MODULE TERMINATED.**

5021 * USER FATAL MESSAGE 5021, CASECC PURGED. DSTA MODULE TERMINATED.**

5022 * USER FATAL MESSAGE 5022, EDT PURGED. DSTA MODULE TERMINATED.**

5024 * USER FATAL MESSAGE 5024, UGV PURGED. DSTA MODULE TERMINATED.**

5025 * USER FATAL MESSAGE 5025, LAMA PURGED. DSTA MODULE TERMINATED.**

The LAMA data block contains a list of natural frequencies and may be purged because no eigenvalues were computed or the data block was not properly recovered on restart.

5026 * USER FATAL MESSAGE 5026, XCASECC PURGED. DSTA MODULE TERMINATED.**

5028 * USER FATAL MESSAGE 5028, PRELOC UNABLE TO OPEN EDT TABLE. DSTA MODULE TERMINATED IN DSTA.**

Send run to UGS.

5029 * SYSTEM FATAL MESSAGE 5029, NO DSCONS CARDS ON EDT TABLE.**
DSTA MODULE TERMINATED IN DSTA.

Required user data. Check bulk data input.

5030 * SYSTEM FATAL MESSAGE 5030, NO DVAR CARDS ON EDT TABLE.**
DSTA MODULE TERMINATED IN DSTA.

Required user data. Check bulk data input.

5031 * SYSTEM FATAL MESSAGE 5031, NO DVSET CARDS ON EDT TABLE.**
DSTA MODULE TERMINATED IN DSTA.

Required user data. Check bulk data input.

5032   ***   SYSTEM FATAL MESSAGE 5032, NOT ENOUGH OPEN CORE FOR DSCONS PROCESSING. DSTA MODULE TERMINATED IN DSTA.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5033   ***   SYSTEM FATAL MESSAGE 5033, NOT ENOUGH OPEN CORE FOR DVAR PROCESSING. DSTA MODULE TERMINATED IN DSTA.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5034   ***   SYSTEM FATAL MESSAGE 5034, UNEXPECTED EOR READING DVAR CARDS OFF EDT. DSTA MODULE TERMINATED IN DSTA.

Send run to UGS.

5035   ***   SYSTEM FATAL MESSAGE 5035, NOT ENOUGH OPEN CORE FOR DVAR PROCESSING. DSTA MODULE TERMINATED IN DSTA.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5036   ***   SYSTEM FATAL MESSAGE 5036, NOT ENOUGH OPEN CORE FOR DVSET PROCESSING. DSTA MODULE TERMINATED IN DSTA.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5037   ***   SYSTEM FATAL MESSAGE 5037, UNEXPECTED EOR READING DVSET CARDS OFF EDT. DSTA MODULE TERMINATED IN DSTA.

Send run to UGS.

5038   ***   SYSTEM FATAL MESSAGE 5038, NOT ENOUGH OPEN CORE FOR DVSET PROCESSING. DSTA MODULE TERMINATED IN DSTA.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5039   ***   SYSTEM FATAL MESSAGE 5039, UNEXPECTED EOR READING CASECC. DSTA MODULE TERMINATED IN DSTA.

Send run to UGS.

5041   ***   SYSTEM FATAL MESSAGE 5041, NOT ENOUGH OPEN CORE FOR TABLE 4. DSTA MODULE TERMINATED IN DSTA11.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5042   ***   SYSTEM FATAL MESSAGE 5042, CODING LOGIC ERROR. DVAR ID = ****. **** NOT FOUND. DSTA MODULE TERMINATED IN DSTA11.

Required user data. Check bulk data input.

5043   ***   SYSTEM FATAL MESSAGE 5043, NOT ENOUGH OPEN CORE FOR TABLE 2. DSTA MODULE TERMINATED IN DSTA11.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5044   ***   SYSTEM FATAL MESSAGE 5044, CODING LOGIC ERROR. DSCONS ID = ****. **** NOT FOUND. DSTA MODULE TERMINATED IN DSTA11.

Send run to UGS.

5045   ***   SYSTEM FATAL MESSAGE 5045, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTERS. DSTA MODULE TERMINATED IN DSTA13.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5046   *   SYSTEM FATAL MESSAGE 5046, UNEXPECTED EOR WHILE READING SCR1. DSTA MODULE TERMINATED IN DSTA13.**

Send run to UGS.

5047   *   SYSTEM FATAL MESSAGE 5047, UNEXPECTED EOR READING SCR1.**
DSTA MODULE TERMINATED IN DSTA13.

Send run to UGS.

5048   *   USER WARNING MESSAGE 5048, TABLE 9 DOES NOT CONTAIN AN ENTRY FOR EID ****. THIS MEANS THAT A DSCONS CARD POINTS TO A NONEXISTANT EID. DSTA MODULE IS IN ROUTINE DSTA13.**

Element referenced is not in model.

5049   *   SYSTEM FATAL MESSAGE 5049, DSCONS CARD WITH ID OF **** HAS INVALID TYPE = ****. FOR STATICS, ONLY DISP, STRESS, OR FORCE ALLOWED. DSTA MODULE TERMINATED IN DSTA13.**

User input error.

5050   *   SYSTEM FATAL MESSAGE 5050, DSCONS CARD WITH ID OF **** HAS INVALID TYPE = ****. FOR STATICS, ONLY DISP, STRESS, OR FORCE ALLOWED. DSTA MODULE TERMINATED IN DSTA13.**

User input error.

5051   *   USER WARNING MESSAGE 5051, TABLE 9 DOES NOT CONTAIN AN ENTRY FOR EID ****. THIS MEANS THAT A DSCONS ENTRY POINTS TO A NONEXISTENT EID. DSTA MODULE IS IN ROUTINE DSTA13.**

Element referenced is not in model.

5052   *   USER WARNING MESSAGE 5052, TABLE 9 CONTAINS THE IBID=IBID ENTRY FOR ID **** BUT NOT THE IBID=0. MUST BE CODING LOGIC ERROR. DSTA MODULE IS IN ROUTINE DSTA13.**

Send run to UGS.

5053   *   USER WARNING MESSAGE 5053, TABLE 9 CONTAINS THE IBID=IBID ENTRY FOR ID **** BUT NOT THE IBID=0. MUST BE CODING LOGIC ERROR. DSTA MODULE IS IN ROUTINE DSTA13.**
5054   *   SYSTEM FATAL MESSAGE 5054, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTERS. DSTA MODULE TERMINATED IN DSTA14.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5055   *   SYSTEM FATAL MESSAGE 5055, NOT ENOUGH OPEN CORE TO HOLD DVAR POINTERS. DSTA MODULE TERMINATED IN DSTA14.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5056   *   SYSTEM FATAL MESSAGE 5056, UNEXPECTED EOR WHILE READING A DSCONS CARD. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5057   *   USER WARNING MESSAGE 5057, IBID=0 ENTRY NOT FOUND FOR EID = **** IN TABLE 9. THIS MEANS A DSCONS CARD REFERENCES NONEXISTENT EID. DSTA MODULE IS IN ROUTINE DSTA14.**

Element referenced is not in model.

5059   *   SYSTEM FATAL MESSAGE 5059, UNEXPECTED EOR WHILE READING A DVAR CARD. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5060   *   SYSTEM FATAL MESSAGE 5060, UNEXPECTED EOR WHILE READING A DVAR CARD. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5061   *   SYSTEM FATAL MESSAGE 5061, NOT ENOUGH OPEN CORE TO HOLD 2 * NO. OF DSCONS + 3 * NO. OF DVARS. DSCON = ****, DVAR = ****, BIDTOT = ****, BUF5 = ****. DSTA MODULE TERMINATED IN DSTA14.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5062   *   SYSTEM FATAL MESSAGE 5062, CODING LOGIC ERROR. DSCONS POINTER TABLE 2(SCR2) HAS MORE DSCONS IDS THAN TABLE 11(SCR8). CURRENT DSCONS ID FROM TABLE 2 = ****. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5063   *   SYSTEM FATAL MESSAGE 5063, CODING LOGIC ERROR. DSCONS POINTER TABLE 2(SCR2) HAS MORE DSCONS IDS THAN TABLE 11(SCR8). CURRENT DSCONS ID FROM TABLE 2 = ****. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5064   *   SYSTEM FATAL MESSAGE 5064, DSCONS ID DOES NOT MATCH MODE ID FOUND IN LAMA TABLE. PTER = ****, ****ID = ****, Z(PTER) = ****, TB9BEG = ****, NWDLA = ****. LAMA RECORD NO. 2 ****. DSTA MODULE TERMINATED IN DSTA14.**

5065   *   SYSTEM FATAL MESSAGE 5065, UNEXPECTED END OF FILE READING LAMA TABLE. DSTA MODULE TERMINATED IN DSTA14.**

Send run to UGS.

5066   *   SYSTEM FATAL MESSAGE 5066, TYPE = **** ON DSCONS CARD INVALID. DSTA MODULE TERMINATED IN DSTA14.**

User input error.

5067   *   SYSTEM FATAL MESSAGE 5067, UNEXPECTED EOR WHILE READING DSCONS CARDS DSTA MODULE TERMINATED IN DSTA18.**

5068   *   SYSTEM FATAL MESSAGE 5068, NOT ENOUGH OPEN CORE TO HOLD 4* # OF MODE NUMBERS----MODE NUMBERS= ********-DSTA MODULE TERMINATED IN DSTA18.**

5069   *   SYSTEM FATAL MESSAGE 5069, NUMBER OF OPEN CORE WORDS =**

****. NOT ENOUGH TO HOLD ONE CASE CONTROL RECORD. DSTA MODULE TERMINATED IN DSTA1A.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5070   *   SYSTEM FATAL MESSAGE 5070, SET2 CARD ID = **** NOT FOUND IN CASE CONTROL. DSTA MODULE TERMINATED IN DSTA1A.**

Required user data. Check bulk data input.

5071   *   USER WARNING MESSAGE 5071, SET ID **** REFERENCED ON SET2 CARD NOT FOUND IN CASE CONTROL. DSTA MODULE IS IN DSTA1B.**

Required user data. Check bulk data input.

5072 * SYSTEM FATAL MESSAGE 5072, NOT ENOUGH OPEN CORE TO HOLD DSCONS IDS. DSTA MODULE TERMINATED IN DSTA1B.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5073 * SYSTEM FATAL MESSAGE 5073, NOT ENOUGH OPEN CORE TO HOLD TABLE 4 POINTERS FOR DVAR CARDS. MODULE DSTA TERMINATED IN DSTA1D.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5074 * SYSTEM FATAL MESSAGE 5074, NOT ENOUGH OPEN CORE TO HOLD TABLE 2 POINTERS FOR DSCONS CARDS. MODULE DSTA TERMINATED IN DSTA1D.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5075 * SYSTEM FATAL MESSAGE 5075, NO OPEN CORE LEFT TO PROCESS TABLE 1. MODULE DSTA TERMINATED IN DSTA1D.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5076 * SYSTEM FATAL MESSAGE 5076, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTER TABLE. DSTA MODULE TERMINATED IN DSTA1E.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5077 * SYSTEM FATAL MESSAGE 5077, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTER TABLE. DSTA MODULE TERMINATED IN DSTA3.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5078 * SYSTEM FATAL MESSAGE 5078, NOT ENOUGH OPEN CORE TO HOLD TABLE 3. DSTA MODULE TERMINATED IN DSTA3.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5079 * SYSTEM FATAL MESSAGE 5079, NOT ENOUGH OPEN CORE TO HOLD DVAR POINTER TABLE. DSTA MODULE TERMINATE IN DSTA5.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5080 * SYSTEM FATAL MESSAGE 5080, NOT ENOUGH OPEN CORE TO HOLD DVSET POINTER TABLE. DSTA MODULE TERMINATED IN DSTA5.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5081 * SYSTEM FATAL MESSAGE 5081, NOT ENOUGH OPEN CORE TO HOLD DVAR CARD. DSTA MODULE TERMINATED IN DSTA5.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5082 * SYSTEM FATAL MESSAGE 5082, NOT ENOUGH OPEN CORE TO HOLD DVSET CARDS FOR ONE VID. DSTA MODULE TERMINATED IN DSTA5.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5083 * SYSTEM FATAL MESSAGE 5083 (DSTA5) A DVAR ENTRY WITH BID OF **** REFERENCES NONEXISTENT DVSET ENTRY WITH VID OF ****.**

Required user data. Check Bulk Data input.

5084 * SYSTEM FATAL MESSAGE 5084, NOT ENOUGH OPEN CORE TO**

HOLD TABLE 6. DSTA MODULE TERMINATED IN DSTA6.

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5085   *   SYSTEM FATAL MESSAGE 5085, CODING LOGIC ERROR. CHECK LENGTH CALCULATION FOR TABLE 6. MODULE DSTA TERMINATED IN DSTA7.**

Send run to UGS.

5086   *   SYSTEM FATAL MESSAGE 5086, NO MATCH FOUND IN GPTA1 FOR ECT LOCATE IDS ****. MODULE DSTA TERMINATED IN DSTA7.**

Send run to UGS.

5087   *   SYSTEM FATAL MESSAGE 5087, ECT ENTRY LENGTH FOR ELEMENT TYPE **** IS ****. PROGRAM LIMIT IS 350. MODULE DSTA TERMINATED IN DSTA7.**

Send run to UGS.

5088   *   SYSTEM FATAL MESSAGE 5088, UNEXPECTED EOF WHILE READING ECT TABLE. MODULE DSTA TERMINATED IN DSTA7.**

Send run to UGS.

5089   *   SYSTEM FATAL MESSAGE 5089, TABLE 7 LENGTH OF **** EXCEEDS OPEN CORE OF **** WORDS. MODULE DSTA TERMINATED IN DSTA7.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5090   *   SYSTEM FATAL MESSAGE 5090, NOT ENOUGH OPEN CORE TO HOLD TABLE 8. MODULE DSTA TERMINATED IN DSTA8A.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5091   *   SYSTEM FATAL MESSAGE 5091, EOF ENCOUNTERED ON EPT. DSTA MODULE TERMINATED IN DSTA8B.**

Send run to UGS.

5093   *   SYSTEM FATAL MESSAGE 5093, TABLE 5 ENTRY NOT FOUND IN TABLE 8. MUST BE PROGRAM LOGIC ERROR. DSTA MODULE TERMINATED IN DSTA9A.**

Send run to UGS.

5094   *   SYSTEM FATAL MESSAGE 5094, NOT ENOUGH OPEN CORE TO HOLD AN EPT ENTRY. DSTA MODULE TERMINATED IS DSTA9A.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5095   *   SYSTEM FATAL MESSAGE 5095, NOT ENOUGH OPEN CORE TO HOLD 2 EPT ENTRIES. DSTA MODULE TERMINATED IN DSTA9A.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5096   *   SYSTEM FATAL MESSAGE 5096, NOT ENOUGH OPEN CORE TO HOLD TABLE 7. DSTA MODULE TERMINATED IN DSTA9B.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5097   *   SYSTEM FATAL MESSAGE 5097, NOT ENOUGH OPEN CORE TO HOLD TABLE 3. DSTA MODULE TERMINATED IN DSTA9B.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5098   *   SYSTEM FATAL MESSAGE 5098, NOT ENOUGH OPEN CORE TO HOLD EPT ENTRY. DSTA MODULE TERMINATED IN DSTA9B.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5099   *   SYSTEM FATAL MESSAGE 5099, UNEXPECTED EOR READING EST TABLE. DSTA MODULE TERMINATED IN DSTA9B.**

Send run to UGS.

5100   *   SYSTEM FATAL MESSAGE 5100, NOT ENOUGH OPEN CORE TO HOLD TABLE 13. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Section 3.4 of the NX Nastran Application Manual.

5101   *   SYSTEM FATAL MESSAGE 5101, NO OPEN CORE LEFT. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5102   *   SYSTEM FATAL MESSAGE 5102, NOT ENOUGH OPEN CORE TO HOLD DISP SET. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5103   *   SYSTEM FATAL MESSAGE 5103, NO OPEN CORE LEFT. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5104   *   SYSTEM FATAL MESSAGE 5104, NOT ENOUGH OPEN CORE TO HOLD STRESS SET. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5105   *   SYSTEM FATAL MESSAGE 5105, CODING LOGIC ERROR. TABLE 13 TYPE **** NOT VALID FOR STATICS. DSTA MODULE TERMINATED IN DSTACC.**

Send run to UGS.

5106   *   SYSTEM FATAL MESSAGE 5106, NO OPEN CORE LEFT. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5107   *   SYSTEM FATAL MESSAGE 5107, NOT ENOUGH OPEN CORE TO HOLD FORCE SET. DSTA MODULE TERMINATED IN DSTACC.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5108   *   USER WARNING MESSAGE 5108, UGV HAS MORE CONDITIONS THAN CASECC HAS SUBCASES. THUS LAST CASECC SUBCASE USED AS MODEL FOR REMAINING CASEDS RECORDS. DSTA MODULE EXECUTING IN DSTACC.**
5109   *   SYSTEM FATAL MESSAGE 5109, UNEXPECTED EOR WHILE READING CASECC. DSTA MODULE TERMINATED IN DSTACC.**

Send run to UGS.

5110   *   SYSTEM FATAL MESSAGE 5110, UNEXPECTED EOR WHILE READING DVAR CARDS. DSTA MODULE TERMINATED IN DSTACO.**

Send run to UGS.

5111 * SYSTEM FATAL MESSAGE 5111, UNEXPECTED EOR WHILE READING CASECC. DSTA MODULE TERMINATED IN DSTACO.**

Send run to UGS.

5112 * SYSTEM FATAL MESSAGE 5112, UNEXPECTED EOF WHILE READING CASECC. DSTA MODULE TERMINATED IN DSTACO.**

Send run to UGS.

5113 * SYSTEM FATAL MESSAGE 5113, INSUFFICIENT OPEN CORE FOR LIST OF MODE IDS FROM TABLE 18. NUMBER WORDS AVAILABLE = ****. DSTA MODULE TERMINATED IN DSTAES.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5114 * USER FATAL MESSAGE 5114, PROBLEM LIMITATION OF 66 TEM-PERATURE SETS HAS BEEN EXCEEDED. DSTA MODULE TERMINATED IN DSTAET.**

5115 * SYSTEM FATAL MESSAGE 5115, UNEXPECTED END OF RECORD READING TABLE ETT. DSTA MODULE TERMINATED IN DSTAET.**

Send run to UGS.

5116 * SYSTEM FATAL MESSAGE 5116, TEMPERATURE SET ID IN DATA RECORD NOT FOUND IN HEADER RECORD. TEMP(1) = ****.**
TLIST(I) = 2A4,(1X,1018). DSTA MODULE TERMINATED IN DSTAET.

Send run to UGS.

5117 * SYSTEM FATAL MESSAGE 5117, UNEXPECTED END OF RECORD READING TABLE ETT. DSTA MODULE TERMINATED IN DSTAET.**

Send run to UGS.

5118 * SYSTEM FATAL MESSAGE 5118, UNEXPECTED END OF RECORD READING TABLE ETT. DSTA MODULE TERMINATED IN DSTAET.**

Send run to UGS.

5119 * SYSTEM FATAL MESSAGE 5119, TEMP SET ID IN DATA RECORD NOT FOUND IN HEADER RCD. DSTA MODULE TERMINATED IN DSTAET.**

Send run to UGS.

5120 * SYSTEM FATAL MESSAGE 5120, UNEXPECTED END OF FILE READING TABLE ETT. DSTA MODULE TERMINATED IN DSTAET.**

Send run to UGS.

5121 * SYSTEM FATAL MESSAGE 5121, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTERS. DSTA MODULE TERMINATED IN DSTARO.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5122 * SYSTEM FATAL MESSAGE 5122, UNEXPECTED EOR WHILE READING DSCONS CARDS. DSTA MODULE TERMINATED IN DSTARO.**

Send run to UGS.

5123 * SYSTEM FATAL MESSAGE 5123, NOT ENOUGH OPEN CORE TO HOLD DVAR POINTERS. DSTA MODULE TERMINATED IN DSTACO.**

Increase Region. Memory requirements for DSTA module are discussed in Application Manual.

5124   ***   SYSTEM FATAL MESSAGE 5124, NOT ENOUGH OPEN CORE TO HOLD DSCONS POINTERS DSTA MODULE TERMINATED IN DSTA18

5125   ***   USER WARNING MESSAGE 5125, FIRST NONZERO VALUE IN FILE 102. COLUMN = **** IS IN ROW ****. SHOULD BE IN ROW ****. MODULE DSMA CONTINUING.

5126   ***   SYSTEM WARNING MESSAGE 5126, FILE 102 SUBCASE **** DOES NOT MATCH FILE DSPT2 SUBCASE ****. CHECK YOUR DMAP FOR CORRECT FILE 102. DSMA MODULE TERMINATED.

5127   ***   SYSTEM WARNING MESSAGE 5127, FILE 102 SUBCASE **** DOES NOT MATCH FILE DSPT2 GRID ID ****. CHECK YOUR DMAP FOR CORRECT FILE 102. DSMA MODULE TERMINATED.

5129   ***   SYSTEM WARNING MESSAGE 5129, FILE 103 ELEMENT ID **** DOES NOT MATCH FILE DSPT2 ELEMENT ID ****. CHECK YOUR DMAP FOR CORRECT FILE 103. DSMA MODULE TERMINATED.

5130   ***   SYSTEM WARNING MESSAGE 5130, FILE 104 SUBCASE **** DOES NOT MATCH FILE DSPT2 SUBCASE ****. CHECK YOUR DMAP FOR CORRECT FILE 104. DSMA MODULE TERMINATED.

5132   ***   SYSTEM WARNING MESSAGE 5132, UNEXPECTED EOR WHILE READING OES1. DSMA MODULE TERMINATED.

5133   ***   SYSTEM WARNING MESSAGE 5133, UNEXPECTED EOR DURING FWDREC ON OES1. DSMA MODULE TERMINATED.

5142   ***   SYSTEM WARNING MESSAGE 5142, FILE DSPT2 IS PURGED. DSMA MODULE TERMINATED.

5143   ***   SYSTEM WARNING MESSAGE 5143, FILE 102 IS PURGED. DSMA MODULE TERMINATED.

5146   ***   USER FATAL MESSAGE 5146, IN GPSPEN OF GPSTR1. MUST BE A CODING ERROR SINCE EMG SHOULD HAVE FOUND GEOMETRY ERROR. ELEMENT ID = ****.

Send run to UGS.

5146   ***   SYSTEM FATAL MESSAGE 5146, UNEXPECTED EOF WHILE READING CASECC DSTA MODULE TERMINATED IN DSTACC

5147   ***   SYSTEM FATAL MESSAGE 5147, LOGIC ERROR, READ COUNTER IF1=0 -- UTILITY MERGER TERMINATED.

5148   ***   SYSTEM FATAL MESSAGE 5148, LOGIC ERROR, READ COUNTER IF2=0 -- UTILITY MERGER TERMINATED.

5149   ***   USER WARNING MESSAGE 5149, NO PROPERTY ID'S REFERENCED ON DVSET CARDS WERE FOUND IN ELEMENT PROPERTY TABLE (EPT). DSTA MODULE IS IN SUBROUTINE DSTA9A.

Check property IDs on DVSET entries for valid IDs.

5150   ***   USER WARNING MESSAGE 5150, FROM GPSTR1, UNEXPECTED EOF READING EPT.

5151   ***   SYSTEM FATAL MESSAGE 5151 IN GPSHEX ROUTINE OF GPSTR1, MUST BE A CODING ERROR SINCE GEOMETRY SHOULD HAVE BEEN CHECKED IN EMG ROUTINES FOR HEXA ELEMENT ****.

5152   ***   SYSTEM FATAL MESSAGE 5152, UNEXPECTED END OF RECORD READING TABLE ETT--DSTA MODULE TERMINATED IN DSTAEC

5153   ***   SYSTEM FATAL MESSAGE 5153, TEMPERATURE SET ID. IN DATA RECORD NOT FOUND IN HEADER RECORD TEMP(1)= ******* TLIST(I)= *******   ****   ****   ****   ****
 ****   ****   ****   ****   ****   **** --DSTA MODULE TERMINATED IN DSTAEC.

5154   ***   SYSTEM FATAL MESSAGE 5154, UNEXPECTED END OF RECORD READING TABLE ETT. --DSTA MODULE TERMINATED IN DSTAEC.

5155   ***   SYSTEM FATAL MESSAGE 5155, UNEXPECTED END OF RECORD READING TABLE ETT. --DSTA MODULE TERMINATED IN DSTAEC.

5156 * SYSTEM FATAL MESSAGE 5156, TEMP SET ID. IN DATA RECORD NOT FOUND IN HEADER RCD. --DSTA MODULE TERMINATED IN DSTAEC**

5157 * SYSTEM FATAL MESSAGE 5157, UNEXPECTED END OF FILE READING TABLE ETT. --DSTA MODULE TERMINATED IN DSTAEC.**

5165 * USER FATAL MESSAGE 5165, (DSVG1D-1) UNDEFINED INPUT FILE = ***, ERROR CODE = ***. MODULE IS TERMINATED.**

Attempt to open data set which was not defined in FIST.

Subroutine did not expect data block to be purged.

Check data block requirements for module.

5166 * USER FATAL MESSAGE 5166, (DSVG1D-2) UNEXPECTED END OF FILE ENCOUNTERED, FILE = ***, ERROR CODE = ***. MODULE IS TER-MINATED.**

EOF encountered while reading data block. This message is issued when an end-of-file occurs while trying to read the record. The data block is not in proper format.

5167 * USER FATAL MESSAGE 5167, (DSVG1D-3) INSUFFICIENT CORE FOR ONE COLUMN OF SOLUTION VECTOR. ADDITIONAL MEMORY *** WORDS ARE REQUIRED.**

Insufficient space was provided for the run. Increase the memory space by at least the amount specified in the message.

5170 * USER FATAL MESSAGE 5170, (DSVG1D-6) INCONSISTENT GRID POINTS BETWEEN GPBDT AND SIL FILES.**

The number of grid points in GPBDT is not consistent with the number of grid points in SIL. Check GPBDT and SIL data blocks. Send run to UGS.

5171 * USER FATAL MESSAGE 5171, (DSVG1D-7) UNEXPECTED END OF RECORD ENCOUNTERED IN FILE = ***, ERROR CODE = ***. MODULE IS TERMINATED.**

Attempt to read past the end of a logical record in data block. This message is issued when an end-of-record occurs while trying to read the record. The data block is not in proper format. This error will occur if PARAM,WTMASS and/or PARAM,COUPMASS were present in the cold start run, but not the restart. See NX Nastran Application Manual Section 3.4.

This error may also occur with incorrect DVAR input, for example, a DVAR in an eigenvalue sensitivity analysis that references an element whose material specification which has no density.

5172 * USER FATAL MESSAGE 5172, (DSVG1D-8) THE VARIATIONAL ELEMENT ID IN XKDICT INCONSISTENT WITH THE VARIATIONAL ELEMENT ID IN DSPT1.**

Inconsistent variational element ID between XKDICT and DSPT1 data sets. Check XKDICT and DSPT1 data blocks.

Send run to UGS.

5173 * USER FATAL MESSAGE 5173, (DSVG1D-9) THE SIL NUMBER, ***, IN KDICT NOT FOUND IN SIL FILES.**

The element SIL number in KDICT cannot be found in data block SIL. Check KDICT and SIL data blocks. Send run to UGS.

5174 * USER WARNING MESSAGE 5174, (DSVG1D-10) FOR MODE NUM-BER ***, GENERALIZED MASS IS EQUAL TO ZERO. THE CORRESPONDING**

DESIGN SENSITIVITY GRADIENTS SET TO ZERO.
5175 * USER FATAL MESSAGE 5175, (DSVG2D-1) UNDEFINED INPUT FILE = ***, ERROR CODE = ***. MODULE IS TERMINATED.**

Attempt to open data block which was not defined in FIST. Subroutine did not expect data block to be purged. Check data block requirements for module. Send run to UGS.

5176 * SYSTEM FATAL MESSAGE 5176, (DSVG2D-2) UNEXPECTED END OF FILE ENCOUNTERED, FILE = ***, ERROR CODE = ***. MODULE IS TERMINATED.**

EOF encountered while reading data block. This message is issued when an end-of-file occurs while trying to read the record. The data block is not in proper format. Send run to UGS.

5177 * USER FATAL MESSAGE 5177, (DSVG2D-3) INSUFFICIENT CORE FOR ONE COLUMN OF SOLUTION VECTOR. ADDITIONAL MEMORY *** WORDS ARE REQUIRED.**

Insufficient space was provided for the run. Increase the memory space by at least the amount specified in the message.

5179 * USER FATAL MESSAGE 5179, (DSVG2D-6) INCONSISTENT GRID POINTS BETWEEN GPBDT AND SIL FILES. MODULE DSVG2 IS TERMINATED.**

The number of grid points in GPBDT is not consistent with the number of grid points in SIL. Check GPBDT and SIL data blocks. Send run to UGS.

5180 * USER FATAL MESSAGE 5180, (DSVG2D-7) UNEXPECTED END OF RECORD ENCOUNTERED IN FILE = ***, ERROR CODE = ***.**
MODULE IS TERMINATED.

Attempt to read past the end of a logical record in data block. This message is issued when an end-of-record occurs while trying to read the record. The data block is not in proper format. Send run to UGS.

5181 * USER FATAL MESSAGE 5181, ELEMENT WITH ID = *** HAS A GRID POINT OPPOSITE TO THOSE OF A FACE RECEIVING A PRESSURE LOAD WHICH IS EVIDENTLY IN THE SAME PLANE AS THIS FACE.**

The solid element is so distorted that it is impossible to find the inward direction for pressure loads. This can happen with incorrect grid geometry, or excessive deflections with geometric nonlinear option. Fix model or reduce load increments.

5182 * USER FATAL MESSAGE 5182, ELEMENT ID *** CID = ***, N1, N2, N3 = ***. LOAD DIRECTION VECTOR WHEN TRANSFORMED TO BASIC COORDINATES AT A GAUSS POINT HAS A ZERO LENGTH.**

The user supplied N vector or the PLOAD4 Bulk Data entry was nonzero but became zero when transformed to basic.
This is a program error or underflow.

5183 * USER WARNING MESSAGE 5183, (DRMS***) OUTPUT DATA BLOCK CORRESPONDING TO INPUT MODAL SOLUTION DATA BLOCK *** IS NOT PRESENT. INPUT DATA BLOCK THUSLY IGNORED.**

Since the output data block was purged, the data in the corresponding input data block was not used.

5184 * USER WARNING MESSAGE 5184, (DRMS***) INVALID INPUT DATA DETECTED IN DATA BLOCK ****. PROCESSING STOPPED FOR THIS DATA BLOCK.**

5185 * USER WARNING MESSAGE 5185, (DRMS****) THE AMOUNT OF DATA IS NOT CONSISTENT FOR EACH EIGENVALUE IN DATA BLOCK ****. PROCESSING OF THIS DATA BLOCK TERMINATED.**

Send run to UGS.

5186 * USER WARNING MESSAGE 5186, (DRMS****) A CHANGE IN WORD 2 OF THE OFP-ID RECORDS OF DATA BLOCK **** HAS BEEN DETECTED. PROCESSING OF THIS DATA BLOCK HAS BEEN TERMI-NATED.**

5187 * USER INFORMATION MESSAGE 5187, (DRMS1-3) INSUFFICIENT MEMORY. ADDITIONAL ********** WORDS ARE NEEDED.**

5188 * USER INFORMATION MESSAGE 5188, (DRMS2-1) MODULE DRMS2 TERMINATED WITH VARIABLE IERROR = **********.**

5189 * USER WARNING MESSAGE 5189, (DRMS2A-3) ILLEGAL MAJOR OR MINOR OFP-ID IDENTIFICATIONS = **********. ********** DETECTED IN DATA BLOCK ****. PROCESSING OF SAID DATA BLOCK DISCONTINUED.**

5190 * USER WARNING MESSAGE 5190, (DRMS2B-3) DATA BLOCK **** MAY NOT BE FULLY COMPLETED DUE TO A MEMORY INSUFFICIENCY OF APPROXIMATELY ********** DECIMAL WORDS.**

5191 * USER WARNING MESSAGE 5191, (DRMS2B-2) A CHANGE IN WORD 2 OF THE OFP-ID RECORDS OF DATA BLOCK **** HAS BEEN DETECTED. PROCESSING OF THIS DATA BLOCK HAS BEEN TERMI-NATED.**

5193 * USER WARNING MESSAGE 5193, PARTITION FILE **** IS OF SIZE **** ROWS BY **** COLS. PARTITIONING VECTORS INDICATE THAT THIS PARTITION SHOULD BE OF SIZE **** ROWS BY **** COLUMNS FOR A SUCCESSFUL MERGE.**

5194 * USER WARNING MESSAGE 5194, THE FORM PARAMETER AS GIVEN TO THE MERGE MODULE IS INCONSISTANT WITH THE SIZE OF THE MERGED MATRIX, HOWEVER IT HAS BEEN USED. FORM = **** SIZE = **** ROWS BY **** COLUMNS.**

5195 * USER WARNING MESSAGE 5195, REQUESTED VALUE OF **** ******* ** USED BY ********. LOGICAL CHOICE IS ********.**

5196 * SYSTEM FATAL MESSAGE 5196, ATTEMPT TO RECOVER PLAS-TIC STRAIN VS. SLOPE FOR ELEMENT *** MATERIAL *** WHEN NONE FOR-MULATED.**

This message is issued if MATS1 refers to TABLES1 which does not exist. This error is also issued if PLASTIC is specified with TID and the first data point is not at the origin. Check MATS1 and TABLES1 entries to ensure that proper tables exist.

5197 * USER FATAL MESSAGE 5197, MATRIX MCHI3 IS SINGULAR.**

Module MPRO attempted to decompose matrix MCHI3 which was singular. The location of the fluid coordinate system must not touch any element. It should be at the center of fluid.

5199 * USER FATAL MESSAGE 5199, ON THE ABOVE BULK DATA FREE FIELD CARD, AN INTEGER OR BCD FIELD HAD MORE THAN EIGHT CHAR-ACTERS.**

The bulk data free field formatter will not accept integer or character fields with more than eight characters, since it only generates single field entries.

