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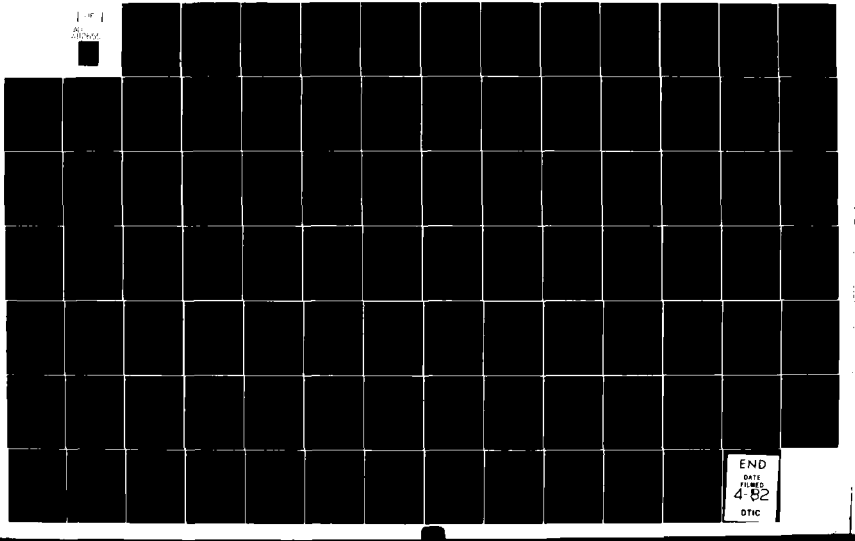

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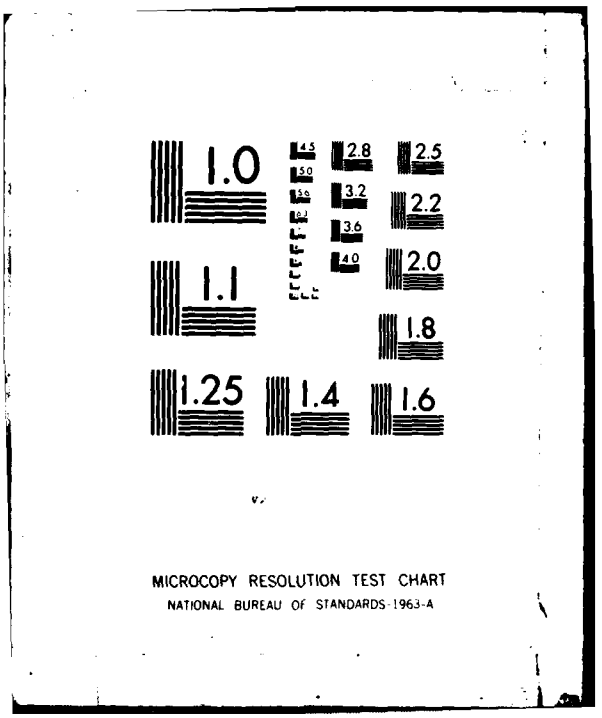
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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Fort Leavenworth, Kansas 66027

DIVWAG MODEL DOCUMENTATION
VOLUME II
PROGRAMMER/ANALYST MANUAL

ACN 21704

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CONTENTS

PART 6

CONTENTS (Continued)

SECTION VIII

DIVWAG DIAGNOSTIC HANDBOOK

CHAPTER 1

INTRODUCTION

1. PURPOSE. This DIVWAG Diagnostic Handbook provides the user of the DIVWAG system with a reference source for determining the meaning of the error prints produced by operation of the system.

2. SCOPE. Normal print statements are described fully in other sections of the DIVWAG system documentation. The prints described in this handbook are associated with abnormal or unusual conditions of system operation. The error conditions producing the diagnostic prints appearing in this handbook may be fatal, resulting in termination of processing, or they may be nonfatal. The diagnostic statement accompanying a nonfatal condition is informative only; processing is not terminated, but corrective action may be required to ensure valid results.

3. ORGANIZATION. The handbook is divided into chapters, each devoted to a DIVWAG system processor or component. The error conditions of each processor are categorized by model or operation; and within each model the routines, and the messages produced by each routine, are arranged in alphabetical order. The generalized form of each error message is given, the message is interpreted, and corrective action is suggested.

CHAPTER 2

CONSTANT DATA INPUT PROCESSOR ERROR CONDITIONS

1. INTRODUCTION. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG Constant Data Input Processor. Each paragraph is devoted to the diagnostics of a major model or component of the processor.

2. EXECUTIVE CONTROL:

LOAD TYPE _____ NOT ACCEPTABLE, WILL GO ON TO NEXT LOAD, OR DUMP.

This message is printed if the XXXXXX....PREP card is found to be unidentifiable as to the submodel load about to be processed. This error is nonfatal, and the driver will read over this set of data until it finds either another XXXXXX....PREP identifier card or a STOP....PREP card, which will terminate the job normally. Should this message occur, the identifier should be retyped correctly and only this data deck reloaded.

3. ORGANIZATION AND EQUIPMENT:

a. Routine LDTOE:

*** A CIRCULAR DEFINITION WAS GIVEN FOR THESE UTDS
XXXX, YYYY, ZZZZ, etc.

The list of complex UTDs could not be resolved into basic UTDs. The abort flag to terminate processing after all cards have been edited is set. The senior/subordinate units cards (card ID 5301) must be corrected.

*** B OR R MISSING OR IMPROPERLY PLACED FOR UTD XXXX

The force indicator has changed in the middle of a data type deck. The abort flag is set to terminate processing after all data cards have been edited. The proper force indicator must be placed in card column 2.

**** XXXX CARD MISSING

The senior UTD for the second force to be processed is missing. The abort flag to terminate processing after all cards have been processed is set. The UTD for the senior UTD of the second force (card ID 5301) must be corrected.

*** EOH NUMBER GREATER THAN 200. XXXXX *****

The EOH number XXXX as read from the table of organization and equipment card (ID 5201, type 1) is greater than 200. The abort flag is set to terminate processing after the data cards have been edited. This EOH number must be eliminated or corrected. EOH numbers may range from 1 to 200.

* ERROR * DUPLICATED TYPES. XXXX

The senior unit XXXX of the senior/subordinate data card (ID 5301) has been previously entered into the UTD directory table. The data card is ignored and processing will continue. The card should be analyzed and the duplicate UTD eliminated.

ERROR XX IN CREATING FILE YY

A DIVWAG input/output error type XX occurred upon an attempt to create file YY on the DIVWAG data file. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code XX.) All processing stops with this error.

$*$*$ ERROR IN INITIALIZATION FILE NAME COMMON XX

A DIVWAG input/output error occurred when the system tried to retrieve the file name table from the DIVWAG data file. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code XX.) Processing will continue to edit the input cards, but output DIVWAG data files should be disregarded.

* ERROR * MORE THAN 12 TYPES, ONLY FIRST 12 STORED

More than 12 basic UTDs have been defined to make up a complex UTD. The excess UTDs will not be processed, and processing continues. The excess UTDs should be eliminated.

* ERROR * TYPE XXXX IS NOT DEFINED AS BASIC TYPE

The UTD defined with the table of organization and equipment card (ID 5201) was not found within the basic portion of the UTD table. The card is ignored, and processing continues. The UTD on this card is in error or the UTD table as originally loaded is in error; therefore, the 5201 card or the 5301 card must be corrected.

INVALID CARD TYPE - card image -

The data card could not be identified as a LDTOE data card. The card is ignored, and processing is continued. The card ID and/or type is erroneous and should be examined and corrected.

I/O ERROR XX ON FILE YY

A DIVWAG input/output error type XX occurred upon an attempt to access file YY. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code XX and corrective action to be taken.) All processing stops with this error.

I/O ERROR TYPE XX IN CALL REMOVE FILE YY

A DIVWAG input/output error type XX occurred upon an attempt to remove file YY from the DIVWAG data file. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code.) All processing stops with this error.

MORE THAN 5 SECONDARY EOH NO. FOR XX

For each primary equipment type XX, a maximum of five secondary equipment types is allowed. Any secondary equipment types in excess of five are ignored. The secondary equipment cards (card ID 601) should be examined and changed to allow only a maximum of five secondary equipment types per primary type.

*** MORE THAN 250 BASIC UTDS LOADED ***

More than 250 basic UTDs have been defined. The sum of UTDs defined on the senior/subordinate units card (5301, type 1), the table of organization and equipment card (5201, type 1), and the bulk-loaded expendable supplies card (5201, type 2) exceed 250. The abort flag is set to terminate processing after all the data cards have been edited. The cards should be checked to determine if there are any unique UTDs between the senior/subordinate units cards and the table of organization and equipment card. The bulk-loaded expendable supplies cards should be checked for any unique UTDs. Lastly, the number of UTDs must be reduced.

NO BREAKDOWN FOLLOWING TYPE XXXX

The complex UTD XXXX has no subordinate UTDs. The card (ID 5301) is ignored, and processing continues. The card should be eliminated or a subordinate UTD assigned to it.

*** THE ABOVE CARD DOES NOT CONTAIN A R OR B OR BLANK IN C.C. 2 PROCESSING CONTINUES ******

Each LDTOE data card should contain the character B or R in column 2 to identify the data card as belonging to the Blue or Red force, or a blank, which identifies a change of card identification. Processing continues after this diagnostic but the card should be checked for other possible errors and the appropriate force designator placed in card column 2.

*** THE BASIC UTD XXXX, WAS PREVIOUSLY DEFINED ****

The UTD as defined by the table of organization and equipment card (ID 5201, type 1) has previously been defined. The abort flag is set to terminate processing after all data cards have been edited. The mispunched UTD must be corrected or the double defined table of organization and equipment card eliminated.

*** THE FIRST UTD IS NOT AABB OR AARR

The first senior UTD to be processed should have been AABB for the Blue force or AARR for the Red force. The abort is set to stop processing after all the data cards have been edited. The UTD for the senior UTD to be processed must be corrected (ID 5301).

*** TOE FILES NOT PROPERLY LOADED ***

The abort flag is set and processing stops.

*** UTD XXXX DEFINED IN TRAINS DATA ONLY

A UTD for bulk-loaded expendable supplies (XXXX) could not be found in the UTD table for equipment on hand. The abort flag is set to stop the job when card editing is complete. There is an invalid or missing UTD in the table of organization and equipment or the present UTD (XXXX) for bulk-loaded expendable is invalid. The card types 1 and 2, ID 5201, should be edited and corrected.

UTD XXXX DID NOT HAVE TOE DEFINED FOR IT

Basic UTD XXXX did not have a table of organization and equipment (TOE) assigned to it. Processing continues. Senior/subordinate data and table of organization and equipment data do not match. The UTD in each card type should be adjusted.

b. Routine DMPTOE:

INDEX XXXX IN TRAINS BUT NOT AUTHORIZED

EOH type XXXX is in the bulk-loaded expendable portion of data file 52 but not in the authorized portion. There is an error in a bulk-loaded expendable supplies card (ID 5201, type 2), possibly a mispunched UTD or an extraneous card.

4. TASK ORGANIZATION:

a. Routine COMPRS:

* ERROR* COMPRESSED CHARACTERS EXCEEDED 80

The number of characters in the unit definition statement exceeds 80. The statement will be ignored and processing will continue. The number of characters in the statement should be limited to 80.

b. Routine CORDIN:

* ERROR* ERROR IN COORDINATES, NO COORDINATES WILL BE SAVED - card image -

The x and y coordinates are limited to seven characters each. Either a delimiter could not be found or there were more than seven characters. The coordinate variables are set to zero. (See the Analyst/Programmer Manual for the proper delimiters.) The coordinates should be checked to ensure seven characters per coordinate.

c. Routine CRAT31:

**** I/O ERROR TYPE XX ON CALL TO FILE 31 IN SUBROUTINE CRAT31

A DIVWAG input/output error type XX occurred upon an attempt to add a record to data file 31. Processing is terminated. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

d. Routine ECHLON:

I/O ERROR XX ON FILE YY

A DIVWAG input/output error type XX occurred upon an attempt to access DIVWAG data file YY. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

e. Routine RECOG1:

* ERROR * DUPLICATED IDS IN TASK.
XXXXXXXX

A duplicate UID (XXXXXXXX) has been found in the task organization. An error flag is set so that card editing will continue but no other processing will be done. The duplicate UID must be removed or corrected.

* ERROR * END OF XXXXXXXX CARD IS OUT OF ORDER

An end unit composition card (END OF XXXXXXXX) has been encountered out of order. An error flag is set so that card editing will continue, but no other processing will be done. This error could be caused by a misplaced card.

* ERROR* FIRST CHARACTER OF UNIT ID IS NOT THE SAME AS THE PRECEDING ID - card image -

There has been a change in force (an ID change) within the task organization. An error flag is set so that card editing will continue but no other processing will be done. A card may be out of order or mispunched.

* ERROR * FIRST CHARACTER OF UNIT ID MUST BE R, OR B - card image -

The first character of a unit ID must be R or B to identify the unit as belonging to the Red or Blue force. An error flag is set so that card editing will continue but no other processing will be done. The first character of the UID should be changed to R or B.

* ERROR * MISSING = - card image -

The equal sign (=), which identifies a complex unit, is missing from the first unit of the force. An error flag is set so that card editing will continue but no other processing will be done. (See Section II, Chapter 4, Appendix A for correct card format.)

* ERROR * UNIT ID DOES NOT EXIST
XXXXXXXX

An end unit composition card (END OF XXXXXXXX) has been encountered for a unit that has not yet been identified. An error flag is set so that card editing will continue but no other processing will be done. This error may be caused by a mispunched UID.

* ERROR * UNRECOGNIZABLE PHRASE - card image -

A phrase has been found within the card image that cannot be decoded. An error flag is set so that card editing will continue but no other editing will be done. (See Section II, Chapter 4, Appendix A to the Analyst/Programmer Manual for the correct card format and acceptable phrases.)

* WARNING * UNIT ID LESS THAN 8 CHARACTERS, ZERO FILL ON RIGHT - card image -

The UID has less than eight characters. It is zero-filled on the right to form an 8-character UID, and processing continues. This message is informative only.

* WARNING * UNIT ID MORE THAN 8 CHARACTERS, ZERO FILL ON RIGHT - card image -

The UID has more than eight characters. It is truncated to eight and processing continues. This message is informative only.

f. Routine RELATR:

** ERROR ** XXXXXXXX CANNOT SUPPORT UNDEFINED UNIT YYYYYYYY

The unit YYYYYYYY, which is to be supported by unit XXXXXXXX, is not in the unit status file. No support will be supplied, and processing continues. The supported unit YYYYYYYY UID should be corrected.

I/O ERROR ON FILE 1 FROM SUBROUTINE RELATOR

A DIVWAG input/output error was encountered in an attempt to access data file 1. Processing stops. The task organization cards should be inspected and data file 1 reloaded.

UNIT XXXXXXXX CANNOT SUPPORT MORE THAN TEN SUBORDINATES YYYYYYYY WILL NOT BE SUPPORTED

Unit XXXXXXXX cannot support unit YYYYYYYY because it is already supporting 10 units. No support will be provided, and processing continues. YYYYYYYY support should be provided from some other source or the support deleted.

g. Routine SEQUEN:

* ERROR * DUPLICATED IDS IN USF
XXXXXXXX

The UID XXXXXXXX has already been placed into the unit status file. There are two or more units within the task organization with the same ID. Processing stops. The task organization should be checked for duplicate unit IDs.

I/O TROUBLE, FILE 11 SEQUEN, IER = XX

A DIVWAG input/output error of type XX occurred upon an attempt to retrieve the class one consumption rate from data file 11. The class one consumption rate will be set to zero. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of error code XX.)

SEQUEN CANNOT FIND SUPPLY CLASSES, IER = XX

Upon an attempt to retrieve the supply classes from data file 11 a DIVWAG input/output error of type XX occurred. The supply class array will be zeroed. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of error code XX.)

h. Routine SUPORT:

* ERROR * CANNOT IDENTIFY TYPE OF SUPPORT, ASSUMED GS - card image -

The type of support cannot be identified. Support defaults to GS. (See Section II, Chapter 4, appendix A to the Analyst/Programmer Manual for the correct support codes.)

* ERROR * UNIT CANNOT SUPPORT ENEMY UNIT, ASSUMED GS - card image -

The unit is trying to support an enemy unit. The type of support then defaults to GS. The UID of the unit trying to support should be checked.

i. Routine SUPPLY:

**** ERROR **** IN ACCESS TO FILE 31 IN SUPPLY, FILE 31 RECORD NO. = XXXX

If XXXX equals zero the requested supply point did not have a data file 31 record; i.e., it did not have a location. All supply points must have locations. The unit's data file 31 records will not be updated. The supply point should be changed to one with a location. If XXXX does not equal zero, the first data file 31 record of the supply point is not a class one consumable type record. The unit's data file 31 records will not be updated. An error exists within routines TOEPUT or UPDATE where data file 31 is loaded.

**** ERROR **** INCORRECT CARD SEQUENCE ERROR

The supply point cards are in groups, the first card in each group being a SUPPLY POINT card followed by any number of FOR UNITS cards, and the last card being an END OF SUPPLY POINT DATA card. If this sequence is not met the result is unpredictable and the routine returns. The supply point card sequence must be corrected.

** ERROR *** SUPPLY POINT XXXXXXXX NOT FOUND IN UNIT STATUS FILE

The supply point, Unit XXXXXXXX, does not exist. The processing will continue but the supply point for the units being supplied will not be updated. The supply point UID should be corrected.

*** ERROR *** UID XXXXXXXX FOR SUPPLY POINT YYYYYYYY NOT IN UNIT STATUS FILE

The unit XXXXXXX to be supplied from unit YYYYYYYY does not exist on the unit status file. The unit is ignored and processing continues. The UID should be corrected.

INPUT/OUTPUT ERROR OF TYPE XX

This message indicates a DIVWAG input/output error. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of error code XX.)

j. Routine TALLEY:

** MESSAGE ** TASK ORGANIZATION REQUIRES XX UNITS OF BASIC TYPE XXXX BUT ONLY YY ARE AUTHORIZED

The unit TOE description (data file 51) as generated in the LDTOE authorizes a total of UTD type XXXX of YY, while the task organization uses only XX. This message is informative only.

** TASK ORGANIZATION CALLS FOR XX UNITS OF TYPE YYYY WITH ZZ UNITS AUTHORIZED

There were XX complex UTDs of type YYYY in the task organization, while the table of equipment called for ZZ such units. This message is informative only.

** XX UNITS OF TYPE YYYY CALLED FOR IN TASK ORGANIZATION. NUMBER AUTHORIZED NOT SPECIFIED IN TOE

There were XX complex UTDs of type YYYY in the task organization, but none of this type were authorized in the table of equipment. This message is informative only.

k. Routine TOEPUT:

* ERROR * TOE CODE DOES NOT EXIST FOR BASIC UNIT XXXX

The UTD XXXX could not be found in either the basic or complex portion of the UTD tables. Processing is terminated. The UTD should be corrected.

I/O ERROR ON FILE XX FROM SUBROUTINE TOEPUT. IER = YY

A DIVWAG input/output error type YY was encountered upon an attempt to access file XX. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code.)

1. Routine UPDATE:

* ERROR * XXXXXXXX HAS YY SUBORDINATES. LIMIT IS 10

The complex unit XXXXXXXX has more than 10 subordinates. Processing is stopped. The task organization should be changed to allow for a maximum of ten subordinate units.

* ERROR * SUPERIOR AND ALL SUBORDINATES HAVE LOCATIONS SUPERIOR XXXXXXXX IS ZEROED

The superior unit XXXXXXXX and all its subordinate units have locations. The location of the superior unit is zeroed and processing is continued. The task organization should be changed so that not all units have locations.

* ERROR * TOE CODE XXXX NOT FOUND FOR UNIT XXXXXXXX

The UTD XXXX for unit XXXXXXXX could not be found in either the basic or complex portion of the TOE tables. Processing is stopped. The UTD for this unit within the task organization is in error. The error should be corrected and the job rerun.

I/O ERROR ON FILE XX FROM SUBROUTINE UPDATE

A DIVWAG input/output error occurred upon an attempt to access data file XX. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.) Processing stops at this error.

* MESSAGE * SUBORDINATE TOES DO NOT MAKE UP TOE XXXX FOR UNIT XXXXXXXX

The subordinate UTDs to the UTD XXXX of the superior unit XXXXXXXX do not match the UTD breakdown as defined in the UTD composition file (date file 53). This message is informative only.

$UPDATE$ UNIT UUUUUUUU BOSS IS XXXX. EXPECT YYYY

The unit UUUUUUUU unit status file entry for the IUID of its boss unit is loaded with XXXX. It should be YYYY. Processing is terminated. The task organization and any error messages from LDTOE should be checked.

$UPDATE$ UNIT UUUUUUUU CANT BE FOUND BY IUIDF

The subordinate unit UUUUUUUU can't be found on the unit status file. Processing is terminated. The task organization and any error messages from LDTOE should be checked.

5. ENVIRONMENTAL LOAD ROUTINES:

a. Routine ELEV:

IO ERROR, IER = XX

A DIVWAG input/output error type XX occurred upon an attempt to retrieve the file name table or to access data file 13. All processing stops. (See DIVWAG Input/Output Error Conditions, Chapter 7 of this section, for a description of this error code.)

b. Routine TERAIN. This routine has no diagnostics.

c. Routine TERNLD:

** CELL DESCRIPTION ERROR X = WWWW Y = XXXX DATA = AAAA

X and/or Y coordinate of terrain cell is in error. Processing will continue, but this cell will not be loaded.

I/O ROUTINE ERROR FROM TERNLOAD, IER = XX

A DIVWAG input/output error type XX was encountered upon an attempt to access data file 3. (See the DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.) Processing stops with this error.

TERRAIN RECORD ERROR
CELL NUMBER XXXXX X = YYYYY Y = ZZZZZ R = A F = C SS = DD

The forest condition or trafficability index on the terrain file load card is not valid. It must be from 0 to 9. New X and Y cell locations are computed and processing continues.

d. Routine TERNDP:

I/O ROUTINE ERROR FROM TERNDUMP, IER = XX

A DIVWAG input/output error type XX was encountered upon an attempt to access data file 3 records. (See the DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.) Processing stops with this error.

e. Routine WETHLD:

*** MALFUNCTION IN LOADWETH--FILE NOT LOADED, IER = XX

A DIVWAG input/output error type XX was encountered upon an attempt to access data file 4. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.) Processing stops at this error.

6. UNIT GEOMETRY:

a. Routines DIMLD and DUMP28. These routines have no diagnostics.

b. Routine LOAD28:

CARD NO. XXXX - - - INVALID CARD ID

The data file indicator on card number XXXX, which should be a card ID 2801 describing UTDs with common dimension and resources distribution, is not valid. All processing stops.

CARD NO. XXXX - - - INVALID FORCE DESIGNATOR

The force designator as input on card number XXXX, ID 2801, which describes UTDs with common dimension and resources distribution, is not valid. The entry must be R or B. Processing will continue but this card will be skipped.

CARD NO. XXXX - - - INVALID UTD-GROUP ID NUMBER

The sequence number as input on card number XXXX, ID 2801, which describes UTDs with common dimension and resources distribution, is not valid. This number must be greater than zero. Processing will continue but this card will be skipped.

CARD NO. XXXX - - - ITEM CODE NOT LISTED ON 2802

The item code as input on card number XXXX, ID 2804, unit distribution of personnel and equipment card, does not correspond to any item code input on the preceding 2802 card. Processing will continue but this card will be skipped. Input requirements for the dimension load program should be reviewed.

CARD NO. XXXX - - - NO BANDS FOR THIS ACTIVITY

Card number XXXX, ID 2804, bands and unit dimensions, did not have a corresponding activity band input on card type 2803. Processing will continue but this card will be skipped. The input requirements for the dimension load program should be reviewed.

CARD NO. XXXX - - - TOTAL PERCENTS NOT = 100

Card ID 2804 requires entries of percentages of equipment or personnel in each activity in which that unit is participating. These percentages must add to 100 percent. If not, this card will be skipped. The input requirements for the dimension load program should be reviewed.

LOAD ERROR AT CARD NO. XXXX

A DIVWAG input/output error occurred upon an attempt to access data file 28. All processing stops. A review of the output should determine the location and cause of the error. Any preceding diagnostics should be noted.

7. INTELLIGENCE AND CONTROL:

a. Routine INCSLD:

ILLEGAL CODE NAME - card image -

The entry in columns 4-6 of card ID 3604, type 1, is a code for the unit type designated to receive or originate intelligence messages. It must conform to the abbreviations as described in the input specifications. This card will be ignored.

INVALID CARD ID - card image -

There is a card within the data file 36 set which is not of the proper ID. It will be ignored. Cards should be checked for order or a misplaced end of file card.

INVALID CARD TYPE - card image -

There is only one type of intelligence handling elapsed time card (card ID 3601) and this is type 1. This card is ignored. The card type in column 1 should be changed to 1.

INVALID EOH NO XXX

An EOH code as loaded from the target code category card, card ID 3602, type 1, is not valid. This code must be from 1 to 200. This UTD code and its associated target code will be ignored.

INVALID TGT CATEGORY X

The target category as loaded from the target code category card, card ID 3602, type 1, is not valid. This target category and its associated EOH will be ignored.