This can also occur when the line length exceeds 72 characters (note that commas count as characters).

5202 * USER WARNING MESSAGE 5202, NOT POSSIBLE TO PERFORM TEMPERATURE CORRECTION FOR ELEMENT ID = ***, AS TEMPERATURE IS ZERO.**

The value of the absolute temperature must be greater than zero for temperature corrections in the creep process. The program ignores temperature corrections and continues. Check the "RT" field on the CREEP entry and the PARAM,TABS Bulk Data entry. To reduce the amount of output generated, this message is printed for the first element only while the error may exist for others.

5203   *   USER FATAL MESSAGE 5203, IMPLAUSIBLE CREEP LAW OF TYPE 300 IS USED.**

The value of d must be less than 2 on the CREEP entry.

5214   *   USER FATAL MESSAGE 5214, GRAV OPTION ON LOADCYH CARD ILLEGAL FOR BUCKLING.**
5215   *   USER FATAL MESSAGE 5215, RFORCE OPTION ON LOADCYH CARD ILLEGAL FOR BUCKLING.**
5217   *   USER FATAL MESSAGE 5217, DUPLICATE EXTERNAL GRID NUMBER **** FOUND BY MODULE DPD AT SILD **** AND ****.**

While processing the external grids in Module DPD, duplicate grid numbers were found.

Correct the grid numbering.

5218   *   USER INFORMATION MESSAGE 5218, EIGENVALUE APPROACHING INFINITY AT **** TH MODE. EIGENVECTORS WILL NOT BE COMPUTED BEYOND THIS POINT.**

The MGIV method substitutes a very large number for eigenvalues that approach machine infinity. If eigenvectors are computed for these artificial values, they may be numerical noise or they may cause overflows.

Eigenvector computation is halted at the first machine infinity instead, even if the user requested eigenvectors in this range.

5219   *   USER FATAL MESSAGE 5219, FORM 3 MATRIX INPUT TO ADD OR MPYAD MODULE. USE MATMOD OPTION 27 FIRST.**

Prior to Version 63, a special diagonal matrix could be input via DMI entries. It could be used properly only by the ADD, MPYAD, and MATPRN modules. This capability has been removed from the first two modules.

Use MATMOD Option 27 to convert the matrix to Form 6.

5220   *   USER FATAL MESSAGE 5220, FROM SEP1A IN SEP1 MODULE GRID NO. ******* APPEARS MORE THAN ONCE ON CSUPER CARD WITH SSID = ********.**
5221   *   USER WARNING MESSAGE 5221, STATISTICS FOR DECOMPOSITION OF MATRIX ********. THE FOLLOWING DEGREES OF FREEDOM HAVE NULL COLUMNS.**

Module DCMP tried to decompose a matrix which was singular. That matrix had null columns and the associated grid point numbers and degrees of freedom are printed out.

5222   *   USER INFORMATION MESSAGE 5222, SOLUTION ALGORITHM USED.**

The modal methods use uncoupled solution algorithms, if possible. They are considerably more economical than the coupled algorithms. Coupled algorithms are required when any of the following effects are present: transfer functions, DMIG requests of the Ptype, element damping, and PARAM,G.

Consider use of modal damping (TABDMP1 entry) to reduce the cost of analysis.

5224 *** SYSTEM FATAL MESSAGE 5224, THE LINK SPECIFICATION TABLE ADDRESSES FOR MODULE **** IS IN LINK **. HOWEVER SUBROUTINE XSEM** FOR THAT LINK DOES NOT CONTAIN THIS MODULE.

The "new" module has been incorrectly installed in the specified link or the problem is being run on a mismatched set of LINKS of NX Nastran. The XSEM** deck was not generated from the link specification table in the prescribed manner and used in the LINKEDIT of the failing Link.

Report the problem to the programmer responsible for the generation of the failing link.

5225 *** USER FATAL MESSAGE 5225, ATTEMPT TO OPERATE ON THE SINGULAR MATRIX **** IN SUBROUTINE DCMP.

This message is preceded by the listing of the grid point ID and degrees of freedom for any null columns.

5226 *** USER FATAL MESSAGE 5226, ILLEGAL INDEPENDENT DEGREES OF FREEDOM FOR RIGID ELEMENT **** SORTED COUNT ***.

Rigid elements (excluding the RROD) must have six n-set degrees-of-freedom.

5227 *** USER FATAL MESSAGE 5227, ILLEGAL DEPENDENT DEGREES OF FREEDOM FOR RIGID ELEMENT *** SORTED COUNT ****.

The rigid element listed has picked an illegal component for a dependent degree of freedom. See Section 2.4.

5229 *** USER WARNING MESSAGE 5229, INPUT FILE TO MODULE PURGED.
MODULE RETURNS WITH PURGED OUTPUT.

The matrix to be decomposed is not present. Any module that depends on the output of this module will also have purged input.

For example, this was seen in the case of a structure that had RBE2 elements tying CBARs to ground, but the SPC was not called out in Case Control.

5230 *** SYSTEM FATAL MESSAGE 5230, ELEMENT NUMBER OUTSIDE RANGE OF POSSIBLE NONLINEAR ELEMENTS.

The index passed to the new element type subroutine which unpacks the Block Data information determined that no data exists.

5231 *** SYSTEM FATAL MESSAGE 5231, INCONSISTENT LENGTH ON NONLINEAR APPENDAGE DETECTED FOR ELEMENT ***.

The length encode with the EST file for the length of an element appendage did not match that decode from the Block Data.

5232 *** SYSTEM FATAL MESSAGE 5232, THE ABOVE REPLICATOR CARD HAS AN ILLEGAL VALUE. IT MUST BE GREATER THAN ZERO.

The replicator count on the replicator entry must be an integer, greater than zero.

5236 *** USER INFORMATION MESSAGE 5236, THE FREQUENCY RANGE HAS BEEN SPLIT INTO XXXX SUBREGIONS.

The overall frequency range for eigen analysis has been split into several smaller ranges when using the SINV option to calculate modes and frequencies.

5237 * USER INFORMATION MESSAGE 5237, THE NEGATIVE FREQUENCY RANGE HAS BEEN SPLIT INTO ***** SUBREGIONS.**

The overall frequency range for eigen analysis has been split into several smaller ranges. This message occurs only for buckling analysis.

5238 * USER FATAL MESSAGE 5238, THE NUMBER OF ROOTS IN THE DEFINED FREQUENCY RANGE IS GREATER THAN 600.**

More than 600 roots are in the desired frequency range, which is greater than the maximum allowed using SINV.

Decrease the size of the frequency range.

5239 * USER INFORMATION MESSAGE 5239, BISECTIONING IN THE ***-*** INTERVAL.**

The frequency subregion encompassing eigenvalues xx-yy has been cut in half in order to find the remaining roots.

5240 * USER INFORMATION MESSAGE 5240, THE BISECTION VALUE IS: *** The selected value is midway between the lowest and highest frequencies in the frequency subregion.**

5241 * USER INFORMATION MESSAGE 5241, MISSING ROOT(S) IN THE ***-*** INTERVAL.**

The Sturm sequence check has indicated that roots are missing in the frequency range and they cannot be found by further bisectioning.

If the run terminates with missing roots, decrease the frequency range.

5242 * USER INFORMATION MESSAGE 5242, THE ROOT FOUND IS NOT THE LOWEST ONE ABOVE FMIN.**

The Sturm sequence check indicates that at least one unfound root exists between Fmin and the lowest frequency root found.

Set Fmax close to the lowest frequency found, so that lower roots can be found.

5243 * SYSTEM FATAL MESSAGE 5243, NO GRIDPOINT (GEOM1) OR SCALAR POINT (GEOM2) GEOMETRY DATA AVAILABLE.**

Both the GEOM1 (the first input file) for gridpoint geometry and the GEOM2 (the second input file) for scalar point geometry are either purged or contain no geometry data as input to the sequencer module SEQP.

5244 * USER WARNING MESSAGE 5244, GPFDR HAS IGNORED DATA FROM (PQ/QG) MATRIX DUE TO INCOMPATABILITY WITH THE UG MATRIX.**

The UG, PG, QG matrices are processed in synchronization. Incompatible sizes for these matrices which happens for some solution sequences causes obscure terminations. An incompatible QG may be caused by grounded CELASi elements in a model with no constraints.

Check whether GPFDR is supported for the solution sequence being used.

5246 * USER WARNING MESSAGE 5246, BOTH LINEAR AND NONLINEAR INPUT FILES TO MERGEOFP MODULE ARE PURGED.**

All input files purged. Nothing for module to do.

5247 * SYSTEM WARNING MESSAGE 5247, THE NUMBER OF WORDS**

IN FILE *** RECORD IS INCORRECT.

Files being read do not agree with expected format.

Check that correct files are being input to MERGEOFP.

5248   ***   SYSTEM WARNING MESSAGE 5248, ELEMENTS NOT FOUND IN ALPHABETICAL SORT BY NAME WITHIN SUBCASE IN THE *** DATA BLOCK.

Check that the correct input files are being supplied to MERGEOFP.

This error has also been observed when restart parameters LOOPID and SUBID are not set properly.

5249   ***   SYSTEM WARNING MESSAGE 5249, ELEMENT WITH ELEMENT TYPE *** NOT FOUND IN TABLE OF ELEMENTS /GPTA1/.

5250   ***   USER FATAL MESSAGE 5250, RAISING A NEGATIVE NUMBER TO A NON-INTEGER EXPONENT IS NOT ALLOWED.

The DIAGONAL module allows raising terms in matrices to non-integer exponents with the WHOLE option. Whenever the matrix terms are negative, the exponentiation fails.
The PARAMR module performs a similar function with real parameters and the POWER option.

These special applications may be performed by alternate DMAP modules depending upon the exponentiation the user wishes.

This can also be issued if the time increment is too large in transient response--specify a smaller time increment.

5251   ***   SYSTEM FATAL MESSAGE 5251, INSUFFICIENT OPEN CORE FOR DOWNWASH MATRIX GENERATION.

5252   ***   SYSTEM FATAL MESSAGE 5252, INCORRECT FORM OF INPUT DATA BLOCK **** FOR DOWNWASH MATRIX GENERATION IN ADG MODULE.

Check AESURF entries for references to undefined coordinate systems. Check AELIST entries for references to nonexistent boxes. Also, box identification numbers on the AELIST entry should be greater than all grid identification numbers.

5253   ***   SYSTEM FATAL MESSAGE 5253, INCORRECT FORM OF AESTAT, AESURF, AEROS OR AELIST CARD IN EDT.

Check the aforementioned Bulk Data entries for correctness.

5254   ***   SYSTEM FATAL MESSAGE 5254, UNABLE TO OPEN EDT.

5255   ***   USER FATAL MESSAGE 5255, ONE OF THE INPUT BLOCKS IS PURGED IN AEROSTATIC.

5256   ***   USER FATAL MESSAGE, 5256, NO AESTAT CARDS IN EDT.

AESTAT Bulk Data entries are required for aerostatic analysis.

5257   ***   USER FATAL MESSAGE 5257 (ASG), TRIM ENTRY WITH ID **** DOES NOT EXIST.

5258   ***   USER WARNING MESSAGE 5258, UNSUPPORTED NOLINI CARD ENCOUNTERED FOR SET *** IN NONLINEAR TRANSIENT.

The Nonlinear Transient Module NLTRD does not support the NFTUBE and NOLIN5 entries.

Remove cards from deck to eliminate the warning message.

5260   *   USER WARNING MESSAGE 5260, DIVISION BY ZERO, USING MACH NUMBER, REFERENCE SPAN, CHORD, OR AREA.**

The AEROS entry or the TRIM entry includes a zero value for one of the above parameters.

Check input parameters.

5264   *   USER FATAL MESSAGE 5264 (ASG) ,TRIM/AELINK ENTRY REFERENCES LABEL **** NOT DEFINED ON AESTAT OR AESURF ENTRY.**
5265   *   USER FATAL MESSAGE 5265 (ASG) ,TOO LITTLE DATA ON TRIM OR AELINK ENTRIES.**
5266   *   USER FATAL MESSAGE 5266 (ASG) ,TOO MUCH DATA ON TRIM OR AELINK ENTRIES.**
5267   *   USER FATAL MESSAGE 5267 (ASG), ZXX MATRIX IS SINGULAR.**
TRIM AND AELINK ENTRIES SPECIFY AN INADEQUATE CONSTRAINT SET.

5269   *   USER WARNING MESSAGE 5269, REQUESTED ASDR OUTPUT SET IS NOT PRESENT.**

The output set identified on the APRES or AEROF entry is not present.

Modify the ID requested on the AEROF or APRES entry, or supply an output set with an ID matching the one on the AEROF or APRES entry.

5270   *   USER FATAL MESSAGE 5270, BAD ELEMENT GEOMETRY DETECTED FOR ELEMENT WITH ID ****.**

This message occurs when a zero volume is calculated for the TETRA element using the four corner points.
Probably the TETRA has all four points lying on a plane.

Geometry must be corrected.

5271   *   USER INFORMATION MESSAGE 5271, RATIO OF SHORTEST ALTITUDE TO LONGEST EDGE EXCEEDS 100 FOR ELEMENT WITH ID ****.**

This occurs as a warning when there is a folded or shallow TETRA element. Results are suspect because the aspect ratio is not favorable.

If region being modeled is important, remeshing may be needed.

5272   *   USER FATAL MESSAGE 5272, NO FURTHER PROCESS IS POSSIBLE WITH A PLASTICITY MODULUS LESS THAN NEGATIVE ELASTICITY MODULUS FOR TABLE ID ****.**

Ensure that the slope of the stress-strain curve in the plastic region does not exceed the elasticity modulus.

Check the stress-strain curve for the specific Table-ID.

5274   *   USER INFORMATION MESSAGE 5274, THE ACTUAL TIME OF (***) TRIDIAGONALIZATION IS: ***, THE ACTUAL TIME OF EIGENVALUE ITERATION IS: ****, THE ACTUAL TIME OF EIGENVECTOR GENERATION IS: ****.**

The time spent in the major operations of the real eigen solution module are output. Note that the number of eigenvectors requested has a large effect on solution cost.

5275   *   SYSTEM WARNING MESSAGE 5275, THE LOSS OF SYNCHRONI-**

ZATION MAY HAVE OCCURRED MERGING THE LINEAR AND NON-LINEAR INPUT FILES. THE RESPECTIVE SUBCASE NUMBER IN WHAT SHOULD BE COMPARABLE RECORDS DISAGREE.

Check that the correct input files have been used in the DMAP and that both conform to standard stress file format.

5276   *   USER WARNING MESSAGE 5276, ELEMENT ***** HAS TOO MUCH CURVATURE AND MAY YIELD POOR ANSWERS.**

The element listed has an angle greater than 30 degrees between normals to some corner grid points. This can lead to excessively low stiffness.

Use a finer mesh size to reduce the angles between the normals.

5277   *   USER FATAL MESSAGE 5277, DIAG 23 HAS BEEN REPLACED WITH STRAIN OUTPUT REQUEST.**

Remove the DIAG. See the STRAIN command description in Section 2.3.

5278   *   USER FATAL ERROR 5278,INPUT FILE *** NOT PROPER OR TAPE BIT NOT SET. FBS CHKPT OPTION CANNOT EXECUTE.**

5279   *   USER INFORMATION MESSAGE 5279, FBS RESTARTED AT COLUMN NUMBER ****.**

5280   *   USER INFORMATION MESSAGE 5280, FBS CHECKPOINT ON ****,PASS **** COMPLETE, LAST COL NBR = ********.**

5281   *   USER WARNING MESSAGE 5281, THE PK- METHOD OF FLUT-TER ANALYSIS HAS FOUND REDUCED FREQUENCY VALUES OUTSIDE THE RANGE OF REDUCED FREQUENCIES USED FOR INTERPOLATION.**

The MKAEROi entry has reduced frequency values specified for interpolation. If complex eigen-values are found that have an associated reduced frequency outside the range on the MKAEROi entries then convergence may not be obtained. If it fails to converge and the k is outside the range the remaining eigenvalue will be skipped.

Increase the range of reduced frequency on the MKAEROi entries.

5284   *   SYSTEM WARNING MESSAGE 5284, INTERNAL FORMAT BUFFER EXCEEDED, REQUIRED (NNN) CHARACTERS.**

Attempted to write formatted output with a longer format than is possible.

Report the problem to UGS.

5285   *   SYSTEM WARNING MESSAGE 5285, UNSUPPORTED FORMAT OPERATION CHARACTER * ENCOUNTERED WITHIN ****.**

Attempted a formatted write, but found an illegal character within the format.

Report the problem to UGS.

5286   *   SYSTEM WARNING MESSAGE 5286, NO ENDING TIC MARK DETECTED IN DECODING RUNTIME FORMAT.**

Report the problem to UGS.

5287   *   SYSTEM WARNING MESSAGE 5287, CLOSING PARENTHESIS FOR FORMAT NOT FOUND.**

Attempted a formatted write, but the format had no closing parenthesis.

Report the problem to UGS.

5288 * USER FATAL MESSAGE 5288, NO ROOT EXISTS ABOVE FMIN.**
5289 * USER FATAL MESSAGE 5289, COMPONENT WITH EXTERNAL ID = ***, DOF = **, APPEARS MORE THAN ONCE ON THE SAME MPC CARD OR RIGID ELEMENT CARD.**

An MPC entry or rigid element entry lists the same independent grid point more than once.

List each grid point once per entry.

5290 * USER FATAL MESSAGE 5290, EXTERNAL ID = ****, DOF = **** IS IN Q-SET, AND HAS STIFFNESS TERM BEFORE REDUCTION.**

The q-set is reserved for generalized coordinates. In superelement analysis, each superelement must have a unique set of variables specified for its q-set. Remove any elements connected to q-set points and provide a unique set of degrees of freedom for each superelement that has generalized coordinates. See also the description of parameter ERROR in Section 3.1.3.

5291 * USER WARNING MESSAGE 5291, EXTERNAL ID ****, DOF **** REFERENCED ON A SPCOFFI CARD DOES NOT EXIST.**
5293 * USER INFORMATION MESSAGE 5293, FOR DATA BLOCKS *****.**
LOAD SEQ. NO. EPSILON EXTERNAL WORK EPSILONS LARGER THAN .001 ARE FLAGGED WITH ASTERISKS.

One line of output is printed for each static loading condition. Small values of EPSILON are due to accumulated round-off error. Large values of EPSILON indicate possible singularities in the stiffness matrix.
See Section 3.3.7.

5296 * USER FATAL MESSAGE 5296, DIAG 33 HAS BEEN REPLACED WITH OPTION ON THE STRESS OUTPUT REQUEST.**

Remove the DIAG. See the STRESS command description in Section 2.3.

5297 * USER WARNING MESSAGE 5297, UNABLE TO FIND SELECTED LOAD ID **** IN SUBROUTINE SDRHT.**

A load ID specified in Case Control has no corresponding ID in the Bulk Data section.

Remove static load command from case control, or add appropriate entry to bulk data section.

5298 * USER FATAL MESSAGE 5298, ILLEGAL KSYM OPTION ENCOUNTERED IN MODULE ********.**

5298 * USER WARNING MESSAGE 5298, UNDEFINED THERMAL OR DEFORM LOAD SET **** IN SUBROUTINE EDTL.**
5299 * SYSTEM FATAL MESSAGE 5299 (TEXT VARIES DEPENDING ON REASON FOR TERMINATION; SEE DESCRIPTION GIVEN BELOW.)**
1. Insufficient storage for Block Shifted Lanczos, 2. Factorization error on three consecutive shifts, 3. Heap overflow in Block Shifted Lanczos, 4. Unrecoverable termination from Lanczos iteration, 5. Insufficient working storage.

See the V67 Numerical Methods User's Guide, Chapter 6.

This error may also occur when using the large mass method and F1 = 0.0
or is left blank. A possible avoidance is to specify a small negative number for F1 (typically -1.0) if rigid-body modes are present. If the fatal error occurs with a small negative value for F1, make the F1 value even more negative. If rigid-body modes are not present, try using a small positive value of F1.

This can also occur for models with two or more widely separated groups of repeated roots; an avoidance is to search each group separately. See Error Report 3035.

This error may also be caused by a massless mechanism, which can be confirmed by performing a static analysis.

5400 *** USER FATAL MESSAGE 5400, INCORRECT RELATIONSHIP BETWEEN FREQUENCY LIMITS.

User has incorrectly specified V1 > V2.

Check V1,V2 specified on EIGRL Bulk Data entry.

5401 *** SYSTEM FATAL MESSAGE 5401 (REIGL), LANCZOS METHOD IS UNABLE TO FIND ALL EIGENVALUES IN RANGE. ACCEPTED EIGENVALUES AND ADDITIONAL ERROR MESSAGES MAY BE LISTED ABOVE. USER ACTION: RERUN WITH ANOTHER METHOD OR ANOTHER SETTING ON EIGRL ENTRY.

This can be issued if insufficient memory is available for Lanczos with sparse decomposition. It can also be issued if UFM 5299 occurs.
See also Chapter 6 in the V67 Numerical Methods User's Guide.

This can occur for buckling analysis when there is no output request in Case Control for the static subcase (in which case the geometric stiffness matrix is not formed).

This could be related to the occurrence of UWM 5411.

5402 *** USER WARNING MESSAGE 5402, ----THE PROBLEM HAS NO STIFFNESS MATRIX.

5403 *** USER INFORMATION MESSAGE 5403, CPU TIME AT START OF LANCZOS ITERATION XX.

Since several Lanczos iterations may be executed during one application of the Lanczos method (each shift is followed by at least one iteration), this information is given to measure the time required for the individual iterations.

5404 *** USER WARNING MESSAGE 5404, NEGATIVE MODAL MASS TERM, IS ENCOUNTERED DURING INVERSE ITERATION PROCESS ABORTED.

5405 *** USER WARNING MESSAGE 5405, ERROR OCCURRED DURING ITERATION. ERROR NUMBER IS : Y (SEE DESCRIPTION FOR VALUES OF Y AND USER ACTION.)

This marks the breakdown of the inverse iteration process.
See also Chapter 6 in the V67 Numerical Methods User's Guide.

Y Value	Number User Action	
-11	File open error in interface; see GINO error message.	This error should not occur; report error to UGS.
-12	File open error in post pro-processing; see GINO error message.	This error should not occur; report error to UGS.
-13	File read error; see GINO error message.	This error should not occur; report error to UGS.
-21	Insufficient space for blocksize = 1.	Increase memory.
-22	Three consecutive factorizations	Possible ill-conditioning;

failed at a shift.   check model.

-23 Lanczos internal table overflow   Specify smaller internal; may be due to enormous number of shifts.   necessary to have several runs.

-31 Internal error in Lanczos   This error should not occur;
     (REIGL) module.   report error to UGS.

-32 No convergence in solving   Possible ill-conditioning;
     the tridiagonal problem.   check model.

-33 Too many eigenvalues found;   Check the orthogonality   inconsistency between roots   of the eigenvectors; if it is   found and Sturm number.   good then ignore this   warning.

5406   ***   USER WARNING MESSAGE 5406 NO CONVERGENCE IN SOLVING THE TRIDIAGONAL PROBLEM.

This signals eigen solution problems. Possible ill-conditioning, check model.

5407   ***   USER WARNING MESSAGE 5407, INERTIA (STURM SEQUENCE) COUNT DISAGREES WITH THE NUMBER OF MODES ACTUALLY COMPUTED IN AN (SUB) INTERVAL

This shows a serious problem: Spurious modes have been found in the Lanczos method. Check the multiplicity of the roots given in the interval.

See Chapter 6 in the V67 Numerical Methods User's Guide.

See also Error Report 3309.

5408   ***   USER WARNING MESSAGE 5408, FACTORIZATION FAILED. SHIFT CHANGED TO *****.

No user action to be taken.

5409   ***   USER WARNING MESSAGE 5409, *** INTERNAL DEGREES OF FREEDOM FOR **** ELEMENT(S) FAILED TO CONVERGE.

Reduce the load increment.

5410   ***   USER FATAL MESSAGE 5410, PBCOMP AND PBEAM IDENTIFICATION **** WAS DUPLICATED.

Property identification numbers for the PBCOMP and PBEAM entries must be unique.

Check bulk data and ensure that PIDS for PBCOMP and PBEAM entries are not duplicated.

5410   *** USER FATAL MESSAGE 5410, (GP2).
DUPLICATE PROPERTY ID NUMBERS FOR PSOLID AND PLSOLID, OR FOR PSHELL AND PLPLANE ARE ILLEGAL.

5411   ***   USER WARNING MESSAGE 5411, NEGATIVE TERM ON DIAGONAL OF MASS MATRIX (VIBRATION) OR STIFFNESS (BUCKLING), ROW *****, VALUE = ***** See Chapter 4 in the V67 Numerical Methods User's Guide.

The message is given from the REIGL module, which performs a necessary (but not sufficient) check on the positive semidefiniteness of the indicated matrix.

Something has caused a negative term on the diagonal of the mass or stiffness matrix. Look for explicitly defined negative mass and/or stiffness terms. Also, check the continuation entries on the PBEAM entry.

An incorrect entry for the SO field may lead to improper mass definition.

For example, if SO is set to NO at a particular X/XB location, the continuation entry for defining 4

stress locations on the cross-section (C, D, E, F) is not used. If SO is NO, but the C, D, E, and F points are entered in error, negative mass terms could result if either E1 or E2 entries are entered. The offending DOF can be traced using the USET Tables.

The Lanczos method gives wrong answers for indefinite matrices. The existence of negative diagonal terms indicates a subclass of indefinite matrix.

In dynamic analysis, look for evidence of negative mass, such as minus signs on input. Negative terms on the factor of the indicated matrix must be removed for correct answers.

In buckling analysis, look for input that causes negative stiffness terms. This should cause diagnostics during the static analysis phase.

5412 * USER FATAL MESSAGE 5412, IMPLAUSIBLE NONLINEAR ELASTIC MATERIAL USED STRESS = ***, STRAIN **** If the product of the stress and the strain is negative, this fatal message will result.**

5413 * USER FATAL MESSAGE 5413, *** PRODUCT OF MOMENTS OF INERTIA I1 AND I2 SHOULD EXCEED THE SQUARE OF I12 FOR PBCOMP CARD WITH PID ****.**

This limitation is consistent with the existing beam.
If the condition is not enforced the stiffness matrix for the generated beam element will be ill-defined.

Check values of I1, I2 and I12 on the PBCOMP entry and ensure that

5414 * SYSTEM FATAL MESSAGE 5414, ABNORMAL END OF PBCOMP RECORD ENCOUNTERED ON DATA BLOCK ****.**

End of record encountered where there should not be any.
Could be hardware or computer system problem. Print the data block to see if it is plausible.

If no hardware error suspected, send run to UGS

5415 * USER INFORMATION MESSAGE 5415, NO ELEMENTS REFERENCE PBCOMP BULK DATA CARDS.**

PBCOMP Bulk Data entries do not reference any elements.

5417 * USER FATAL MESSAGE 5417, **** THICKNESS SPECIFIED FOR QUAD4 ELEMENT WITH ID = **** RESULTS IN COMPUTED ZEROS.**

Moment of inertia is a function of thickness cubed. If thickness specified is too small, moment of inertia terms are computed to be zeros. This error is computer dependent because computed zeros are a function of machine precision.

Increase the thickness.

5418 * USER FATAL MESSAGE 5418, ILLEGAL DUPLICATION ON RANDPS CARDS.**

This message is issued if J, K, and X are all duplicated on the next RANDPS entry.

This can also occur if there are additional RANDPS entries in the Bulk Data that are not referenced in Case Control. Remove the extra RANDPS entries from the Bulk Data.

5419 * USER FATAL MESSAGE 5419 GENEL CARD ****** CONTAINS DUPLICATE GRID AND COMPONENT ID NUMBERS.**

5420 * SYSTEM WARNING MESSAGE 5420 *** SUPERELEMENT ****** HAS NO EXTERIOR POINTS.**

5421 * USER FATAL MESSAGE 5421, THE VALUES FOR M2GG, B2GG, K2GG, AND P2G MUST BE REAL.**

When K2GG, B2GG, M2GG, or P2G is used, no complex DMIG entries may exist in the Bulk Data, even if they are not used. The only avoidance is to enter the complex matrix as two real matrices, one containing the real terms and the other containing the imaginary terms, and then adding them via DMAP.

5422 * USER WARNING MESSAGE 5422, PLATE ELEMENTS WITH ALL MIDSIDES DELETED GIVE POOR RESULTS.**

5423 * USER FATAL MESSAGE 5423, ---ATTEMPT TO MULTIPLY INCOMPATIBLE MATRICES TRAILER FOR ******** IS **** **** **** **** **** **** **** TRAILER FOR ******** IS **** **** **** **** **** **** **** TRAILER FOR ******** IS **** **** **** **** **** **** **** TRANSPOSE FLAG IS ***** The cause for this is the same as for UFM 3055.**

This message also occurs for adding incompatible matrices.

This message occurs if the grid point weight generator (PARAM,GRDPNT) is used and there are hydroelastic RINGFL harmonic DOF; grid point weight generation is only for structural DOF.

This also occurs when using automatic restarts in SOL 101 whenever the applied loads (other than SPCDs) are modified and the enforced deformation condition is not modified for the restart. See Error Report 3678.

This error has also been seen in superelement analysis when the user does not have the same number of load conditions for the upstream superelements as he does for the residual structure. The error occurs in SDR2 during data recovery for the superelement with the insufficient number of load conditions.

5424 * USER FATAL MESSAGE 5424, PLOADX1 LOAD SET =******** REFERENCES ELEMENT ID =******** WHICH WAS NOT FOUND AMONG THE TRIAX6 ELEMENTS IN THE PROBLEM.**

5425 *** USER FATAL MESSAGE 5425, PLOADX1 LOAD SET =********. TRIAX6 ELEMENT ******** DOES NOT CONTAIN GRID ******* AS A CORNER GRID.

5426 *** USER WARNING MESSAGE 5426, DEFORM BULK DATA CARDS REFERENCED BY DEFORM CASE CONTROL COMMAND ARE NOT DEFINED. THE REQUEST FOR STRESSES AND/OR FORCES IS IGNORED.

5427 * USER INFORMATION MESSAGE 5427, -- ENTERING LINK 16 DUMMY MODULE #1 ***.**

5428 * USER INFORMATION MESSAGE 5428, -- ENTERING LINK 16 DUMMY MODULE #2 ***.**

5429 * USER FATAL MESSAGE 5429, INSUFFFICIENT TIME TO START LANCZOS ITERATION.**

There is not enough time remaining to complete the analysis, based on an estimate of how long the Lanczos iteration will take. Increase the value on the TIME statement in the Executive Control section and rerun.

In order to ensure that the run will go through, overestimate the TIME value and do not rely on estimates or on actual times from a similar model.

5430 * USER FATAL MESSAGE 5430 (APD2), CAERO2 **** HAS INCONSISTENT USE FOR THI OR THN OR LTH2 IS REQUIRED.**

5431 * USER FATAL MESSAGE 5431 (APD2), THI1 AND THN1**

REQUIRED FOR CAERO2 **.**

5432 * USER FATAL MESSAGE 5432 (APD2), CAERO2 BODY **** DOES NOT HAVE ENOUGH SLENDER ELEMENTS.**

5438 * USER FATAL MESSAGE 5438, FOLLOWER FORCES ARE NOT ALLOWED WITH ENFORCED MOTIONS.**

The direction vector of an enforced motion is constant within a subcase. Hence, a TLOADi entry which selects an enforced motion cannot refer to a follower force load. Modify the offending TLOADi entry.

5439 * USER WARNING MESSAGE 5439, NX Nastran WILL STOP FUNCTIONING AFTER day-month-year. PLEASE CONTACT UGS FOR AN EXTENSION TO THE CONTRACT.**

This message is printed on the output during the last month of the contract period. Contact your UGS sales representative.

5440 * USER WARNING MESSAGE 5440, NX Nastran WILL STOP FUNCTIONING WITHIN THREE MONTHS. PLEASE CONTACT UGS FOR AN EXTENSION TO THE CONTRACT.**

This message is printed on the output file in the third to the last and next to the last months of the contract period. Contact your UGS sales representative.

5441 * USER FATAL MESSAGE 5441, THE CONTRACT FOR YOUR USE OF NX Nastran HAS EXPIRED. PLEASE CONTACT UGS FOR AN EXTENSION TO THE CONTRACT.**

This message is printed out after the contract has expired. Contact your UGS sales representative.

5442 * USER FATAL MESSAGE 5442, NX Nastran IS NOT AUTHORIZED ON THIS MACHINE. PLEASE CONTACT UGS TO VERIFY YOUR CONTRACT.**

The UGS security code does not recognize this site.
Contact your UGS sales representative. You will need to verify the site data with UGS and/or update your cipher code.

5443 * USER WARNING MESSAGE 5443, DYNAMIC MATRIX IS SINGULAR AT THE SHIFT OF ********.**

This is a diagnostic message issued when performing a Complex Eigenvalue Analysis with Lanczos. See Chapter 7 in the V67 Numerical Analysis User's Guide.

5444 * USER INFORMATION MESSAGE 5444, ALL ROOTS HAVE BEEN FOUND.**

This is a diagnostic message issued when performing a Complex Eigenvalue Analysis with Lanczos.

5445 * USER INFORMATION MESSAGE 5445, MORE ROOTS THAN REQUIRED HAVE BEEN FOUND AT THIS SHIFT.**

This is a diagnostic message issued when performing a Complex Eigenvalue Analysis with Lanczos.

5446 * USER FATAL MESSAGE 5446, COMPLEX LANCZOS NEEDS ****K MORE CORE WORDS.**

You need to supply more memory.

5447 * USER WARNING MESSAGE 5447, LANCZOS PROCESS ABORTED AT STEP ***** OF THE SHIFT OF 0.******D+03 0.******D+03.**

This indicates a breakdown in the Lanczos method. See Chapter 7 in the V67 Numerical Methods User's Guide.

5448 * USER WARNING MESSAGE 5448, CANNOT FIND START VECTORS ORTHOGONAL TO PREVIOUSLY CALCULATED SUBSPACE AT THE SHIFT OF ***.**

When a new shift is started, the starting vectors are orthogonalized with respect to the already accepted eigenvectors of the earlier shifts (other orthogonalization). The message occurs if this process fails.