NOT RED OR BLUE - card image -

The force designator on the intelligence handling elapsed time card (card ID 3601) is not R or B. This card will be ignored. The force designator in card column 2 should be changed to the correct force designator.

b. Routine SET20:

AIRCRAFT TYPE ALREADY LOADED

The aircraft item code input on card type 2002, type 4, columns 6-8 has already been loaded. This card will be ignored.

COMBINATION NUMBER OUT OF SEQUENCE

Card ID 2002, types 2 and 3, identify different combinations of sensors with a unique combination number. These combinations must be loaded in ascending sequence. If not, the cards out of order will be ignored. The sequence of combination cards should be corrected.

FORCES NOT RED OR BLUE - card image -

The force designator on the listed card is not R or B. This card will be ignored. The force designator should be corrected.

INVALID AIRCRAFT TYPE

A reconnaissance aircraft item code on card ID 2002, type 4, or a reconnaissance equipment item code on card ID 2002, type 5, is invalid. This card will be ignored. All equipment item codes must be from 1 to 200. LDTOE input requirements should be checked for possible equipment codes.

INVALID COMBINATION NO.

Card ID 2002, types 2 and 3, identify different combinations of sensors with a unique combination number. There are a maximum of 10 such combinations, and the combination number must be from 1 to 10. This card will be ignored. The excessive combination cards should be deleted.

INVALID CONTROL CODE

A control code of other than RTB (return to base) or zero was entered on card ID 2002, type 3. This card will be skipped. Control code requirements should be reviewed.

INVALID CONTROL OPTION NO.

Card ID 2002, type 3, identifies a control option number for air reconnaissance model sensor combinations. This number must be from 1 to 10. This card will be ignored and processing will continue. Constant data input requirements should be reviewed.

INVALID ITEM CODE

The subsequence item code as described for card ID 2002, type 1, must be from 1 to 200. This card will be ignored. The item code should be corrected.

INVALID RECON TYPE

The reconnaissance type code on the card ID 2002, type 2, is invalid. This card will be ignored. The input requirements should be reviewed for possible reconnaissance codes.

INVALID SENSOR CODE - card image -

The sensor code input for this card ID 2001, type 1, is invalid. This card will be ignored. The correct sensor code for each sensor should be determined by referring to input requirements.

INVALID SUB-SEQUENCE NO.

The sensor code as input on card ID 2002, type 1, for air reconnaissance/ surveillance must be from 1 to 16. This card will be ignored. Input requirements should be checked to determine the correct sensor code.

MORE THAN 136 EOH NUMBERS - card image -

The number of sensor item codes per force is limited to 136. These data are input on card ID 2001, type 1. This card will be ignored. All general radar data cards in reference to more than 136 sensor item codes should be deleted.

NO PERSONNEL LOADED

On the card ID 2002, type 4, there are no personnel loaded; aircraft cannot be flown without a pilot. The card will be ignored. The entry should be corrected.

TOO MANY ITEMS

Card ID 2002, type 4, columns 15-17 list the number of additional TOE items over and above the reconnaissance aircraft already specified. This value must be less than or equal to 14.

c. Routines DUMP20 and DUMP36. These routines have no diagnostics.

8. GROUND COMBAT:

a. Routine GCMLD:

ACTION NOT A OR D - card image -

Card ID 3901, types 1-4, for the Ground Combat Model constant data load program must be identified for attacking or defending (A or D in card column 3). Any other entry will cause rejection of the card. Processing continues.

* * CARD(1) EQUALS INVALID CHARACTER X

An illegal card type was encountered within the Ground Combat Model constant data load deck. Possible card types are 1-6. The card will be ignored, and processing will continue.

EOHT NOT FOUND - ADD - card image -

The item code for the transport system requested for a weapon system (card type 2), a sensor (card type 3), or a target was not specified with a transport system specification card (ID 3901, type 1). This card will be ignored, but processing will continue. Ground Combat Model input requirements should be reviewed for corrective action.

FORCE NOT R OR B - card image -

An illegal force designator was encountered within the Ground Combat Model constant data load deck. Possible force designators are R or B. The card will be ignored, and processing will continue.

INVALID CARD TYPE - card image -

An illegal card type was encountered within the Ground Combat Model constant data load deck. Possible card types are 1-6. The card will be ignored, and processing will continue.

INVALID SEASON CODE - card image -

The season code as entered on card ID 3901, type 6, columns 3, 14, and 25 must be 1 for summer, 2 for autumn, or 3 for snow. Processing will continue, but this card will be ignored.

INVALID TRANSPORT - card image -

The transport system type as specified on card ID 3901, type 1, column 7 is incorrect. Processing will continue but the card will be ignored. The input requirements for GCMLD should be checked for the correct entry in this field.

TERRAIN TYPE WRONG - card image -

The terrain type (1 = good, 2 = bad) as entered on card ID 3901, type 5, columns 2 and 35 is in error. Processing will continue but this card will be ignored.

TOO MANY EOH NOS. - card image -

The four types of card formats concerned with combat threat and friendly forces are: (1) weapon/transport system specification (ID 3901, type 1), (2) weapon system specification (ID 3901, type 2), (3) sensor specifications (ID 3901, type 3), and (4) weapon/transport system targets and priorities. There are a maximum of eight weapon/transport systems, 16 weapon systems, 10 sensors, and eight weapon/transport system targets for the attacking and defending forces. Those cards with excessive EOHs will be ignored, and processing will continue.

b. Routines DUMP39, FLIP, LINEAR, and SPP. These routines have no diagnostics.

9. AREA FIRE:

a. Routine AFMLD. This routine has no diagnostics.

b. Routine EDITF1:

CARD NO. XXXX - - - INVALID FORCE DESIGNATOR

Routine EDITF1 edits card ID 3001, 3002, 2901, 2902, 2903, and 2904 for a valid force designator. An invalid force designator was found on card number XXXX. An error counter is incremented, and processing continues. The force designator on card number XXXX should be corrected and the job rerun.

c. Routine EDITF2:

CARD NO. XXXX - - - INVALID WEAPON/MUNITIONS INDEX

Routine EDITF2 edits weapon/munition indexes on card ID 2901, 2902, 2903, and 2904. This value must be from 1 to 36. Card number XXXX weapon/munition index was outside of this range. Processing continues, and an error counter is incremented. Card number XXXX should be corrected and the job rerun.

d. Routine EDITF3:

CARD NO. XXXX - - - INVALID ITEM CODE

Routine EDITF3 edits equipment item codes on card ID 2901 and 2902. This value must be from 1 to 200. The item code on card number XXXX was outside this range. Processing continues and an error counter is incremented. The item code on card number XXXX should be corrected and the job rerun.

e. Routine EDITF4:

CARD NO. XXXX - - - INVALID ORDER OF CHOICE INDEX

Routine EDITF4 edits order of choice indexes on card ID 3002. This value must be from 1 to 100. The order of choice index on card number XXXX was not within this range. Processing continues, but an error counter is incremented. The card should be corrected and the job rerun.

f. Routine EDITF5:

CARD NO. XXXX - - - INVALID ACTIVITY INDEX

Routine EDITF5 edits the activity indexes on card ID 3001 and 3002. This value must be from 1 to 7. The activity index on card number XXXX was outside of this range. Processing continues and an error counter is incremented. The card should be corrected and the job rerun.

g. Routine EXIT:

ERROR IN AAAA IER = XX

A DIVWAG input/output error type XX occurred in routine AAAA. The calling routine determines the status of the job. (See DIVWAG Input/ Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

h. Routine LOAD29:

CARD NO. XXXX - - - INVALID CARD ID

Header card file identification for data file 29 load deck has an invalid file identification. Data file 29 is assumed, and processing continues. The card sequence should be checked.

CARD NO. XXXX - - - INVALID ERROR TYPE

Card number XXXX, ID 2903, has an invalid weapon munition delivery characteristics error. Processing will continue but the load will be in error. Possible error codes in the area fire load program input requirements should be reviewed.

XX DATA ERRORS

There were XX data errors encountered in the LOAD29 routine.

LOAD ERROR AT CARD NO. XXXX

A DIVWAG input/output error occurred upon an attempt to access data file 29. All processing stops. A review of the output should determine the location and cause of the error. Preceding diagnostics should be checked.

i. Routine DUMP29. This routine has no diagnostics.

j. Routine LOAD30:

CARD NO. XXXX - - - BAD PERCENT SUM

The percentage of personnel that may be in various postures with respect to the activity assigned a unit at any specified time as entered on card ID 3001 must add to 100. Processing will continue, but the results will be in error. The area fire load program input requirements should be reviewed.

CARD NO. XXXX - - - INVALID CARD ID

Header card file identification for data file 30 load deck has an invalid file identification. Data file 30 is assumed, and processing continues. Card sequence should be checked.

XXXX DATA ERRORS

There were XXXX data errors encountered in the LOAD30 routine.

LOAD ERROR AT CARD NO. 5

A DIVWAG input/output error occurred upon an attempt to access data file 30. All processing stops. A review of the output should determine the cause and location of the error. Any preceding diagnostics should be reviewed.

k. Routine DUMP30. This routine has no diagnostics.

10. TACFIRE:

a. Routine LOAD25:

CARD NO. XXXX - - - CARD OUT OF SEQUENCE

The error message is generated if a data card was read where there should have been a header card, or the card identification was not correct (2501, 2502, or 2503) or an end of data card (9999). An error counter is incremented so that processing will stop after all cards have been edited. All data cards should be in groups of 2501, 2502, and 2503 cards for each force. Each group should be headed by a card with the identification only.

CARD NO. XXXX - - - FORCE DESIGNATOR OUT OF ORDER

This message indicates a change in force designator within a card ID 2501, type 1 card group. An error counter is incremented so that processing will stop after card editing is complete. This error is either a mispunched card or a card out of order.

CARD NO. XXXX - - - INVALID ACTIVITY INDEX

An activity index as read from card ID 2303, type 1, is outside the permissible range of 1 to 7. An error counter is incremented so that processing will stop after card editing. The activity index on card number XXXX should be corrected.

CARD NO. XXXX - - - INVALID FORCE DESIGNATOR

The second column of a card ID 2501, which is the force designator, is not R or B. An error counter is incremented so that processing will stop after card editing is complete. The force designator should be corrected.

CARD NO. XXXX - - - INVALID METHOD OF ATTACK INDEX

The value of the method of attack index (columns 3 and 4 of card ID 2502, type 1) is outside the permissible range of 1 to 77. An error counter is incremented so that processing will stop after card editing. The index on card number XXXX should be corrected.

CARD NO. XXXX - - - INVALID RANGE/PRIORITY INDEX

The value of the priority index is outside the permissible limits. It should be between 1 and 77. This value is on card ID 2501, type 1, columns 4 and 5. An error counter is incremented so that processing will stop after card editing. The priority index should be corrected.

CARD NO. XXXX - - - INVALID TARGET TYPE

A target type as read from card ID 2503, type 1, is outside the permissible range of 1 to 11. An error counter is incremented so that processing will stop after card editing. The target type on card number XXXX should be corrected.

XXXXX DATA ERRORS

There were XXXXX data errors encountered in LOAD25.

b. Routine TACLD:

**** ERROR IN IOSPEED AT LOCATION XX

At location XX an error was detected by the DIVWAG input/output package upon attempting to access data file 25. Processing is stopped. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code.)

11. AIR GROUND ENGAGEMENT:

a. Routine AIRLD:

***** A/C ITEM CODE ON CARD XXXX DOES NOT MATCH ACAVL CODES

The aircraft type on card ID 2602, type 2, could not be found in the table and the table was full. This card will be skipped. The item code should be corrected or the card deleted.

***** A/C ITEM CODE OMITTED OR INCORRECT ON CARD ZZZZ

Card ID 2602, card type 1, requires an aircraft item code in columns 3 to 5. Card number ZZZZ has this field omitted or mispunched. This card is ignored. The item code should be corrected.

***** A/C - MUNITION MIX INCORRECT ON CARD XXXX

The aircraft munition mix on card number XXXX, ID 2701 or 2702, must be from 1 to 3. Card number XXXX is ignored. The aircraft munition mix (columns 3-4) should be corrected.

***** AIR DEFENSE CODE INCORRECT ON CARD XXXX

The air defense code on card number XXXX, ID 2701 or 2702, must be 1 for normal defense and 2 for increased air defense density. Card number XXXX is ignored. The air defense code should be corrected in column 8.

***** A.D. ITEM CODE ON CARD XXXX DOES NOT MATCH ANY IN TABLE

The air defense weapon type on card ID 2603, card type 1, is not in the air defense table and the table is full. This card will be skipped. The excess air defense weapon types should be deleted.

***** ERROR IN CARD ID, ON INPUT CARD NUMBER XXXX

All card identifications for this model must begin with 26 or 27. Card number XXXX does not. This card will be ignored. The card identification should be corrected to include this card in the load.

ERROR IN CARD TYPE, ON CARD NUMBER XXXX

There are four card types for each card ID 26XX for this model (1-4). Card number XXXX had a card type other than 1-4. This card will be ignored. The card type on card number XXXX should be corrected.