5449 * USER FATAL MESSAGE 5449, UNEXPECTED EOF ENCOUNTERED ********.**

5450 * USER FATAL MESSAGE 5450, UNEXPECTED WORD COUNT **** ********.**

This should not normally occur. This is associated with input/output operations. You should clean your disk (remove unnecessary files), verify database allocations, and perform similar functions related to disk I/O.

5451 * USER WARNING MESSAGE 5451, NO ROOTS FOUND AT THIS SHIFT.**

See Chapter 7 in the V67 Numerical Methods User's Guide.

5452 * USER WARNING MESSAGE 5452, NO ROOTS ACCEPTED AT THIS SHIFT.**

See Chapter 7 in the Numerical Methods User's Guide.

5453 * USER INFORMATION MESSAGE 5453, FEWER ROOTS THAN REQUIRED HAVE BEEN FOUND AT THIS SHIFT.**

This is a diagnostic message issued when performing a Complex Eigenvalue Analysis with Lanczos. See Chapter 7 in the V67 Numerical Methods User's Guide.

5454 * USER FATAL MESSAGE 5454, INCOMPATIBLE MATRICES IN FRD2C.**
POSSIBLE CAUSE - DATA BLOCK QHHL IS NOT OF THE SAME ORDER AS KHH.

If a restart is performed where MHH, BHH, and KHH are redetermined with a change in the number of eigenvalues, then the H-set will change and QHH must be reformed in the AMP module.

Re-execute the AMP module by deleting the PARAM, SKPAMP entry.

5455 * USER INFORMATION MESSAGE 5455, INITIAL EQUILIBRIUM IS NOT SATISFIED.**

In a nonlinear transient run using the adaptive time increment with the "STATIC" option, the initial equilibrium condition (F(u) = P) is not satisfied.

Examine TLOADi Bulk Data entries for an inadvertent specification of Po 0, or TIC entries for an inadvertent specification of uo 0.

5456 * USER FATAL MESSAGE 5456, VALUE OF YOUNG'S MODULUS (E) IS LESS THAN OR EQUAL TO ZERO.**

The effective strain is undefined unless E > 0. The computation cannot proceed without the effective strain.

The error may be in the default value on a MAT1 entry or in the tabular data on a TABLEM1 entry. An extrapolated value obtained from the tabular data may be out of bounds.

5457   *   USER FATAL MESSAGE 5457, NONLINEAR ANALYSIS IS NOT SUPPORTED FOR QUADR ELEMENT.**

The PSHELL entry referenced by a QUADR element may not contain references to MATS1 cards in the MIDi fields.

Replace this element with the QUAD4 element.

5458   *   USER INFORMATION MESSAGE 5458, (***) METHOD IS SELECTED.**

or (***) METHOD IS (***)

The exact text of this message depends on the METHOD field on the selected EIGR Bulk Data entry. This indicates the eigen solution status (all eigenvalues found, not all found, etc.).

5459   *   USER FATAL MESSAGE 5459, NON-UNIQUE ELEMENT ID NUMBER DETECTED. **** ELEMENT ID = **** DUPLICATES A **** ELEMENT.**

5460   *   USER WARNING MESSAGE 5460, ILLEGAL OPTION ON PSOLID ID = ****, FOR BUBBLE FUNCTION. ONLY REDUCED INTEGRATION IS ALLOWED.**

For PENTA and HEXA elements, when bubble function option is requested, only reduced integration scheme is allowed.

5461   *   USER FATAL MESSAGE 5461, ELEMENT ID = **** HAS SINGULAR INTERPOLATION FUNCTION. SCHEME TO REDUCE THE RANK OF THE SHEAR STRAINS FAILED.**

Least square technique used in weight reduced integration method fails if the elements has singular interpolation function.

5462   *   USER WARNING MESSAGE 5462, OPTIONS IN PSOLID CARD ID = ****, FOR FLUID ELEMENT ARE NOT ALLOWED. DEFAULT VALUED ELEMENT WILL BE TAKEN.**

5463   *   USER FATAL MESSAGE 5463, RADIUS SPECIFIED FOR THE BEND ELEMENT ID = , IS LESS THAN HALF THE DISTANCE BETWEEN ITS TWO END POINTS.**

Only a physically plausible radius should be used for the BEND element.

5464   *   USER FATAL MESSAGE 5464, ELEMENT ID = **** HAS ZERO MASS DENSITY OR BULK MODULUS. CHECK THE MATERIAL PROPERTIES.**

5465   *   USER WARNING MESSAGE 5465 (DDRMM), SOLUTION FOR SUBCASE, ****, IS MISSING THEREFORE IT WILL NOT BE PROCESSED BY DDRMM MODULE.**

USER INFORMATION: IF MORE THAN ONE RESIDUAL STRUCTURE SUBCASE IS SPECIFIED, THE RESULT OF THE FIRST SUBCASE WILL BE CALCULATED IN THIS SOULTION SEQUENCE.

Only one residual structure subcase is allowed in the superelement solution sequences which perform transient analysis. See Section 3.2.3.

5466   *   USER FATAL MESSAGE 5466, UNDEFINED COORDINATE SYSTEM ID = ********, IS REFERENCED BY AEROS OR AESURF BULK DATA ENTRIES.**

Define referenced coordinate system ID in bulk data.

5467   *   USER FATAL MESSAGE 5467, CONNECTION POINT G**** OF CRAC2/3D ELEMENT **** IS REQUIRED BUT WAS NOT DEFINED.**

At least one of the required connection points has not been specified on the element entry.

See Section 2.4.

5468   *   USER FATAL MESSAGE 5468, ILLEGAL GEOMETRY IN CRAC3D ELEMENT ****.**

Only some of the connection points between G37 and G46 inclusive are defined.

Supply missing grids on CRAC3D entry or do not specify any. See Section 2.4.

5469   *   USER FATAL MESSAGE 5469, IN CRAC3D ELEMENT ****, CONNECTION POINT G**** IS REQUIRED IF CONNECTION POINT G**** IS SPECIFIED.**

On the element card, only one of a pair of connection points is specified. This rule applies to connection points G11 through G18 and G29 through G36. For example, if G11 is specified, then G29 must also be specified.

See Section 2.4.

5470   *   USER FATAL MESSAGE 5470, THE SPECIFIED CONNECTIVITY ON THE CRAC2/3D ELEMENT **** IS NOT CONSISTENT WITH THE SYMMETRIC HALF-CRACK OPTION.**

See Section 2.4.

5471   *   USER FATAL MESSAGE 5471, IN CRAC2/3D ELEMENT ****, TWO OR MORE CONNECTION POINTS ARE EITHER COINCIDENT OR COLLINEAR.**

5472   *   USER WARNING MESSAGE 5472, IN CRAC2/3D ELEMENT ****, THE CRACK ANGLE, WHICH IS COMPUTED TO BE ****, IS TOO LARGE.**

5473   *   USER WARNING MESSAGE 5473, IN CRAC2/3D ELEMENT ****, THE LOCATION OF THE MIDSIDE NODES CAUSES EXTREME DISTORTION IN THE BASIC (***) OF THE ELEMENT.**

5474   *   USER WARNING MESSAGE 5474, IN CRAC2/3D ELEMENT **** AN INTERIOR ANGLE OF THE BASIC (***) ARE EXTREMELY OBTUSE OR ACUTE.**

This may also be caused by poorly located midside nodes.

5476   *   USER WARNING MESSAGE 5476, ELEMENT ID = **** HAS ZERO PENALTY FUNCTION COEFFICIENT. DEFAULT VALUE = 1, IS TAKEN.**

5477   *   USER WARNING MESSAGE 5477, COUPLING BETWEEN BENDING AND MEMBRANE IS NOT SUPPORTED FOR QUADR ELEMENT.**

The MID4 field on the PSHELL bulk data entry and the ZOFFS field on the QUADR bulk data entry must be blank.

5478   *   USER FATAL MESSAGE 5478, FOR ELEMENT WITH ID = ******** *** THE JACOBIAN MATRIX IS SINGULAR.**

5479   *   USER FATAL MESSAGE 5479, FOR ELEMENTS WITH ID = ****, THE INTERNAL STRAIN MODES ARE SINGULAR.**

Check material property entries referenced by this element for correctness.

5480   *   SYSTEM FATAL MESSAGE 5480, FOR ELEMENTS WITH ID = **** THE EXTRAPOLATION MATRIX IS SINGULAR.**

This indicates a logic error in the program.

Contact UGS Client Support or Regional Marketing Office.

5481   ***   USER WARNING MESSAGE 5481, BUCKLING ANALYSIS IS NOT SUPPORTED FOR (QUADR/TRIAR) ELEMENT.

Differential stiffness, which is computed in a geometric nonlinear or buckling analysis, is not available for this element.

Replace this element with the QUAD4 or TRIA3 element.

5482   ***   USER FATAL MESSAGE 5482, HEAT TRANSFER ANALYSIS IS NOT SUPPORTED FOR (QUADR/TRIAR) ELEMENT.

The solution sequence requested on the Executive Control statement SOL is a heat transfer sequence or the HEAT keyword is specified on the NASTRAN or APP statements.

Replace this element with the QUAD4 element.

5483   ***   SYSTEM FATAL MESSAGE 5483, ELEMENT TIMING TABLE IN SEQCT ROUTINE NEEDS TO BE UPDATED. IT DOES NOT SUPPORT ELEMENT TYPE GREATER THAN ****.

Contact UGS Client Support or Regional Marketing Office.

5484   ***   USER WARNING MESSAGE 5484 (RAND5), POSSIBLE USER INPUT ERROR ON TABRND1 CARD. ****** NEGATIVE AUTO SPECTRAL DENSITIES WERE CHANGED TO ZERO.

5485   ***   USER FATAL MESSAGE 5485, NO SOLUTION IS AVAILABLE TO PERFORM A RESTART.

5486   ***   USER FATAL MESSAGE 5486, NO STATIC LOAD SUBCASE IS SPECIFIED FOR A BUCKLING SOLUTION.

5487   ***   USER WARNING MESSAGE 5487, ORIENTATION VECTOR DEFINED FOR THE ELEMENT ID =******** IS NEARLY PARALLEL, IT MAY GIVE POOR RESULTS.

5488   ***   USER FATAL MESSAGE 5488, THE CONTROLLED INCREMENTS METHOD MAY NOT BE USED WITHOUT LOAD INCREMENTS.

5489   ***   USER WARNING MESSAGE 5489, THE CONTROLLED INCREMENTS METHOD MAY NOT BE USED WITH CREEP. THE STANDARD ITERATION METHOD HAS BEEN SUBSTITUTED.

5490   ***   USER FATAL MESSAGE 5490, THE NUMBER OF SUPERELEMENT EIGENVECTORS, ****, IS LESS THAN OR EQUAL TO THE NUMBER OF DEGREES OF FREEDOM, ****, ON THE SESUP BULK DATA ENTRY.

USER ACTION: INCREASE THE NUMBER OF THE EIGENVECTORS DESIRED ON THE EIGR OR EIGRL BULK DATA ENTRY OR DECREASE THE NUMBER OF DEGREES OF FREEDOM ON THE SESUP BULK DATA ENTRY.

5491   ***   USER WARNING MESSAGE 5491, BAD GEOMETRY FOR QUAD4 ELEMENT ID = *****. THE (TAPER/SKEW) IS (GREATER/LESS) THAN THE RECOMMENDED (MAXIMUM/MINIMUM) VALUE OF (0.5/30 DEG.).

Bad geometry can cause incorrect answers for QUAD4 elements.

The bad geometry warning may be neglected if the element is in a non-critical part of the model, or if the element stress is constant.

If the element is in a critical part of the model, you are advised to refine your model so these bad geometries do not occur.

Skew and taper are representative of the amount that a QUAD4 deviates from being rectangular.

Skew is the angle between the lines that join opposite midsides.
When this angle is less than 30 degrees the message is issued.
For no skew this angle is 90 degrees.

Taper is computed as follows: Connect opposite grid points and compute the area of the enclosed triangles. Ji is 1/2 of the area associated with grid i and the adjacent grids of the enclosed triangle. Ja is 1/4 of J1+J2+J3+J4. If |(Ji-Ja)/Ja| exceeds 0.5 then the message is issued. (The equation equals 0.0 if there is no taper.) Another way to think of taper is the ratio of the areas on the two sides of a diagonal; if the ratio is greater than 3, then the taper test fails.

Note that these tests concern only geometry, and are made prior to the analysis. Another useful test, made after the analysis, is the stress discontinuity calculation.

5492   *   USER FATAL MESSAGE 5492 (DSAJ), AN UNDEFINED GRID ID =**** HAS BEEN REFERENCED BY A DVGRID BULK DATA CARD WITH A DVID =**** USER ACTION: CHECK THE DVGRID AND GRID BULK DATA CARDS**

5493   *   USER FATAL MESSAGE 5493 (DSAK), INCONSISTENT DATA DETECTED BETWEEN DATA BLOCKS DVID AND DESVEC IN MODULE DSAK. THE NUMBER OF DESIGN VARIABLES=****IN DVID IS NOT EQUAL TO THE NUMBER OF COLUMNS =**** IN DESVEC USER ACTION: CHECK THE INPUT DATA BLOCKS DVID AND DESVEC.**

5494   *   USER FATAL MESSAGE 5494 (DSAM), AN UNDEFINED SIL ID =**** HAS BEEN REFERENCED BY MATRIX DTOS4 IN MODULE DSAM**

5495   *   USER FATAL MESSAGE 5495 (DSAMA), UNABLE TO LOCATE SIL ID =**** IN TABLE 12 IN MODULE DSAM**

5496   *   USER FATAL MESSAGE 5496 (DSAMB), **** **** ELEMENT WITH EID = **** CANNOT BE LOCATED IN THE EST IN MODULE DSAM**

5497   *   USER FATAL MESSAGE 5497 (APD3), PLANFORM GEOMETRY FOR CAERO3 ID **** IS IN ERROR.**

USER ACTION: CHECK SWEEP ANGLE FOR LEADING EDGE OR CONTROL SURFACE HINGE LINE.

5498   *   USER FATAL MESSAGE 5498 (APD2), CAERO2 **** NOT INPUT IN Z,ZY,Y SEQUENCE.**

5499   *   USER FATAL MESSAGE 5499 (APD2), ASSOCIATED BODY **** REFERENCED ON PAERO1 ENTRY **** COULD NOT BE FOUND.**

5500   *   SYSTEM FATAL MESSAGE 5500 (DSAB3), NO MATCH FOUND IN GPTA1 FOR ECT LOCATE IDS **** ****.**

5501   *   SYSTEM FATAL MESSAGE 5501 (DSAB3), ECT ENTRY LENGTH FOR ELEMENT TYPE **** IS **** ---PROGRAM LIMIT IS 350.**

5502   *   SYSTEM FATAL MESSAGE 5502 (DSACO2), NOT ENOUGH OPEN CORE TO HOLD TABLE 2(SCR3)--DSACO MODULE TERMINATED IN DSACO2**

5502   ***   SYSTEM FATAL MESSAGE 5502 (DSAB5A), TABLE 1 ENTRY NOT FOUND IN TABLE 4. IT MUST BE PROGRAM LOGIC ERROR.

USER ACTION: PLEASE SEND THIS RUN TO UGS

5503   *   SYSTEM FATAL MESSAGE 5503 (DSACO2), UNEXPECTED EOR WHILE READING EST TABLE--DSACO MODULE TERMIANTED IN DSACO2**

5503   ***   USER FATAL MESSAGE 5503 (DSAB5D), RECORD ID = **** **** IS OUT OF SYNC

ON DATA BLOCK NUMBR **** AN DSAB5D SYSTEM ERROR.

USER ACTION: PLEASE SEND THIS RUN TO UGS.

5506   *   USER FATAL MESSAGE 5506, TRANSVERSE SHEAR MATERIAL MATRIX IS SINGULAR FOR PCOMP ****.**

5507   *   SYSTEM FATAL MESSAGE 5507 (DSABET), TEMPERATURE SET ID. IN DATA RECORD NOT FOUND IN HEADER RECORD TEMP(1)= **** TLIST(I)= **** **** **** **** **** **** **** **** **** **** ****.**

5510   *   SYSTEM FATAL MESSAGE 5510 (DSAC61), NO EID MATCH FOUND BETWWEN TABLE 3 AND (SCR2).**

USER ACTION: SEND THIS RUN TO UGS.

5511   *   USER FATAL MESSAGE 5511 (DSACTC), PROBLEM LIMITATION OF 66 TEMPERATURE SETS AS BEEN EXCEEDED.**

5512   *   SYSTEM FATAL MESSAGE 5512 (DSACTC), TEMPERATURE SET ID. IN DATA RECORD NOT FOUND IN HEADER RECORD TEMP(1)= **** TLIST(I)= **** **** **** **** **** **** **** **** **** **** ****.**

5513   *   SYSTEM FATAL MESSAGE 5513 (DSAD1), INCORRECT RECORD FORMAT WHILE READING TABLE = ****.**

5514   *   SYSTEM FATAL MESSAGE 5514 (DSAE), ELEMENT TYPE DOES NOT MATCH.**

5515   *   SYSTEM FATAL MESSAGE 5515 (DSAE), DESIGN VARIABLE NOT FOUND.**

USER ACTION: RERUN WITH CORRECT DESIGN VARIABLE ID.

5516   *   SYSTEM FATAL MESSAGE 5516 (DSAE), TABLES DIBID2 AND DIBID3 DO NOT EXIST.**

USER ACTION: SEND THIS RUN TO UGS.

5517   *   SYSTEM FATAL MESSAGE 5517 (DSAF2), NO ENTRIES FOUND FOR ANY RESPONSE TYPE 5518   ***   SYSTEM FATAL MESSAGE 5518 (DSAF2A), NO ENTRIES FOUND FOR ANY RESPONSE TYPE.**

5519   *   SYSTEM FATAL MESSAGE 5519 (DSAF2A), INCORRECT NUM-BER OF ENTRIES FOUND FOR RESPONSE TYPE.**

USER ACTION: PLEASE NOTIFY UGS.

5520   *   SYSTEM FATAL MESSAGE 5520 (DSAF3A), NO MATCH FOUND FOR ICEID.**

USER ACTION: SEND THIS RUN TO UGS.

5521   *   SYSTEM FATAL MESSAGE 5521 (DSAF5), NO MATCH FOUND FOR ICEID.**

USER ACTION: SEND THIS RUN TO UGS.

5522   *   SYSTEM FATAL MESSAGE 5522 (DSAF6), NO MATCH FOUND FOR ELEMENT TYPE CONSTRAINT.**

USER ACTION: SEND THIS RUN TO UGS.

5523   *   USER FATAL MESSAGE 5523 (DSAG1), THERE ARE NO RETAINED RESPONSES**

USER ACTION: ENSURE AT LEAST ONE RETAINED RESPONSE BY SETTING THE UPPER AND LOWER BOUNDS ON A DCONSTR ENTRY TO THE SAME NONZERO VALUE

5523   ***   USER FATAL MESSAGE 5523 (DSAG1), NO RESPONSE RETAINED ON THE DCONSTR BULK DATA CARD.

USER ACTION: ENSURE AT LEAST ONE RESPONSE IS RETAINED BY SUPPLING THE SAME LOWER AND UPPER BOUND ON THE DCONSTR CARD.

5524 * SYSTEM FATAL MESSAGE 5524 (DSAG3), NULL COLUMN DEFI-NITE MATRIX FOUND.**

USER ACTION: SEND THIS RUN TO UGS.

5525 * SYSTEM FATAL MESSAGE 5525 (DSAG3), INCORRECT NUMBER OF WORDS PER RECORD IN THE DRSTBL TABLE.**

USER ACTION: SEND THIS RUN TO UGS.

5526 * USER FATAL MESSAGE 5526 (DSAG4), NULL COLUMN DEFINITE MATRIX FOUND IN NEIDT.**

USER ACTION: PLEASE NOTIFY UGS.

5527 * USER FATAL MESSAGE 5527 (DSAG4), INCORRECT COLUMN NUMBER FOUND IN NEIDT MATRIX.**

USER ACTION: PLEASE NOTIFY UGS.

5528 * SYSTEM FATAL MESSAGE 5528 (DSAG4), INCORRECT NUMBER OF DISPLACEMENT RESPONSES RETAINED.**

USER ACTION: PLEASE NOTIFY UGS.

5529 * SYSTEM FATAL MESSAGE 5529 (DSAG41), INCORRECT NUM-BER OF ENTRIES FOUND IN SCR1.**

USER ACTION: SEND THIS RUN TO UGS.

5530 * SYSTEM FATAL MESSAGE 5530 (DSAG41), INCORRECT NUM-BER OF ENTRIES FOUND IN SCR2.**

USER ACTION: SEND THIS RUN TO UGS.

5531 * USER FATAL MESSAGE 5531 (DSAL), NULL COLUMN DEFINITE MATRIX FOUND IN RSP1R.**

USER ACTION: ENSURE AT LEAST ONE DRESP1 ENTRY DEFINES A NONZERO RETAINED RESPONSE.

This can occur when all responses in an optimization run are zero. See Error Report 3555.

5532 * USER WARNING MESSAGE 5532 (DSAW), RHO OF MAT CARD IS LESS THAN OR EQUAL TO ZERO.**

USER ACTION: RERUN WITH CHANGE OF RHO VALUE See Error Report 3557.

5533 * SYSTEM FATAL MESSAGE 5533 (DSACO), THE NUMBER OF LOAD CASES ON DATA BLOCKS **** AND **** DO NOT MATCH.**

USER ACTION: 1. CHECK DMAP MAKING SURE THE CASE CONTROL DATA BLOCK USED TO GENERATE THE ABOVE DATA BLOCKS ARE CORRECT.

2. CHECK DMAP MAKING SURE THE CASE CONTROL DATA BLOCK USED TO GEN-ERATE THE ABOVE DATA BLOCKS ARE CORRECT. SUBCOMS AND REPCASE ARE NOT SUPPORTED FOR SENSITIVITY OR OPTIMIZATION.

The MODES command is also not supported for sensitivity or optimization.

5535   *   USER FATAL MESSAGE 5535 (DSAW), THIS IS A NONSUP-PORTED ELEMENT TYPE.**

USER INFORMATION: ELEMENT TYPE = **** , PLEASE SEE PROGRAMMER'S MANUAL EST DATABLOCK FOR ELEMENT TYPE.

5537   *   USER WARNING MESSAGE 5537 (DSACO5), ELEMENT DEFORMATION SETS ARE NOT ACCOUNTED FOR PROPERLY IN SENSITIVITY CALCULATIONS. WRONG ANSWERS MAY RESULT FOR CALCULATED RESPONSES.**

5554   *   USER FATAL MESSAGE 5554 (DSABET), PROBLEM LIMITATION OF 66 TEMPERATURE SETS HAS BEEN EXCEEDED.**

5601   *   USER FATAL MESSAGE 5601 (SDSA), A DESOBJ ENTRY CANNOT BE FOUND. ONE MUST BE DEFINED FOR THE DESIGN MODEL.**

5602   *   USER FATAL MESSAGE 5602 (SDSA), DESOBJ ENTRY ID=**** REFERENCES EXTERNAL SUPERELEMENT ID=****.**

USER INFORMATION: DESOBJ ENTRY MAY ONLY REFERENCE A PRIMARY OR AN IMAGE SUPERELEMENT.

5603   *   USER FATAL MESSAGE 5603 (SDSA), DESOBJ ENTRY ID=**** REFERENCES AN UNDEFINED SUPERELEMENT.**

5604   *   SYSTEM FATAL MESSAGE 5604, DESIGN SENSITIVITY COEFFICIENT MATRIX DSCM2 IS PURGED FOR SUPERELEMENT ID=****.**

Make sure you have attached the necessary DBset for that superelement.

5605   *   USER FATAL MESSAGE 5605 (SDSAA), SUPERELEMENT MAP DOES NOT CONTAIN ELEMENT IDS FOR SEID =****.**

5606   *   USER FATAL MESSAGE 5606 (SDSAB), NO DRESP1 ENTRIES CAN BE FOUND IN DATABLOCK EDOM.**

USER ACTION: SPECIFY AT LEAST ONE DRESP1 ENTRY.

5607   *   USER FATAL MESSAGE 5607 (SDSAB), NO DRESP1 ENTRIES CAN BE FOUND FOR SUPERELEMENT ID=**** WITH DRESP2 - SYNTHETIC RESPONSES.**

USER ACTION: SPECIFY AT LEAST A SINGLE DRESP1 - DIRECT RESPONSE FOR THIS SUPERELEMENT.

5608   *   USER FATAL MESSAGE 5608 (SDSAC), DRESP2 ENTRY ID=* REFERENCES AN UNDEFINED DRESP1 ENTRY ID=****.**

5609   *   USER FATAL MESSAGE 5609 (SDSAC), DRESP2 ENTRY ID=**** REFERENCES DRESP1 ENTRIES WHICH DO NOT BELONG TO THE SAME SOLUTION TYPE.**

5610   *   USER WARNING MESSAGE 5610 (DSAW), THE MASS DEFINED ON CMASSI BULK DATA ENTRIES DOES NOT CONTRIBUTE TO THE WEIGHT RESPONSE AND WILL BE IGNORED IN THE DESIGN SENSITIVITY AND OPTIMIZATION ANALYSIS.**

USER ACTION: DRESP2 SYNTHETIC RESPONSES CAN BE USED TO INCLUDE THE EFFECTS OF MASS CHANGES ON THE WEIGHT.

5612   *   USER FATAL MESSAGE 5612 (DSAK), ZERO GRID PERTURBATION IS PRESCRIBED BY ALL DESIGN VARIABLES.**

USER ACTION: CHECK DVGRID BULK DATA ENTRIES FOR ZERO GRID PERTURBATION.

PROGRAMMER INFORMATION: INPUT MATRIX DESVEC IS NULL.

5613   *   USER FATAL MESSAGE 5613 (DMPR), A **** ENTRY MUST EXIST**

IN THE DESIGN MODEL.

USER ACTION: INCLUDE A **** ENTRY IN THE DESIGN MODEL.

5614   *   USER FATAL ERROR 5614 (DMPR), DRESP2 ENTRIES CAN NOT BE LOCATED IN EDOM.**

5615   *   USER FATAL MESSAGE 5615 (DMPRB), A DRESP2 ENTRY ID=**** REFERENCES AN UNDEFINED DRESP1 ENTRY ID =******

5616   *   USER FATAL MESSAGE 5616 (DMPRB), DRESP2 ENTRY ID =**** REFERENCES DRESP1 ENTRIES WHICH HAVE INCONSISTENT RESPONSE TYPES.**

When referencing DRESP1 entries, each referenced entry must have the same RTYPE and PTYPE.

5617   *   USER FATAL MESSAGE 5617. (SDSAB) THE SUPERELEMENT ID SPECIFIED ON THE DESOBJ BULK DATA ENTRY DOES NOT EXIST ON THE REFERENCED DRESP1 BULK DATA ENTRY.**

USER ACTION: VERIFY THE DESOBJ AND DRESP1 ENTRIES.

5901   *   USER FATAL MESSAGE 5901. (DSAP), ZERO PSEUDO LOADS DETECTED.**

Error Messages 6001-7000

6001   *   SYSTEM FATAL MESSAGE 6001 (RSTART), ERROR IN OPENING THE DATABASE TRANSACTION FILE (DBRQUE). GINO FILE NAME = ****.**

USER ACTION: SEND THIS RUN TO UGS.

6002   *   USER FATAL MESSAGE 6002 (RSTART), RESTART DOES NOT SUPPORT TYPE = UNSTRUCTURED, FOUND ON DATA BLOCK ********.**

USER ACTION: SELECT ONE OF THE STANDARD TYPES (TABLE, VECTOR, AND MATRIX).

6003   *   USER FATAL MESSAGE 6003 (RSTART), TOO MANY INPUT DATA BLOCKS STARTING WITH ****.**

USER ACTION: SELECT ONE OR THE OTHER OF THE INPUT MODES.

There are two possible input modes into the RSTART module. In neither of them are all three of the input data block slots to be filled.

6004   *   SYSTEM FATAL MESSAGE 6004 (******), DATA BLOCK ******** IS NOT DEFINED IN THE NDDL.**

USER ACTION: ADD THE INDICATED DATA BLOCK TO THE NDDL DESCRIPTION.

6006   *   USER FATAL MESSAGE 6006 (*****), INPUT DATA BLOCK ******** - GINO FILE NUMBER **** NOT FOUND.**

6007   *   USER WARNING MESSAGE 6007 (DMIIN) -, OUTPUT DATA BLOCK ******** - GINO FILE NUMBER **** ALREADY APPEARS AS A OUT-PUT BLOCK ON THIS CARD.**

6008   *   USER WARNING MESSAGE 6008, THERMAL OR DEFORM LOAD SET, ******** IS NOT APPLICABLE FOR THIS ELEMENT.**

6009   *   SYSTEM FATAL MESSAGE 6009 (IFP1CP), THE NUMBER OF UNIQUE CASE CONTROL PARAMETERS EXCEEDS THE CURRENT LIMIT OF *****.**

USER ACTION: REDUCE THE NUMBER OF CASE CONTROL PARAMETERS

6010   *   SYSTEM FATAL MESSAGE 6010 (IFPCCP), THE MAXIMUM**

ALLOWABLE SIZE OF THE PARAMETER VALUE DEFAULT TABLE (PVTS) HAS BEEN EXCEEDED.

USER INFORMATION: THE BULK DATA PARAMETERS WERE BEING LOADED INTO THE PARAMETER VALUE DEFAULT TABLE (PVTS). THE MAXIMUM SIZE OF THE PARAMETER VALUE DEFAULT TABLE IS ******** WORDS.

USER ACTION: REDUCE THE NUMBER OF UNIQUE BULK DATA, CASE CONTROL, AND NDDL PARAMETERS.

6010   ***   SYSTEM FATAL MESSAGE 6010 (IFPCCP), THE MAXIMUM ALLOWABLE (***) VALUE DEFAULT TABLE (PVTS) HAS BEEN EXCEEDED.

USER INFORMATION: THE NDDL PARAMETER DEFAULT VALUES WERE BEING ********** INTO THE PARAMETER VALUE DEFAULT TABLE (PVTS). PARAMETER VALUE DEFAULT TABLE (PVTS) WAS BEING MERGED INTO THE PARAMETER VALUE TABLE (PVT). THE MAXIMUM SIZE OF THE (***) TABLE IS ******** WORDS.

USER ACTION: REDUCE THE NUMBER OF UNIQUE BULK DATA, CASE CONTROL, AND NDDL PARAMETERS.

6011   *   USER FATAL MESSAGE 6011 (IFPCCP), THE (***) TYPE OF PARAMETER ******** DIFFERS FROM THE TYPE DETERMINED FROM PARAM CARD DEFINITION.**

USER INFORMATION: (***) ********. PARAM TYPE IS ********.

6012   *   SYSTEM FATAL MESSAGE 6012 (IFPDRV), THE MAXIMUM ALLOWABLE SIZE OF THE PARAMETER VALUE TABLE (PVT) HAS BEEN EXCEEDED.**

USER INFORMATION: THE PVT TABLE WAS BEING CREATED FROM BULK DATA PARAM CARDS. THE MAXIMUM SIZE OF THE PVT TABLE IS ******** WORDS.

USER ACTION: REDUCE THE NUMBER OF UNIQUE BULK DATA PARAMETERS.

6013   *   SYSTEM FATAL MESSAGE 6013 (IFSEQU), THE EQUATION INDEX TABLE HAS EXCEEDED THE MAXIMUM NUMBER OF EQUATIONS ALLOWED FOR THE ******** BLOCK.**

USER INFORMATION: THE MAXIMUM NUMBER OF EQUATIONS IS:

0.5 * SYSBUF - 1 EQUATIONS, OR ****** IN THIS RUN.

6014   *   SYSTEM WARNING MESSAGE 6014 (MODTRL), UNABLE TO WRITE TRAILER FOR FILE *** 6015   ***   SYSTEM FATAL MESSAGE 6015, PREMAT TABLE LOGIC ERROR ...**

6016   *   USER INFORMATION MESSAGE 6016 (PRTPRM), NO PARAME-TERS EXIST IN THE VPS OF REQUESTED SUBDMAP.**

6017   *   USER INFORMATION MESSAGE 6017 (PRTPRM), SUBDMAP ******** IS NOT IN CURRENT SUBDMAP CALLING CHAIN.**

6018   *   USER INFORMATION MESSAGE 6018 (PRTPRM), PARAMETER NAMED ******** IS NOT IN THE VPS OF SUBDMAP ********.**

6019   *   USER INFORMATION MESSAGE 6019 (PRTPRM), THE SECOND PRTPARM PARAMETER VALUE - ******** - IS IMPROPER.**

6020   *   USER INFORMATION MESSAGE 6020 (PRTPRM), THE PRTPARM DIAGNOSTIC ******** IS NOT IN TABLE.**

6022   *   USER WARNING MESSAGE 6022 (PVT), AN UNEXPECTED END-OF-FILE ENCOUNTERED PROCESSING INPUT DATA BLOCK 102.**

USER INFORMATION: IT WILL BE PROCESSED AS IF PURGED.

6023   *   USER WARNING MESSAGE 6023 (PVT), AN ATTEMPT WAS MADE TO REDEFINE THE TYPE OF THE BULK DATA OR CASE CONTROL PARAMETER ********.**

USER INFORMATION: THE ATTEMPT AT REDEFINITION IS IGNORED.

6024   *   SYSTEM FATAL MESSAGE 6024 (PVT), THE PARAMETER VARI- ABLE TABLE - PVT - HAS OVERFLOWED.**

USER ACTION: REDUCE NUMBER OF BULK DATA AND/OR CASE CONTROL PARAM CARDS.