ESTACT = WWWWW EST. ACTIVITY NOT EQUAL TO AN ACTIVITY LISTED IN ENGRES TABLE FOR MT = XXXXX CARD ZZZZ

The type of activity is dependent on the mission type. Activity type code WWWWW is not an acceptable activity for mission type XXXXX. Card number ZZZZ, ID 2701, will be ignored. Data input requirements should be checked and the card corrected.

***** MISSION TYPE TOO LARGE ON CARD XXXX

Card number XXXX, ID 2701 or 2702 (air strike data) has 20 possible mission types (1-20). Card number XXXX has a mission type greater than 20. This card will be ignored. The mission type (columns 3-4) on card number XXXX should be corrected.

MIX IS OUT OF RANGE. MIX = XXXXX CARD ZZZZ

On card number ZZZZ, ID 2601, type 2 or 3, the aircraft/munitions mix (column 1) must be 1 to 3. Card number ZZZZ is ignored. The aircraft/munition mix on card ZZZZ should be corrected.

***** MUNITION ITEM CODE NOT IN ACAVL FOR CARD ZZZZ

A munition item code on card ID 2601, types 2 and 3, was not loaded into the munition portion of the ACAVL table. The table is full. Card number ZZZZ will be ignored, as will all subsequent cards with unique munition item codes. The excess card ID 2601, types 2 and 3, should be deleted.

***** NO A/C ITEM CODE GIVEN ON INPUT CARD XXXX

The aircraft item code given on card ID 2602, card type 2, was omitted. The card will be skipped.

***** NO A.D. ITEM CODE IN INPUT CARD XXXX

The air defense weapon type on card ID 2603, card type 1, is not present. This card will be skipped.

RECORD NUMBER XXXXX DID NOT READ IN

A DIVWAG input/output error was encountered upon an attempt to retrieve record XXXXX from data file 27. Processing will continue. The record number should be checked against the file name table. If not within the file, the variables used for computation of record number should be checked.

**** RECORD NUMBER XXXXX DID NOT WRITE OUT

A DIVWAG input/output error was encountered upon an attempt to put record number XXXXX onto data file 27. Processing will continue, but results will be erroneous. The record number should be checked against the file name table. If not within the file, variables used for computation of record number should be checked.

b. Routine SNATCH:

I/O ERROR IN SUBROUTINE SNATCH. IER = XX

DIVWAG input/output error type XX was encountered in a GETRCD or PUTRCD to data file 26. Processing will continue but the results will be unpredictable. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of the error code.)

12. SUPPRESSION:

a. Routine SPRSLD:

***** FORCE NOT PROPERLY DESIGNATED - X -

The force designator X as defined on card ID 801 or 802 for the SPRSLD program is not R or B. The card will be ignored. The force designator should be corrected.

**** I/O ERROR IN SUPPLD - FILE XXX IER = YYY

A DIVWAG input/output error type YYY occurred upon an attempt to access data file XXX. Processing stops. (Refer to DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code).

**** THE UTD XXXX IS NOT IN THE TOE FILE

The UTD XXXX as defined on card ID 801, type 1, for the SPRSLD program is not on the UTD directory file. This UTD will be ignored for processing. The UTD should be corrected or deleted.

b. Routine SUPDMP:

***-- I/O ERROR IN SUPPDP - FILE XXX IER ZZ

A DIVWAG input/output error type ZZ occurred upon an attempt to access data file XXX. Processing stops. (Refer to DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.

13. NUCLEAR ASSESSMENT:

a. Routine FLD30:

CARD TYPE MUST BE BETWEEN 1 AND 6 BUT IS XXX ON CARD ZZZZZ

Other than card type 7 all cards are grouped in six decks with a header (1-6) card identifying each deck. Cards are out of order or header card is missing. Cards will be read until proper header card is identified, then processing will continue. The card order should be corrected and the job rerun.

GROUP NO. XX HAS A BAD DAMAGE RADIUS. CARD NO. XXXXX

The friendly or enemy damage index as entered in card ID 3011, type 3, group XX of card number XXXX must be from 1 to 30. The equipment type of this group and its associated vulnerability data will be ignored, and processing will continue. The friendly or enemy damage index of this card should be corrected.

PART XX HAS A HOB LESS THAN ZERO. CARD NO. XXXXX

If XX equals 1, the left height of burst on card ID 3011, type 2, card number XXXX is in error. If XX equals 2, it is the right height of burst that is in error. The height is set to zero and processing continues. The height of burst should be corrected on card type 2.

GROUP NO. XX HAS A BAD EOH NO. CARD NO. XXXXX

Equipment type as input on card ID 3011, type 3, group XX card number XXXX must be from 1 to 200. This equipment type and its associated vulnerability data are ignored, and processing continues. This entry should be deleted or corrected.

GROUP XX HAS CRITERIA POINTER OUT OF RANGE. CARD NO. ZZZZZ

A Blue or Red weapon damage index as entered on card type 4, ID 3011, card number ZZZZZ must be from 1 to 30. This card will be ignored. The index should be corrected.

GROUP NO. XX HAS NEG. TRANS FACTOR. CARD NO. XXXXX

The radiation transmission factor as input on card ID 3011, type 3, group XX on card number XXXX must be a positive number. The equipment type of this group and its associated vulnerability data are ignored, and processing continues. This group should be deleted or the transmission factor corrected.

GROUP NO. XX HAS WRONG CODE FOR ASSES. CARD NO. XXXXX

Assessment type code must be A for equipment in flight or S otherwise. Card ID 3011, type 3, group XX, and card number XXXX has an erroneous assessment type. The equipment type of this group and its associated vulnerability data will be ignored, and processing will continue. The assessment type on this card should be corrected.

GROUP NO. XX REDEFINING AN EOH LINK. CARD NO. XXXXX

The equipment type of this group has been defined twice. This group will be ignored, and processing will continue. The item code may be mispunched. This group should be corrected or deleted.

XXXX HAS ALREADY BEEN DEFINED. CARD NO. ZZZZZ

This munition type on card ID 3011, type 1, for numeric specification or preset values has already been defined. The card will be bypassed.

INDEX FOR WEAPON OR WARHEAD EOH IS OUT OF RANGE. CARD NO. XXXXX

Weapon or ammunition EOH code must be between 1 and 200 on card ID 3011, type 1. Card will be bypassed. The EOH code should be corrected.

X IS NOT THE CORRECT TEAM COLOR. CARD NO. ZZZZZ

The card is either a header card, out of order, or the force designator is not B or R. Processing will continue to edit cards. The force designator or order of cards should be corrected.

THE ANGLE AND VELOCITY MUST BE GREATER THAN ZERO. CARD NO. XXXXX

If the weapon type is an air delivered nuclear round, the delivery velocity and angle must be greater than zero (card ID 3011, type 1). This card will be bypassed. The delivery type or angle and velocity should be corrected.

THE ARRAY OF BARRIER DAMAGE POINTERS IS FULL. CARD NO. XXXXX

There are a maximum of 30 barrier/facility vulnerability entries as loaded on card ID 3011, type 4. All over 30 will be ignored. The excess entries should be deleted.

THE ARRAY OF WEAPON STATISTICS HOLDS ONLY 100. CARD NO. XXXXX

The array that holds the various type weapon statistics loaded from card ID 3011, type 1, is full. All the remaining cards type 1 will be bypassed. Type 1 cards should be limited to 100.

THE CODE XXXX HAS BEEN DEFINED ALREADY. CARD NO. ZZZZZ

One of the barriers or facilities on card ID 3011, type 4, card number ZZZZZ has already been defined. This card will be ignored. The barrier or facility mnemonic should be changed or deleted.

THE FIRST CARD MUST BE TYPE 7

The logic of the routine requires that card type 7 (Radiation Barrier) must be loaded first. Processing will terminate. Card decks should be placed in correct order. There is only one card type 7.

THE FUZE ARRAY IS FULL. CARD NO. XXXXX

The munition type array (WWNAME) loaded from card ID 3011, type 1, is limited to 1200 types. This card will be bypassed. Munition types should be limited to 1200.

THE HOB OPTION IS NOT BETWEEN 1 AND 4. CARD NO. XXXXX

The height of burst option on card ID 3011, type 1, must be off (zero) or between 1 and 4. If not, the card will be bypassed. The height of burst option should be corrected.

THE HOB SPECIFIED IS LESS THAN ZERO. CARD NO. XXXXX

The height of burst on card ID 3011, type 1, is less than zero. The card will be bypassed. The height of burst should be corrected to a positive number.

THE IMPACT DETONATION FLAG MUST BE ZERO OR ONE. CARD NO. XXXXX

The impact detonation flag on card ID 3011, type 1, must be zero or one. The card will be bypassed. The impact detonation flag should be corrected.

THE NAME ARRAY IS FULL. CARD NO. XXXXX

The munitions type array (CNAME) which is loaded from card ID 3011, type 1, is full. There is a maximum of 1200 munition types. The card will be bypassed. Munition types should be limited to 1200.

THE RADIUS INDEX IS OUT OF RANGE. CARD NO. XXXXX

The radius or damage index input on card ID 3011, type 2, for each munition type must be between 1 and 30. The card will be skipped. The damage index should be corrected in card columns 8 and 9.

THE TIME TO ATTAIN THIS POSTURE IS NEG. ON CARD XXXX

On card ID 3011, type 6, card number XXXX the time to reassume an unwarned posture after being warned has been entered as a negative number. The card is ignored. The negative entry should be corrected.

THE YIELD CODE HAS BEEN ASSIGNED ANOTHER YIELD. CARD NO. XXXXX

This yield code, which is loaded from card ID 3011, type 1, fourth character of munition type, has already been defined. The card is skipped. The card should be deleted or the yield code changed.

THIS YIELD IS NOT RELATED TO ANY WARHEAD. CARD NO. XXXXX

There has not been a corresponding yield input for weapon type on card ID 3011, type 1. This card will be skipped. The card type 1 (weapon munition characteristics) and card type 2 (nuclear weapon effects) must correspond as to yield.

THE YIELD SHOULD BE GREATER THAN ZERO. CARD NO. XXXX

The yield in kilotons as entered in card ID 3011, type 2, must be greater than zero. The card should be checked and the yield corrected.

THE YIELD TABLE IS FULL. CARD NO. XXXXX

There are a maximum of 30 yield codes as input from card ID 3011, type 1. The card is bypassed. Yield codes should be limited to 30.

THERE IS A BAD ACTIVITY INDEX OR PERCENT. CARD NO. XXXX

Within card ID 3011, type 5, card number XXXX there is a bad percent for personnel in open areas, fox holes, or earthern shelters or a bad activity index. The activity index must be from 2 to 7. The card is skipped. The percent values and activity indexes on the card should be checked.

THERE WERE NO ACCEPTABLE TYPE ONE CARDS.

Either there were no ID 3011, type 1 cards or all were ignored for data errors. See any previous card type 1 errors for data errors. Processing stops. The data errors should be corrected or type 1 data cards entered.

WRONG TYPE CODE IN WEAPON/WARHEAD NAME. CARD NO. XXXXX

Card ID 3011,type 1, has wrong type code in weapon type name. It must be N or D. Card will by bypassed. The type code should be corrected.

b. Routines CKARY, DMP30, LTRCK, and NUCLD. These routines have no diagnostics.

14. MOVEMENT:

a. Routine DPMOVE:

**** MOVELOAD HAS I/O ERROR XXX ON FILE YYY

The DIVWAG Input/Output Package Error Conditions (Chapter 7 of this section) describe this error code. Processing stops.

b. Routine LEGALM:

**** NO DATA CAN BE INPUT FOR AN ADMINISTRATIVE MOVE WITH THIS ROUTE TYPE XXXX

The illegal move mnemonic ARD--or ACC--has been input on the 1402 (Mobility Class Exclusion Table) type card. The card will be skipped and processing continued. The 1402 card description within the movement load input requirements should be checked for move mnemonics.

**** THIS IS NOT A LEGITIMATE TRAVEL MODE MNEMONIC - XXXX

The movement mnemonic XXXX on card type 1402 (Mobility Class Exclusion Table) type card is not legal. The card will be skipped, and processing will continue. The 1402 card description within movement load input requirements should be checked for legal move mnemonics.

c. Routine MOBCAT:

**** BLANK MOBILITY CATEGORY CODES ARE NOT ALLOWED

The mobility category on the 901 (UTDs associated with the category) or the 1902 (unit cross country movement rate) type card cannot be blank. The card is skipped, and processing continues. Card descriptions should be checked for mobility categories.

d. Routine MOVELD:

**** A FOOT MOVEMENT MOBILITY CATEGORY CROSS COUNTRY RATE TABLE WAS NOT INPUT FOR THE X FORCE.

The foot movement cross country rates were not input for the X force. The Movement load input requirements should be reviewed for the number of different cards required for cross country movement. The data entered in the 1902 card format must be in response to that entered in the 1401 card format. Processing continues.