6025   *   SYSTEM FATAL MESSAGE 6025 (PVT), INSUFFICIENT OPEN CORE TO READ CASE CONTROL DATA.**

6026   *   USER FATAL MESSAGE 6026 (XEQUIV), ATTEMPT TO EQUIVA- LENCE SECONDARY DATABLOCK ********, WHICH ALREADY EXISTS.**

6027   *   USER WARNING MESSAGE 6027 (XEQUIV), ATTEMPT TO EQUIV- ALENCE PRIMARY DATABLOCK ********, WHICH DOES NOT EXIST.**

This warning message can occur for many reasons. It has been seen in user DMAPs or DMAP alters where datablocks are being stored permanently on the database. If an EQUIV is done on one of these stored datablocks, and the qualifiers for that datablock are not set, then this mes- sage can occur. A more confusing case occurs when all qualifiers for a permanent datablock are not TYPEd as NDDL parameters, or are not passed into the current subDMAP. When an EQUIV is attempted, the UWM 6027 can occur. Be sure that ALL qualifiers that were set when the primary was stored are still set when the equivalence is attempted.

6028   *   SYSTEM WARNING MESSAGE 6028 (XMESAG), PARAMETER NUMBER *** WAS NOT FOUND IN THE VPS.**

6029   *   SYSTEM FATAL MESSAGE 6029 (*******), ATTEMPT TO LOAD (***)**
PROGRAMMER INFORMATION: (***) = **********.

6030   *   SYSTEM FATAL MESSAGE 6030 (XQAROS), ATTEMPT TO STORE (STOR) NON-TEMPORARY VALUE IN TEMPORARY STORAGE ARRAY.**

PROGRAMMER INFORMATION: TEMPORARY ADDRESS POINTER = **********.

6031   *   SYSTEM FATAL MESSAGE 6031 (XQAROS), UNABLE TO STORE (STOR) TEMPORARY VALUE IN TEMPORARY STORAGE ARRAY.**

PROGRAMMER INFORMATION: TEMPORARY ADDRESS POINTER = **********.

6032   *   SYSTEM FATAL MESSAGE 6032 (XQAROS), UNDEFINED OPER- AND DETECTED IN INSTRUCTION ****.**

PROGRAMMER INFORMATION: OPERAND POINTER = **********.

6033   *   SYSTEM FATAL MESSAGE 6033 (XQAROS), ATTEMPT BY INSTRUCTION **** TO OPERATE ON NON-EXISTENT (***) VARIABLE.**

6034   *   SYSTEM FATAL MESSAGE 6034 (XQAROS), ATTEMPT BY INSTRUCTION **** TO PERFORM (***) OPERATION ON (***).**

6035   *   SYSTEM FATAL MESSAGE 6035 (XQAROS), ATTEMPT TO RAISE NEGATIVE ********** BASE TO A FRACTIONAL EXPONENT.**

6036   *   SYSTEM FATAL MESSAGE 6036 (XQAROS), ATTEMPT TO DIVIDE BY ********** ZERO.**

6037   *   SYSTEM FATAL MESSAGE 6037 (XQAROS), ATTEMPT BY INSTRUCTION **** TO COMPARE COMPLEX EXPRESSIONS WITH RELA- TIONAL OPERATOR.**

6038   *   SYSTEM FATAL MESSAGE 6038 (XQAROS), INVALID BLANK COMMON POINTER.**

PROGRAMMER INFORMATION: BLANK COMMON POINTER VALUE = **********.

6039   *   SYSTEM FATAL MESSAGE 6039 (XQAROS), ATTEMPT BY INSTRUCTION **** TO ASSIGN VALUE TO NON-VPS VARIABLE.**

6040   *   SYSTEM FATAL MESSAGE 6040 (XQAROS), UNABLE TO ASSIGN (==) VALUE TO SPECIFIED VPS/DATABASE VARIABLE.**

6041   *   SYSTEM FATAL MESSAGE 6041 (XQAROS), ATTEMPT BY INSTRUCTION **** TO LOAD VALUE (***) INTO THE ARGUMENT STORAGE ARRAY.**

PROGRAMMER INFORMATION: (***) = **********.

6042   *   SYSTEM FATAL MESSAGE 6042 (XQAROS), ATTEMPT TO PER-FORM ******* OPERATION *** BETWEEN ********** AND ********** DATA.**

6043   *   SYSTEM FATAL MESSAGE 6043 (XQAROS), UNABLE TO EVALU-ATE EXPRESSIONS OF OSCAR TYPE ***.**

6044   *   SYSTEM FATAL MESSAGE 6044 (XQAROS), ATTEMPT BY INSTRUCTION **** TO STORE A NON-ARGUMENT VALUE IN THE ARGU-MENT STORAGE ARRAY.**

PROGRAMMER INFORMATION: ARGUMENT POINTER VALUE = **********.

6045   *   SYSTEM FATAL MESSAGE 6045 (XQAROS), UNABLE TO STORE ARGUMENT VALUE IN ARGUMENT STORAGE ARRAY DURING **** INSTRUCTION.**

6046   *   SYSTEM FATAL MESSAGE 6046 (XQFUNC), ATTEMPT TO OPER-ATE ON NON-EXISTENT FUNCTION ARGUMENT.**

6047   *   USER FATAL MESSAGE 6047 (XQFUNC), ILLEGAL ********** ARGUMENT GIVEN FOR ********** FUNCTION.**

6048   *   SYSTEM FATAL MESSAGE 6048 (XQFUNC), (***) ATTEMPTED ON (***) ********** VALUE.**

6049   *   SYSTEM FATAL MESSAGE 6049 (XQFUNC), NON-CHARACTER CONSTANT/VARIABLE FOUND, WHERE CHARACTER CONSTANT/VARI-ABLE EXPECTED IN FUNCTION INDEXSTR.**

6050   *   USER WARNING MESSAGE 6050 (XQFUNC), THE ATTEMPT TO (***) VALUE INTO /SYSTEM/ CELL ********** HAS FAILED USER INFORMA-TION: THE SYSTEM CELL NUMBER IS OUTSIDE THE VALID RANGE. THE ********** ATTEMPT IS IGNORED.**

6051   *   USER WARNING MESSAGE 6051 (XQFUNC), THE ATTEMPT TO TURN (ON/OFF) DIAG ********** HAS FAILED.**

USER INFORMATION: THE DIAG REQUESTED IS OUTSIDE THE VALID RANGE OF DIAGS.
 THE ********** ATTEMPT IS IGNORED.

6052   *   USER WARNING MESSAGE 6052 (XQFUNC), INVALID DIAG WORD (***) REQUEST FOR DIAG WORD **********.**

USER INFORMATION: ONLY 2 DIAG WORDS EXIST IN NX Nastran.
 WORD 1 - DIAGS 1 THROUGH 32 (ASSUMED WHEN ERROR OCCURS) WORD 2 - DIAGS
 33 THROUGH 64

6053   *   SYSTEM FATAL MESSAGE 6053 (DBMIG), MODULE DBMIG IS UNABLE TO OPEN INPUT DATA BLOCK ********.**

6054   *   SYSTEM FATAL MESSAGE 6054 (DBMIG), MODULE DBMIG UNABLE TO OPEN DICTIONARY OUTPUT FILE *****.**

6055   *   USER FATAL MESSAGE 6055 (DBMIG), MODULE DBMIG IS MISS-ING FILE CODE HEADER = *****.**

6056   *   USER FATAL MESSAGE 6056 (DBMIG), FORTRAN LOGICAL UNIT *** HAS NOT BEEN ASSIGNED.**

6057   *   USER FATAL MESSAGE 6057 (DBMIG), FORTRAN LOGICAL UNIT**

*** IS NOT DEFINED AS A DBMIG MODULE INPUT UNIT.
6059   ***   SYSTEM FATAL MESSAGE 6059 (DIOMSG), NO ERROR MES-SAGE EXISTS FOR DIOMSG INTERNAL CODE NUMBER ******** CALLED FROM ********.
6060   ***   USER FATAL MESSAGE 6060 (DBC), *** DIOMSG ERROR MES-SAGE 1
 FROM SUBROUTINE ********, DATA BASE UNIT ***** IS OUT OF RANGE.
6061   ***   USER WARNING MESSAGE 6061 (DBC), *** DIOMSG ERROR MESSAGE code FROM SUBROUTINE ********.

 Code   Description 5   DATA BASE ***** NOT OPENED, NO ACTION TAKEN 12   DATA BASE ***** OPENED FOR READ ONLY, NO ACTION TAKEN
6062   ***   SYSTEM FATAL ERROR 6062 (DBC), *** DIOMSG ERROR MES-SAGE code FROM SUBROUTINE ********.

 Code   Description 2   BLOCK REQUEST FROM DATA BASE UNIT *****, WHICH IS CLOSED.

 3   BLOCK ******** REQUESTED FROM DATA BASE UNIT *****, WHICH IS OPEN   FOR READ ONLY 4   INSUFFICIENT SPACE ALLOCATED FOR DATA BASE UNIT ***** 6   OVER-FLOW OF DICTIONARY PRIMARY INDEX FOR DATA BASE UNIT ***** 7   BUFFER LOCKING PROBLEMS ON POOL FOR DATA BASE UNIT *****, BLOCK **********   POSSIBLE MULTIPLE LOGICAL FILES ASSIGNED TO THE SAME DATA RELATION 8   FREE BUFFER POOL SPACE EXHAUSTED, REDUCE NUMBER OF LOGICAL FILES   OR INCREASE SPACE 9   LOGIC ERROR, DICTIONARY PRIMARY BLOCK ON DEAD CHAIN FOR DATA BASE ***** 10   UNABLE TO FIND ENTRY ********* ON SI BLOCK ********, WHICH HAD BEEN   PREVIOUSLY FOUND. DISK ERROR OR MEMORY OVER WRITE ASSUMED.

 11   UNABLE TO FIND ENTRY ********* ON PI BLOCK ********, WHICH HAD BEEN   PREVI-OUSLY FOUND. DISK ERROR OR MEMORY OVER WRITE ASSUMED.

 13   PROGRAMMING ERROR. LENGTH OF DICTIONARY ENTRIES CHANGED, BUT CLOSGR NOT INFORMED 14   DICTIONARY OR DICTIONARY NAME FOR FILE ******** COR-RUPTED.
    UNABLE TO CLOSE DATA BLOCK.

 15   THE FOLLOWING LOGICAL FILE WAS LEFT OPEN AT DATABASE CLOSE,   FORCE CLOSING, ****.

 16   THE FOLLOWING LOGICAL FILE WAS OPEN AT THE TIME A PURGE WAS REQUESTED. NO PURGE ACTION WAS TAKEN FOR LOGICAL FILE ****.
6063   ***   SYSTEM WARNING MESSAGE 6063 (DBCMSG), NO ERROR MESSAGE EXISTS FOR DBCMSG INTERNAL CODE NUMBER ******** CALLED FROM ********.
6064   ***   USER WARNING MESSAGE 6064 (DBC), *** DBCMSG ERROR MESSAGE code FROM SUBROUTINE ********.

 Code   Description 27 ******** IS AN INVALID OPTION OR KEYWORD 28 LIST AREA EXCEEDED, CURRENT SIZE IS 500 TERMS 31 FORTRAN LOGICAL UNIT *** IS NOT DEFINED AS A DBC MODULE DATA BASE UNIT1
6065   ***   SYSTEM WARNING MESSAGE 6065 (DBC), *** DBCMSG ERROR MESSAGE code FROM SUBROUTINE ********.

Code   Description 1 UNABLE TO OPEN OUTPUT RELATION ******** RETURN CODE = *** 2 PREMATURE END OF FILE ENCOUTNERED READING ECT 3 ******** ELEMENT ******** HAS BEEN UPDATED 4 ELEMENT ******** GRID POSITION **** CONTAINS AN INVALID SIL 5 MISSING NX Nastran LOGICAL FILE ******** FOR SEID   *********, DBSET ********* 6 BAD TRAILER FOR NX Nastran LOGICAL FILE ******** FOR SEID   *********, DBSET ********* 7 INCONSISTENT GEOMETRY TRAILERS DETECTED FOR SEID *********, DBSET ********* 8 NSUFFICIENT MEMORY TO PROCESS RELATIONAL REQUIREMENTS 9 OPEN FAILURE FOR NX Nastran LOGICAL FILE ******** FOR SEID   *********, DBSET ********* 10 PREMATURE EOF FOR NX Nastran LOGICAL FILE ******** FOR SEID   *********, DBSET ********* 11 PREMATURE EOR FOR NX Nastran LOGICAL FILE ******** FOR SEID   *********, DBSET ********* 12 DATA BASE PURGE PROBLEM FOR RELATION ******** RETURN CODE = *** 13 DATA BASE WRITE RELATION PROBLEM FOR ******** RETURN CODE = *** 14 UNABLE TO OPEN INPUT RELATION ******** RETURN CODE = *** 15 SEQUENTIAL READ PROBLEMS FOR RELATION ******** RETURN FLAGS = ** ** 16 ELEMENT ******** WAS A ******** AND IS CURRENTLY A ********   UPDATE MODE DOES NOT ALLOW FOR ELEMENTS TO CHANGE TYPES   This warning message shows up when there is an old or obsolete UGS/XL database (.xdb file) being written by an NX Nastran run. Re-running an NX Nastran job with element numbering changes will also cause this   problem if the .xdb file from the original run is not deleted prior to the start of the second run.

17 MEMORY LOAD PROBLEM FOR ******** FOR SEID *********, DBSET ********* 18 LIST ALIGNMENT PROBLEMS PROCESSING ******** FOR SEID   *********, DBSET ********* 19 EXTERNAL GRID ID ******** DOES NOT MEET UPDATE ASSUMPTIONS,   CHECK MODEL BEFORE PROCEEDING 20 INVALID OFP FILE FORMAT CODE DETECTED, WANTED *****, ENCOUNTERED ****** 21 SOLUTION APPROACH CODE ****** IS NOT SUPPORTED 22 DATA BASE READ RELATION PROBLEM FOR ******** RETURN CODE = *** 23 OUTPUT LIST SYNCHRONIZATION PROBLEM FOR ******** VALUE =
   ************, POSITION = ******** 24 SORT-2 STATIC SOLUTION RECOVERY IS NOT SUPPORTED 25 FORM UPDATE FOR RELATION ******** INVALID, OLD FORM ***** NEW FORM ***** 26 INVALID MODE DETECTED FOR OPTION ********, MODE = *** 29 CONFLICT DETECTED WITH SEID AS PARAMETER AND PATH QUALIFIER   PARAMETER IS *********, PATH QUALIFIER IS ******** 30 FORTRAN LOGICAL UNIT *** HAS NOT BEEN ASSIGNED 32 RELATION ******** HAS LENGTHENED FROM ASSUMMED DEFINITION 33 EXTERNAL ELEMENT IDENTIFICATION ********* CAN NOT BE LOCATED   IN EQEXIN TABLE

6066   *   SYSTEM WARNING MESSAGE 6066 (DBC), *** DBCMSG ERROR MESSAGE   34 FROM SUBROUTINE ********, THE DBC MODULE HAS BEEN TERMINATED BECAUSE OF THE ABOVE FATAL DBC ERROR.**

USER INFORMATION: SUBSEQUENT DBC CALLS WILL NOT BE EXECUTED, AND THE DATABASE CONVERSION IS INCOMPLETE.

6069   *   SYSTEM FATAL MESSAGE 6069, SYMMETRIC LEFT HANDED FBS IS CALLED TO SOLVE A COMPLEX SINGLE OR DOUBLE PRECISION SYSTEM WITH CHOLESKY FACTOR.**

This option is not supported.

6070   *   SYSTEM FATAL MESSAGE 6070, ERROR IN READING THE FACTOR IN SYMMETRIC LEFT-HANDED FBS.**
6072   *   SYSTEM FATAL MESSAGE 6072 (LFBSU), INCORRECT PIVOTING INSTRUCTIONS IN UNSYMMETRIC FACTOR DURING A LEFT-HANDED FBS.**

See Chapter 5 in the V67 Numerical Methods User's Guide.

6073 * SYSTEM FATAL MESSAGE 6073 (LFBSU), ERROR IN READING THE FACTOR IN UNSYMMETRIC LEFT-HANDED FBS.**
6074 * SYSTEM FATAL MESSAGE 6074 (LFBTIM), ERROR IN READING THE FACTOR IN LEFT-HANDED FBS.**

See Chapter 5 in the V67 Numerical Methods User's Guide.

6080 * USER WARNING MESSAGE 6080 (SETKRN), THE TIMING CON-STANTS DATA BLOCK TIMEBLK NOT FOUND ON THE DELIVERY DATA-BASE FOR:**

MACHINE = 0 CONFIG = 0 OPERSYS = 0 SUBMODEL = 0 OPERLEV = 0 MODULE TIMING ESTIMATES INACCURATE AND MAY CAUSE INEFFICIENT JOB EXECU-TION.

USER ACTION: ADD TIMEBLK TO DELIVERY FILE OR USE NASTRAN STATEMENT TO SPECIFY THE MACHINE (SEE AM 7.6).

6081 * USER FATAL MESSAG 6081 (TIMTS3), VALUE OF P2 CANNOT BE LESS THAN 64.**
6082 * USER FATAL MESSAGE 6082 (TIMTS3), THE RETURNED TIME NEEDED TO DO THE TASK CANNOT BE EQUAL TO THE VALUE ZERO.**

USER ACTION: INCREASE THE VALUE OF P1 FOR TIMTS3.

6083 * USER FATAL MESSAGE 6083 (TIMTS4), THE RETURNED TIME NEEDED TO DO THE TASK CANNOT BE EQUAL TO THE VALUE ZERO.**

USER ACTION: INCREASE THE VALUE OF P1 FOR TIMTS4.

6084 * SYSTEM FATAL MESSAGE 6084 (TIMTS5), ERROR IN MPYAD METHOD SELECTION, MPYAD CALLED FORM WITHIN TIMTS5.**

USER ACTION: EXECUTION OF TIMTS5 IS OPTIONAL AND CAN BE DELETED FROM THE TIMETEST RUN.

6126 * USER INFORMATION MESSAGE 6126, *** SOLUTION ASSOCI-ATED WITH THIS LOOPID IS NOT STORED IN THE DATABASE ***.**

This may be issued on restart, if the PARAM, LOOPID value is incorrect.

6127 * USER FATAL MESSAGE 6127, *** MAT2 OR MAT9 CARD MAY NOT BE COMBINED WITH NLELAST TYPE ON MATS1.**
6132 * USER INFORMATION MESSAGE 6132 (DFMSA), ROLL THROUGH IN SPARSE DECOMPOSITION CASE.**

This is issued if there is insufficient memory to hold the entire factor in core.

6133 * USER FATAL MESSAGE 6133 (DFMSDD), SINGULAR MATRIX IN SPARSE DECOMPOSITION.**

USER ACTION: CHECK MODEL.

6134 * USER FATAL MESSAGE 6134 (DFMSDD), MATRIX IS NOT POSI-TIVE DEFINITE IN SPARSE DECOMPOSITION.**

USER ACTION: CHECK MODEL.

6135 * SYSTEM FATAL MESSAGE 6135, ERROR IN READING SYM-BOLIC FACTOR IN SPARSE FBS.**

This may be issued if the FBS module is using a sparse method to solve factors which have not been decomposed by the sparse method.

6136 *** USER FATAL MESSAGE 6136 (****), INSUFFICIENT CORE FOR (SYMBOLIC/NUMERIC) PHASE OF SPARSE DECOMPOSITION.

USER ACTION: INCREASE CORE BY **** WORDS.

USER INFORMATION:
!!! NOW REVERTING BACK TO ACTIVE COLUMN DECOMPOSITION UPON USER REQUEST !!!

This message is issued when the amount of RAM allocated to the solver is not sufficient to analyze the model. When this occurs the solver will switch to using hard disk space to continue analyzing the model.

6137 *** USER WARNING MESSAGE 6137 (DFMSDD), INPUT MATRIX IS RANK DEFICIENT, RANK = ****.

USER ACTION: CHECK MODEL.

One of your matrices is singular. See Chapter 4 in the V67 Numerical Methods User's Guide for a discussion of singularity.

6138 *** USER FATAL MESSAGE 6138 (DFMSB), INSUFFICIENT CORE FOR SPARSE FBS.

USER ACTION: INCREASE CORE BY **** WORDS.

6142 *** USER INFORMATION MESSAGE 6142, THE K OR KE METHOD OF FLUTTER ANALYSIS HAS FOUND A ROOT IT CANNOT INTERPRET.

USER ACTION: ANALYSES AT HIGHER REDUCED FREQUENCY VALUES SHOULD GIVE PHYSICALLY MEANINGFUL RESULTS.

When the real part of a complex eigenvalue has an absolute magnitude that is greater than the absolute magnitude of the imaginary part, the frequency, damping and velocity values cannot be computed.

6143 *** USER FATAL MESSAGE 6143, (MERGE1), INPUT MATRICES AND VECTORS ARE INCOMPATIBLE.

USER INFORMATION: INPUT MATRIX AND VECTOR SIZES FOLLOW:

**** : NO. OF COLUMNS= **** NO. OF ROWS= **** **** : IS PURGED CP-SIZE= **** CP-ONES= **** CP-ZEROS= **** RP-SIZE= **** RP-ONES= **** RP-ZEROS= **** One cause is using a SUPORT entry when doing acoustic analysis, in which the SUPORT entry is not supported.

6146 *** SYSTEM FATAL MESSAGE 6146 (GPTABD), ELEMENT TYPE = **** IS NOT SUPPORTED IN ACOUSTIC ANALYSIS.

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: GP5 MODULE FAILED TO RECOGNIZE THIS ELEMENT TYPE CHECK GPTABD ROUTINE.

6147 *** SYSTEM FATAL MESSAGE 6147 (GP5A), AN INCORRECT ELEMENT FACE CONNECTION TABLE HAS BEEN CREATED.

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: ELEMENT FACE CONNECTION TABLE BUILDING PRO-
CEDURE FAILED IN GP5A ROUTINE.

6148   *   USER WARNING MESSAGE 6148, NO ACOUSTIC ELEMENTS FOUND IN THE BULK DATA.**

USER ACTION: CHECK PSOLID DATA, MAKE SURE FIELD 8 CONTAINS BCD WORD (PFLUID) FOR SELECTED ACOUSTIC ELEMENTS.

6149   *   USER FATAL MESSAGE 6149, THREE OR MORE FLUID GRID POINTS HAVE IDENTICAL COORDINATES.**

USER ACTION: CHECK GRIDS AND/OR SET1 BULK DATA ENTRIES WHICH ARE REFER-
ENCED ON PANEL OR ACMODL ENTRIES.

6150   *   USER FATAL MESSAGE 6150, FOUND GRID POINTS WITH IDEN-
TICAL COORDINATES, WHICH ARE NOT CLASSIFIED AS FLUID OR STRUC-
TURAL GRIDS.**

USER ACTION: CHECK GRIDS ANDOR SET1 BULK DATA ENTRIES WHICH ARE REFER-
ENCED ON PANEL OR ACMODL ENTRIES.

6151   *   USER WARNING MESSAGE 6151, ACOUSTIC COUPLING MATRIX WILL NOT BE CREATED FOR FACE = **** OF ELEMENT ID = **** BECAUSE ITS FLUID GRID POINTS DO NOT HAVE CORRESPONDING STRUCTURAL GRID POINTS.**

USER ACTION: IF COUPLING IS DESIRED, THEN CHECK GRID POINT DATA.

6152   *   USER WARNING MESSAGE 6152, ACOUSTIC COUPLING MATRIX IS NOT CREATED FOR THIS MODEL.**

USER ACTION: IF COUPLING IS DESIRED, THEN CHECK INPUT DATA.

6153   *   USER FATAL MESSAGE 6153, NO FLUID OR STRUCTURAL GRIDS ARE REFERENCED ON SET1 ENTRIES.**

USER ACTION: CHECK SET1 ENTRIES REFERENCED BY ACMODL ENTRIES.

6154   *   SYSTEM FATAL MESSAGE 6154, GRID ID = **** DOES NOT EXIST IN THE EQEXIN TABLE.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: CHECK INTERNAL GRID ID TO EXTERNAL GRID ID CONVERSION LOGIC IN GP5B ROUTINE.

6155   *   USER FATAL MESSAGE 6155, SET1 ID = **** DOES NOT EXIST.**

USER ACTION: CHECK ALL SET1 DATA REFERENCED BY PANEL ENTRIES.

6156   *   USER FATAL MESSAGE 6156, THERE ARE NO FLUID ELEMENTS IN CONTACT WITH STRUCTURAL ELEMENTS.**

USER ACTION: CHECK INPUT DATA.

6157   *   SYSTEM FATAL MESSAGE 6157, THE THIRD OUTPUT DATA BLOCK OF GP5 CANNOT NOT BE PURGED WHEN MULTIPLE PANEL CAPA-
BILITY IS REQUESTED.**

6158   *   USER FATAL MESSAGE 6158, A SET1 BULK DATA ENTRY WAS NOT SUPPLIED.**

6159   *   SYSTEM FATAL MESSAGE 6159 (GP5D), INTERMEDIATE FACE**

SORTING PROCESS FAILED.

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6160   *   SYSTEM FATAL MESSAGE 6160 (GP5D), ELEMENT ID = **** HAS A FACE ON THE FLUID/STRUCTURE BOUNDARY WHICH IS NOT WELL DEFINED. THE GEOMETRY SUGGESTS THAT GRID9 LIES ON THE SAME PLANE AS THE FACE.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: CHECK THE PROCEDURE OBTAINING GRID9.

6161   *   USER FATAL MESSAGE 6161, PANEL DATA DOES NOT EXIST.**

USER ACTION: CHECK INPUT DATA.

6162   *   USER FATAL MESSAGE 6162, GRID ID = **** REFERENCED THROUGH (ALL) OPTION ON AN ACMODL ENTRY DOES NOT LIE ON THE FLUID/STRUCTURE BOUNDARY.**

6163   *   USER WARNING MESSAGE 6163, THERE ARE NO ELEMENT FACES CORRESPONDING TO THE PANEL NAME = ****.**

USER ACTION: CHECK GRID IDS DEFINED FOR THIS PANEL.

6164   *   USER FATAL MESSAGE 6164, THERE ARE NO FLUID ELEMENTS IN CONTACT WITH STRUCTURAL ELEMENTS. FOR PANEL ID = ****.**

USER ACTION: CHECK PANEL BULK DATA ENTRY.

6165   *   USER FATAL MESSAGE 6165 (MODEPT), THERE EXISTS A DIF-FERENT NUMBERS OF TERMS IN RESISTANCE REACTANCE AND WEIGHT-ING FUNCTION TABLES IDS= **** RESPECTIVELY.**

6166   *   USER WARNING MESSAGE 6166, TA1A FOUND DUPLICATE ACOUT CARDS, DEFAULT VALUES WILL BE TAKEN.**

6167   *   USER FATAL MESSAGE 6167, THE BULK DATA TABLED1 ENTRIES, ID = **** WERE NOT SUPPLIED.**

USER ACTION: CHECK BULK DATA ENTRIES.

6168   *   USER FATAL MESSAGE 6168 (MODEPT), THE BULK DATA TABLED1 ENTRIES, ID = **** HAS NO ACCEPTABLE VALUES BELOW CUT-OFF FREQUENCY.**

6169   *   USER FATAL MESSAGE 6169, FOUND TWO OR MORE STRUC-TURAL GRID POINTS WITH IDENTICAL COORDINATES WHICH LIE ON THE FLUID/STRUCTURE BOUNDARY.**

USER ACTION: CHECK GRIDS ANDOR SET1 CARDS WHICH BELONG TO PANEL OR ACMODL CARDS.

6171   *   USER FATAL MESSAGE 6171 (****), WRONG NUMBER OF WORDS OR ENTRY NOT FOUND FOR AEFACT ID **** ASSOCIATED WITH (***) ID ******

6172   *   USER FATAL MESSAGE 6172 (APD5), THE NUMBER OF CAOCI ENTRIES ON PAERO5 ENTRY **** MUST EQUAL TO THE NUMBER OF STRIPS SPECIFIED ON CAERO5 ENTRY ******

6173   *   USER FATAL MESSAGE 6173, PLATE ELEMENTS MAY NOT BE OFFSET UNLESS BOTH MID1 AND MID2 ARE SUPPIED. IF OFFSETS ARE DESIRED FOR PLATES, SPECIFY MID1 AND MID2.**
TINY MODULUS MAY BE SUPPORTED IF DESIRED.

Offsets were specified on the shell connection Bulk Data entry, CQUAD4, CTRIA3, CQUAD8, or

CTRIA6, in field ZOFFS. Since offsets produce coupling between membrane and bending stiffness, then the PSHELL entry must include a specification of membrane and bending stiffness in fields MID1 and MID2, respectively.

6174   *   USER FATAL MESSAGE 6174, BEAM ELEMENTS WITH OFFSETS ARE NOT SUPPORTED IN DIFFERENTIAL STIFFNESS OR NONLINEAR ANALYSIS. REMODEL WITHOUT USING BEAMS WITH OFFSET.**

Offsets were specified on the CBEAM Bulk Data entry in fields W1A through W3B and differential stiffness or nonlinear analysis cannot be supported.

6175   *   USER FATAL MESSAGE 6175 (ASG), A TRIM VARIABLE WITH TRIM ID **** LABEL **** IS CONSTRAINED MORE THAN ONCE.**

USER ACTION: CHECK TRIM AND AELINK BULK DATA ENTRIES.

6176   *   USER FATAL MESSAGE 6176, ZOFFS FOR QUADR ELEMENT ARE NOT SUPPORTED**

6177   *   USER FATAL MESSAGE 6177 (APD), THE (***) BULK DATA ENTRY, IN FIELD (***) ILLEGALLY REFERENCES A SPHERICAL OR CYLINDRICAL COORDINATE SYSTEM.**

6180   *   USER FATAL MESSAGE 6180 (APDCS), CAERO 1, 3, 4 OR 5 BULK DATA ENTRY **** HAS A ZERO PANEL SURFACE AREA.**

USER INFORMATION: X12 AND X43 ARE MEASURED ALONG THE X AXIS OF AERODYNAMIC COORDINATE SYSTEM.

USER ACTION: CHECK THE COORDINATE DATA IN THIS ENTRY TOGETHER WITH THE AERODYNAMIC COORDINATE SYSTEM.

6181   *   USER FATAL MESSAGE 6181 (SMPYAD), THE LAST INPUT MATRIX MUST BE UNTRANSPOSED.**

USER INFORMATION: THE TRANSPOSE FLAG PARAMETER CORRESPONDING TO THE LAST INPUT MATRIX IN THE SMPYAD MODULE SPECIFICATION IS NOT ZERO.

USER ACTION: ASSURE THAT THIS FLAG IS ZERO, WHICH IS THE DEFAULT.

6182   *   USER FATAL MESSAGE 6182 (ADG), BOX ID **** REFERENCED BY AELIST BULK DATA ENTRY **** DOES NOT EXIST.**

USER ACTION: CHECK THE BOX ID(S) GENERATED BY CAERO1 ENTRIES.

6183   *   USER FATAL MESSAGE 6183 (MBAMG), IMPROPER MACH BOX CONTROL POINTS, SINGULAR MATRIX RESULTED.**

6184   *   USER FATAL MESSAGE 6184 (MBAMG), GENERATION OF BOXES FAILED WITH MACH BOX.**

6185   *   USER FATAL MESSAGE 6185 (PSTAMG), MACH NUMBER **** WAS NOT FOUND IN THE PISTON THEORY ALPHA ARRAY.**

6186   *   USER INFORMATION MESSAGE 6186, *** SOLUTION HAS CONVERGED ***.**

6187   *   USER INFORMATION MESSAGE 6187, *** BISECTION METHOD IS NOW ACTIVATED ***.**

The adaptive bisection algorithm is activated when convergence is proceeding poorly.

6188   *   USER INFORMATION MESSAGE 6188, *** (***) ARC LENGTH IS ****.**

The initial arc-length is printed when the NLITER module is first executed and the arc-length method is used. A new arc-length is printed when the arc length changes due to bisection. It is

also printed after a converged solution, when the arc length may change due to restoration after bisection, or due to the DESITER field on the NLPCI entry.

6189 *** USER INFORMATION MESSAGE 6189, *** REPEAT ITERATION, STOPPING AT LOWEST ERROR.

This is issued when the time/load/arc-length increment has already reached its minimum limit and the solution has not converged, though the maximum number of iterations has been performed. If the best iteration is not the last iteration, a reiteration is done to obtain the best solution.

6190 *** USER INFORMATION MESSAGE 6190, *** MAXIMUM NUMBER OF CONTROLLED INCREMENTS (MXINC) HAS BEEN EXCEEDED ***.

In the arc-length control methods, the number of solution steps actually completed in a subcase is usually different from that specified by the user.
Therefore, its limit is controlled by MXINC.

No action is necessary if the solutions exceed the desired extent. Otherwise, increase the value of MXINC on the NLPCI entry.

6191 *** USER INFORMATION MESSAGE 6191, *** DIVERGING SOLUTION LIMIT ***.

The solution has diverged twice consecutively during the iteration.

Change the stiffness matrix update strategy (METHOD) or increase the divergence criterion value of MAXDIV on the NLPARM or TSTEPNL entry. Alternatively, increase NINC on the NLPARM entry or decrease DT on the TSTEPNL entry.

6192 *** USER INFORMATION MESSAGE 6192, *** NO ROOT CASE HAS BEEN ENCOUNTERED IN CRISFIELD'S METHOD ***.

The quadratic equation which contains the load factor increment as the unknown variable does not have any real roots. A special algorithm specifically developed for this case will be automatically activated.

6193 *** USER INFORMATION MESSAGE 6193 (****), *** MAXIMUM NUMBER OF BISECTIONS OR MINIMUM (***) HAS BEEN REACHED.

In nonlinear transient analysis, the minimum allowable time step has been reached. In nonlinear static analysis, with Newton's method, the minimum allowable load step has been reached or, with the arc-length method, the minimum allowable arc length has been reached.

Change the stiffness matrix update strategy (METHOD) or increase the value of MAXBIS on the NLPARM or TSTEPNL entry. Alternatively, increase NINC on the NLPARM entry or decrease DT on the TSTEPNL entry.

6194 *** USER INFORMATION MESSAGE 6194, *** STOPPED ITERATIONS DUE TO (***)
For insufficient time, increase the value on the TIME Executive Control statement. For maximum iterations, change the stiffness matrix update strategy (METHOD) or increase the value of MAXITER on the NLPARM or TSTEPNL entry.

6195 *** USER WARNING MESSAGE 6195, *** SOLUTION HAS REGRESSED TO AN EARLIER LOAD STEP. (BACK-UP COEFFICIENT = ****).

This message is issued for the Arc-Length method (See NLPARM entry) only. Change the itera-

tion strategy for the RIKS and MRIKS method. The program will automatically activate a different root selection procedure for the Crisfield method.

6196   *   USER WARNING MESSAGE 6196, *** REGRESSION HAS OCCURRED WITH BOTH ROOT-SELECTION ALGORITHMS IN CRISFIELD'S METHOD ***.**

The program has returned to a converged solution in a prior loop using both available algorithms. The bisection algorithm will automatically be activated if the absolute value of MAXBIS is greater than 0.

6197   *   USER INFORMATION MESSAGE 6197, *** SOLUTION AT THIS STEP IS DISCARDED. SOLUTION WILL BE ATTEMPTED WITH A DIFFERENT ROOT-SELECTION PROCEDURE.**

This message is issued for the Crisfield method (See NLPARM entry) only.

6198   *   USER FATAL MESSAGE 6198, (MPYAD), ALL MPYAD METHODS HAVE BEEN DESELECTED.**

USER INFORMATION: METHODS MAY BE DESELECTED INTERNALLY BY THE MODULE ANDOR BY THE USER VIA SYSTEM CELL 66.

USER ACTION: CHECK THE VALUE OF SYSTEM CELL 66 OR DO NOT SET THE CELL.

6199   *   USER FATAL MESSAGE 6199, INSUFFICIENT CORE AVAILABLE FOR MATRIX MULTIPLY**

This message comes from the sparse multiply method when the memory estimate based on the trailer information is exceeded during the actual execution of the operation.

6200   *   USER FATAL MESSAGE 6200, TEMPERATURE(INITIAL) COMMAND IS NOT SPECIFIED IN CASE CONTROL. BOTH TEMPERATURE(INITIAL) AND TEMPERATURE(LOAD) MUST BE SPECIFIED IN NONLINEAR STATIC SOLUTION FOR THERMAL LOADS.**

Insert a TEMPERATURE(INITIAL) command above the subcase level in the case control and the corresponding temperature values on TEMPij entries in the bulk data.
TEMPERATURE(MATERIAL) or TEMPERATURE(BOTH) will cause this error.

6201   *   USER FATAL MESSAGE 6201 (FBSQCK), SPARSE FBS CANNOT BE PERFORMED WHEN THE FACTOR IS REAL AND THE RIGHT HAND SIDE IS COMPLEX.**

USER ACTION: DO NOT SELECT THE SPARSE DECOMPOSITION AND FBS METHODS UNDER THESE CIRCUMSTANCES.

6202   *   USER FATAL MESSAGE 6202, THE SELECTED MULTIPOINT CONSTRAINT SET ANDOR RIGID ELEMENTS PRODUCE A SINGULAR RMM MATRIX. THIS MAY BE CAUSED BY A CIRCULAR DEPENDENCY IN WHICH A DEGREE OF FREEDOM IS INDIRECTLY DEPENDENT UPON ITSELF.**

6203   *   USER FATAL MESSAGE 6203 (CEAD), INCOMPATIBLE MATRICES ARE DETECTED IN COMPLEX EIGENVALUE ANALYSIS.**

USER INFORMATION: CHECK THE SIZES OF THE MATRIX INPUTS TO THIS MODULE.

6204   *   USER INFORMATION MESSAGE 6204, *** SECONDS REQUIRED TO DECOMPOSE MATRIX.**

A matrix decomposition has been performed within the NLTRD2 module. The time required for this decomposition is provided for the user's information.

6205   *   USER FATAL MESSAGE 6205, BEAM ELEMENT **** IS USING**

WARPING WITHOUT TORSIONAL STIFFNESS.

If warping degrees of freedom (SA,SB) are supplied on the CBEAM data card, then warping is used. Torsional stiffness (JA on PBEAM data card) must be greater than zero if warping is used.

Correct CBEAM or PBEAM data.

6206   *   USER WARNING MESSAGE 6206 (GP5), MORE THAN ONE ACMODL ENTRY HAS BEEN FOUND, ONLY THE FIRST ENTRY WILL BE USED.**

USER ACTION: CHECK INPUT DATA.

6207   *   USER WARNING MESSAGE 6207 (GP5), AN ACMODL ENTRY WAS NOT FOUND. A NONMATCHING MESH IS ASSUMED.**

USER ACTION: CHECK INPUT DATA.

6208   *   USER FATAL MESSAGE 6208 (GP5H), IN THE NONMATCHING ALGORITHM NO STRUCTURAL GRIDS HAVE BEEN FOUND ON THE FLUID SURFACE.**

USER ACTION: CHECK GRID POINT ENTRIES.

6209   *   USER WARNING MESSAGE 6209 (ACMG), THERE ARE NO ELEMENT FACES CORRESPONDING TO THE PANEL NAME = **** CHECK GRID IDS. DEFINED FOR THIS PANEL.**

6210   *   SYSTEM FATAL MESSAGE 6210 (ACMG), AN INTERNAL TABLE HAS BEEN INCORRECTLY CREATED.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: MODULE FAILED TO CONVERT INTERNAL GRID ID TO SIL NO. (TABLE1) ****.

6211   *   SYSTEM FATAL MESSAGE 6211 (ACMG), A NORMAL TABLE HAS BEEN INCORRECTLY CREATED.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6212   *   SYSTEM FATAL MESSAGE 6212 (PGTH), ERROR SEARCHING FOR GPFORCE CASECC SET.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6213   *   SYSTEM FATAL MESSAGE 6213 (PGTH), GPTABD ERROR,PGTH CANNOT MATCH DATA IN GPFDR FOR ELEMENT TYPE = ****.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6214   *   USER INFORMATION MESSAGE 6214, FEWER THAN REQUESTED VECTORS CALCULATED, DUE TO INSUFFICIENT TIME.**

This information message occurs in READ module, when there is insufficient time to compute eigenvectors.

Resubmit job with increased time limit.

6215   *   SYSTEM FATAL MESSAGE 6215 (PGTH), CANNOT FIND EXTERNAL GRID FOR INTERNAL GRID, POSIBLE EQEXIN PROBLEM.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6216 * SYSTEM FATAL MESSAGE 6216 (PGTH), EQEXIN RECORDS ARE WRONG.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

6218 * SYSTEM FATAL MESSAGE 6218 (GPFDR2), NO DATA ON SCRT6 OR 9 FILE, A DATA ERROR.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6219 * SYSTEM FATAL MESSAGE 6219 (GPFDR2), BISLOC FAIL, PERHAPS THE DATA IS NOT SORTED.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

TABLE ENTRY LENGTH ENLEN = **** # OF ENTRY ELEMENTS IN TABLE = **** ELEMENT ID , EXELID = **** CORE POINTER IPOINT = **** ELEMENT ENTRY OFFSET = **** ELEMENT ETRY POSITION = ****

6220 * SYSTEM FATAL MESSAGE 6220 (GPFDR2), ERROR SEARCHING INDEX IN SCRT9 FILE.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6221 * SYSTEM FATAL MESSAGE 6221 (GPFDR2), LOGIC ERROR READING SCRT9 FILE.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6222 * SYSTEM FATAL MESSAGE 6222 (GPFDR2), CANNOT READ A RECORD FROM SCRT6 FILE.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6223 * SYSTEM FATAL MESSAGE 6223 (GPFDR2), RECORD POINTED AT BY INDEX IN SCRATCH FILE IS WRONG.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6225 * SYSTEM FATAL MESAGE 6225 (GPFDR2), AN ATTEMPT TO OVERRUN DATA.**

USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

CASECC NUMBER = **** LOAD SET NO = **** ELEMENT TYPE = **** EXT ELEMENT ID = ****

6226 * USER WARNING MESSAGE 6226 (RECTNT), NATURAL COORDINATE CONVERGENCE FAILED AFTER FIVE ITERATIONS.**

USER INFORMATION: NATURAL COORDINATES (XI,ETA,ZETA) OF THE GRID POINT (X,Y,Z)= **** **** **** ARE SET TO (0,0,0).

6227 * USER FATAL MESSAGE 6227 (MBAMG), REQUESTED MACH NUMBER =**
**** IS LESS THAN THE MACH BOX REQUIREMENT OF MACH > 1.0

6228 * USER FATAL MESSAGE 6228 (DLAMBY), REQUESTED MACH NUMBER = **** IS GREATER THAN THE DOUBLET LATTICE REQUIREMENT OF MACH < 1.0**

6229 * USER FATAL MESSAGE 6229 (CY1CCT), THE LOADSET CASE**

**CONTROL COMMAND AND LSEQ BULK DATA ENTRY MAY NOT BE SPECI-
FIED IN STATIC ANALYSIS WITH CYCLIC SYMMETRY.**

USER ACTION: REPLACE LOADSET/LSEQ COMBINATIONS WITH THE EQUIVALENT
LOAD/LOADCYI COMBINATIONS.

6230   *   USER FATAL MESSAGE 6230 (CYCL1), SPC BULK DATA ENTRY
ID =**** FOR GRID **** AND COMPONENT **** SPECIFIES A NONZERO DIS-
PLACEMENT OF ****.**

USER INFORMATION: ENFORCED DISPLACEMENTS MAY NOT BE SPECIFIED ON THE
SPC BULK DATA ENTRY IN CYCLIC SYMMETRY ANALYSIS.

USER ACTION: SPECIFY THE ENFORCED DISPLACEMENTS ON THE SPCD BULK DATA
ENTRY.

6231   *   USER WARNING MESSAGE 6231 (CY1CCT), BOUNDARY CONDI-
TIONS IN SUBCASE **** ARE DIFFERENT THAN THOSE IN THE FIRST SUB-
CASE. SUBCASE 1 SPC= **** AND MPC= **** SUBCASE **** SPC= **** AND
MPC= ****.**

USER INFORMATION: ONLY ONE BOUNDARY CONDITION IS PERMITTED FOR ALL SUB-
CASES IN CYCLIC SYMMETRY ANALYSIS. THEREFORE, THE CONDITIONS IN THE FIRST
SUBCASE WILL BE USED FOR ALL SUBCASES.

6232   *   USER INFORMATION MESSAGE 6232 (MODEPT), THE PROPER-
TIES BELOW WILL BE USED FOR THE FOLLOWING ACOUSTIC ABSORBER
PROPERTY ENTRIES (PACAPS)**
PID DAMPING(B) STIFFNESS(K)   MASS(M)-- ***   ****
****   ****

6233   *   USER INFORMATION MESSAGE 6233 (MODEPT), THE PROPER-
TIES BELOW WILL BE USED FOR THE FOLLOWING ACOUSTIC BARRIER
PROPERTY ENTRIES (PACBAR)**
PID   RESONANT STIFFNESS(K)   RESONANT FREQUENCY(F) ------------------------------------
------------------ ***   ****   ****

6234   *   USER WARNING MESSAGE 6234, G13, G23 AND/OR G33 ARE
NONZERO ON MAT2 ENTRY ID= **** WHICH IS REFERENCED IN THE MID3
FIELD OF A PSHELL ENTRY. THEY WILL BE IGNORED, SHEAR STIFFNESS
IS SET TO ZERO.**

This can occur when the PSHELL entry references a MAT2 entry in the MID3

field and either G13, G23, or G33 is nonzero. See Error Report 3664.

6235   *   USER WARNING MESSAGE 6235 (IFP7), PBCOMP ENTRY=**** IS
MISSING THE SPECIFICATION OF LUMPED AREAS FOR THE BEAM CROSS
SECTION.**

One cause is that fewer than four stress output points are specified.

6236   *   USER FATAL MESSAGE 6236 (EBEMD), PBCOMP FOR ENTRY
=**** SPECIFIES SECTION=0 (WHICH IS THE DEFAULT) YET IT ALSO SPEC-
IFIES DATA FOR LUMPED AREAS.**

6237   *   USER WARNING MESSAGE 6237 (PLOT), *** CONTOUR PLOTS
ARE REQUESTED FOR COMPLEX RESULTS. THIS IS NOT SUPPORTED.**

6238   *   USER WARNING MESSAGE 6238 (IFSEQU), THE FIRST ****
EQUATION OF ID NUMBER = **** HAS BEEN DEFINED WITH NO PARAME-
TERS IN ITS ARGUMENT LIST.**

6239   *   USER FATAL MESSAGE 6239 (IFSEQU), THE FIRST **** EQUA-
TION OF ID NUMBER = **** HAS BEEN DEFINED WITH NO ARGUMENT LIST.**

6240   *   USER FATAL MESSAGE 6240 (IFSEQU), ARGUMENT NUMBER**

****** (*****) OF THE **** EQUATION WITH ID NUMBER = **** HAS BEEN PREVI-
OUSLY USED AS AN ARGUMENT IN THIS EQUATION**

6241   *   USER FATAL MESSAGE 6241 (IFSEQU), FUNCTION **** DEFINED
IN THE **** EQUATION WITH ID NUMBER = **** HAS BEEN PREVIOUSLY
USED AS AN ARGUMENT IN THIS EQUATION.**

 USER INFORMATION: THIS ERROR MAY BE CAUSED WHEN THE FUNCTION NAME
 BEGINS IN FIELD 2 INSTEAD OF FIELD 3

6242   *   USER FATAL MESSAGE 6242 (NLINIT), ENFORCED DISPLACE-
MENTS CAN NOT BE USED WITH ARC-LENGTH METHODS.**

 USER ACTION: REMOVE NLPCI BULK DATA ENTRY OR ENFORCED DISPLACEMENTS.

6243   *   USER WARNING MESSAGE 6243 (CEAD) ---- THE DEGREE OF
FREEDOM (D.O.F) REQUESTED FOR POINT NORMALIZATION HAS NOT
BEEN SPECIFIED ON THE EIGR OR EIGB ENTRY.**

 USER INFORMATION: THE D.O.F PRECEDING THE REQUESTED D.O.F. IN THE INTERNAL
 SEQUENCE LIST WILL BE USED

6244   *   USER WARNING MESSAGE 6244 (STDCON), THERE IS (STR-
FIELD/STRESS) DISCONTINUITY REQUEST IN SUBCASE =**** BUT NO
MATCHING SURFACE OR VOLUME ID ON GPSTRESS COMMAND.**

 USER ACTION: CHECK STRFIELD COMMAND.

6245   *   SYSTEM WARNING MESSAGE 6245 (STDCON), ANALYSIS TYPE
=**** IS NOT SUPPORTED IN ERROR ANALYSIS.**

 USER ACTION: USE STATIC ANALYSIS WITH STRESS REQUEST.

6246   ***   USER WARNING MESSAGE 6246 (STDCON),
 NO OUTPUT STRESS REQUEST FOR SUBCASE =**** SO NO STRESS DISCONTINUITY
 CALCULATED. or *** SET **** NOT FOUND IN CASECC SUBCASE **** USER ACTION:
 CHECK *** REQUEST.

6247   *   SYSTEM WARNING MESSAGE 6247 (STD2*), THERE IS AN
INCONSISTENT POINTER TABLE FOR SCR* FILE.**

 USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

 PROGRAMMER INFORMATION: CHECK POINTER TABLE **** FOR SCR* FILE

6248   *   SYSTEM WARNING MESSAGE 6248 (STD2*), EXTERNAL GRID
ID=**** COULD NOT BE FOUND IN THE EQEXIN FILE.**

 USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

 PROGRAMMER INFORMATION: CHECK EQEXIN DATA FILE.

6249   *   SYSTEM WARNING MESSAGE 6249 (STD2EX), ERROR ANALY-
SIS OUTPUT CAPABILITY IS NOT SUPPORTED FOR ELEMENT TYPE = ****.**

 USER ACTION: CONTACT UGS CUSTOMER SUPPORT. PROGRAMMER INFORMATION:
 THIS ROUTINE HAS FAILED TO RECOGNIZE ABOVE ELEMENT TYPE.

6250   *   SYSTEM WARNING MESSAGE 6250 (STD2HD/S), GRID POINT
STRESS DATA FOR THE SURFACE/VOLUME ID=**** COULD NOT BE
FOUND IN THE EGPST FILE.**

 USER ACTION: CHECK STRFIELD REQUEST FOR THIS ID.

6251   ***   SYSTEM WARNING MESSAGE 6251 (STD2EX), IMPROPER (ECT/

OES1) FILE FOUND.

  USER ACTION: CONTACT UGS CUSTOMER SUPPORT.

  PROGRAMMER INFORMATION: CHECK ECT FILE INPUT.

6252   *   USER WARNING MESSAGE 6252 (STD2HD/S), THERE IS NO STRESS OUTPUT FOR THE ELEMENT ID.=****.**

  USER ACTION: REQUEST ELEMENT STRESS OUTPUT.

6253   *   SYSTEM WARNING MESSAGE 6253 (STDCON), (ELEMENT/GRID STRESS DISCONTINUITY/STRFIELD) REQUEST IN SUBCASE =**** IGNORED SINCE (OEDS1/OGDS1/ELDCT/GPDCT) IS PURGED.**

  PROGRAMMER INFORMATION: CHECK **** FILE INPUT

6254   *   USER FATAL MESSAGE 6254 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE.**

  PROGRAMMER INFORMATION: NUMBER OF SPECIFIED BREAK POINTS FOR KERNEL
  **** EXCEEDS ****

6255   *   USER FATAL MESSAGE 6255 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: SEE ENTRY NUMBER ****

6256   *   USER FATAL MESSAGE 6256 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: SEE ENTRY FOR KERNEL ****

6257   *   USER FATAL MESSAGE 6257 (TIMTS6), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: KERNEL NAME **** NOT FOUND ON THE LIST

6258   *   USER FATAL MESSAGE 6258 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: KERNEL NAME **** HAS USER SPECIFIED BREAK
  POINTS THAT ARE LESS THAN OR EQUAL TO 1

6259   *   USER FATAL MESSAGE 6259 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: KERNEL **** HAS USER SPECIFIED BREAK POINTS
  THAT ARE NOT IN ASCENDING ORDER BY AT LEAST AN INCREMENT OF TWO

6260   *   SYSTEM FATAL MESSAGE 6260 (TIMT9F), LOGIC ERROR IN TIMETEST 9. PLEASE CONTACT UGS CUSTOMER SUPPORT**
6261   *   USER FATAL MESSAGE 6261 (TIMTS6), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: NOT ALL KERNELS TESTED IN TIMTS9, THEREFORE
  RESULTS ARE NOT WRITTEN TO THE OUTPUT DATA BLOCK

6262   *   SYSTEM FATAL MESSAGE 6262 (TIMTS6), ERROR WHILE READING FILE1=******
6263   *   USER FATAL MESSAGE 6263 (TIMTS9), ILLEGAL DTI ENTRY INPUT FOR TIMETEST MODULE**
  PROGRAMMER INFORMATION: BREAK POINTS ABOVE **** CANNOT BE CONSIDERED
  FOR KERNEL ****

6264   *   USER FATAL MESSAGE 6264 (TABFM4), ILLEGAL INPUT SPECIFIED ON DTI,ESTDATA BULK DATA ENTRY: **** **** TIMING ESTIMATES WILL BE WRONG.**

  USER ACTION: ASSURE PROPER TYPE IS SPECIFIED IN ALL FIELDS.

6265   *   USER FATAL MESSAGE 6265 (NL2QNV), SPARSE DECOMPOSI-**

TION CANNOT BE USED IN NONLINEAR ANALYSIS USER ACTION: DO NOT ASSIGN A VALUE TO THE SPARSE KEYWORD OR SYSTEM CELL 126.
6266   *   USER FATAL MESSAGE 6266 (DIAGON), UNABLE TO FIND DIAGONAL TERMS OF SPARSE FACTOR MATRICES USER ACTION: DO NOT ASSIGN A VALUE TO THE SPARSE KEYWORD OR SYSTEM CELL 126.**

This can occur if sparse decomposition is selected in SOLs 1-47 and the model contains large MAXRATIOs (e.g., mechanisms). Use SOLs 61-200 instead or do not select sparse decomposition (set SYSTEM(126) to default). See Error Report 3730.

See also Chapter 4 in the V67 Numerical Methods User's Guide.
6267   *   USER FATAL MESSAGE 6267, CONTROL POINT NO.**** ON PANEL NO.**** ALIGNS WITH THE EDGE OF BOX NO.**** ON PANEL NO.****.**

USER ACTION: CHECK CAERO1 AND AEFACT ENTRIES, REDEFINE SPANWISE STRIPS
6269   *   USER INFORMATION MESSAGE 6269 (MPYABT), THERE EXISTS INSUFFICIENT MEMORY FOR TRIPLE MULTIPLY. THEREFORE, TWO EQUIVALENT MPYAD OPERATIONS WILL BE PERFORMED.**

USER ACTION: IF TRIPLE MULTIPLY METHOD IS DESIRED, THEN INCREASE MEMORY SIZE BY=**** WORDS
6270   *   USER FATAL MESSAGE 6270 (RCARD), FIELD 2 OF THE FOLLOWING **** ENTRY CONTAINS EMBEDDED BLANKS.**

USER INFORMATION: 1.   ENTRY: ****   2. FIELD 2: ****
6271   *   USER FATAL MESSAGE 6271 (PRJVER), PARAMETER NO. **** OF "PROJVER" DMAP MODULE IS ILLEGAL.**
6272   *   USER FATAL MESSAGE 6272 (PRJVER), THE "RESTART" OPTION IS BEING REQUESTED IN THE "PROJVER" DMAP MODULE FOR A NON-RESTART RUN.**
6273   *   USER FATAL MESSAGE 6273 (PRJVER), THE "SET" OPTION IS BEING REQUESTED IN THE "PRJVER" SUBROUTINE FOR A DELETED OR NON-EXISTENT PROJECT/VERSION.**

USER INFORMATION: PROJECT ID=****, VERSION ID=****, STATUS="****"
6274   *   USER FATAL MESSAGE 6274 (PRJVER), PROJECT ID OF **** CANNOT BE FOUND IN THE "PROVER" TABLE.**
6275   *   SYSTEM FATAL MESSAGE 6275 (PRJVER), ERROR DETECTED IN THE "PROVER" TABLE.**
6276   *   SYSTEM FATAL MESSAGE 6276 (PRJVER), CURRENT PROJECT ID OF **** AND VERSION ID OF **** COULD NOT BE FOUND IN THE 2ND RECORD OF "PROVER" TABLE.**
6277   *   USER WARNING MESSAGE 6277 (KPANEL), THE EFFECTIVENESS FACTOR F,**** = **** FOR SHEAR ELEMENT ID. =**** GIVES THE EFFECTIVE AREA GREATER THAN THE ACTUAL AREA.**

USER ACTION: CHECK EFFECTIVENESS FACTOR F **** ON PSHEAR ENTRY.
6278   *   USER FATAL MESSAGE 6278 (MTMD23), THE BULK DATA ENTRY SELECTED BY THE CASE CONTROL COMMAND METHOD = **** WAS NOT FOUND**
6279   *   USER WARNING MESSAGE 6279 (IFS6P), BULK DATA ENTRY DOPTPRM INPUTS DELP = ****, VALUES GREATER THAN 1.0 MAY PRODUCE POOR OPTIMIZATION RESULTS**
6280   *   USER INFORMATION MESSAGE 6280 (NCONVG), AN EXCESSIVE NUMBER OF STIFFNESS MATRIX UPDATES HAS ACTIVATED DIVER-**

GENCE CONDITIONS.

6281 * USER FATAL MESSAGE 6281 (SEP2D), NO SUBCASES ARE SPECIFIED FOR THE RESIDUAL STRUCTURE. IN A STATIC ANALYSIS, AT LEAST ONE SUBCASE MUST BE SPECIFIED FOR THE RESIDUAL STRUC-TURE.**

6282 * USER FATAL MESSAGE 6282 (OUTPT4), THE FORMAT OF FOR-TRAN UNIT **** SPECIFIED IN THE OUTPUT4 MODULE IS INCONSISTENT WITH THE ASSOCIATED ASSIGN STATEMENT.**

USER INFORMATION: THE FORMAT KEYWORD ON THE ASSIGN STATEMENT MUST BE CONSISTENT WITH THE VALUE OF THE THIRD PARAMETER SPECIFIED ON THE OUTPUT4 MODULE.

6284 * USER FATAL MESSAGE 6284 (APD), GRID ID **** IS LISTED MORE THAN ONCE ON SET1 BULK DATA ENTRY ****. USER ACTION: REMOVE THE DUPLICATE GRID**

6285 * USER FATAL MESSAGE 6285 (VNASIN), CHBDY **** DOES NOT REFERENCE A PHBDY ENTRY.**

6286 * USER FATAL MESSAGE 6286 (ZREAD), THE CONTENTS OF DATA BLOCK **** RECORD **** ARE INCONSISTENT WITH THE DESCRIP-TION IN THE NDDL.**

6287 * SYSTEM WARNING MESSAGE 6287 (F04SUM), FORTRAN UNIT=**** CANNOT BE REWOUND BECAUSE IT IS LOCATED ON A NON-REWINDABLE DEVICE.**

USER INFORMATION: DIAG 49 PROCESSING IS TERMINATED.

USER ACTION: ASSIGN THE UNIT TO A REWINDABLE (TAPE/DISK) FILE AND RERUN JOB.

6288 * USER FATAL MESSAGE 6288**

MODULE AAAAAAAA HAS BEEN UNABLE TO CONVERGE WITH ITERATIVE METHOD.

6290 * USER WARNING MESSAGE 6290, TABFM6 SUPPORTS ONLY TYPES TABLE AND CASECC. ANOTHER TYPE WAS FOUND ON DATA BLOCK ****.**

6291 * USER WARNING MESSAGE 2331, (DDRMM) OUTPUT DATA BLOCK CORRESPONDING TO INPUT MODAL SOLUTION DATA BLOCK **** IS NOT PRESENT. INPUT DATA BLOCK THUSLY IGNORED.**

6292 * USER WARNING MESSAGE 2332, (DDRMM) INVALID INPUT DATA DETECTED IN DATA BLOCK, ****, PROCESSING STOPPED FOR THIS DATA BLOCK.**

6293 * USER WARNING MESSAGE 6293 (***) GRID NO. **** REFER-ENCED ON A DRESP1 ENTRY COULD NOT BE FOUND. ELEMENT USER ACTION: USE OF UNREFERENCED GRIDS IS NOT RECOMMENDED AND MAY INDICATE A USER INPUT ERROR, ELEMENTS RESULTS FOR OTHER RESPONSES ARE NOT AFFECTED.**

6294 * SYSTEM FATAL MESSAGE 6294 (ACMG), COUPLING CONTRIBU-TION FOR THIS FLUID ELEMENT ID =*** CAN NOT BE COMPUTED. USER ACTION: CHECK THE GEOMETRY OF THE STRUCTURAL ELEMENT IN THE VICINITY OF THIS ELEMENT.**

6295 * USER FATAL MESSAGE 6295 (GIGTKG), SPLINE3 ******** FOR CAEROI HAS ILLEGAL COMPONENT ******

6296 * SYSTEM FATAL MESSAGE 6296 (DSARLP) UNABLE TO LOCATE **** IN DATA BLOCK ******** (FILE ****).**

6298 * USER FATAL MESSAGE 6298 (PSTA) THE LEADING EDGE IS NOT SUPERSONIC: M=**** AND SECANT LAMBDA=****.**

USER INFORMATION: WHEN USING PISTON THEORY WITH A SWEEP CORRECTION (NTHRY=2), THE LEADING EDGE MUST BE SUPERSONIC;THAT IS, THE MACH NUMBER MUST BE GREATER THAN THE SECANT OF THE SWEEP ANGLE.

USER ACTION: INCREASE THE MACH NUMBER OR USE AN ALTERNATIVE AERODY-

NAMIC THEORY (MACH BOX OR ZONA).

6302   * SYSTEM FATAL MESSAGE 6302 (DSASRT) INSUFFICIENT SPACE TO PROCESS GPTABD INFORMATION.**

PROGRAMMER INFORMATION: THE DSASRT PLACES A LIMIT OF **** ON THE NUMBER OF ELEMENT TYPES. NASTRAN CURRENTLY SUPPORTS **** TYPES.

6317   * USER FATAL MESSAGE 6317 (DOM2ST) THERE IS NO TRIM CASE CONTROL COMMAND WITH TRIM SET ID **** WHICH IS REFER-ENCED ON A DRESP1 BULK DATA ENTRY.**

USER ACTION: EITHER INSERT A TRIM CASE CONTROL COMMAND OR REMOVE THE DRESP1

ENTRY.

6319   * USER FATAL MESSAGE 6319 (STPDA) MACH NUMBER **** WAS NOT SPECIFIED ON AN AEFACT BULK DATA ENTRY ******** USER INFOR-MATION: A MACH NUMBER LISTED ON A MKAEROi ENTRY CANNOT BE FOUND ON AN AEFACT ENTRY REFERENCED BY A PAERO4 (STRIP THE-ORY) BULK DATA ENTRY.**

6321   * USER FATAL MESSAGE 6321 (DOM1A) INDEPENDENT DESIGN VARIABLE ID ******** APPEARS MORE THAN ONCE ON THE**

DLINK ENTRY ASSSOCIATED WITH DEPENDENT DESIGN VARIABLE ID ******** USER ACTION: REMOVE THE DUPLICATE REFERENCE TO THE INDEPENDENT DESIGN VARI-ABLE.

6357   * SYSTEM FATAL MESSAGE 6357 (SEP1A) --- NO GRID POINTS DEFINED FOR SEP1**

6358   * USER FATAL MESSAGE 6358 (DSAD13) AN ELEMENT ID REFER-ENCED BY A DRESP1 BULK DATA ENTRY WITH A COMPOSITE RESPONSE TYPE CANNOT BE FOUND.**

USER ACTION: CHECK THE ELEMENT IDS REQUESTED ON THE DRESP1 ENTRY.

IF A CFAILURE RESPONSE TYPE IS REQUESTED, CHECK THAT THE CORRESPONDING PCOMP AND MATI BULK DATA ENTRIES HAVE BEEN CORRECTLY SPECIFIED.

6359   * USER FATAL MESSAGE 6359 (PREMAT) MAT2 OR MAT9 ENTRY ID =**** IS COMBINED WITH A CREEP ENTRY.**

USER INFORMATION : ONLY THE MAT1 ENTRY MAY BE COMBINED WITH A CREEP ENTRY.

6360   * USER FATAL MESSAGE 6360 (DSACO2) THE ELEMENT ID = *** REFERENCED BY A DRESP1 ENTRY DOES NOT EXIST.**

USER ACTION: CORRECT THE DRESP1 ENTRY OR DEFINE THE SPECIFIED ELEMENT.

6361   * USER INFORMATION MESSAGE 6361 ---LANCZOS MODULE DIAGNOSTICS AFTER FINITE INTERVAL ANALYSIS INERTIA AT LEFT END POINT = ***   INERTIA AT RIGHT END POINT = *****

NO. OF MODES IN INTERVAL = *** FACTORIZATION ERROR DURING FINITE INTERVAL ANALYSIS AT FLEFT. FLEFT = ****   FRIGHT. FRIGHT = ****

SHIFT WAS TOO FAR OUT. OLD SHIFT = ***   OLD INERTIA = ***   NEW SHIFT = ***

6410   * SYSTEM INFORMATION MESSAGE 6410 (IFP8). BEGIN PRO-CESSING OF MATHP ENTRY ID =**** VOLUMETRIC PARAMETER FITTING.**

DISTORTIONAL PARAMETER FITTING.

SQUARE ROOT OF SUM OF THE ERRORS SQUARED =**** UPDATED MATHP ENTRY This message is issued when the curve-fitting algorithm is activated to produce the material constants for hyperelastic materials based on experimental data. An image of the produced MATHP Bulk Data entry is printed after this message.

6411   * SYSTEM FATAL MESSAGE 6411 (LSQRD). SINGULAR VALUE DECOMPOSITION DID NOT CONVERGE.**

This message is issued by the Singular Value Decomposition (SVD) method which is used by the curve-fitting algorithm for the hyperelastic material constants. The message occurs when the

SVD fails to converge, which may be caused by an error in the experimental data. Check the input in the TABLES1 Bulk Data entries for errors.

6412   *** SYSTEM WARNING MESSAGE 6412 (LSQRD).

RANK DEFICIENCY HAS BEEN DETECTED. RANK =****. FULL RANK =**** This message is issued by the Singular Value Decomposition (SVD) method which is used by the curve-fitting algorithm for the hyperelastic material constants. The message occurs when the least squares problem for estimation of the material parameters is rank deficient, i.e., the rank is less than the number of material parameters (full rank). This message may be issued for either distortional (Aij) or volumetric (Di) parameter fitting.

The program will proceed to find a non unique solution. However, it is best to try to avoid rank deficiency by providing more experimental data for curve fitting or lowering the order of the strain energy polynomial, NA or ND in the MATHP Bulk Data entry.

6414   *** SYSTEM FATAL MESSAGE 6414 (DIAGON) THE FACTOR MATRIX (FIST=***) CANNOT BE USED WITH THE SPARSE METHOD.

USER INFORMATION: THE FACTOR MATRIX WAS PROBABLY OBTAINED VIA THE RESTART OR DBLOCATE FMS STATEMENT OF A DATABASE CREATED IN A PRIOR VERSION OF THE PROGRAM.

USER ACTION: RECOMPUTE THE FACTOR MATRIX IN THIS VERSION OF THE PROGRAM.

6417   *** USER WARNING MESSAGE 6417 (SQD41D/S), THE (CUBIC) OPTION FOR STRESSES IS NOT AVAILABLE FOR NONLINEAR ELEMENTS.

USER INFORMATION: STRESS(CENTER) WILL BE APPLIED TO THOSE ELEMENTS.

CUBIC refers to corner output for element STRESS, STRAIN, and FORCE.
Corner output is not available for nonlinear analysis, so only center stresses are computed for nonlinear QUAD4 elements.

6418   *** USER WARNING MESSAGE 6418 (SDR2A), THE CUBIC OPTION FOR (STRESSES/STRAINS) OVERRIDES ALL OTHER OPTIONS IN THE (STRAIN/FORCE) COMMANDS.