*** A TABLE WAS INPUT FOR THE UNDEFINED COMBINATION WXYZ. IT CANNOT BE USED.

The combination for movement category W, formation X, road conditions Y, and force Z is undefined. The 1401, 1403, and 1901 card type description within the Movement load input requirements should be checked. Processing continues.

**** A TANK DEPLOYED MOBILITY CATEGORY CROSS COUNTRY RATE TABLE WAS NOT INPUT FOR THE X FORCE.

The tank movement cross country rates were not input for the X force. The Movement load input requirements should be reviewed for the number of different cards required for the cross country movement. The data entered in the 1902 card format number must be in response to that entered in the 1401 card format. Processing continues.

*** BAD CARD ID - XXXX

The card ID XXXX is not of a type acceptable to the MOVELD program. The description of MOVELD data cards within the Movement load input requirements should be checked. The card is skipped and processing continues, but the results will be unacceptable.

*** BAD EOH NUMBER - XXXX - IN MOBILITY CLASS XXX

The EOH number as read from the 902 type (mobility classification) or the 1501 type (vehicular fuel consumption rates) cards is not within the prescribed range. EOH numbers must be between 1 and 200. Processing continues, but EOH numbers should be corrected.

*** BAD FORMATION CODE X - TABLE NOT LOADED

The formation code input on card ID 1901, card column 4, is not "M", "R", or "D". The card will be ignored. The Movement load input requirements should be checked for formation codes as required for unit road movement rate cards (ID 1901). Processing continues.

*** BAD LIGHT - WEATHER CODE - XXX -

The light/weather code as input on the 1902 (unit cross country movement rate) or 1404 (vehicular cross country movement rate) type cards is not defined. Processing continues. The Movement load input requirements should be checked for a description of 1902 or 1404 type cards for acceptable light/weather codes.

**** FORCE NOT PROPERLY DESIGNATED - X -

The force designator as input on a data card is not "R" or "B", but X. Processing continues. A card could be out of order.

***-- I/O ERROR IN MOVELD - FILE XXX, IER XX

DIVWAG Input/Output Package Error Conditions (Chapter 7 of this section) describes this error code. Processing stops.

**** NO TABLE WAS INPUT FOR THE DEFINED COMBINATION W (CATEGORY) X (FORMATION) Y (ROAD/CC)

For movement category X formation X and road condition Y no corresponding table was input. The 1401, 1403, and 1901 card type description within the Movement load input requirements should be checked. Processing continues.

*** THE DEFAULT MNEMONIC TCCD WAS NOT DEFINED FOR FORCE X

The default mnemonic for travel mode (TCCD) was not defined for the X force. Processing will continue. The description of the 1401 type card within the Movement load input requirements should be checked.

**** THE EQUIPMENT ITEM XXXX WAS IN MOBILITY CLASS XXX

The equipment item XXXX was previously input for mobility class XXX. Processing continues. The item code on 902 (mobility classification card) type card should be corrected.

*** THE FIRST MOBILITY CLASS IS RESERVED FOR FOOT MOVEMENT. THE FIRST ENTRY IN THIS TABLE IS GREATER THAN 7 OR LESS THAN OR EQUAL TO 0 KM/HR. XXXX XXXX FORCE = Z.

The first entry into the cross country movement rate table or road movement rate should be for foot movement. Processing continues, but card types 1901 or 1902 should be corrected.

**** THE MOBILITY CATEGORY CODE X HAS NOT BEEN DEFINED FOR FORCE Y

The mobility category codes on card type 1401, card column 14, did not include a type X (either F for infantry foot or T for tank mechanical cavalry) for the Y force. Processing continues, but input should be corrected to include the lacking mobility category code.

**** THE MOBILITY CLASSES ARE 1-20 NOT XXXX

The mobility classes as defined on the 902 (mobility classification) or 1903 (vehicular road movement rate) type cards must be from 1 to 20. The card is bypassed, and processing continues.

**** THE UTD - XXXX IS NOT IN THE TOE FILE.

The UTD as found in the unit type designator by mobility card (ID 901) or in the mobility exclusion card (ID 1402) are not on the UTD file (data file 51). The possible UTD on data file 51 should be checked. Processing continues.

*** THIS UTD - XXXX - WAS PREVIOUSLY IN MOBILITY CATEGORY Y

The UTD XXXX was previously assigned to mobility category Y. It will also be assigned to the present mobility category. Processing continues.

*** TRAVEL MODE INDEX BAD XXXX

The travel mode index XXXX as read from card type 1401, card columns 8 - 9, is not within the permissible range of 1 to 20. The card will be ignored, and processing will continue. The travel mode index should be corrected.

15. ENGINEER:

a. Routine ENGLD:

***** ACTION ERROR IN CARD ERROR IN LOAD

The task performance rates cards (card ID 1702, type 1, type 2, or type 3) have an illegal function type. Processing will continue but the load will be in error. The Engineer load data input requirements should be reviewed.

**** ACTION NOT FORCE DATA LOADED *****

The task performance rates card (card ID 1702, type 4) requires FORCE as an action code. Processing will continue, but the load will be in error. The Engineer load data input requirements should be reviewed.

***** BAD IDENT IN CARD ID. XXXX TYPE Z SEQ ZZZZ

The ZZZZth card of the data deck has a bad card ID. Processing will continue, but card number ZZZZ will be ignored.

***** BAD FILE NAME CARD ID. XXXX TYPE Y SEQ ZZZZ

The ZZZZth card of the deck has a bad card ID. Processing will continue, but card ZZZZ will be ignored.

** BAD GETWORD CALL REC. 157 XXX CARD ID ZZ TYPE YY

Upon an attempt to access words 511-560 of record 157 of data file 17 a DIVWAG input/output error of type XXX was encountered. Processing is stopped. (See the DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

** BAD PUTWORD CALL REC. 157 XXX CARD ID ZZ TYPE YY

Upon an attempt to access record 157 of data file 17 a DIVWAG input/output error type XXX was encountered. Processing is stopped. (See the DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

** BAD PUTWORD CALL REC. XXXX STATUS ZZZ CARD ID WWW TYPE YY

Upon an attempt to update record XXXX of data file 17 a DIVWAG input/output error type YY was encountered. Processing stops. (See the DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

***** BAD TYPE IN CARD ID. XXXX TYPE Z SEQ ZZZZ

The ZZZZ th card has a bad type for card ID XXXX. Processing will continue, but card number ZZZZ will be ignored.

**** ERROR. EOH TYPE XXXX NOT LEGAL

An EOH code encountered on a contingency level card (card ID 1703, type 1) was outside the EOH range of 1 to 200. Processing will continue, but the illegal EOH will be ignored.

ERROR IN CALL CREATE STATUS = XX

In attempting to create data file 17 the input/output package encountered error code XX. (See DIVWAG Input/Output Error Conditions, chapter 7 of this section, for a description of this error code.) Processing stops.

***** ILLEGAL ACTION FATAL ERR CONTINUE PROCESSING

Illegal action as entered on card ID 1702, type 3, card columns 5-12. The input requirements for the Engineer constant data load program should be reviewed to determine correct action. Processing will continue, but results will be unpredictable.

I/O ERROR FROM GETRCD EC = XX

Upon an attempt to retrieve a record from data file 17 the input/output package encountered error code XX. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.) Processing continues.

***** MORE THAN 20 EQUIPMENT CODES FATAL, TASK XXX

Within the task performance rates cards (card ID 1702, type 1) more than 20 type items have been specified as required for task XX. A limit of 20 such items is specified. Processing will continue, but all other such cards for this task will be ignored.

PUTRECD ERROR XX

During initialization of data file 17 a DIVWAG input/output error type XX was encountered. Processing continues. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error.)

***** RECESSIVE INCREMENT NO. TO LARGE COMPARED TO THE 1701 CARD WILL CONTINUE BUT ERROR IN LOADING

The recessive increment (density) entered on the task performance rate card (card ID 1702, type 2) is larger than that ente. ! on the task identification file (card ID 1701, type 1) for this task. Processing will continue, but loaded files will be in error.

***** TASK GREATER THAN 3 DATA NOT LOADED

The task performance rates card (card ID 1702, type 4) requires a task type of 3 (FORCE). Processing will continue, but the load will be in error.

THERE WERE XXXX ERRORS IN THE DATA

While processing the data cards for file 17 a total of XXXX data errors were encountered. Processing will continue, but all errors should be corrected and the job rerun.

***** WILL TRY TO CONTINUE BUT WILL SKIP NEXT CARD

The preceding error message should be read for error diagnostic.

b. Routine BARLD:

BARRIER XXXXXX IS NOT CONTINUOUS WITH PREVIOUS SEGMENT, PLEASE RECHECK COORDINATES LOADED

A barrier segment details card (card ID 0202, type 1) does not reflect a continuous barrier line segment for the same barrier. Processing will continue, but coordinates should be changed to reflect a continuous barrier.

FILE 22 TO LARGE FOR XXXXXX RECORD ZZZZ

Record number ZZZZ of data file 22 already has the maximum of 250 three-word triplets, which relate each barrier to its given location geographically. All other such entries for this barrier will be ignored, and processing will continue.

**** NO MATCH ON FILE 22, AM CONTINUING XXXXXX

Record from data file 22 did not have corresponding data file 2 record. Processing will continue, but load will be erroneous. Data requirements for BARLD program should be checked.

NO SIZE SPECIFIED FOR SEGMENT XXXXXX

A barrier segment details card (card ID 0202, type 1) does not have a size entered for barrier segment XXXXXX. Processing will continue, but the load will be in error.

THE MNEMONIC PROVIDED WAS NOT THE FIRST SEGMENT OF A BARRIER LINE: CANNOT REMOVE THIS LINE FOR XXXXXX

Data record from data file 2 for barrier segment XXXXXX following last record of previous barrier line indicated it was not first barrier segment record of new barrier line. Load will be erroneous, but processing will continue. BARLD data input requirements should be checked.

c. Routine GET17:

***** I/O ERROR FILE 17, REC. IS XXX IER = ZZ

A DIVWAG input/output error type ZZ was encountered upon an attempt to retrieve record XXX from data file 17. Processing continues. (See the DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

d. Routines BUIDRC, CRTQD, DET17, DUMP17, IDENT, IFILE, ITPCHK, and LTRCK. These routines have no diagnostics.

16. AIRMOBILE:

a. Routine FIL7LD:

I/O ERROR, IER = XX

Error type XX was encountered in the DIVWAG input/output package upon an attempt to access the file name table (IFNT), data file 7, or data file. (See the DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

- MORE THAN 15 WEAPON TYPES

The number of weapon types as entered on card ID 0751 for the Airmobile Model is limited to 15, and this limit has been exceeded. Processing will continue, but all cards with excessive weapon types will be ignored.

b. Routine SETTYP. This routine has no diagnostics.

17. COMBAT SERVICE SUPPORT:

a. Routines CSSLD and DUMP11. These routines have no diagnostics.

b. Routine EDITF1:

CARD NO. XXXX---INVALID FORCE DESIGNATOR

Card number XXXX of ID 1101, 1102, 1103, or 1104 has a force designator of other than "R" or "B". Processing will continue. The force designator should be changed.

c. Routine EDITF2:

CARD NO. XXXX---INVALID ITEM CODE

An item code as specified on card ID 1101, 1102, 1103, or 1104, card number XXXX, is not valid. Item codes must be from 1 to 200. Processing will continue. The appropriate item code should be corrected.

d. Routine EXIT:

I/O ERROR IN AAAA IER = XX

An input/output error type XX occurred at a location specified by AAAA in routine LOAD11 or DUMP11 upon an attempt to access data file 11. Processing terminates. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

e. Routine LOAD11:

CARD NO. XXXX---INVALID CARD ID

Possible card IDs for the Combat Service Support load program are 1101, 1102, 1103, and 1104. This card will be ignored, and processing will continue. The card ID should be corrected.

CARD NO. XXXX---INVALID SUPPLY CLASS

The supply class as defined on card number XXXX, card type 1102, must be from 1 to 10. An error counter is incremented, and processing continues. (See AR 310-25 for a definition of supply classes.)

CARD NO. XXXX---NO CONSUMPTION RATE ENTRIES

Card number XXXX, ID 1101, for class I consumption has no entry. Processing will continue. Class I consumption will be loaded as zero.

CARD NO. XXXX---NO TRANSPORT TIME ENTRIES

Card number XXXX, ID 1101, for elapsed time to load and unload transports has no time entries. Processing will continue. Times will be loaded as zero.

CARD NO. XXXX---NO TRANSPORT ITEM SPECIFIED

Major end items should be unit distributed, or there are no transport EOH entries on card ID 1102. Processing will continue, and transport preference will be entered as zero.

CARD NO. XXXX---NO WEIGHT SPECIFIED

Weight per item code as entered on card ID 1102, card number XXXX, has not been entered. This card will be ignored. All items have weight. The card should be corrected by entering weight.

CARD NO. XXXX---TOO MANY DAYS

The maximum number of daily increments for resupply is 14. Card ID 1104 specifies more than 14. The card will be ignored. The day for resupply on card number XXXX should be corrected.

CARD NO. XXXX---TOO MANY TRANSPORTS

The Combat Service Support load program will support 50 transport types. There are weights and volume data on card ID 1103 for more than 50 transport types. Any excess weights and volume data will be ignored. The excess data should be deleted.

XXXXX DATA ERRORS

There were XXXXX data errors where the data will be ignored.

CHAPTER 3

ORDERS INPUT PROCESSOR ERROR CONDITIONS

1. INTRODUCTION. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG Orders Input Processor. Error messages of the DSL Compiler are described first, followed by those associated with operating instructions input.

2. DSL COMPILER. For the most part, the error messages generated by the DSL compiler begin with ** F or ** W. The F indicates the error is serious enough to be considered fatal to execution; the W indicates it is merely a warning or informative message. The variable printed in the XXX field is a counter of the number of fatal or warning messages detected. The exceptions to this format are listed first.

BAD IUIDF ARG AAAAAAAA

The UID passed to function IUIDF did not have an R or B as its first character. The programmer should be notified.

DSLINT-I/O ERROR XXX

The numeric code printed in field XXX indicates which I/O package error occurred. The programmer should be notified.

** F I/O ERROR XXX IN DSLCMP

The error code listed in field XXX indicates which error occurred in the DIVWAG input/output routines. The programmer should be notified.

FATAL ERROR IN DUMPF, GETRCD RETURNED BAD IER VALUE XXX

The value of IER printed in the field XXX will indicate which input/output package error occurred. The programmer should be notified.

ONE OR MORE FATAL ERRORS WERE DISCOVERED IN THE DSL INPUT. THE RUN WILL BE TERMINATED WITH AN ERROR MODE 1 AND THE DSL ORDER FILE WILL BE INVALIDATED

The order file is invalidated by setting the length of period and start of game/start of period flag to zero.

** F XXX A MAXIMUM OF 34 LABELS ARE ALLOWED

This message indicates an attempt was made to enter more than 34 labels after the conditional in a battle paragraph statement. The error should be corrected by entering only one label for each unit participating in the battle.

** F XXX A MAXIMUM OF 34 UNITS ARE ALLOWED IN A BATTLE

This error indicates an attempt was made to include more than 34 UIDs in the list of units participating in the battle. Some units must be deleted from the list to correct the situation.

** F XXX AN AIRCRAFT ITEM CODE GREATER THAN 200 WAS INPUT

Item codes greater than 200 may not be defined. A correct value should be supplied.

** F XXX AND AND OR MAY NOT BOTH APPEAR IN A CONDITIONAL

The clause connectors AND and OR may not both be used in the same statement. The same effect may be achieved by writing multiple statements.

** F XXX AT LOCATION MISSING FROM CLAUSE

If a weather condition is specified first in the conditional, it must be followed immediately by the AT LOCATION element.

** F XXX BAD BPOINT (XXXX) AND/OR RPOINT (XXXX)

A valid value of BPOINT and RPOINT could not be derived during the construction of the UID list from data file 1. Check the data load of that file to determine if it was loaded correctly.

** F XXX BAD MODIFIER INDEX XXX

The index assigned a modifier in the tables loaded in the block data routine is outside the range of values allowed by the DSL compiler. The programmer should be called to correct the index or increase the range. This message is printed in routine KRAKMD.

** F XXX BATTLE ID AAAAAAAA DOES NOT HAVE A BATTLE PARAGRAPH

This message indicates a unit was given an order to engage in a battle for which no battle paragraph was provided.

** F XXX BATTLE ID AAAAAAAA IS A DUPLICATE

The battle ID listed in the field AAAAAAAA was used previously in this set of orders. One of the IDs should be changed so that each will be unique.

** F XXX COLON IMPROPERLY POSITIONED OR PERIOD MISSING

Only one colon is allowed in each statement, and it must follow a statement label or one of the key words ID or BATTLE.

** F XXX COMMA MISSING IN CONDITIONAL

This statement begins with IF or WHEN, but does not contain a comma. The statement should be written correctly.

** F XXX CONDITIONAL NOT WRITTEN CORRECTLY

This message is written by routine COND when the DSL compiler cannot decode the conditional for some undetermined reason. Call programmer.

** F XXX COORDINATE PAIR MISSING OR INCORRECTLY WRITTEN

Numeric values of coordinates are expected in this conditional. The correctly written coordinates should be supplied.

** F XXX END OF FILE ENCOUNTERED READING DSL STATEMENTS

The DSL data deck must be terminated by a FINIS card.

** F XXX EXCLUSIVE MODIFIER AAA LEFT OUT

This error condition exists if no modifiers from the set of exclusive modifiers including the one printed in the AAAA field could be found in the order. Correct this condition by choosing a modifier from the indicated set and including it in the order.

** F XXX FIRST CARD IS NOT DSL CARD

The first card in the DSL data deck must be DSL, or DSL, DEBUG.

** F XXX IF/WHEN MISSING IN CLAUSE

Each clause included in the conditional must begin with one of the keywords IF or WHEN, and the same keyword must be used throughout the statement. The correctly spelled keyword should be placed in the appropriate place in the statement.

** F XXX INCORRECT CLASS SPECIFICATION A

The value in field A must be 3 or 5. The incorrect value should be replaced with the correct value.

** F XXX I/O ERROR XXX IN PASS2

The value printed indicates the type of error discovered in the DIVWAG input/output package. The programmer should be notified.

** F XXX LABEL LONGER THAN 3 CHARACTERS

The label associated with a unit order may not contain more than three characters and is terminated by a colon.

** F XXX MODIFIER MISSING BEFORE XXX

This message indicates a modifier was omitted from the order leaving two data fields abutted or the data was incorrectly written.

** F XXX MODIFIER AAAA WAS MISSPELLED

The four characters listed in field AAAA are not found in the compiler's table of modifiers. The spelling of the modifier should be corrected.

** F XXX MORE THAN XXX MODIFIERS PASSED TO KRAKMD. THE DIMENSION OF MDFX AND VALUE OF MXMDFX MUST BE INCREASED

A modification to the program must be made to correct this problem. The programmer should be called to make the indicated modifications.

** F XXX MUNITION TYPE AAAA IS MISSPELLED OR ILLEGAL

The munition type must begin with A, D, or N. The appropriate character should be supplied in the data.

** F XXX NEITHER SPEED NOR DIRECTION WAS SPECIFIED AFTER WIND

The word WIND must be followed by the modifier SPEED or DIRECTION to complete the conditional element.

** F XXX NO BLUE FORCE UNITS WERE FOUND ON FILE ONE

When an attempt was made to build an array of UIDs no Blue force units could be found on the unit status file (file 1). The data load of that file should be checked to determine if it was loaded correctly.

** F XXX NO EXCLUSIVE MODIFIERS WERE INPUT

One modifier from each list of exclusive modifiers must be included in the statement.

** F XXX NO EXCLUSIVE MODIFIERS WERE INPUT FROM THE LIST BARRIER, BRIDGE, FACILITY

One of these exclusive modifiers must be included in the order.

** F XXX NO EXCLUSIVE MODIFIERS WERE INPUT FROM THE LIST BEGIN BY COMPLETE BY

One of these exclusive modifiers must be included in the order.

** F XXX NO EXCLUSIVE MODIFIERS WERE INPUT FROM THE LIST FOR, UNTIL

One of the modifiers listed must be present in this order.

** F XXX NO VALUE INPUT FOR M ON LENGTH OF PERIOD CARD

The LENGTH OF PERIOD card must contain the period length in minutes. No numeric data could be found on the card.

** F XXX NO VALUE INPUT ON START OF PERIOD CARD

The START OF PERIOD card must contain the game time the period is to begin. No numeric data were found on the card.

** F XXX NOT A LEGAL ORDER AAAA

The four characters listed do not match any mnemonics contained in the DSL compiler's list of orders. The spelling of the order should be checked.

** F XXX NUMERIC VALUE OF EQUIPMENT TYPE MISSING

The EQUIPMENT TYPE clause element must be followed by a numeric value. The correct value should be supplied.

** F XXX PERIOD CANNOT START BEFORE DAY 1

The DAY portion of the time date should be corrected on the START OF PERIOD card.

** F XXX PERIOD LENGTH CARD MISSING

The PERIOD LENGTH card must be the second or third card in the DSL data deck. Spelling errors should be checked or missing card supplied.

** F XXX QUANTITY DATA MISSING

A numeric data element is expected in the conditional. The element should be supplied.

** F XXX REQUIRED MODIFIER AAA LEFT OUT

This error message is written if a modifier required by an order could not be found in the statement. The first four characters of the modifier are written in the AAAA field. The properly spelled modifier should be included in the order to correct the error.

** F XXX START OF PERIOD CARD MISSING

The second or third card in the DSL data deck must be the START OF PERIOD card. Spelling errors should be checked or the missing card supplied.

** F XXX STATEMENT NOT LEGAL TYPE OR OUT OF ORDER

This statement could not be recognized by the DSL compiler. Spelling or punctuation errors should be suspected.

** F XXX THE COORDINATE PAIR IS NOT CORRECTLY WRITTEN

Data describing X-Y coordinate pairs must be written with a "-" separating the values of X and Y and a comma separating the pairs. The necessary correction should be made.

** F XXX THE BATTLE PARAGRAPH FOR AAAAAAAA CONTAINS NO CONDITIONAL

Each Battle Paragraph must contain at least one statement describing a condition under which the battle is to be terminated. A meaningful conditional should be supplied.

** F XXX THE LABEL AAA IS FOLLOWED BY THESE EXTRA CHARACTERS AA...

This message is written if after storing three characters for the label listed in field AAA, the next character in the statement is not a comma. The extraneous characters are listed in field AA... . The statement should be checked to assure that all labels contain no more than three characters and are separated by commas.

** F XXX THE LOGICAL OPERATOR IS MISSING OR MISSPELLED

A logical operator element is expected in this statement. The correctly written element should be supplied.

** F XXX THE NUMBER OF LABELS (XXX) IS NOT EQUAL TO THE NUMBER OF UNITS (XXX)

One and only one label is to be included in the statement for each participating unit.

** F XXX THE UID AAAAAAAAAA IS FOLLOWED BY THESE EXTRA CHARACTERS AA...

This error message indicates the UID listed in field AAAAAAAA was followed by the extraneous characters listed in field AA... . This error should be corrected by using only the eight characters that are part of the UID.

** F XXX THEN MISSING OR SPELLED INCORRECTLY

The last conditional clause must be followed by THEN. This term separates the conditional and the order.

** F XXX THIS CONDITIONAL CANNOT BE RECOGNIZED. CHECK SPELLING AND/OR SYNTAX

This message is written when the first conditional element cannot be recognized. The element should be rewritten correctly.

** F XXX TIME DATA IS MISSING

The statement must contain data defining the time associated with the time modifier or conditional element.

** F XXX TIME INPUT IS BEFORE BEGINNING OF PERIOD

The time data should be corrected in the order.

** F XXX TOO MANY CHARACTERS IN THIS STATEMENT (GT XXX). CHECK FOR MISSING PERIOD

A statement may not be composed of more than the indicated number of characters including the period. The statement should be checked to see if a period was inadvertently omitted causing two statements to be considered as one.

** F XXX TOO MANY EXCLUSIVE MODIFIERS

Only one exclusive modifier may be chose from a given list.

** F XXX TOO MANY EXCLUSIVE MODIFIERS FROM THE LIST BARRIER, BRIDGE, FACILITY

All but one of these exclusive modifiers must be excluded from the order.

** F XXX TOO MANY EXCLUSIVE MODIFIERS INPUT FROM THE LIST BEGIN BY, COMPLETE BY

All but one of these exclusive modifiers must be excluded from the order.

** F XXX TOO MANY EXCLUSIVE MODIFIERS WERE INPUT FROM THE LIST FOR UNTIL

Only one of the exclusive modifiers listed may be present in the statement.

** F XXX TYPE MUST BE ALPHABETIC

The data field containing the UTD of the unit to be detached may not contain numeric characters and must be four characters in length.

** F XXX UNDEFINED ORDER NUMBER (NORD) XXX

This error is printed if the numeric code associated with an order cannot be recognized by the routine UNTORD. The programmer should be notified.

** F XXX UNIT ID AAAAAAAA HAS LESS THAN 8 CHARACTERS

The UID listed in field AAAAAAAA does not consist of eight characters. Characters should be added to the UID so it will be composed of eight characters.

** F XXX UNIT ID AAAAAAAA IS A DUPLICATE

The UID listed in field AAAAAAAA has already been assigned to a unit scenario. One of the UIDs should be changed so that each is unique within this set of orders.