CUBIC refers to corner output for element STRESS, STRAIN, and FORCE.
When corner output is selected for QUAD4 elements, only one output type--CORNER or CENTER--is available in the entire run, regardless of output request (STRESS, STRAIN, and FORCE) and subcase. The hierarchy is as follows:

1. STRESS in the first subcase determines the request   type (CENTER or CORNER).
2. STRESS above the subcase level determines the type.
3. STRAIN in the first subcase determines the type.
4. STRAIN above the subcase level determines the type.
5. FORCE in the first subcase determines the type.
6. FORCE above the subcase level determines the type.

The second (and successive) subcases are not used to determine output type (CENTER or CORNER).

6421   *** USER FATAL MESSAGE 6421 (DOM11A) ON PROPERTY ENTRY *** WITH PID=*** IN FIELD FID=*** THE VALUE IS LESS THAN THE MINIMUM PMIN VALUE *** SPECIFIED ON THE DVPREL1/2 ENTRY.

USER ACTION: MODIFY THE PROPERTY ENTRY OR THE DVPREL1/2 ENTRY ACCORDINGLY.

Set PMIN to be less than or equal to the initial value of the design variable. Note that PMIN was not checked prior to Version 67.5.

6422 * USER WARNING MESSAGE 6422 (FA2) THE EIGENVECTOR COR-RESPONDING TO THE EIGENVALUE ****,**** IS NOT AVAILABLE.**

USER ACTION: REQUEST ADDITIONAL ROOTS ON THE NDJ FIELD OF THE EIGC BULK DATA ENTRY.

6423 * USER FATAL MESSAGE 6423 (DIAGON) THE "WHOLE" OPTION OF THE DIAGONAL MODULE CANNOT BE PERFORMED ON A SPARSE FACTOR MATRIX**

6424 * SYSTEM FATAL MESSAGE 6424 (DFNSB) THE NUMBER OF ROWS IN THE LOAD VECTOR AND THE FACTOR MATRIX ARE INCOMPATI-BLE LOAD VECTOR ROWS = ******** FACTOR MATRIX ROWS = **********

6428 * SYSTEM WARNING MESSAGE 6428 (ZREAD) LOGIC ERROR -- CALLING SUBROUTINE SPECIFIED NEGATIVE ARRAY LENGTH.**

PROGRAMMER ACTION : CHECK OPEN CORE METHOD.

6429 * USER WARNING MESSAGE 6429 (ZREAD) THE NDDL RECORD DESCRIPTION DOES NOT MATCH THE LENGTH OF THE DATA FOUND DUR-ING MULTIPLE READ.**

ERROR IN DATA BLOCK=***, RECORD=***, ITEMS ARE ASSUMED TO BE UNDEFINED.

USER INFORMATION : PROBABLE CAUSE IS WRONG NDDL DESCRIPTION CODED, OR WRONG GENERIC DATABLOCK USED (E.G. OES INSTEAD OF OEF).

USER ACTION   : IF YOU HAVE MODIFIED THE NDDL, CHECK YOUR CHANGES.

IF YOU ARE USING A GENERIC DATABLOCK NAME, CHECK THE NAME.

OR CONTACT UGS CUSTOMER SUPPORT.

6430 * USER WARNING MESSAGE 6430 (ZREAD) MULTIPLE READ PROBLEM IN DATA BLOCK=********, RECORD=******** : ARRAY OR UNDEF ITEM IS MORE THAN 100 WORDS.**

USER ACTION : SPLIT ARRAY OR UNDEF INTO GROUPS SMALLER THAN 100 WORDS.

6431 * USER WARNING MESSAGE 6431 (ZREAD) A COUNT ITEM AT OFFSET=***,IN DATA BLOCK=********, RECORD=********, WITH AN NDDL NAME=********,CONFLICTS WITH THE ACTUAL NAME=********.**

USER INFORMATION : PROBABLE CAUSE IS TOO LITTLE/MUCH DATA ON RECORD=********.

USER ACTION   : CONTACT UGS CUSTOMER SUPPORT.

6432 * SYSTEM WARNING MESSAGE 6432 (ZREAD) THE ITEM NAMES WITH (C) OPTION OF DATA BLOCK=***, RECORD=***, HAVE EXCEEDED THE MAXIMUM NUMBER OF *** PROGRAMMER INFORMATION: PROBABLE CAUSE IS MISMATCH OF NDDL AND ZREAD LIMIT.**

PROGRAMMER ACTION: : INTRODUCE A BLOCK DATA FOR BOTH ROUTINES.

6433 * SYSTEM WARNING MESSAGE 6433 (ZREAD) THE DECODED C-ITEM "TCODE" OF DATA BLOCK=********, RECORD=********, EXCEEDS NOR-MAL LIMITS "J"=*** "I"=***.**

PROGRAMMER INFORMATION: PROBABLE CAUSE IS WRONG POSITION OF TABLE CODE, OR   EARLIER RESET OF (C) ITEMS.

6434 * USER WARNING MESSAGE 6434 (ZREAD) THE LENGTH OF THE DATA IN DATA BLOCK=********, RECORD=********, IS LONGER THAN DESCRIBED IN THE NDDL.**

USER INFORMATION: THIS MAY CAUSE C-ITEMS TO BE RESET OR LOST.

IF YOU MODIFIED THE NDDL CHECK YOUR MODIFICATIONS, OR USER ACTION : CONTACT UGS CUSTOMER SUPPORT.

6435 * SYSTEM WARNING MESSAGE 6435 (ZREAD) DURING A SECOND READ OF DATA BLOCK=********, RECORD=********, AN ERROR OCCURRED.**

PROGRAMMER INFORMATION: PROBABLE CAUSE IS "EMARK" VARIABLE OVERWRIT-TEN, OR   A REQUEST TO READ THE 3 WORD HEADER OF IFP BLOCK OCCURRED.

6436 * USER WARNING MESSAGE 6436, (GP2) EDGE GRID POINTS ARE SPECIFIED FOR FINITE DEFORMATION ELEMENT ID = ****.**

USER INFORMATION : EDGE GRID POINTS WILL BE IGNORED.

This is issued if any midside nodes, G9 to G20, are specified on a HEXA which references a PLSOLID entry for the hyperelastic model.

6437 *** USER FATAL MESSAGE 6437, (MAT) MATHP ENTRY ID =   *** IS SPECIFIED FOR ELEMENT ID =   ***, WHICH IS NOT A FINITE DEFORMA-TION ELEMENT.

This message is issued when a hyperelastic material (MATHP) is referenced by an element which is not a finite deformation element. For instance, any element which does not have a PLSOLID or PLPLANE property entry reference.

6438 *** USER FATAL MESSAGE 6438, (MAT) MATHP ENTRY ID =   *** CAN NOT BE FOUND FOR FINITE DEFORMATION (HYPERELASTIC) ELEMENT ID =   ***.USER ACTION : SPECIFY MATHP ENTRY WITH ID =   ***.

This message is issued if a PLSOLID or PLPLANE property entry, for a hyperelastic element, does not reference a MATHP entry.

6439 *** USER INFORMATION MESSAGE 6439 (DFSMA) --- ACTUAL MEM-ORY AND DISK SPACE REQUIREMENTS FOR SPARSE SYM. DECOMPOSI-TION SPARSE DECOMP MEMORY REQUIRED = * K WORDS MAXIMUM FRON SIZE = * TERMS INTEGER WORDS IN FACTOR = * K WORDS   NON-ZERO TERMS IN FACTOR = * K TERMS TOTAL MEMORY REQUIRED FOR THE DECOMPOSITION STEP (DECOMP + EXECUTIVE TABLES) = * K WORDS

This message is issued in the .F04 file after decomposition. It tells how much memory and desk space were actually required.

6440 *** USER FATAL MESSAGE 6440, (GP2) HEXA ELEMENT ID =****** DOES NOT REFERENCE A PSOLID OR PLSOLID ENTRY.
USER ACTION: SPECIFY PSOLID OR PLSOLID ENTRY FOR THIS ELEMENT.
PROGRAMMER INFORMATION: IF PSOLID OR PLSOLID RECORD IS CORRECT, CHECK EPT AND/OR EPT INPUT TO THE GP2 MODULE.
    +++++++++++ or ++++++++++
QUAD4 ELEMENT ID =***** DOES NOT REFERENCE A PSHELL OR PLPLANE ENTRY.
USER ACTION: SPECIFY PSHELL OR PLPLANE ENTRY FOR THIS ELEMENT.
PROGRAMMER INFORMATION: IF PSHELL OR PLPLANE RECORD IS CORRECT, CHECK EPT AND/OR EPT INPUT TO THE GP2 MODULE.

These messages will be issued if the PID field of the HEXA or QUAD4 connectivity entries does not reference a PSOLID/PLSOLID or PSHELL/PLPLANE property entry with the same PID field. The PSOLID and PSHELL entries should be referenced for small strain elements, and the PLSOLID and PLPLANE entries should be referenced for the finite deformation (hyperelastic) elements.

6441 *** USER FATAL MESSAGE 6441 (DOM2H1) DEQATN ****, WHICH HAS **** ARGUMENTS, IS REFERENCED BY A DVPREL2 ENTRY WHICH INVOKES **** DESIGN VARIABLES AND **** DTABLE CONSTANTS.
USER ACTION: MODIFY THE INPUT SO THAT THE NUMBER OF DESIGN VARIABLES PLUS THE NUMBER OF DTABLE CONSTANTS IS EQUAL TO THE NUMBER OF DEQATN ARGU-MENTS.

6442 *** USER FATAL MESSAGE 6442 (DOM2H2) DEQATN ****, WHICH HAS **** ARGUMENTS, IS REFERENCED BY A DRESP2 ENTRY WHICH HAS **** ARGUMENTS.
USER ACTION: MODIFY THE INPUT SO THAT THE NUMBER OF ARGUMENTS ON THE

DEQATN BULK DATA ENTRY EQUALS THE SUM OF THE NUMBER OF DESIGN VARIABLES, DTABLE CONSTANTS, RESPONSES AND NODES ON THE CORRESPONDING DRESP2 BULK DATA ENTRY.

6443 *** USER WARNING MESSAGE 6443, NO CORNER STRESSES, FORCES, OR STRAINS WILL BE COMPUTED FOR QUAD4 ELEMENT ID = *** BECAUSE ONE OR MORE OF ITS CORNER THICKNESSES IS ZERO.

USER INFORMATION: ALSO, GRID POINT STRESSES WILL BE INCORRECT AT THOSE CORNERS.

When requesting corner output for QUAD4 elements, all membrane thicknesses at the four grid points must be greater than zero. If any thickness is zero, then stresses, forces, and strains are not computed for that element. Subsequent element computations--such as grid point stresses and stress discontinuities-- will not have results from the offending elements.

6444 *** USER WARNING MESSAGE 6444 (INPTYP) THE FILE ASSIGNED TO UNIT =*** CONTAINS DATA THAT IS INCONSISTENT WITH FORM = ****

USER INFORMATION:

1. THIS MAY BE CAUSED BY:

   A. THE FILE IS ACTUALLY A FORTRAN **** FILE.

   B. THE FILE MAY NOT BE A VALID **** FILE   C. THE FILE HAS BEEN MISPOSITIONED BY A PREVIOUS FORTRAN I/O STATEMENT 2. AN ASSIGN FILE MANAGEMENT STATE-MENT WAS **** TO ASSIGN THE FILE PROGRAMMER INFORMATION: THE FILE DOES NOT CONTAIN A ****

6445 *** USER WARNING MESSAGE 6445 (INPTYP) A FORTRAN **** READ ERROR HAS OCCURRED WHILE PROCESSING UNIT = *** USER INFORMA-TION: THE FILE **** SPECIFIED IN AN ASSIGN FILE MANAGEMENT STATE-MENT USER ACTION: VERIFY THE FILE ASSIGNMENT AND CONTENTS OR CONTACT UGS CUSTOMER SUPPORT.

PROGRAMMER INFORMATION: FORTRAN IOSTAT CODE = ***********

6446 *** SYSTEM WARNING MESSAGE 6446 (INPTYP) A FORTRAN **** READ ERROR HAS OCCURRED PROCESSING STRING VARIABLE **** USER INFORMATION: FORTRAN IOSTAT CODE = ***********   STRING IS = ****

6450 *** USER WARNING MESSAGE 6450 (OUTPUT4) THE SELECTION OF THE BCD FORMAT OPTION IN THE OUTPUT4 MODULE FOR DAT-ABLOCK *** MAY RESULT IN NUMERIC TRUNCATION.

USER INFORMATION: 1. THE FORTRAN FORMAT BEING USED IS (1P,6E12.5)   2. THE DEFAULT FORTRAN FORMAT IS (1P,5E16.9)   3. THE FIFTH PARAMETER OF THE OUTPUT4 MODULE   CAN BE USED TO INCREASE THE NUMBER OF SIGNIFICANT DIGITS.

USER ACTION: 1. IF THE NUMBER OF SIGNIFICANT DIGITS IS ACCEPTABLE, THEN NO ACTION IS REQUIRED.

        2. IF ADDITIONAL SIGNIFICANT DIGITS ARE REQUIRED, THEN   INCREASE THE VALUE OF THE FIFTH PARAMETER AND   RERUN THE JOB.

DATABLOCK *** WRITTEN ON FORTRAN UNIT *** FROM DMAP MODULE OUTPUT4 IN BCD FORMAT (1P,**E**.**)

This message is issued if the internal precision is greater than the requested output precision for OUTPUT4. If you want more precision, increase the value of the fifth parameter in the OUTPUT4 module and rerun the job.

6454 *** USER FATAL MESSAGE 6454 (IFP8).

NEGATIVE GROUND SHEAR MODULUS HAS BEEN OBTAINED.

USER ACTION: REVISE EXPERIMENTAL DATA AND/OR ORDER OF POLYNOMIAL.

This message is issued if A10+A01 obtained from the curve-fitting algorithm is negative. The

experimental data and/or the order of the strain energy polynomial should be modified.

6458   *   USER FATAL MESSAGE 6458, DSAD11. THE REQUESTED EIGENVALUE OR BUCKLING LOAD FACTOR IS GREATER THAN THE NUMBER OF MODES THAT WERE COMPUTED.**

USER ACTION: CHECK THE MODE ID SPECIFIED ON THE DRESP1 ENTRY AND THE FREQUENCY RANGE AND/OR THE NUMBER OF DESIRED EIGENVECTORS SPECIFIED ON THE EIGR/EIGB/EIGRL ENTRY.

This message is new for Version 67.5. This check was not made prior to Version 67.5.

Error Messages 7001-8000

7001   *   USER FATAL MESSAGE 7001, DOM1A. PRELOC UNABLE TO OPEN EDOM, NO DESIGN ENTRIES DEFINED**
7002   *   USER FATAL MESSAGE 7002, DOM1A. NO DESVAR ENTRY**
7003   *   SYSTEM FATAL MESSAGE 7003, DOM1A. OPEN CORE TOO SMALL FOR DESVAR RECORD OF EDOM**
7004   *   SYSTEM FATAL MESSAGE 7004, DOM1A. DESVAR RECORD LENGTH IS NOT A MULTIPLE OF 6**
7005   *   SYSTEM FATAL MESSAGE 7005, DOM1A. OPEN CORE TOO SMALL FOR DLINK RECORD OF EDOM**
7006   *   SYSTEM FATAL MESSAGE 7006, DOM1A. OPEN CORE NOT ENOUGH FOR DOM1A OPERATION 7007   ***   USER FATAL MESSAGE 7007, DOM1A. NO INDEPENDENT DESIGN VARIABLE DEFINED ON DLINK *****
7008   *   SYSTEM FATAL MESSAGE 7008, DOM1A. DEPENDENT DVID'S.GE.TOTAL DVID'S Check the input on the DLINK entry.**
7009   *   SYSTEM FATAL MESSAGE 7009, DOM1A. NDVD + NDVI .NE. NDV**
7010   *   SYSTEM FATAL MESSAGE 7010, DOM1A. DEPENDENT DVID *** NOT FOUND ON ANY DLINK**
7011   *   SYSTEM FATAL MESSAGE 7011, DOM1A. ON DLINK *** DVID *** NOT IN INDEPENDENT DV LIST**
7012   *   SYSTEM FATAL MESSAGE 7012, DOM1A. OPEN CORE TOO SMALL FOR DTABLE RECORD OF EDOM**
7013   *   SYSTEM FATAL MESSAGE 7013, DOM1A. INCORRECT DTABLE RECORD LENGTH**
7014   *   USER FATAL MESSAGE 7014, DOM1C. PRELOC UNABLE TO OPEN EDOM, NO DESIGN ENTRIES DEFINED**
7015   *   USER FATAL MESSAGE 7015, DOM1C. DVID **** ON DVPREL1 **** NOT DEFINED BY DESVAR**
7016   *   SYSTEM FATAL MESSAGE 7016, DOM1C. ERROR IN READING DVTM**
7017   *   SYSTEM FATAL MESSAGE 7017, DOM1C. OPEN CORE TOO SMALL FOR CONSB, TOO MANY DVPREL1'S**
7018   *   SYSTEM FATAL MESSAGE 7018, DOM1C. ERROR IN READING SCR1**
7019   *   USER FATAL MESSAGE 7019, DOM1D. PRELOC UNABLE TO OPEN EDOM, NO DESIGN ENTRIES DEFINED**
7020   *   USER FATAL MESSAGE 7020, DOM1D. DEQATN TABLE NOT FOUND, NO EQUATION DEFINED A DVPREL entry references a DEQATN entry, but no DEQATN entries are present.**
7021   *   SYSTEM FATAL MESSAGE 7021, DOM1D. OPEN CORE TOO SMALL FOR SCR2**
7022   *   SYSTEM FATAL MESSAGE 7022, DOM1D. OPEN CORE TOO SMALL FOR DOM1D OPERATION, STEP 3**
7023   *   SYSTEM FATAL MESSAGE 7023, DOM1D. OPEN CORE TOO SMALL FOR DOM1D OPERATION, STEP 4**

7024 *** SYSTEM FATAL MESSAGE 7024, DOM1D. ERROR IN READING DVTM

7025 *** SYSTEM FATAL MESSAGE 7025, DOM1D. ERROR IN READING DTB

7026 *** SYSTEM FATAL MESSAGE 7026, DOM1D. OPEN CORE TOO SMALL FOR SCR1

7027 *** USER FATAL MESSAGE 7027, DOM1D. DVID **** ON DVPREL2 ID =**** IS NOT DEFINED BY ANY DESVAR

7028 *** USER FATAL MESSAGE 7028, DOM1D. CONSTANT ID **** ON DVPREL2 ID = **** IS GREATER THAN THE TOTAL NO. OF CONSTANTS Check the DTABLE data on the DVPREL2 entry.

7029 *** SYSTEM FATAL MESSAGE 7029, DOM1D. FLAG *** ON DVPREL2 ID = *** IS ILLEGAL

7030 *** USER FATAL MESSAGE 7030, DOM1E. PRELOC UNABLE TO OPEN EDOM

7031 *** SYSTEM FATAL MESSAGE 7031, DOM1E. PRELOC UNABLE TO OPEN EPT

7032 *** USER FATAL MESSAGE 7032, DOM1E. NOT ENOUGH CORE FOR PID & N LIST, TOO MANY DVPREL3 CARDS

7033 *** SYSTEM FATAL MESSAGE 7033, DOM1E. NO. OF WORDS IN DVTM LESS THAN NDV

7034 *** USER FATAL MESSAGE 7034, DOM1E. DVPREL3 *** HAS INCOR-RECT LENGTH FOR ITS LIBRARY TYPE

7035 *** USER FATAL MESSAGE 7035, DOM1E. PROPERTY ID *** ON DVPREL3 *** IS NOT FOUND IN EPT

7036 *** USER FATAL MESSAGE 7036, DOM1E. THE STATION CODE

7037 *** USER FATAL MESSAGE 7037, DOM1E. ON DVPREL3 *** THE PROPERTY TYPE IS *** ONLY PBAR, PBEAM CAN BE USED FOR DVPREL3

7038 *** USER FATAL MESSAGE 7038, DOM1E. ON DVPREL3 *** DVID *** IS NOT DEFINED IN DESVAR

7039 *** SYSTEM FATAL MESSAGE 7039, DOM1F. DVP TABLE LENGTH INCORRECT

7040 *** SYSTEM FATAL MESSAGE 7040, DOM1F. OPEN CORE TOO SMALL FOR SCR1

7041 *** SYSTEM FATAL MESSAGE 7041, DOM1F. UNSORTED SCR1 LENGTH IS NOT A MULTIPLE OF 6

7042 *** SYSTEM FATAL MESSAGE 7042, DOM1F. SORTED SCR1 LENGTH IS NOT A MULTIPLE OF 6

7043 *** SYSTEM FATAL MESSAGE 7043, DOM1F. OPEN CORE TOO SMALL FOR DOM1F OPERATION, STEP4

7044 *** SYSTEM FATAL MESSAGE 7044, DOM1F. ERROR IN READING SCR2

7045 *** SYSTEM FATAL MESSAGE 7045, DOM1F. OPEN CORE TOO SMALL FOR DOM1F OPERATION, STEP5

7046 *** SYSTEM FATAL MESSAGE 7046, DOM1F. ERROR IN READING PMIN, PMIN LENGTH .LT. NP

7047 *** SYSTEM FATAL MESSAGE 7047, DOM1F. ERROR IN READING EPPNT, EPPNT LENGTH .LT. NP

7049 *** SYSTEM FATAL MESSAGE 7049, DOM1T. ERROR IN READING PMIN1, PMIN1 LENGTH .LT. NCARD1

7050 *** SYSTEM FATAL MESSAGE 7050, DOM1T. ERROR IN READING PMIN2, PMIN2 LENGTH .LT. NCARD2

7051 *** SYSTEM FATAL MESSAGE 7051, DOM1T. ERROR IN READING PMIN3, PMIN3 LENGTH .LT. NPROP3

7052 *** USER FATAL MESSAGE 7052, DOMPTC. ILLEGAL PROPERTY ENTRY NAME **** **** Check design model for the listed illegal property type.

7053 *** USER FATAL MESSAGE 7053, DOMFTC. FID = **** BUT A

DVPREL1,2
 REFERENCES A PBEAM OR PBEND, FID.LE.0 IS REQUIRED - CHECK ALL DVPREL1,2

7054 * USER FATAL MESSAGE 7054, DOMFTC. PTYPE **** **** IS NOT CURRENTLY SUPPORTED Check design model for the listed unsupported property type.**

7055 * USER FATAL MESSAGE 7055, DOMFTC.**
 FIELD ID **** WHICH IS EITHER AN ENTRY NAME OR A CONTINUATION SYMBOL, IS
 SPECIFIED ON DVPREL'S AS A PROPERTY

7056 * USER FATAL MESSAGE 7056, DOMFTC.**
 FIELD ID **** OF PCOMP IS ILLEGAL FOR DOM - CHECK DVPREL'S

7057 * USER FATAL MESSAGE 7057, DOMPTA. ILLEGAL PROPERTY ENTRY NAME **** ******
 Check design model for the illegal property type.

7061 * SYSTEM FATAL MESSAGE 7061, DOMC. EQIDNO IS LONGER THAN THE ENTIRE OPEN CORE**

7062 * SYSTEM FATAL MESSAGE 7062, DOMC. DEQIND IS TOO LONG FOR ITS SHARE OF OPEN CORE**

7063 * USER FATAL MESSAGE 7063, DOMC. EQID **** FROM EQIDNO IS NOT IN DEQIND - THERE IS NO DEQATN BULK DATA ENTRY FOR THIS EQID.**

7064 * SYSTEM FATAL MESSAGE 7064, DOMC. DEQATN RECORD WITH EQID *** IS TOO LONG FOR ITS SHARE OF CORE**

7065 * SYSTEM FATAL MESSAGE 7065, DOMC. IN PLIST2, THE *** RECORD USING EQID *** IS TOO LONG FOR ITS SHARE OF CORE**

7066 * SYSTEM FATAL MESSAGE 7066, DOMC. RECORD *** OF PLIST3 IS TOO LONG FOR ITS SHARE OF CORE.**

7071 * USER FATAL MESSAGE 7071 (DOM2D), PTYPE **** **** ON DRESPx ID=**** IS NOT DEFINED IN THE ANALYSIS MODEL.**

7072 * SYSTEM FATAL MESSAGE 7072 (DOM2D) RECORD *** IN PETIND TOO LONG FOR ALLOTTED CORE.**

7073 * SYSTEM FATAL MESSAGE 7073 (DOM2D) RECORD *** IN PETIND HAS INCORRECT LENGTH *****

7074 * SYSTEM FATAL MESSAGE 7074 (DOM2D) PTYPE *** PID *** IS NOT DEFINED IN THE ANALYSIS MODEL.**

7075 * SYSTEM FATAL MESSAGE 7075 (DOM2D) PET RECORD TOO LONG FOR ITS SHARE OF OPEN CORE.**

7081 * SYSTEM FATAL MESSAGE 7081 (DOM2D) FORMAT ERROR IN SCRATCH FILE SCR4. THE 4TH WORD OF THE CURRENT RECORD (WHICH IS ***) SHOULD MATCH THE RTYPE ***.**

7101 * SYSTEM FATAL MESSAGE 7101 (DOM2A) CASECC RECORD *** HAS NO CONTENTS**

7102 * USER FATAL MESSAGE 7102 (DOM2A) PRELOC UNABLE TO OPEN EDOM**

7103 * USER INFORMATION MESSAGE 7103 (DOM2A), NO DCONSTR RECORD LOCATED IN EDOM At least one DCONSTR entry must be present.**

7104 * USER FATAL MESSAGE 7104 (DOM2A), NO LOAD CASE ID SPECIFIED ON DCONSTR ***

7105 * USER FATAL MESSAGE 7105 (DOM2A), ON DCONSTR **** LID =**
 ALL, BUT MORE THAN ONE PAIR OF LALLOW, UALLOW ARE SPECIFIED Remove all but the
 first set of allowables from the listed DCONSTR entry.

7107 * SYSTEM FATAL MESSAGE 7107 (DOM2A) SCR6 LENGTH *** IS INCORRECT**

7108 * USER FATAL MESSAGE 7108 (DOM2A), ON DRESP1 ID = **** NO ATTi SHOULD BE SPECIFIED FOR ITS RTYPE WEIGHT, VOLUME, EIGN, and LAMA types do not support ATTI data.**

7109 * USER FATAL MESSAGE 7109 (DOM2A), ON DRESP1 ID = **** NO ATTI IS SPECIFIED The identified DRESP1 entry requires ATTi data to be**

input.

7110   *   SYSTEM FATAL MESSAGE 7110 (DOM2A) DCONSTR ID = *** IS TOO LONG TO FIT INTO ITS SHARE OF CORE**

7111   *   USER FATAL MESSAGE 7111 (DOM2A), TOO MANY DRESP1 ENTRIES FOR OPEN CORE**

7112   *   USER FATAL MESSAGE 7112 (DOM2A), SCR2 RECORD CORRE-SPONDING TO RID = **** IS TOO LONG TO FIT INTO ITS SHARE OF CORE USER ACTION: INCREASE HICORE**

7113   *   USER FATAL MESSAGE 7113 (DOM2A), SUBCASE ID = **** SPEC-IFIED ON DCONSTR ID = **** IS NOT DEFINED IN CASE CONTROL**

7114   *   SYSTEM FATAL MESSAGE 7114, DOM2B. LESS THAN 3 WORDS IN AN EPT RECORD**

7115   *   USER FATAL MESSAGE 7115, DOM2B. PTYPE **** IS NOT SUP-PORTED**

7116   *   SYSTEM FATAL MESSAGE 7116, DOM2B. LESS THAN 2 WORDS IN A PCOMP ENTRY, PID = ***

7117   *   SYSTEM FATAL MESSAGE 7117, DOM2B. LESS THEN 2 WORDS IN A PSHELL ENTRY, PID = ***

7118   *   SYSTEM FATAL MESSAGE 7118, DOM2B. NOT ENOUGH CORE FOR SCR3, TOO MANY PROPERTY ENTRIES**

7119   *   SYSTEM FATAL MESSAGE 7119, DOM2B. INCORRECT ENTRY LENGTH AT PTYPE = *** PID = ***

7122   *   SYSTEM FATAL MESSAGE 7122 (DOM2D) SCR4 TOO BIG FOR ITS SHARE OF OPEN CORE.**

7123   *   USER FATAL MESSAGE 7123 (DOM2D), BLANK ATTA ON DRESP1 ID=**** IS NOT ALLOWED.**

Specify the displacement components for the designated DISP response.

7124   *   USER FATAL MESSAGE 7124 (DOM2D) PTYPE *** ON DRESP1 ID=**
*** IS NOT DEFINED IN THE ANALYSIS MODEL.

7125   *   SYSTEM FATAL MESSAGE 7125 (DOM2D) RECORD *** IN PETIND TOO LONG FOR ITS SHARE OF OPEN CORE.**

7126   *   SYSTEM FATAL MESSAGE 7126 (DOM2D) RECORD *** IN PETIND HAS INCORRECT LENGTH ***

7127   *   SYSTEM FATAL MESSAGE 7127 (DOM2D) PTYPE *** PID *** IS NOT REFERENCED IN THE ANALYSIS MODEL.**

A property ID that has been referenced by a design variable is not referenced by a structural ele-ment.

7128   *   SYSTEM FATAL MESSAGE 7128 (DOM2D) PET RECORD TOO LONG FOR ITS SHARE OF OPEN CORE.**

7129   *   SYSTEM FATAL MESSAGE 7129 (DOM2D) ERROR IN FORMING RSP1CT: NK IS GREATER THAN THE TOTAL NUMBER OF DTOS1 RECORDS.**

7130   *   SYSTEM FATAL MESSAGE 7130, DOM2F. PRELOC UNABLE TO FIND EDOM**

7131   *   SYSTEM FATAL MESSAGE 7131, DOM2F. DRESP2 IS DEFINED, BUT DEQATN TABLE DOES NOT EXIST**

A DRESP2 entry is present, but there are no DEQATN data.

7132   *   SYSTEM FATAL MESSAGE 7132, DOM2F. LCPNT HAS INCOR-RECT LENGTH *** CORRECT LENGTH IS ***

7133   *   SYSTEM FATAL MESSAGE 7133, DOM2F. SCR7 HAS INCORRECT LENGTH ***

7134   *   SYSTEM FATAL MESSAGE 7134, DOM2F. SCR6 HAS INCORRECT LENGTH ***

7135   *   SYSTEM FATAL MESSAGE 7135, DOM2F. DTB HAS INCORRECT LENGTH *** CORRECT LENGTH IS ***
7136   ***   SYSTEM FATAL MESSAGE 7136, DOM2F. DVTM HAS INCORRECT LENGTH *** CORRECT LENGTH IS ***
7137   ***   USER FATAL MESSAGE 7137, DOM2F. ON DRESP2 ID =**** DVID =**** IS NOT DEFINED BY A DESVAR ENTRY**

  Check the DESVAR references on the designated DRESP2 entry.

7138   *   USER FATAL MESSAGE 7138, DOM2F. ON DRESP2 ID =**** CID =**** IS GREATER THAN THE TOTAL NO. OF CONSTANTS ON DTABLE ***

  Check the DTABLE data on the designated DRESP2 entry.

7139   *   USER FATAL MESSAGE 7139, DOM2F. ON DRESP2 ID =**** RESP1 ID =**** DOES NOT REFERENCE AN EXISTING DRESP1 CARD**

  Check the DRESP1 data on the designated DRESP2 entry.

7140   *   SYSTEM FATAL MESSAGE 7140, DOM2F. ON DRESP2 ID =**** FLAG **** IS ILLEGAL**

  Only DESVAR, DTABLE, and DRESP1 BCDs are permitted on a DRESP2 entry.

7141   *   SYSTEM FATAL MESSAGE 7141, DOM2F. SCR1 TOO BIG FOR ITS SHARE OF OPEN CORE
7142   ***   SYSTEM FATAL MESSAGE 7142, DOM2F. ON DCONSTR ID = *** LID = *** IS NOT FOUND IN CASE CONTRPL
7143   ***   SYSTEM FATAL MESSAGE 7143 (DOM2G) SCR3 HAS INCORRECT LENGTH ***
7144   ***   SYSTEM FATAL MESSAGE 7144 (DOM2G) ON RECORD *** OF SCR3, RTYPE *** IS GREATER THAN THE HIGHEST RTYPE NUMBER ALLOWED ***
7145   ***   SYSTEM FATAL MESSAGE 7145 (DOM2G) SCR2 TOO BIG FOR ITS SHARE OF OPEN CORE
7146   ***   SYSTEM FATAL MESSAGE 7146 (DOM2G) ON RECORD *** OF SCR3, RTYPE *** IS INCORRECT. IT SHOULD BE 0 SINCE NR=0
7147   ***   SYSTEM FATAL MESSAGE 7147 (DOM2G) ON RECORD *** OF SCR3, RTYPE IS ***.   BUT, THERE IS NO RDTS RECORD FOR THIS RTYPE
7148   ***   SYSTEM FATAL MESSAGE 7148 (DOM2G) RDTS TOO BIG FOR ITS SHARE OF OPEN CORE
7149   ***   SYSTEM FATAL MESSAGE 7149 (DOM2G) RDTS LENGTH *** IS NOT A MULTIPLE OF 5
7150   ***   SYSTEM FATAL MESSAGE 7150 (DOM2G) OPEN CORE TOO SMALL TO PROCESS RECORD *** OF SCR3
7151   ***   SYSTEM FATAL MESSAGE 7151 (DOM2G), ON DRESP2 ID = **** RESP1 ID **** IS NOT FOUND IN RDTS**

  Check DRESP1 data on the designated DRESP2 entry.

7152   *   USER FATAL MESSAGE 7152 (DOM2G), DRESP2 ID = **** POINTS TO DRESP1 ENTRIES HAVING ATTI FIELDS WHICH DIFFER.**

  USER ACTION: ENSURE THAT THE REFERENCED DRESP1 BULK DATA ENTRIES
  DEFINE THE SAME RESPONSE TYPES AND COMPONENTS.

7153   *   SYSTEM FATAL MESSAGE 7153 (DOM2G) SCR6 TOO BIG FOR THE SHARE OF OPEN CORE
7154   ***   SYSTEM FATAL MESSAGE 7154 (DOM2G) SCR6 LENGTH *** IS NOT A MULTIPLE OF 4
7155   ***   SYSTEM FATAL MESSAGE 7155 (DOM2G) NOT ENOUGH OPEN CORE FOR DOM2G, STEP 2**

7156   ***   SYSTEM FATAL MESSAGE 7156 (DOM2G) SCR4 TOO BIG FOR ITS SHARE OF OPEN CORE

7157   ***   SYSTEM FATAL MESSAGE 7157, DOM2H. LENGTH OF DEQIND *** IS INCORRECT. STEP 1.

7158   ***   SYSTEM FATAL MESSAGE 7158, DOM2H. RECORD OF DEQATN WITH EQID *** IS TOO LONG FOR CORE. STEP 1.

7159   ***   SYSTEM FATAL MESSAGE 7159, DOM2H. RECORD OF DEQATN WITH EQID *** HAS INTERNAL CONSTANT TYPE *** WHICH IS NOT 1,2,OR 3

7160   ***   SYSTEM FATAL MESSAGE 7160, DOM2H. LENGTH OF SCR2 *** IS INCORRECT

7161   ***   SYSTEM FATAL MESSAGE 7161, DOM2H. EQIDNO IS TOO LONG FOR ITS SHARE OF CORE

7162   ***   SYSTEM FATAL MESSAGE 7162, DOM2H. LENGTH OF EQIDNO *** IS INCORRECT

7163   ***   SYSTEM FATAL MESSAGE 7163, DOM2H. EQID *** IN EQIDNO IS NOT FOUND IN SCR2

 Check for the presence of the referenced DEQATN entry.

7164   ***   SYSTEM FATAL MESSAGE 7164, DOM2H. RECORD OF SCR1 WITH POS *** IS TOO LONG FOR CORE

7165   ***   SYSTEM FATAL MESSAGE 7165, DOM2H. IN PLST2I, THE *** RECORD USING EQID *** IS TOO LONG FOR ITS SHARE OF CORE

7166   ***   SYSTEM FATAL MESSAGE 7166, DOM2H. LENGTH OF DEQIND *** IS INCORRECT. STEP 3.

7167   ***   SYSTEM FATAL MESSAGE 7167, DOM2H. RECORD *** OF RSP12I IS TOO LONG FOR ITS SHARE OF CORE

7168   ***   SYSTEM FATAL MESSAGE 7168, DOM2H. EQID *** ON RECORD *** OF RSP12I IS NOT FOUND IN SCR2

7169   ***   SYSTEM FATAL MESSAGE 7169, DOM2H. SCR1 IS TOO LONG FOR ITS SHARE OF CORE. STEP 3.

7170   ***   SYSTEM FATAL MESSAGE 7170, DOM2H. EQID *** ON RECORD *** OF RSP12I IS NOT FOUND IN DEQIND

7171   ***   SYSTEM FATAL MESSAGE 7171, DOM2H. RECORD OF DEQATN WITH EQID *** IS TOO LONG FOR CORE. STEP 3.

7172   ***   USER FATAL MESSAGE 7172, DOM2I. PRELOC UNABLE TO OPEN EDOM - NO DESIGN ENTRIES DEFINED

7173   ***   SYSTEM FATAL MESSAGE 7173, DOM2I. DOPTPRM RECORD OF EDOM IS LESS THAN 17 WORDS LONG

7175   ***   SYSTEM FATAL MESSAGE 7175, DOM2I. DESOBJ RECORD LENGTH *** IS LESS THAN 5 WORDS

7176   ***   SYSTEM FATAL MESSAGE 7176, DOM2I. LCPNT LENGTH *** IS INCORRECT. NLC IS ***

7177   ***   SYSTEM FATAL MESSAGE 7177, DOM2I. A RDTS RECORD IS TOO LONG FOR THE WHOLE OPEN CORE

7178   ***   SYSTEM FATAL MESSAGE 7178, DOM2I. THE LENGTH OF A RDTS RECORD *** IS NOT A MULTIPLE OF 5

7179   ***   USER FATAL MESSAGE 7179, DOM2I. RID ON DESOBJ HAS *** RESPONSE ENTRIES IN DTOS1. DESOBJ SHOULD BE A SINGLE RESPONSE ENTRY.

 Ensure that the DESOBJ entry points to a single response quantity.

7180   ***   USER FATAL MESSAGE 7180, DOM2I. A LOAD CASE ID SHOULD BE SPECIFIED ON DESOBJ FOR THE TYPE OF RESPONSE DEFINED AS THE OBJECTIVE FUNCTION

7181   ***   USER FATAL MESSAGE 7181, DOM2I. A LOAD CASE ID SHOULD BE SPECIFIED ON DESOBJ SINCE A 2ND LEVEL RESPONSE IS DEFINED AS THE OBJECTIVE FUNCTION

7182   ***   USER FATAL MESSAGE 7182 (DOM2I) THE RID LISTED ON THE DESOBJ BULK DATA ENTRY CANNOT BE FOUND ON A DRESP1 OR

DRESP2 ENTRY

7183   *   USER FATAL MESSAGE 7183, DOM2I. RID ON DESOBJ BULK DATA ENTRY **** HAS NO CORRESPONDING DRESP1 OR DRESP2 CARD**

7184   *   SYSTEM FATAL MESSAGE 7184, DOM2I. OPEN CORE TOO** ᵏ SMALL FOR STEP 3

7185   *   SYSTEM FATAL MESSAGE 7185, DOM2I. SCR1 LENGTH *** IS INCORRECT**

7186   *   SYSTEM FATAL MESSAGE 7186, DOM2I. A RECORD OF RESP12 HAS *** WORDS THAT ARE LESS THAN 3**

7187   *   USER FATAL MESSAGE 7187, DOM2I. THE RESPONSE ID ON DESOBJ BULK DATA ENTRY REFERS TO MORE THAN ONE SECOND LEVEL RESPONSE. USER ACTION: ENSURE THAT THE DESOBJ ENTRY POINTS TO A SINGLE RESPONSE QUANTITY.**

7188   *   SYSTEM FATAL MESSAGE 7188, DOM2I. THE LOAD CASE ID ON DESOBJ ENTRY *** IS NOT FOUND IN RESP12**

7189   *   SYSTEM FATAL MESSAGE 7189, DOM2K. EPIND IS TOO LONG FOR THE WHOLE CORE 7191   ***   SYSTEM FATAL MESSAGE 7191, DOM2K. AN EPT RECORD HAS LESS THAN 3 WORDS**

7190   *   USER FATAL MESSAGE 7190, DOM2K. PTYPE **** **** DEFINED ON DVPREL IS NOT FOUND IN EPT - THIS TYPE OF PROPERTY ENTRY IS NOT DEFINED**

Check the DVPREL1 entries for the illegal property type.

7192   *   USER FATAL MESSAGE 7192, DOM2K. PTYPE **** **** DEFINED ON DVPREL IS NOT FOUND IN EPT - THIS TYPE OF PROPERTY ENTRY IS NOT DEFINED**

Check the DVPREL1 entries for the illegal property type.

7193   *   USER FATAL MESSAGE 7193, DOM2K. PID **** OF PTYPE **** **** ON A DVPREL IS NOT FOUND IN EPT - THIS PROPERTY ENTRY IS NOT DEFINED**

7194   *   SYSTEM FATAL MESSAGE 7194, DOM2K. LENGTH OF THE EPT ENTRY: PID *** PTYPE *** IS *** AND IS INCORRECT**

7195   *   SYSTEM FATAL MESSAGE 7195, DOM2K. LENGTH OF EPT ENTRY:** PID *** PTYPE *** IS *** AND IS INCORRECT

7196   *   USER FATAL MESSAGE 7196, DOM2K. ON A DVPREL, FID **** OF PTYPE **** **** PID **** IS DEFINED. THIS FID IS INCORRECT.**

7197   *   USER FATAL MESSAGE 7197, DOM2K. PTYPE **** **** PID **** FID **** IS DEFINED MORE THAN ONCE BY DVPREL'S**

7198   *   SYSTEM FATAL MESSAGE 7198, DOM2K. UNABLE TO POSITION EPT TO THE BEGINNING OF THE NEXT RECORD**

7199   *   SYSTEM FATAL MESSAGE 7199, DOM2K. PROPI LENGTH *** IS INCORRECT. NP IS *****

7200   *   SYSTEM FATAL MESSAGE 7200, DOM2K. EPPNT LENGTH *** IS INCORRECT. NP IS *****

7201   *   SYSTEM FATAL ERROR 7201 DOM5**

7215   *   SYSTEM FATAL ERROR 7215 DOM5. NOT ENOUGH ENTRIES IN RESP12**

7220   *   USER FATAL MESSAGE 7220 (DOM504S), GRID ID **** SPECI-FIED ON DRESP2 SHOULD BE DEFINED ON DVGRID**

7250   *   USER FATAL MESSAGE 7250 (DOM3B), ERROR IN READ DES-GID**

7251   *   SYSTEM FATAL MESSAGE 7251 (DOM3B) THE TRAILERS OF DTOS2J, DTOS3J AND DTOS4J ARE ZERO**

This can occur if there are no design variable to property relations (DVPREL1 and DVPREL2) in

a design optimization (SOL 200) run.

7252   *   SYSTEM FATAL MESSAGE 7252 (DOM3B) DTOS2J ID *** IS NOT FOUND IN DTOSPT.**

7253   *   SYSTEM FATAL MESSAGE 7253 (DOM3B) DTOS3J ID *** IS NOT FOUND IN DTOSPT.**

7254   *   SYSTEM FATAL MESSAGE 7254 (DOM3B) DTOS4J ID *** IS NOT FOUND IN DTOSPT.**

7260   *   USER FATAL MESSAGE 7260 (DOM*), DCLDXT HAS A NULL COLUMN (UNPACK)**

7501   *   SYSTEM FATAL ERROR 7501 DOM11A OPEN CORE TOO SMALL FOR *****

7502   *   SYSTEM FATAL ERROR 7502 DOM11A ERROR IN READING ***, *** LENGTH .LT. NP**

7503   *   SYSTEM FATAL ERROR 7503 DOM11A LESS THAN 3 WORDS IN AN EPT RECORD**

7503   ***   USER FATAL ERROR 7503 DOM11A IN EPT, PTYPE *** ID *** HAS INCORRECT LENGTH ***

7504   *   USER FATAL ERROR 7504, DOMEPL. PTYPE **** **** IS NOT SUP-PORTED BY DOM**

7505   *   SYSTEM FATAL ERROR 7505 DOM11B OPEN CORE TOO SMALL FOR THE LINEAR ENTRIES OF *** THE PROCESSING OF THE NONLINEAR ENTRIES IN *** ENTRIES OF DTOS4K**

7506   *   SYSTEM FATAL ERROR 7506 DOM11B DTOSPT LENGTH *** IS LESS THAN *** LENGTH OF LINEAR ENTRIES IN *** *** INCORRECT LENGTH OF *** NONLINEAR ENTRIES INCORRECT PROP LENGTH *** INCORRECT LENGTH OF DTOS4K WORDS IS *** INCORRECT**

7507   *   USER FATAL MESSAGE 7507, DOM11C. UNABLE TO OPEN NEDOM DATA BLOCK**

7508   *   USER FATAL MESSAGE 7508, DOM11C. FILE NEDOM IS PURGED**

7509   *   SYSTEM FATAL MESSAGE 7509, DOM11C. NO DESVAR ENTRY ON EDOM TABLE**

7510   *   SYSTEM FATAL ERROR 7510 DOM11C DVTM TABLE LENGTH *** INCORRECT LESS THAN 3 WORDS IN AN EDOM RECORD LENGTH OF DESVAR RECORD IN EDOM *** INCORRECT**

7511   *   SYSTEM FATAL ERROR 7511 DOM11C OPEN CORE TOO SMALL FOR OPERATION IN DOM11C, STEP2**

7512   *   SYSTEM FATAL ERROR 7512 DOM11D NOT ENOUGH CORE AVAILABLE**

7513   *   SYSTEM FATAL ERROR 7513 DOM11D ERROR IN READING *****

7551   *   PROGRAM FATAL ERROR - ERROR CODE 7551 IN MODULE DOM12**

SUBROUTINE DOM12 PROBABLE DMAP ERROR IN CALLING DOM12 MODULE. THE PARAMETER LOCATN MUST BE 1, 2 OR 3

7552   *   PROGRAM FATAL ERROR - ERROR CODE 7552 IN MODULE DOM12**

SUBROUTINE DOM12 CONVERGENCE ROUTINE FOR FSD NOT AVAIALABLE YET. FSD CAPABILITY NOT OPERATIONAL SINCE STRESS COMPONENT TABLE IS NOT AVAILABLE YET.

7571   *   SYSTEM FATAL ERROR - ERROR CODE 7571   IN MODULE DOM12**

SUBROUTINE DOM12B OPTPRM FIRST RECORD READ NOT SUCCESSFUL NUMBER OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7576   *   SYSTEM FATAL ERROR - ERROR CODE 7576   IN MODULE DOM12**

SUBROUTINE DOM12B RSP2LU FIRST RECORD READ NOT SUCCESSFUL NUMBER OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7577   *   SYSTEM FATAL ERROR - ERROR CODE 7577   IN MODULE DOM12**
  SUBROUTINE DOM12B RSP2LU SECOND RECORD READ NOT SUCCESSFUL NUMBER
  OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7578   *   SYSTEM FATAL ERROR - ERROR CODE 7578   IN MODULE DOM12**
  SUBROUTINE DOM12B RESP1 FIRST RECORD READ NOT SUCCESSFUL NUMBER OF
  WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7579   *   SYSTEM FATAL ERROR - ERROR CODE 7579   IN MODULE DOM12**
  SUBROUTINE DOM12B IRSP1B FIRST/SECOND RECORD READ NOT SUCCESSFUL NUM-
  BER OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7581   *   SYSTEM FATAL ERROR - ERROR CODE 7581   IN MODULE DOM12**
  SUBROUTINE DOM12B RSP2LU FIRST RECORD READ NOT SUCCESSFUL NUMBER OF
  WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7582   *   SYSTEM FATAL ERROR - ERROR CODE 7582   IN MODULE DOM12**
  SUBROUTINE DOM12B RSP2LU SECOND RECORD READ NOT SUCCESSFUL NUMBER
  OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7583   *   SYSTEM FATAL ERROR - ERROR CODE 7583   IN MODULE DOM12**
  SUBROUTINE DOM12B IRSP1R FORWARD RECORD OPERATION NOT SUCCESSFUL

7584   *   SYSTEM FATAL ERROR - ERROR CODE 7584   IN MODULE DOM12**
  SUBROUTINE DOM12B IRSP1R SECOND RECORD READ NOT SUCCESSFUL NUMBER OF
  WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7585   *   SYSTEM FATAL ERROR - ERROR CODE 7585   IN MODULE DOM12**
  SUBROUTINE DOM12B IRSP2R SECOND RECORD READ NOT SUCCESSFUL NUMBER OF
  WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7586   *   SYSTEM FATAL ERROR - ERROR CODE 7586   IN MODULE DOM12**
  SUBROUTINE DOM12B DESIGNATED RESPONSE FOR OBJECTIVE WAS NOT FOUND IN
  THE RETAINED SET OF RESPONSES.

  NOBJ1 = *** NOBJ2 = *** RETAINED TYPE 1 RESPONSE IDS:
  *** RETAINED TYPE 2 RESPONSE IDS: ***

7590   *   SYSTEM FATAL ERROR - ERROR CODE 7590   IN MODULE DOM12**
  SUBROUTINE DOM12B HISTRY FIRST RECORD READ NOT SUCCESSFUL NUMBER OF
  WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7593   *   SYSTEM FATAL ERROR - ERROR CODE 7593   IN MODULE DOM12**
  SUBROUTINE DOM12B ERROR RETURN FROM GREAD ON HISTRY FOR SOFT CONVER-
  GENCE DATA

7594   *   SYSTEM FATAL ERROR - ERROR CODE 7594 IN MODULE DOM12**
  SUBROUTINE DOM12B ERROR RETURN FROM GREAD ON IRSP1B

7596   *   SYSTEM FATAL ERROR - ERROR CODE 7596 IN MODULE DOM12**
  SUBROUTINE DOM12B MEMORY OVERFLOW - OPEN CORE NOT SUFFICIENT

7597   *   SYSTEM FATAL ERROR - ERROR CODE 7597 IN MODULE DOM12**

SUBROUTINE DOM12B MEMORY OVERFLOW - OPEN CORE NOT SUFFICIENT

7598   *   SYSTEM FATAL ERROR - ERROR CODE 7598   IN MODULE DOM12**

SUBROUTINE DOM12B RESP1L FIRST RECORD READ NOT SUCCESSFUL NUMBER OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7599   *   SYSTEM FATAL ERROR - ERROR CODE 7599   IN MODULE DOM12**

SUBROUTINE DOM12B RESP1U FIRST RECORD READ NOT SUCCESSFUL NUMBER OF WORDS TO BE READ   *** NUMBER OF WORDS ACTUALLY READ ***

7600   *   SYSTEM FATAL ERROR - ERROR CODE 7600   IN MODULE DOM12**

SUBROUTINE DOM12B ATTEMPT TO SKIP *** RECORDS FAILED

7601   *   SYSTEM FATAL ERROR - ERROR CODE 7601   IN MODULE DOM12**

SUBROUTINE DOM12B ATTEMPT TO READ 7 WORDS FROM THE 11-TH RECORD OF PRE-VIOUS DOM12B OUTPUT FAILED RECORD CONTAINS ONLY *** WORDS RECORD READ : ***

7601   ***   SYSTEM FATAL MESSAGE 7601, DOM2K. PVALB LENGTH *** IS INCORRECT. NP IS ***

7602   *   SYSTEM FATAL MESSAGE 7602, DOM2K. TRY TO JUMP *** WORDS IN DVPB TO REACH AN ENTRY BUT EOR IS REACHED AFTER *** WORDS**

7603   *   SYSTEM FATAL MESSAGE 7603, DOM2K. A DVPB ENTRY HAS *** WORDS WHICH IS LESS THAN 5 WORDS**

7604   *   USER FATAL MESSAGE 7604 DOM2K, PROGRAM TERMINATED DUE TO ABOVE INCONSISTENCY**

7605   *   USER WARNING MESSAGE 7605 DOM2K, THE ANALYSIS MODEL IS REPLACED BY THE DESIGN MODEL**

7606   *   USER FATAL MESSAGE 7606, DOM2L. PRELOC UNABLE TO OPEN EDOM - NO DESIGN ENTRIES DEFINED**

7616   *   SYSTEM FATAL ERROR - ERROR CODE 7616   IN MODULE DOM12**

SUBROUTINE DOM12A FAILURE TO READ HISTRY DATA BLOCK FOR THE INITIAL PROP-ERTIES, ATTEMPTING TO READ *** WORDS.

BUT *** WORDS ARE IN THIS RECORD

7617   *   PROGRAM FATAL ERROR - ERROR CODE 7617 IN MODULE DOM12**

SUBROUTINE DOM12 TOTAL NUMBER OF RECORDS IN HISTRY   =

*** CUMULATIVE NUMBER OF DESIGN CYCLES   = *** COMPUTED RESIDUAL (MUST BE ZERO)   = *** PROBABLE CAUSE OF THIS ERROR : RESTART OF THIS MODE NOT CUR-RENTLY SUPPORTED IN THIS VERSION

7623   *   USER FATAL MESSAGE 7623, DOMLOC. RECORD IN FILE **** HAS LESS THAN 2 WORDS.**

7624   *   USER FATAL MESSAGE 7624, DOM2F. OBJECTIVE FUNCTION SPECIFIED ON DESOBJ BULK DATA ENTRY DOES NOT BELONG TO THIS SOLUTION TYPE.**

7625   *   SYSTEM FATAL MESSAGE 7625, DOM2F. IN EDOM, LENGTH OF DESOBJ RECORD *** IS LESS THAN 5 WORDS**

7626   *   USER FATAL MESSAGE 7626, DOM2F. ON DESOBJ, LID **** IS NOT DEFINED IN CASE CONTROL**

7627   *   USER FATAL MESSAGE 7627, DOM2F. WHEN DESOBJ POINTS TO A DRESP2, LID ON DESOBJ MUST BE PROVIDED**

7628   *   SYSTEM FATAL MESSAGE 7628, DOM2I. USER INPUT PARAME-TER LIST LENGTH *** IN DOPTPRM RECORD OF EDOM DOES NOT MATCH**

NOVR,NOVI
7629 *** USER FATAL MESSAGE 7629, DOM2F. DRESP2 ENTRY ID **** IS SAME AS DRESP1 ID - NOT ALLOWED

Error Messages 9001-10000

DMAP WARNING MESSAGE 9001 (SEMRM) - GENERALIZED DYNAMIC AND/ OR COMPONENT   MODE REDUCTION HAS BEEN REQUESTED IN THE PRESENCE OF SUPPORTED (SEE   SUPTYP ENTRY) DEGREES OF FREE-DOM. IN SOME CASES SOME FLEXIBLE MODES MAY BE   DISCARDED OR THOSE IN HIGH FREQUENCY CLUSTERS MAY BE SKIPPED.

DMAP FATAL MESSAGE 9002 (IFPL) - ERROR ENCOUNTERED IN MODULE **** SEE   MESSAGES ABOVE IN THE **** ECHO.

An error has been encountered in the IFP module (data checking). In many cases this should be accompanied by UFM 313 or 316, identifying the illegal input.

One case not accompanied by UFM 313 or 316 is when there is illegal data on the PGAP entry and there are continuations. You can delete the continuations and rerun the job to identify the errors in the input. See Error Report 3783.

DMAP INFORMATION MESSAGE 9003 (NLTRAN) - CURRENT VALUE OF STIME IS RSTIME
DMAP INFORMATION MESSAGE 9004 (NLSTATIC) - FOR THIS ITERATION, THE   DIFFERENTIAL STIFFNESS WILL BE IGNORED TO AVOID DECOM-POSITION OF A   NON-POSITIVE DEFINITE STIFFNESS MATRIX.
DMAP INFORMATION MESSAGE 9005 (NLSTATIC) - THE SOLUTION FOR LOOPID= **** IS   SAVED FOR RESTART   ++++ or ++++
     THE SOLUTION FOR THE LAST CONVERGED LOOPID= **** IS SAVED FOR RESTART

DMAP FATAL MESSAGE 9006 (SELG) - GRID POINT **** ON PARAM,GRD-PNT IS NOT   KNOWN TO THE CURRENT SUPERELEMENT. THIS IS NOT ALLOWED IN INERTIA RELIEF.
DMAP FATAL MESSAGE 9007 (SELG) - IMAGE SUPERELEMENTS MAY NOT HAVE ANY   INTERIOR MASS OR STATIC LOADS IN INERTIA RELIEF ANALYSIS.
DMAP FATAL MESSAGE 9008 (PHASE1DR) - A SUPORT BULK DATA ENTRY IS PRESENT.
     THIS IS NOT ALLOWED IN NONLINEAR ANALYSIS.

SUPORTs cannot be used with material nonlinearity. An avoidance is to replace the SUPORT entries with SPCs.

DMAP INFORMATION MESSAGE 9009 (SOL0) - THE RECORD SIZE OF THE NEUTRAL   DATABASE IS =****
DMAP INFORMATION MESSAGE 9010 (SOL0) - FOR SEID=**** THE SUPER-ELEMENT NAME   IS ****.
DMAP FATAL MESSAGE 9011 (SOL17) - FIELD 5 OF TSTEP MUST HAVE VALUE OF ONE
DMAP INFORMATION MESSAGE 9012 (SUPER3) - THE DISPLACEMENTS IN DOWNSTREAM   SUPERELEMENT **** DO NOT EXIST.
DMAP WARNING MESSAGE 9013 (SEMRM) - NO SEQSETI BULK DATA ENTRIES HAVE BEEN   SPECIFIED FOR THIS SUPERELEMENT EVEN THOUGH A METHOD COMMAND APPEARS IN   ITS SUBCASE. THE METHOD COMMAND IS IGNORED AND ONLY A STATIC CONDENSATION OF THE MASS IS CONSIDERED.
DMAP FATAL MESSAGE 9014 (SOL51) - DUPLICATE ELEMENT IDS HAVE BEEN DETECTED.

THIS IS NOT ALLOWED IN DESIGN SENSITIVITY ANALYSIS.

USER ACTION: RENUMBER DUPLICATE ELEMENT IDS.

DMAP FATAL MESSAGE 9015 (****) - THE USET TABLE IS NOT PRESENT.

DMAP WARNING MESSAGE 9016 (DBFTCH) - ** **** **** NOT FOUND IN DATABASE.**

PURGED STATUS ASSUMED.

DMAP INFORMATION MESSAGE 9017 (DBFTCH) - ** **** **** (TRAILER = ****)   HAS BEEN FETCHED FROM THE DATABASE**

DMAP INFORMATION MESSAGE 9018 (DBMGR) - THE FOLLOWING DATA BLOCKS HAVE BEEN   DELETED FROM THE DATA BASE

DMAP WARNING MESSAGE 9019 (DBMGR) - DBMGR ** IS NOT SUP-PORTED. OPERATION   IS IGNORED.**

DMAP INFORMATION MESSAGE 9020 (DBTRANS) - PROCESSING PROJECT ** VERSION   ******

DMAP INFORMATION MESSAGE 9021 (DBSTOR) - DATA BLOCK ** **** **** (TRAILER   = ****) HAS BEEN STORED IN DBSET ******

DMAP FATAL MESSAGE 9022 (DESOPT) - SUBCASES FOR STATICS AND/ OR NORMAL MODES   ARE NOT DEFINED.

DMAP FATAL MESSAGE 9023 (DESOPT) - DRESP1 BULK DATA ENTRIES HAVE BEEN   SPECIFIED WITHOUT A CORRESPONDING SUBCASE WITH PARAM,APPC FOR THE   FOLLOWING SOLUTION TYPES: **   USER ACTION: EITHER REMOVE THE DRESP1   ENTRIES OR SPECIFY A COR-RESPONDING SUBCASE(S) WITH PARAM,APPC.**

DMAP INFORMATION MESSAGE 9024 (DESOPT) - STIFFNESS, MASS, DAMPING, AND LOAD   GENERATION INITIATED. DESIGN ITERATION NUMBER=** ^^^**

DMAP WARNING MESSAGE 9025 (DBTRANS) - DATA BLOCKS ESTNL OR ESTNLH HAVE BEEN   FOUND. THIS PROJECT AND VERSION WILL BE SKIPPED.

DMAP WARNING MESSAGE 9026 (DBTRANS) - NO CASE CONTROL WAS FOUND AND THE   QUALIFIERS CANNOT BE SET PROPERLY. THIS PROJECT AND VERSION WILL BE   SKIPPED.

DMAP WARNING MESSAGE 9027 (DBTRANS) THE BULK DATA WAS NOT FOUND. THIS   PROJECT AND VERSION WILL BE SKIPPED.

DMAP INFORMATION MESSAGE 9029 (DESOPT) - DESIGN SENSITIVITY COEFFICIENT   MATRIX FOR DIRECT AND SYNTHETIC RESPONSES - GRADIENTS OF RESPONSES WITH   RESPECT TO INDEPENDENT DESIGN VARIABLES

DMAP WARNING MESSAGE 9031 (ERRPH1) - NOGO ENCOUNTERED IN SUBDMAP ****

DMAP FATAL MESSAGE 9032 (ERRPH1) - RUN IS TERMINATED DUE TO MESSAGE(S)   ABOVE. TO CONTINUE PROCESSING ALL SUPERELE-MENTS, INSERT PARAM,ERROR,0   INTO BULK DATA.

DMAP FATAL MESSAGE 9033 (ERRPH1) - PHASE 1 IS TERMINATED DUE TO MESSAGE(S)   ABOVE FOR THIS SUPERELEMENT ONLY. PROCESSING WILL CONTINUE FOR THE   REMAINING REQUESTED SUPERELEMENTS AND THEN TERMINATE IN PHASE 2.

DMAP FATAL MESSAGE 9035 (LAGRANGE) - NO GRID OR SCALAR POINTS EXIST IN THE   MODEL.

DMAP FATAL MESSAGE 9036 (LAGRANGE) - ERROR ENCOUNTERED IN GRID POINT   SINGULARITY. SEE MESSAGE ABOVE.

DMAP FATAL MESSAGE 9037 (LAGRANGE) - INERTIA RELIEF IS NOT SUP-PORTED IN   THIS SOLUTION SEQUENCE. REMOVE ALL SUPORT BULK DATA ENTRIES.

DMAP INFORMATION MESSAGE 9038 (LAGRANGE) -   LOAD SEQ. NO. EPSILON   EXTERNAL WORK

****   ****   ****   **** ERROR IN SOLUTION RELATIVE TO MAXIMUM

LOAD AND LARGER THAN   PARAM ERRCUT ****

DMAP FATAL MESSAGE 9039 (DCEIGRS) - NO COMPLEX EIGENVALUES FOUND IN   RESIDUAL STRUCTURE.

DMAP INFORMATION MESSAGE 9040 (NLSTATIC) - CRITICAL BUCKLING FACTOR   (ALPHA)=****

DMAP FATAL MESSAGE 9041 (PHASE0) - THE RESPONSE TYPE SPECI-FIED ON DRESP1   BULK DATA ENTRIES IS INCONSISTENT WITH THIS SOLUTION SEQUENCE.

DMAP WARNING MESSAGE 9042 (PHASE0) - PARAMETERS RESDUAL AND SDATA ARE   IGNORED IN SOLUTION SEQUENCES WITH AUTOMATIC RESTART.

DMAP WARNING MESSAGE 9043 (PHASE0) - AS REQUESTED BY PARAM, SERST,**** THIS   RUN DID NOT COMPLETE PHASE 0 AND SHOULD BE VERIFIED FOR CORRECT RESULTS.

DMAP INFORMATION MESSAGE 9044 (PHASE0) - BULK DATA AND CASE CONTROL   PARTITIONING, RESTART CHECKING, AND UNDEFORMED PLOTTING INITIATED FOR   SUPERELEMENT ****

DMAP INFORMATION MESSAGE 9045 (PHASE1DR) - PHASE 1 - SUPERELEMENT   GENERATION, ASSEMBLY AND REDUC-TION.

DMAP INFORMATION MESSAGE 9046 (POSTREIG) - THE FRACTION OF TOTAL STRAIN   ENERGY IN EACH OF THE RESIDUAL STRUCTURE MODES IN TIP SUPERELEMENT ****

DMAP INFORMATION MESSAGE 9047 (POSTREIG) - THE FRACTION OF TOTAL STRAIN   ENERGY IN EACH OF THE RESIDUAL STRUCTURE MODES IN NON-TIP SUPERELEMENT   ****

DMAP INFORMATION MESSAGE 9049 (SEKDR) - SUPERELEMENT DIFFER-ENTIAL STIFFNESS   GENERATION, ASSEMBLY, AND REDUCTION.

DMAP FATAL MESSAGE 9050 (SEKR) - RUN TERMINATED DUE TO EXCES-SIVE PIVOT   RATIOS IN MATRIX KOO. USER PARAMETER BAILOUT MAY BE USED TO CONTINUE THE   RUN.

There are numerical conditioning problems that are keeping the run from going to completion. Setting PARAM,BAILOUT will enable the run to continue, though the answers could be in error.

Previous DECOMP results can be lost when doing this, however. See Error Report 3742.

This message can also occur when the symmetric option is used for the CRAC3D element with anisotropic material properties (MAT9), and the boundary condition is defined at the symmetric plane. See Error Report 3769.

This can also occur if a SUPORT entry is used and the degrees of freedom specified do not remove all six rigid body degrees of freedom.

See Chapter 4 in the V67 Numerical Methods User's Guide.

DMAP INFORMATION MESSAGE 9051 (DESOPT) - **** ANALYSIS INITIATED. DESIGN   ITERATION NUMBER=**** ^^^ DMAP INFORMATION MESSAGE 9052 (****) - **** ANALYSIS COMPLETED.

DMAP INFORMATION MESSAGE 9053 (SEMFREQ) - **** MODAL PARTICIPATION IS REQUESTED FOR **** FREQUENCIES.

DMAP INFORMATION MESSAGE 9054 (SEMFREQ) - ***** MODAL PARTICI-PATION FACTORS   FOR FREQUENCY=**** SHOWN BELOW IN MATRIX ****

DMAP INFORMATION MESSAGE 9055 (SEMG) - THE FL./STR. INTERFACE CHECK IS   FORCES AND MOMENTS RESULTING FROM A UNIT

INCREASE IN PRESSURE, OR CHANGES   IN THE FLUID PRESSURE RESULTING FROM RIGID BODY MOTIONS OF THE STRUCTURE.
THESE VALUES ARE DIRECTLY PROPORTIONAL TO THE OPEN SURFACE OF THE FLUID.

DMAP INFORMATION MESSAGE 9057 (SUPER1) - LINEAR STATIC ANALY-SIS WILL BE   PERFORMED WITH TEMPERATURES COMPUTED ABOVE.

DMAP FATAL MESSAGE 9058 (SUPER3) - THE SOLUTION FOR THE RESID-UAL STRUCTURE   DOES NOT EXIST.

DMAP INFORMATION MESSAGE 9059 (TIMSTOR) - LOADING MACHINE ** CONFIG ****   OPERASYS **** OPERALEV **** SUBMODEL ******

DMAP INFORMATION MESSAGE 9060 (DBMGR) -   DATABLOCK ** **** **** ******

DMAP FATAL MESSAGE 9061 (IFPL) - THE VERSION REQUESTED ON THE RESTART FMS   STATEMENT IS NOT VALID FOR RESTART PURPOSES. SUBSEQUENT RESTARTS SHOULD   REFERENCE A PRIOR VALID VER-SION.

DMAP WARNING MESSAGE 9062 (SELR) - LOAD REDUCTION IS INCOM-PLETE WHEN   FIXEDB=-2. ALL OUTPUTS FROM SSG2 ARE DELETED.

DMAP INFORMATION MESSAGE 9063 (PHASE0) - FLUID/STRUCTURE COU-PLING IS   IGNORED IN THIS SOLUTION SEQUENCE.