** W XXX A MAXIMUM OF SEVEN PAIRS OF COORDINATES MAY BE INPUT FOR A RECON ORDER OR 4 PAIRS FOR AIRMOBILE ASSAULT. EXTRA PAIRS WILL BE IGNORED

This message is printed as a warning that the order could not be executed as written.

** W XXX BARRIER MNEMONIC DOES NOT CONTAIN 3 NUMERIC CHARACTERS

Barrier mnemonics must contain three alpha and three numeric characters. A correct mnemonic should be supplied.

** W XXX FOG INDEX IS GREATER THAN 1. AAAAA

The value of the fog index must be 0 or 1.

** W XXX NO MODIFIER WAS FOUND IN THE FOLLOWING CHARACTER STRING AAAAA...

The DSL compiler is structured so that it searches for modifiers in a statement by segmenting it. The beginning of a segment is determined by the end of the order, or the end of the data associated with the previous modifier, and the end of a segment is determined by the next numeric data in the statement or by the end of the statement. This message indicates no modifier could be found in the segment listed. Spelling errors should be suspected.

** W XXX ONLY HALF OF THE WIDTH-DEPTH PAIR WAS INPUT

This message is printed if the dimensions of a unit are only partially defined in the advance or withdraw order.

** W XXX ONLY ONE PAIR OF COORDINATES MAY BE INPUT WITH AN ADVANCE ORDER

If more than one coordinate pair is present in an advance order statement the Period Processor may not be able to initiate the battle correctly.

** W XXX PERCENT OF CLOUD COVER OR RELATIVE HUMIDITY GREATER THAN 100,AAAAA

The value of percent input must be between 0 and 100.

** W XXXX PRECIPITATION INDEX GREATER THAN 2

The only values of precipitation index allowed are 0, 1, and 2.

** W XXX PRIORITY MAY NOT BE GREATER THAN 4

The priority will default to 4.

** W XXX TEMPERATURE GRADIENT GREATER THAN 4

The value input for the temperature gradient must be less than or equal to 4.

** W XXX THE FIRST CHARACTER IN MUNITION TYPE IS NOT A, D, OR N

A correct munition type should be supplied.

** W XXX THE FOLLOWING CARD CONTAINS NON-BLANK CHARACTERS AFTER THE PERIOD

The processing of a statement is terminated by a period. A period may have been inserted before the desired end of the statement.

** W XXX THE MOVE MNEMONIC AAAA IS NOT CORRECT

The move mnemonic codes allowed are described in Section III, Chapter 2, Appendix A. A correct code should be supplied.

** W XXX THE RECON BY CODE AAAA IS NOT CORRECT

The BY code must begin with the letter A, F, H, or M. A correct code should be supplied.

** W XXX THE X (or Y) COORDINATE IS NOT COMPOSED OF 7 DIGITS

The user's attention is called to this situation so the coordinate in question may be checked to assure a trailing zero has not been inadvertently omitted.

** W XXX THE X (or Y) COORDINATE IS OUT OF THE DEFINED AREA

One of the X (or Y) coordinates in the list has a value so large the described point is outside the area of terrain defined. If this condition occurs in a ground movement order, the unit's movement will be terminated at the edge of the defined area.

** W XXX UNIT ID AAAAAAAA DOES NOT EXIST

The UID listed could not be found in the list of units possessing unit status files.

** W XXX UNIT ID AAAAAAAA NOT RESOLUTION UNIT

The UID listed has a location of 0,0.

** W XXX VALUE OF HEIGHT OF BURST GREATER THAN 4

The height of burst must have a value of 0, 1, 2, 3, or 4. A correct value should be provided.

** W XXX VALUE OF MIX IS GREATER THAN 10. XXXX

A maximum of 10 mix tables is allowed in the constant data loaded, and the value printed in the field XXXX was input. A correct value should be supplied.

** W XXX VISIBILITY INDEX OUT OF RANGE (1-9), AAAAA

Currently, the only values of visibility index are 1 through 9. A value in this range should be supplied.

** W XXX WIND DIRECTION GREATER THAN 360 DEGREES AAAAA

The wind direction input must be between 0 and 360 degrees.

3. OPERATING INSTRUCTIONS:

a. Routine DATAST:

DATASET *** ILLEGAL SET UP CARD TYPE XX

No deck termination card or deck header card, or cards out of order. Processing continues in order to edit the cards, but results are unpredictable. The card formats and order should be checked.

DATASET I/O ERROR ON FILE 36 IER = XX

An input/output error type XX occurred upon executing a GETWRD to data file 36. (See input/output diagnostics).

* NO END OF FILE CARD READ BY DATASET

The program looks for a 99 card as the deck terminator card. None was present. This message is informative only. The deck should be checked for missing cards.

b. Routine INTLIN:

UNIT XXXXXXXX NOT DEFINED

The UID of the first unit this information is available to or the target unit's UID is not in the unit status file. Control returns to the calling routine. The UID may be mispunched.

UNIT XXXXXXXX NOT MANEUVER TYPE

The source unit for intelligence information must be a maneuver type or within a division. Control returns to the calling routine. The source UID should be changed to match these specifications.

c. Routine LDASR:

XXXXXXXX ILLEGAL UID

The unit that is trying to be updated is not on the unit status file. Control returns to the calling program. The UID may be mispunched.

d. Routine SLOAD:

I/O ERROR ON FILE 26

An input/output error occurred upon an attempt to execute PUTWRD to data file 26. Execution stops. (See input/output diagnostics.)

e. Routine VINKLD:

*** FILE 20 OVERFLOW

The sensor directory table is full and cannot accept a new index. Control returns to the calling routine. This sensor data cannot be loaded for this unit.

XXXXXXXX NOT DEFINED

The unit that is trying to be updated is not on the unit status file. Control returns to the calling routine. The UID may be mispunched.

XXXX NOT LEGAL UTD

In order to accept sensor data a unit must be a maneuver unit and be a cavalry, infantry, or armor type. Control returns to the calling routine. The UTDs should be checked for these types.

f. Routines AREA, CNVRT, and PLOAD. These routines have no diagnostics.

CHAPTER 4

PERIOD PROCESSOR ERROR CONDITIONS

1. INTRODUCTION:

a. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG Period Processor. Each paragraph is devoted to the diagnostics of a major model or component of the processor.

b. In the Period Processor, each time there is a call to an input/output routine the value returned in the variable IER is checked. If IER does not equal the value expected (in almost all cases this expected value is 1), a call to subroutine XXIT is made. XXIT examines the value of the first argument (IALFA) to determine if the call is for a restart dump, end of normal period, or a computer run time limit. If IALFA is not equal to one of these control values, XXIT calls for a dump of core and then calls routine EXIT1 to terminate the run. Figure VIII-4-1 lists the IALFA values in the calls to XXIT and the routine from which XXIT is called.

2. EXECUTIVE CONTROL:

a. Routine ARCNRL:

** AIRBASE CANT ACCEPT TRANSPORT AAAAAAAA(UID) AAAA(UTD)

This message occurs if, during a DSL accept transport mission, the airbase asked to accept the transport has H or Y as the fourth character of the unit's UTD; i.e., the unit is an Army helicopter base or an Air Force unit. This error is nonfatal, as are all others generated with diagnostics from this routine, but it will result in a stay event for the airbase given the order. If this error has significant impact upon the rest of the period, the DSL should be recompiled and the order given to an acceptable air base.

** AIRBASE CANT RELEASE TRANSP AAAAAAAA(UID) AAAA(UTD)

This message is identical to the preceding one, but it pertains to the release DSL order.

*** AAAAAAAA(UID) CANT RETAIN ITEM IIII(EOH No.)

This message occurs if the item code of the item to be retained in the unit given the DSL order is not listed in the first nine words of record 307 for Blue, 615 for Red, on File 26. These words contain the item codes of the ACAVL table as filled by OPERINS. To correct the problem, OPERINS should be reloaded, ensuring that a match is loaded for this aircraft item code.

Routine	IALFA	Routine	IALFA	Routine	IALFA
INCEXC	none	BTA	BTA	MPRUPD	MNUP
COLLCT	CLCT	SEG5	SEG5	EQPT	EQPT
CPDT	CPDT	GCDRVR	none	ERELEA	ERLS
PROCES	PROC	GCM	GCM	EFEASI	EFEA
DECIDT	none	GSETUP	STUP	FESBIL	FEAS
UTSR	none	STRBAR	RBAR	MPRALC	MPLC
SUTR	none	DNUMBR	none	STUNIT	STUN
IAR	none	GCFIRE	none	SET37	ST37
ARESPO	none	GCKILL	none	UNTORG	UNTO
DECIDE	DECD	GCKLL1	none	CREA16	CR16
UPSENR	UPSE	GCTDET	none	GEOM	GEOM
AIRGND	none	GPKILL	none	ENUCLE	ENUC
BTF	BTF	MURFAC	none	NUCSCH	NUCH
CCOLLM	COLM	GLEG	none	OBSRCH	OBSH
ATB	ATB	GUPDAT	GUPD	COMPR1	CMP1
AVAIL	none	GCLAST	GLST	INCRCL	none
LIMITS	none	GBKEEP	none	BUIDRC	none
PREPTM	none	ENGR	ENGR	SG1201	none
TIMES	TIMS	IRECN1	RCMN	UPRMPT	UPRM
SELECT	none	EPRIOR	EPRI	ASUNIT	ASUN
ENRATA	ENRA	PRORTY	PRTY	STUPRO	STUP
TORA	TORA	EUPDAT	EPDT	NASEOH	NASE
INRUPT	INRT	EQPTUP	EQUP	NBARAS	NBAR

Figure VIII-4-1. Calls to XXIT Generated by Input/Output Status Check (Contined on Next Page)

Routine	IALFA	Routine	IALFA	Routine	IALFA
BARUPE	BARU	REDCLK	none	MOVEDT	MVDT
NFIRE	NFRE	MINGET	none	MVPATH	MVPT
NCUNIT	NCUN	XXIT	none	OVER13	none
BAMUNT	BAMU	RANDU	none	SUPRES	SUPS
NAM	none	RAND1	none	MOVE	MOVE
BANCIR	none	EVTSET	none	AREAFR	FIRE
CFUN	none	IOTERN	none	AKILL	none
NAM1	none	IOWETH	IOWT	OVER9	none
HEMOVN	none	INITAL	INIT	AFTFC1	AFT1
FNDLOS	none	SETCLK	none	AFTFC2	AFT2
NASPER	none	DSLINT	DSLI	CCOLLF	COLF
FNDLNK	none	COMMDP	none	CKINT	none
NPEPL	none	EXIT1	none	CIRINT	none
NAM2	none	UTILDP	none	IQANGC	none
BARNUM	none	SET41	none	WORKIT	none
SUPSCH	none	ESR	ESR	PLNINT	none
BURST	none	GCMDT	GCDT	ZONE	ZONE
NDRD	none	ENGORD	none	SERSUP	CSS
NAM4	none	ARCNRL	ACNT	FETCH	CSS
MAIN	none	FRCORD	none	MISOUT	CSS
MINUET	MNUT	FIREDT	FRDT	RESLVE	CSS
STAY	STAY	NFIRDT	NFDT	BOFILE	BOFI
EAT	EAT	MOVESR	MVSR	SUPFIL	SUPF

Figure VIII-4-1. Calls to XXIT Generated by Input/Output Status Check (Continued)

Routine	IALFA	Routine	IALFA	Routine	IALFA
EVTFIL	EVTF	GETSTD	GSTD	RLEASE3	REL3
TRNTIM	none	ISTREF	none	RLEAS4	REL4
CSSANL	none	RECEND	RCND	SETTYP	none
TRFR	TRFR	RECHOM	RECH	PENRAT	ASGN
ASSUME	ACO	RECON1	RCN1	RREXEC	none
BIAS	EXTR	RECON2	RCN2	RRFRRA	FRRA
BOFIL2	BOFI	RECON3	RCN3	RRQUE	FRRQ
EVTFL2	EVTF	RECN3B	RCN3	RATIM	none
DETACH	DETC	IRCSRC	IRCS	RRFLD	FRRF
DTCH31	DT31	SHTDWN	SHOT	REFUEL	REFL
ASSIGN	ASGN	AMBLEX	none	RRTURN	FRRT
JOIN	JOIN	ACCPT	ASLT	ATTDVR	GTAA
JOIN31	JN31	ACCPT1	ACP1	MORS	none
RCMAIN	RECM	ACCPT2	ACP2	MES	MES
ITGTX	none	ACCPT3	ACP3	SIS	SIS
NSUBS	none	ASULT	none	GASRCH	none
XYSUBU	none	ASULT1	AST1	GTAA	GTAA
NUMTGT	none	ASULT2	AST2	LOSSES	GTAA
RECONN	none	ASULT3	AST3	ATGA	none
RECDMP	RCDP	ASULT4	AST4	CIRCLE	none
RCONDT	RECO	RLEAS	RELS	UPMASK	UMSK
MOVREC	MVRC	RLEAS1	REL1	UPDVUL	UPDV
GETSTS	GSTS	RLEAS2	REL2	CCOLLM	COLM

Figure VIII-4-1. Calls to XXIT Generated by Input/Output Status Check (Continued)

Routine	IALFA	Routine	IALFA	Routine	IALFA
OASSES	none	PACK28	none	SEARCH	none
SENSRH	none	BLKDAT	none	GETWRD	none
SASSMT	SASM	INTCHR	none	PUTWRD	none
BSUIDL	BSUI	KHAR	none	WORD	none
DBSR	DBSR	MVCHAR	none	GETRCD	none
DOSR	DOSR	ARCTAN	none	PUTRCD	none
TRUTH	none	CHORD	none	RECORD	none
WETTHR	none	DISTPL	none	GETFLF	none
SNATCH	none	DSTPL1	none	PUTFLE	none
CRTQD	none	INTSPT	none	FILE	FILE
MISUNT	none	PONTLN	none	TRNSMT	none
ELEVAT	ELEV	DNORM	none	GETPUT	GETP
EOH2OT	EOH2	ENORM	none	CREATE	none
PUTOUT	PUTO	FNORM	none	REMOVE	none
SCORE	SCOR	INTPOL	none	ADDRCD	none
BUFFIN	BUFI	RANGEF	none	SHFTDN	none
BUFOUT	BUFO	RANK	none	ILLEGAL	ILLE
GET	GET	RANKA	none	FSL	none
PUT	PUT	SCALE	none	NCOMP	none
ADDUNT	ADDU	CELLST	none	OPENMS	none
IUIDF	IUDF	LOS	none	MASSIO	none
KPICK	none				

Figure VIII-4-1. Calls to XXIT Generated by Input/Output Status Check (Concluded)

AAAAAAAA(UID) DIVISION TTTTT(IUID) HAS NO TARGET NO. IIIII(RPT No.)

This message occurs when the target number specified by a DSL MISSION IS order cannot be located as a report number on the division's intelligence report record on File 43. The most common occurrence of this error is when either the intelligence report is misread or the target number is mispunched in DSL. Both sources should be rechecked against one another and the DSL corrected. If advisable, the period should be rerun.

** NO TRANSPORT TO RELEASE AAAAAAAA(UID)

This message occurs if the AIRDAT table's first entry is zero, implying no transports are on hand for this unit; therefore, the release order is not processed, and a stay order is given.

** NOT AIRBASE - CANT RETAIN AAAAAAAA(UID) AAAA(UTD)

If the fourth character of the UTD is neither H or Y for a retain order given an airbase, this message is printed. The H or Y implies an airbase, and if the unit given the order is not an airbase, it cannot retain any aircraft. To correct the problem, the DSL must be recompiled to give this order to an airbase.

** UNIT HAS TRANSPORT AAAAAAAA(UID)

This message indicates that the airbase given the accept transport order already has transports on hand as identified by the first word of the unit's AIRDAT table. If the unit already has transports, the accept order should not have been given since it would not be necessary; therefore, the unit is given a stay and may later process an assault order.

b. Routine ESR:

NORD NOT RECOGNIZED - STAY IIIII IIIII AAAAAAAA

When the event scheduling routine does not have a legal order code, this message is printed, which includes the bad NORD value, the unit number, and the unit identification of the unit being processed. After the line of print, the unit is given a stay for 15 minutes from the current game time, and processing continues. This error is nonfatal.

*** RECON UNIT AAAAAAAA INCORRECT BY-CODE AAAA

This message comes from ESR when it is scheduling a reconnaissance order and has an incorrect BY code. The unit is given an immediate stay until the end of the period. This error is nonfatal.

*** TERMINATE ORDER ENCOUNTERED AAAAAAAA

When a unit with a NORD = 37 is encountered this message is printed, including the unit identification of the unit. The length of the period is then shortened to TCLOCK - 1, the unit is given a stay, and processing continues to routine MINUET, where the period will then terminate normally. This feature is primarily used when the Ground Combat Model or the Nuclear Assessment Model determine that the conditionals to end the game have been met.

c. Routine EVTSET:

*** EVENT TABLE FULL

This line of print from the routine EVTSET occurs when the first search through the EVTBLE array of automatic events is full, and thus there is no room to store the scheduling of an event. After this message is printed, a second search through the EVTBLE array of automatic events is performed searching for the INCS event (event code 9) that is scheduled the farthest into the future. This event is then deleted and the calling event is scheduled.

3. UNIT REPRESENTATION:

a. Routine ASSIGN:

CANNOT SUPPORT UNDEFINED UNIT XXXXXXXX

The unit XXXXXXXX is not in the unit status file and thus cannot be supported. Control returns to the calling routine. UID should be corrected on assignment order.

XXXXXXXX SUPPORTED BY MORE THAN 10 UNITS

This assignment order would exceed the maximum number of ten of supporting UIDs. Control returns to the calling routine. The assignment order should be deleted.

UNABLE TO FIND OLD SUPPORT TYPE ZZ BY XXXXXXXX IN STATUS FILE OF YYYYYYYY

The unit status file record of unit YYYYYYYY does not carry the support code that unit XXXXXXXX should be providing. Processing continues; however, there is an error in the support linkage between the two units.

b. Routine ASSUME:

XXXXXXXX CANNOT ASSUME UNDEFINED UNIT YYYYYYYY

The unit YYYYYYYY is not on the unit status file and thus cannot be assumed. Control returns to the calling routine. Unit UID should be corrected.

XXXXXXXX CANNOT DETACH YYYYYYYY AND ZZZZZZZZ CANT ASSUME

Unit XXXXXXXX, which is the original superior unit to YYYYYYYY, cannot detach it; therefore, unit ZZZZZZZZ cannot assume control of that unit. Control returns to the calling routine. (See diagnostics for routine DETACH, subparagraph c below.)

XXXXXXXX HAS TEN SUBORDINATES, CANNOT ASSUME YYYYYYYY

Unit XXXXXXXX, which is trying to assume control of unit YYYYYYYY, already has the maximum of ten subordinates; thus, it cannot accept YYYYYYYY as another subordinate. Control returns to the calling routine. The transfer order should be deleted.

MORE THAN 10 ECHELONS ABOVE XXXXXXXX FILE 50 WILL BE IN ERROR

While authorized and present strengths were being adjusted along chain of command more than ten echelons were found. Control returns to the calling routine. The task organization is in error.

c. Routine DETACH:

FILE 23 FULL. XXXXXXXX CANT DETACH ZZZZZZZZ TOE YYYY

New unit ZZZZZZZZ has a complex type YYYY and a unit composition record (data file 23) should be built for this unit; however, data file 23 is full. The unit thus is not detached, and control is returned to the calling routine.

FILE 23 IS INCONSISTENT FOR UNIT XXXXXXXX

The identifying IUID of the unit composition record (data file 23) for unit XXXXXXXX does not compare with the IUID of the unit. There is an error in the ECHELON routine that creates these records for complex units having no subordinates. Control returns to the calling routine.

XXXXXXXX HAS TEN SUBORDINATES AND CANT DETACH ZZZZZZZZ

This detach order requires the creation of a new subordinate to unit XXXXXXXX; however, this unit already has the maximum of ten subordinates, and this detach cannot be executed. Control returns to the calling program.

XXXXXXXX IS NON-RESOLUTION OR ZERO STRENGTH UNIT AND CANNOT DETACH ZZZZZZZZ

Unit XXXXXXXX does not have a location and has no personnel. The detaching order requires the superior unit to have a location and personnel. Control is returned to the calling routine. The superior unit has gone nonresolution from previous detachments, or it is initially nonresolution. The detach order should be deleted.

XXXXXXXX IS SUBORDINATE TO YYYYYYYY CANNOT BE DETACHED BY ZZZZZZZZ

Unit XXXXXXXX is not subordinate to unit ZZZZZZZZ; therefore, the unit cannot be detached. Control returns to the calling routine. The detach order should be corrected to be consistent with the task organization.

XXXXXXXX IS UNDEFINED CANNOT BE DETACHED BY ZZZZZZZZ

A request was made to detach an undefined unit XXXXXXXX; however, the UTD for this unit was not defined. Control returns to the calling routine. The correct UTD should be placed into the detach order.

** ORDER XXXXXXXX DETACH YYYYYYYY TYPE ZZZZ CANNOT BE EXECUTED. YYYYYYYY IS TYPE XXXX

A request was made to detach unit YYYYYYYY at full strength; however, the UTD passed did not correspond to the UTD of the unit. Control returns to the calling unit. The UTD should be corrected on the detach order.

PROGRAM ERROR. ITEM CODE XXXX GREATER THAN 100 PERCENT FOR UNIT ZZZZZZZZ

The detached unit ZZZZZZZZ has more than 100 percent of authorized of equipment type XXXX. The unit status file record for this unit has erroneous EOH data. Control returns to the calling routine.

XXXXXXXX TYPE YYYY CANNOT DETACH ZZZZZZZZ TYPE WWWW

The requested detached unit ZZZZZZZZ of type WWWW has not been created; however, the detaching unit's XXXXXXXX unit composition record (data file 23) does not contain a UTD of type WWWW and the unit cannot be created. The unit type WWWW is in error. Control returns to the calling routine.

d. Routine DTCH31:

** ERROR ** FILE 31 RECORD FOR UNIT XXXXXXXX EOH XXX NOT FOUND

The detached unit has a train's record (data file 31) for which his superior unit does not have a corresponding record. Control returns to the calling routine. Data file 31 is in error. Any previous transfer diagnostics for this unit should be checked.

** ERROR ** TOE CODE DOES NOT EXIST FOR UNIT XXXX

The UTD XXXX for the detaching unit is not on the UTD directory table (data file 51); therefore, data are not available to build data file 31 records for the detached unit. Control returns to the calling routine. The detaching unit's UTD should be corrected.

e. Routine JOIN:

COMPLEX UNIT XXXXXXXX ORDERED TO JOIN ZZZZZZZZ CANNOT BE EXECUTED

The model does not allow a complex unit to join another unit. Control returns to the calling routine. The order should be deleted.

XXXXXXXX COULD NOT JOIN BASIC UNIT ZZZZZZZZ

The model does not allow a unit to join a basic unit. Control returns to the calling routine. The order should be deleted or the unit ZZZZZZZZ changed to a complex unit.

XXXXXXXX COULD NOT JOIN ZZZZZZZZ BECAUSE ZZZZZZZZ COULD NOT ASSUME CONTROL

Control returns to the calling routine. (See diagnostics for routine ASSUME, subparagraph b above.)

XXXXXXXX ORDERED TO JOIN NONDEFINED UNIT ZZZZZZZZ

The unit ZZZZZZZZ is not within the unit status file. Control returns to the calling routine. The UID of the joined unit should be changed to a valid UID.

f. Routine JOIN31:

FILE 1 INCONSISTENCIES WHEN XXXXXXXX JOINS ZZZZZZZZ

Unit ZZZZZZZZ must be a complex unit. If it does not have a location, it must be nominal and have an UPFLAG of 2. Control returns to the calling routine. Data file 31 is in error. Any previous transfer order diagnostics attributed to these units should be checked.

g. Routine TRFR:

LOAD/UNLAOD/SUPPLY ORDER XXX GOT TO TRFR OVERLAY

Order numbers 27, 28, and 29 are load, unload, and supply orders. They are invalid for transfer. The order is ignored.

ORDER NUMBER XXX GOT TO TRANSFER OVERLAY,

Order numbers 31, 32, 34, and 35 are invalid for transfer. The order is ignored. The transfer order should be corrected.

ORDER SET TO - 1, NEXT ORDER WILL EXECUTE

This diagnostic is written as a continuation of all the diagnositcs in this routine, and a return is made to the calling overlay.

RENDEZVOUS ORDER 36 NOT AVAILABLE AT THIS TIME

The order number 36 is an invalid transfer order number at this time. The order is ignored. The transfer order should be corrected.

TRANSFER ORDER LINKING RED TO BLUE DETECTED, ORDER WAS TO AAAAAAAA NORD = XX COPUID IS BBBBBBBB

Transfer order type XX was issued to units AAAAAAAA and BBBBBBBB of opposing forces. The order is ignored. The transfer order should be corrected.

TRFR ORDER NUMBER XXX NOT AVAILABLE AT THIS TIME.

Order numbers 18 through 22 are invalid transfer order numbers. The order is ignored. The transfer order should be corrected.

4. ENVIRONMENTAL REPRESENTATION:

ELEVATE ** X Y OFF GRID

Coordinate point X,Y is not located on the elevation grid defined on data file 13. Elevation defaults to zero.

X-Y COORD NOT WITHIN A WEATHER SECTOR

Coordinate point is not within a weather sector defined on