OTHER ERROR MESSAGES

---- DISASTER ERROR   OPTIMIZATION TERMINATED DIMENSION SIZE OF WK OR IWK IS TOO SMALL

This is issued if there is insufficient opencore (memory) available. Instead of stopping, however, the run may continue with additional iterations. It is recommended that the memory be increased and that a single iteration be tried to see that there is enough memory. Or, use the DSCREEN entry to reduce the number of retained constraints (by regionalization or truncation).

UNNUMBERED NX Nastran SYSTEM AND USER MESSAGES The unnumbered NX Nastran system and user messages are organized under the following headings:

***   USER FATAL ERROR---CSUPER ******** REFERENCES PRIMARY SUPERELEMENT ******** WHICH IS UNDEFINED.
An attempt has been made to define a mirror image or identical superelement in terms of a primary superelement which does not exist.

***   USER FATAL ERROR---CSUPER ******** REFERENCES UNDEFINED GRID POINT ****** A secondary superelement is connected to an undefined grid point.

***   USER FATAL ERROR---SEQSEP CARD REFERENCES SECONDARY SUPERELEMENT ****** WHICH WAS NOT DEFINED ON A CSUPER CARD.
An attempt has been made to resequence the boundary grid points for a secondary superelement which does not exist.

***   USER FATAL ERROR---NUMBER OF GRID POINTS ON CSUPER OR ************** DOES NOT MATCH NUMBER ON REFERENCED CSUPER CARD.
The number of grid points on an SEQSEP card must be exactly the same as the number on the associated CSUPER card, and of the primary superelement.

***   USER FATAL ERROR---SEQS*P ****** REFERENCES PRIMARY SUPERELEMENT ****** WHICH IS DEFINED AS A SECONDARY.
A primary superelement cannot be defined on a CSUPER card.

***   USER FATAL ERROR---SEQSEP ****** REFERENCES PRIMARY SUPERELEMENT ******** WHICH IS UNDEFINED.
An attempt has been made to resequence the boundary grid points for a secondary superelement when the primary superelement does not exist.

***   USER FATAL ERROR---SEQSEP ******** REFERENCES GRID POINT WHICH IS NOT IN SUPERELEMENT

An attempt has been made to resequence a grid point which is not part of the superelement being currently processed.

***   USER FATAL ERROR---SEQSEP ******** REFERENCED UNDEFINED GRID POINT******

An attempt has been made to resequence an undefined grid point.

***   USER WARNING MESSAGE---SUPERELEMENT ******** SPECIFIED ON SEFINAL CARD DOES NOT EXIST AND IS IGNORED

The program will select the processing order for the superelements.

***   USER FATAL ERROR---SUPERELEMENT CONNECTIVITY DOES NOT OBEY SPECIFIED RULES. ORIGINAL SUPERELEMENT CONNECTION TABLE FOLLOWS SUPERELEMENT NBR CONNECTS IDS OF CONNECTED SUPERELEMENTS CURRENT STATUS OF THE PARENT TABLE AND THE PROCESSING ORDER TABLE FOLLOW SUPERELEMENT PARENT PRO-CESSING ORDER

Each superelement may have any number of upstream connections, but only one downstream connection (not counting the residual structure).

***   USER FATAL ERROR---SECONDARY SUPERELEMENT ******** CANNOT BE PROCESSED AFTER PRIMARY SUPERELEMENT ******

A primary superelement must be processed before any associated secondary superelements. A change in the SEFINAL card (if present) may remove the error condition.

***   USER FATAL ERROR---DUPLICATE ELEMENT IDS ************* AND ******
All element identification numbers must be unique.

***   USER FATAL MESSAGE---NO GRID POINTS DEFINED FOR SEP1
The superelement model does not contain any grid points.
This may occur when using only scalar points. An avoidance is to add at least one grid point.

***   USER FATAL MESSAGE---NO ELEMENTS DEFINED FOR SEP1
The superelement model does not contain any elements.

***   SEP1A LOGIC ERROR*****

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   USER FATAL ERROR *********** CONNECTS MORE THAN TWO SUPER-ELEMENTS**********

An element can, at most, be connected to two superelements and the residual structure. The identification numbers of three connected superelements are given.

***   USER FATAL ERROR---******* REFERENCES UNDEFINED GRID POINT******

The connection card for an element contains a reference to an undefined grid point.

***   SPE1 AI LOGIC ERROR*****
This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   USER WARNING MESSAGE---NUMBER OF RESIDUAL STRUCTURE GRID POINTS .LT. 3 SECONDARY SUPERELEMENT ********.   CONGRU-

ENCE TEST WITH PRIMARY SUPERELEMENT ****** CANNOT BE PER-FORMED.**

A secondary superelement must have at least three boundary points in order to make congruence tests.

*** USER FATAL ERROR---GRID POINTS FOR PRIMARY SUPERELEMENT ***** WHICH IS REFERENCED BY SECONDARY ******** ARE COLINEAR.**

At least three points which are not colinear are required to make congruence tests for secondary superelements.

*** USER FATAL ERROR---GRID POINTS FOR SECONDARY SUPERELE-MENT ***** ARE COLINEAR**

At least three points which are not colinear are required to make congruence tests for secondary superelements.

*** SEP1 B LOGIC ERROR ***---CONTENTS OF KEYWORDS ARRAY FOL-LOWS

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

*** USER FATAL ERROR---CSUPER **** REFERENCES GRID POINTS IN SUPERELEMENTS**** AND ****

A connection card for a secondary superelement references grid points in two different superelements.

*** USER FATAL ERROR---CSUPEXT CARD REFERENCES UNDEFINED SUPERELEMENT

An attempt has been made to define an exterior grid point for an undefined superelement.

*** SEPIA LOGIC ERROR, GRID ID = **** FOR PRESSURE ELEMENT IS MISSING IN EQEXIN TABLE.

*** USER INFORMATION MESSAGE---PROCESSING OF RESIDUAL STRUC-TURE IS NOW INITIATED

Beginning of matrix generation for the residual structure

*** USER INFORMATION MESSAGE---PROCESSING OF SUPERELE-MENT******** IS NOW INITIATED.

Beginning of matrix generation for the superelement specified

*** USER FATAL ERROR---LOAD CARD ***** SET ID******** REFERENCES UNDEFINED GRID POINT**

An applied load references an undefined grid point in the superelement being processed.

*** USER FATAL ERROR---CASE CONTROL RECORDS FOR SUPERELE-MENT ****** CONTAIN A MIXTURE OF ZERO AND NONZERO LOAD SEQUENCE NUMBERS I

n static analysis, load sequence numbers must be specified for all subcases unless the default sequence of 1,2, 3, etc., is desired.

*** USER FATAL ERROR---CASE CONTROL RECORD FOR SUPERELE-MENT ****** HAS LOAD SEQ. NUMBER=**** WHICH IS OUT OF ORDER.

In static analysis, the load sequence numbers must be monotonically increasing integers for each superelement.

*** USER FATAL ERROR---CASE CONTROL RECORD FOR SUPERELE-MENT ****** HAS LOAD SEQ. NUMBER=**** WHICH IS GREATER THAN NBR OF LOADS.

A load sequence number for a superelement cannot be greater than the number of loading conditions defined for the residual structure.

*** USER FATAL ERROR---RIGID ELEMENT ******** REFERENCES UNDE-FINED GRID POINT****** *** USER FATAL ERROR---RIGID ELEMENT****** SUPERELEMENT ******DEFINES DEPENDENT EXTERIOR POINTS.

Exterior grid points must be independent points in MPC relationships.

*** USER FATAL ERROR---MPC CARD, SET ID=**** REFERENCES UNDE-FINED GRID POINT ****** *** USER FATAL ERROR---MPC CARD, SET ID=**** REFERENCES DEPENDENT GRID POINT ******WHICH IS EXTERIOR TO SEID ****.

Exterior grid points must be independent points in MPC relationships.

*** USER FATAL ERROR---MPC CARD, SET ID=**** DOES NOT OBEY SUPERELEMENT CONNECTIVITY RULES NBR OF GRID POINTS ON MPC CARD=**** NBR OF GRID POINTS INTERIOR TO SEID ****#**** NBR OF GRID POINTS EXTERIOR TO SEID ****=****

At least one grid point referenced on the MPC card is not part of the superelement being processed.

*** USER WARNING MESSAGE---COORDINATE SYSTEM ****** REFER-ENCES GRID POINT ****** WHICH IS UNDEFINED. CARD NOT WRITTEN ON GEOMf S.

At least one grid point on the coordinate system definition card is not part of the superelement being processed.

SEP2A LOGIC ERROR This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

*** USER WARNING MESSAGE ******** REQUEST REFERENCES UNDE-FINED SUPERELEMENT *****

A plot request has been made for an undefined superelement.

USER WARNING MESSAGE---CASECC REFERENCES UNDEFINED SUPER-ELEMENT ****. RECORD IS IGNORED.

A subcase contains a SUPER card for an undefined superelement.

SEP4 LOGIC ERROR This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

*** USER WARNING MESSAGE---CASE CONTROL RECORDS FOR SUPER-ELEMENT ******** CONTAIN A MIXTURE OF ZERO AND NONZERO LOAD SEQUENCE NUMBERS

In static analysis, load sequence numbers must be specified for all subcases unless the default sequence of 1, 2, 3, etc., is desired.

*** USER WARNING MESSAGE---CASE CONTROL RECORD FOR SUPER-

ELEMENT ****** HAS LOAD SEQ. NUMBER=**** WHICH IS OUT OF ORDER. OAD SEQUENCE NUMBER **** iS SUBSTITUTED.**

In static analysis, the load sequence numbers must be monotonically increasing integers for each superelement.

***   USER WARNING MESSAGE---CASE CONTROL RECORD FOR SUPER-ELEMENT ******** HAS LOAD SEQ.   NUMBER=**** WHICH IS GREATER THAN NBR OF LOADS. LOAD SEQUENCE NUMBER **** IS SUBSTITUTED.

A load sequence number for a superelement cannot be greater than the number of loading conditions defined for the residual structure.

***   USER INFORMATION MESSAGE---DATA RECOVERY FOR SUPERELE-MENT ******** IS NOW INITIATED

Beginning of data recovery for specified superelement.

***   SEDR FATAL ERROR---DATA BLOCK ****.****. NOT FOUND IN DATA BASE.

One of the solution vectors needed for data recovery operations does not exist in the data base.

***   SEDR LOGIC ERROR ****

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   SEMA WARNING MESSAGE---DATA BLOCK **** **** **** NOT FOUND IN DATA BASE SUBSET ****. SUPERELEMENT******** WILL NOT BE ASSEM-BLED.

One of the structural matrices needed for assembly was not found on the data base.

***   SEMA FATAL ERROR---DIMENSIONS OF SUPERELEMENT DATA BLOCK *** *** *** DO NOT MATCH DEFINITION IN SLIST DATA BLOCK.

Matrix assembly operations cannot proceed because the dimensions for one of the superelements is not consistent with the superelement map.

***   SEMA FATAL MESSAGE---FILE **** IS PURGED NO FAIR.

One of the structural matrices needed for assembly is purged on the data base.

***   SEMA LOGIC ERROR ****.

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   SELA LOGIC ERROR ****.

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   PLTVEC WARNING MESSAGE---DATA BLOCK ****.****.**** NOT FOUND IN DATA BASE. CONTRIBUTIONS TO PLOT VECTOR FOR SUPERELEMENT ******** NOT INCLUDED.

One of the solution vectors needed for plotting could not be found on the data base.

***   PLTVEC FATAL MESSAGE---FILE **** IS PURGED.

One of the solution vectors needed for plotting is purged on the data base.

*** PLTVEC FATAL ERROR---*** *** *** NOT IN DATA BASE. PLOTS CAN-NOT BE MADE.
  One of the solution vectors required for plotting cannot be found on the data base.

*** PLTVEC LOGIC ERROR This is a fatal error in the program.
  The complete run should be sent tot he programming staff for analysis and program correction.

*** SYSTEM FATAL MESSAGE ****. EMGOUT HAS DETERMINED THAT THERE ARE ******** CONNECTING GRID POINTS FOR ELEMENT ID#****.
  THIS IS GREATER THAN THE MAXIMUM AS PER /GPTAI / TABLE FOR THE TYPE OF THIS
  ELEMENT. PROBABLE ERROR IN ELEMENT ROUTINE PROGRAM.
  Logic error.

*** SYSTEM INFORMATION MESSAGE---(EMGPOM-7) MATRIX DAA FOR DATA BLOCK *** IS BEING COMPUTED FOR ELEMENT WITH ID=****.
  HOWEVER WILL NOT BE OUTPUT AS THIS DATA BLOCK IS PURGED OR NOT
  REQUESTED.

*** SYSTEM FATAL MESSAGE---(EMGPOM-1) INCORRECT CALL MADE TO-EMGPOM- FOR ELEMENT ID=**** FILE TYPE=*******ERROR PATH LOC CODE=****
  Logic error, incorrect EMG element routine code.

*** SYSTEM FATAL MESSAGE---(EMGPOM-4) CONGRUENCY IS IMPLIED FOR ELEMENT-ID=****** HOWEVER, THIS IS THE FIRST ELEMENT OF ITS TYPE FOR FILE-TYPE=****.
  Logic error, incorrect EMG element routine code.

*** SYSTEM FATAL MESSAGE---(EMGPOM-3) THE DEGREES OF FREEDOM OR THE OUTPUT FORMAT HAS CHANGED BETWEEN ELEMENT IDS OF THE SAME TYPE FOR FILE TYPE=**** ELEMENT ID*********
  Logic error, incorrect EMG element routine code.

*** SYSTEM INFORMATION MESSAGE---(FTUBED-2) ELEMENT WITH ID=******** HAS A ZERO LENGTH

*** SYSTEM FATAL MESSAGE---(FTUBED-1) LOGIC ERROR FOR ELEMENT WITH ID=******** LOC CODE=********
  Logic error

*** SYSTEM FATAL MESSAGE---(GCPID-1) OUTPUT FORM=******* FOUND JIN DICTIONARY HEADER IS CURRENTLY NOT ACCEPTABLE FOR ELE-MENT ID=******
  Logic error

*** SYSTEM FATAL MESSAGE---(GCPID-2) LOGIC ERROR T LOC=******** FOR ELEMENT ID=******
  Logic error

*** SYSTEM FATAL MESSAGE---(GCPS-1) FOR ELEMENT-ID=********SIL=******** CANNOT BE FOUND IN LIST OF SILS OF DICTIONARY ENTRY.
  Logic error

*** SYSTEM FATAL MESSAGE---(GETVEC-1) LOGIC ERROR. GETVEC CALLED AND POINTER TO DISPLACEMENT VECTOR IS EITHER NOT SET OR IS INCORRECT.
  Logic error

*** USER WARNING MESSAGE *** (GPFDR-1) IN SUBCASE ******** ELEMENTS HAVE NEGATIVE STRAIN ENERGIES (POSSIBLY ROUNDOFF).
  THE TOTAL NEGATIVE STRAIN ENERGY OF THESE ELEMENTS IS=********. THIS NEGA-
  TIVE ENERGY HAS NOT BEEN INCLUDED IN ANY OF THE OUTPUT QUANTITIES.

*** USER INFORMATION MESSAGE **** (GPFDR-2) IN *************** THERE ARE *** ***** ELEMENTS HAVING A POSITIVIE STRAIN ENERGY WHICH IS LESS THAN ***.**** PERCENT OF THE TOTAL POSITIVE STRAIN ENERGY OF ALL ELEMENTS

*** SYSTM FTAL MESSAGE---(HBDYD-1) LOGIC ERROR LOC=**** ELEMENT ID=******** SILS*******

*** SYSTEM FATAL MESSAGE ****(HEXD-1 0) INSUFFICIENT CORE TO PROCESS ELEMENT WITH ID=*****
  Open core is used to hold data. User should increase region by 2000 words.

*** USER FATAL MESSAGE ****(HEXD-3) ELEMENT ID=******** CONNECTS TWO POINTS HAVING THE SAME COORDINATES
  Two grid point connections are either the same or have the same basic coordinates.

*** USER INFORMATION MESSAGE ****(HEXD-1) RATIO OF LONGEST EDG* TO SHORTEST EDGE EXCEEDS 10 FOR ELEMENT NUMBER ********

*** USER INFORMATION MESSAGE ****(HEXD-2) ELEMENT ID=******** HAS A SIDE WHICH IS CONSIDERABLY OUT OF PLANE.
  The user should review the geometry of the element.

*** USER INFORMATION MESSAGE ****(HEXD-4) CONNECTION ORDER GRID NUMBER ** DOES NOT LIE APPROXIMATELY BETWEEN CONNECTION ORDER GRID NUMBERS ** AND ** FOR ELEMENT ID=******

*** USER FATAL MESSAGE ****(HEXD-6) AN ILLEGAL VALUE OF -NU- HAS BEEN SPECIFIED UNDER MATERIAL ID=******** FOR ELEMENT ID=****** *** USER FATAL MESSAGE ****(H*XS-7) ELEMENT ID=******** HAS A SINGULAR JACOBIAN MATRIX.
  The user should review the geometry of the element.

*** USER WARNING MESSAGE ****(HEXS-9) HEAT TRANSFER NOT CURRENTLY OPERATIONAL IN 8 TO 20 NODE BRICK.
  Heat capacity and heat conduction matrices are not available for HEX8 of HEX20 elements.

*** SYSTEM FATAL MESSAGE QMISCD-1 ELEMENT TYPE=******** OF ELEMENT WITH ID=******** IS ILLEGAL TO THIS ROUTINE. A LOGIC ERROR HAS OCCURRED.

*** SYSTEM FATAL MESSAGE QMISCD-2 SOME FORM OF LOGIC ERROR ENCOUNTERED. ELEMENT ID=* REASON=*****.

*** USER WARNING MESSAGE----. (SSGSLT-2) ELEMENT ****** WITH

ID#********, REFERENCED BY A QVOL CARD IN LOAD SET ********.
IS NOT BEING USED FOR INTERNAL HEAT GENERATION IN THIS LOAD SET AS THIS ELE-
MENT TYPE IS CURRENTLY NOT SUPPORTED IN THIS AREA.

You have tried to load one element which is not supported in Heat Transfer. See Section 1.8 for legal element types.

*** SYSTEM FATAL MESSAGE (SD42RD-2) PREVIOUS ELEMENT-ID TO ID=******** DID NOT REQUEST CORRECT NUMBER OF PHASE-I OUTPUT WORDS.

Logic error, probable error in Phase-I or Phase-2 element routines in SDR2 module.

*** SYSTEM FATAL ERROR (SDR2SF-I) LOGIC ERROR ELEMENT-ID******** INCORRECT NUMBER OF STRESS OR FORCE WORDS ARE BEING OUT-PUT BY A PHASE-2 ELEMENT ROUTINE. SYSTEM FATAL CODE=******

Logic error.

*** SYSTEM WARNING MESSAGE (SDR2SF-2) EXECUTION CONTINUING HOWEVER ANY STRESS OR FORCE OUTPUT REQUESTS WILL BE IGNORED.

*** SYSTEM FATAL MESSAGE (SDR2WT-1) INCORRECT NUMBER OF WORDS BEING TRANSMITTED FROM PHASE-I ROUTINE FOR ELEMENT ID=******** WORDS THIS CALL=******** ENTRY SIZE SHOULD=********.

Logic error.

*** SYSTEM FATAL MESSAGE (SD42WT-2) PREVIOUS ELEMENT -ID TO ID=******** DID NOT OUTPUT CORRECT NUMBER OF PHASE-I WORDS.

Logic error.

*** SYSTEM FATAL MESSAGE (SD42WT-3) ELEMENT ID=******** SIL=******** NOT FOUND IN TABLE OF SILS.

Logic error.

*** SYSTEM FATAL MESSAGE (SSGHEI -1) SSGHEI CALLED FOR ELE-MENT TYPE=******** SHOULD NOT HAVE HAPPENED.

Logic error.

*** SYSTEM INFORMATION MESSAGE (SSGHTI-1) ELEMENT TYPE=****** IS UNRECOGNIZED BY THE SSGHT MODULE OR HAS AN EST ENTRY SIZE WHICH IS TOO LARGE FOR A CURRENT DIMENSION.

Logic error.

*** SYSTEM WARNING MESSAGE (SSGHT2-1) PHASE-I DATA EXISTS FOR ELEMENT TYPE=******** BUT THE IS NO PHASE-2 ROUTINE DATA SKIPPED.

Logic error.

*** EMA FATAL ERROR---DEGREES OF FREEDOM FOR ELEMENT TYPE=****.
MUST BE 1,3, OR 6.

This is a programming error as all elements in NX Nastran have 1,3 or 6 degrees of freedom at each grid point.

EMA LOGIC ERROR ***** *****=140, 202, 220, 262, 142
OR EMALD(S) LOGIC ERROR 10

These two messages are fatal errors in the program. The complete run should be sent to the programming staff for analysis and program correction.

SUMMARY OF ELEMENT CHANGES AS DETERMINED BY THE MODTA MODULE ALL ********ELEMENTS FROM PREVIOUS RUN HAVE BEEN DELETED IN CURRENT RUN.   ***** ELEMENTS DID NOT EXIST IN PREVIOUS RUN AND ALL SUCH ELEMENTS ARE NEW IN CURRENT RUN. *********HAS BEEN CHANGED. ******HAS BEEN DELETED.******HAS BEEN ADDED.**

The above summary of changes is automatically printed on restart to indicate which elements have been involved in the matrix update operation.

***   MODEMG FATAL ERROR---FORM=1 AND FORM2 ELEMENT MATRICES ARE NO LONGER SUPPORTED BY MODEMG
An attempt has been made to restart and update a matrix from an older version of NASTRAN. It is necessary to regenerate all matrices on a current system.

***   MODTA LOGIC ERROR
This is a fatal message in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   MODEMG LOGIC ERROR
This is a fatal message in the program. The complete run should be sent to the programming staff for analysis and program correction.

***   USER INFORMATION MESSAGE---FBS RESTARTED AT COLUMN NUMBER*****
Indicates column number for restart when using internal checkpoint option for FBS.

***   USER INFORMATION MESSAGE---FBS TIME ESTIMATE TO FORM DATA BLOCK ******* (TYPE=****) IS SEC NUMBER OF PASSES=***
Estimated time to perform FBS operation. The program will EXIT if there is insufficient time to complete the FBS operation.

***   USER INFORMATION MESSAGE---FBS CHECKPOINT ON **** PASS **** COMPLETE, LAST COL NBR=****
Termination point when using internal checkpoint option for FBS.

***   FBS1 FATAL ERROR 20
***   FBS2 FATAL ERROR 20
***   FBS3 FATAL ERROR 20
***   FBS4 FATAL ERROR 20
***   FBS21 FATAL ERROR 20
The above five messages all probably indicate that the input to FBS is not a triangular factor.

***   SYSTEM WARNING MESSAGE---TRAILER FOR ******** SAYS TYPE=**** BUT ACTUAL TYPE=****
Even though the program has an error in the matrix trailer, the multiplication will be performed correctly.

METHOD **** NBR PASSES=**** EST TIME=*****.* METHOD 4T NBR PASSES=****, **** EST TIME=*****
The first message prints the number of passes and time estimate for all MPYAD methods except

4T. In the case of the transpose option for method 4, the first integer is the number of passes for the multiplication and the second integer is the number of passes for the assembly of the partial columns.

*** SDCOMP FATAL ERROR---LEADING MINOR OF DATA BLOCK ******** IS SINGULAR AT COLUMN******* DECOMPOSITION ABORTED.
impossible to continue symmetric decomposition if the leading minor is singular. The user should check for singularities in the matrix.

*** SDCOMP INFORMATION MESSAGE---DATA BLOCK ******* HAS ZERO DIAGONAL TERMS AT COLUMN
The decomposition can proceed in the presence of zero diagonal terms as long as the leading minor is nonsingular.
This condition should cause concern if only structural elements are present, since zero diagonal terms are unlikely if there are other terms in the column. This condition can occur if Lagrange Multiplier techniques are used.

*** USER INFORMATION MESSAGE---PASSIVE COLUMNS TERMINATED FOR DATA BLOCK ******** AT ROW DUE TO LIMITED AVAILABLE CORE
Core limitation is in preface of decomposition in the presence of null columns and/or zero diagonal terms.

*** SDCOMP FATAL MESSAGE---DECOMPOSITION OF DATA BLOCK ******** ABORTED DUE TO ABOVE MESSAGES AND USER OPTION
User option not to proceed with decomposition in the presence of null columns and/or zero diagonal terms.

*** USER INFORMATION MESSAGE---EXECUTION TERMINATED AFTER SDCOMP PREFACE AS REQUESTED
User may terminate execution after preface of symmetric decomposition by setting SDCOMP=64 on the NASTRAN card.

*** USER INFORMATION MESSAGE---STATISTICS FOR ****E**** OF DECOMPOSITION OF DATA BLOCK FOLLOW NUMBER OF NEGATIVE TERMS ON FACTOR DIAGONAL******MAXIMUM RATIO OF MATRIX DIAGONAL TO FACTOR DIAGONAL=***** AT ROW NUMBER
Indicated statistics are given after each symmetric decomposition.

*** USER WARNING MESSAGE---ROW ******** OF LOW. TRI. FACTOR HAS DIAGONAL TEM=0 (OR. LT. 0 IF CHOLESKY)
If standard decomposition is used, a zero term implies the row listed is the last degree of freedom in a mechanism. If Cholesky decomposition is used, the row listed is at the end of a block that contains a non-positive definite minor. See Section 7.5 of the NX Nastran Application Manual for a discussion of this theory and avoidance techniques.
Depending on the context, a user fatal message with more specific information usually follows this warning message.

*** USER INFORMATION MESSAGE---SUBSTITUTED FOR DIAG. TERM OF LOW. TRI. FACTOR AT ROW******
If a zero diagonal is generated during the decomposition, the default action is to place a small number on the diagonal and continue the decomposition.

*** SDCOMP FATAL MESSAGE---LOGIC ERROR. CONTENTS OF /

SDCOMX/ FOLLOW ACTIVE COLUMN VECTOR IS SPILL REDEFINITION GROUPS ARE

This is a fatal error in the program. The complete run should be sent to the programming staff for analysis and program correction.

Unsymmetric Decomposition Messages

***   USER FATAL MESSAGE---ADDITIONAL OPEN CORE NEEDED FOR INCORE DECOMP IS ******* WORDS

A request has been made to perform an unsymmetric decomposition in main memory and there is insufficient space.

***   USER FATAL MESSAGE (MATGEN-3) ILLEGAL VALUE FOR OPTION PARAMETER****

***   USER FATAL MESSAGE (MATGEN-4) ILLEGAL VALUE FOR PARAME-TER *=****

***   USER FATAL MESSAGE (MATMOD-3) ILLEGAL VALUE FOR OPTION PARAMETER=******

***   USER FATAL MESSAGE (MATMOD-4) ILLEGAL COLUMN NUMBER PARAMETER=******NUMBER OF COLUMNS=****

***   USER FATAL MESSAGE (MATMOD-5) OPTION ****** NOT IMPLE-MENTED AS YET.

***   USER FATAL MESSAGE (MATMOD-7) ILLEGAL VALUE FOR PARAME-TER P2=****

***   SYSTEM FATAL MESSAGE 4101 MATPCH UNABLE TO FIND NAME FOR DATA BLOCK ******

Matrix Normalization (NORM) Messages
***   USER INFORMATION MESSAGE---NCOL=******** NROW=****** 6.3.4.8

Matrix Output (OUTPT4) Messages

DATA BLOCK ******** WRITTEN ON FORTRAN TAPE **** FROM DMAP MOD-ULE OUTPUT4 TRAILER=******** ******** ******** ******** ******** ******** ********

***   MODULE STRSORT FINDS ILLEGAL SORT SELECTION DATA PAIR ******* ******** WHICH WILL BE IGNORED DUE TO ERRORS MENTIONED PREVIOUSLY INPUT FILE ** SHOULD BE TABLE PRINTED TO SEE DATA. SDR3 TRACE NUMBER THERE ARE ******** ******** ELEMENTS FIRST EID=***** THE FOLLOWING ELEMENTS CONNECT TO GRID POINT ******** ELEMENT TYPE ******** NUMBER OF CONNECTED GRID POINTS=****** ELE-MENT ID MEASURE

***   USER WARNING MESSAGE---MACOFP OUTPUT TAPE BUFFER REDUCED TO*****DUE TO SCARCITY OF CORE ***   SUBROUTINE MACOFP---IMPROPER OP CODE P1=******** THE DATA BLOCKS CANNOT BE PRINTED OUT BY MACOFP---USE OFP

***   SYSTEM FATAL MESSAGE (CURV) SUBROUTINE CURVS HS RETURNED WITH ERROR CONDITION LOC CODE=****** IN SUBROUTINE

CURVX.
 FILE NUM=****. CONSTRAINTS IN COMMON /CURVTB/

*** USER WARNING MESSAGE (CURVIT-1) LOCAL INTERPOLATION USING INDEPENDENT VALUES WITHIN RANGE OF THE ******-TH SORTED ORDER GRID ID INVOLVED WITH RESPECT TO MATERIAL COORDINATE SYSTEM ID=*******CANNOT BE COMPLETED. ILL-CONDITION MAY HAVE RESULTED FROM ALIGNMENT OF INDEPENDENT VALUE COORDINATES. OUTPUT FOR THE GRID ID IN QUESTION WILL NOT APPEAR.

*** SYSTEM FATAL MESSAGE (ELFDR) SUBROUTINE ELFDRX HAS RETURNED WITH ERROR CONDITION **********LOC CODE=****** IN SUB-ROUTINE ELFDRS. FILE NUM=**** (MAY BE INCONSEQUENTIAL) (NOTE ADDITIONAL MESSAGES) CONSTRAINTS IN COMMON /ELFDRT/BUG PRINTED 5000 LINES. NO MORE BUG MESSAGES. EXECUTION CONTIN-UES

*** USER FATAL MESSAGE, DOM3A. NO MATCH FOUND BETWEEN DVIDR DESVAR IDS AND DVTM IDS

*** SYSTEM FATAL MESSAGE 71 XX, DOM2L. DOPTPRM RECORD OF EDOM IS LESS THAN 17 WORDS LONG

*** SYSTEM FATAL MESSAGE 71 XX, DOM2L. END OF FILE ENCOUN-TERED IN EDOM 6.3.7

MORE THAN 50 CONTOURS SPECIFIED ******* REJECTED CARD STARTING WITH ****** IGNORED AN UNRECOGNIZABLE OPTION ****** WAS DETECTED ON A -PLOT- CARD A NONEXISTENT ORIGIN ******** IS SPECI-FIED ON A -PLOT- CARD A NONEXISTENT SET ******** iS SPECIFIED. PLOT FRAME IS NULL.

THE -PLT2- PLOT TAPE HAS NOT BEEN SET UP. PLOT CARD IGNORED.

INSUFFICIENT CORE FOR SET ********. CORE AVAILABLE=********, NEEDED=***** INSUFFICIENT CORE CONBDR ELEMENT***** NO STRESS CALCULATIONS FOUND FOR ELEMENT NUMBER****** - ELEMENT IGNORED ALL REFERENCES TO SET ******* WILL BE IGNORED NO SETS EXIST - PLOTS SKIPPED AN ATTEMPT HAS BEEN MADE TO DEFINE MORE THAN Io DISTINCT ORIGINS REFERENCE TO SET ****** ON FIND CARD WILL DEFAULT TO FIRST DEFINED SET AN UNRECOGNIZABLE REQUEST ******* HAS BEEN SPECIFIED ON A -FIND- CARD INSUFFICIENT CORE SUB-ROUTINE FIND. CORE NEEDED=******** AVAILABLE****** AN UNRECOG-NIZABLE PLOT PARAMETER ******** HAS BEEN DETECTED - IGNORED AN INVALID PLOTTER ******** HAS BEEN SPECIFIED - THE CURRENT PLOTTER WILL BE USED INSTEAD PEN **** IS NOT A LEGAL PEN NUMBER FOR THIS PLOTTER. PEN I WILL BE REDEFINED.

INCOMPLETE PLOT DUE TO INPUT OF FILE A PLOT NOT ATTEMPTED DUE TO INPUT OR FILE NO SETS EXIST IN PLOT PACKAGE CARD STARTING WITH ******* IGNORED NO PLOTABLE STRUCTURAL ELEMENTS EXIST IN SET***** CONNECT IGNORING ELEMENT ******** WITH MORE THAN 20 CONNECTIONS ******** ELEMENTS CANNOT BE PLOTTED BY THE STRUC-TURAL PLOTTER *** USER WARNING MESSAGE --- CHBDY ELEMENT ******* HAS NO NORMAL OR BAD GEOMETRY WHICH MAKES IT UNPLOTA-BLE 6.3.7.3
 Logic Error Messages The following are logic error messages and they usually result from an

error in the program. The complete run should be sent to the programming staff for analysis and program correction.

SET ***** RESULTED IN ILLEGAL EOF IN GPSTETS FILE ELEMENT TYPE ******* WITH ******* GRIDS SKIPPED IN LINEL INCOMPLETE PLOT DUE TO INPUT OR FILE SUPLT REJECTED PLOT. PIVOT ******* IS ZERO OR SAME AS ENTRY SUPLT REJECTED PLOT, NEGATIVE NUMBER ENTRIES -N3,N4- ******** ******** UNEXPECTED EOF IN SUPLE - PIVOT****** SUPLT - ENTRY ******** FOR PIVOT NOT FOUND ******** RANGE NO ELEMENTS IN THIS SET**

***   SYSTEM FATAL MESSAGE XXXX, FILE ******* NOT IN FIST.
File not in fist coding error.***   USER FATAL MESSAGE IFPi XY-1. ABOVE CARD MUST END WITH ONE INTEGER VALUE.

SEPLOT card in XYPLOT package must have a superelement ID.

Abnormal Termination NX Nastran may terminate as a result of errors detected by the operating system or by the NX Nastran code. If DIAG 44 is set, then NX Nastran will produce a dump when most of the errors occur. The purpose of these remarks is to aid the user in interpreting the output which accompanies these types of errors.

An example of this type of output with some commentary is presented on the following pages.

Specific items of this output are denoted with circled numbers for reference purposes: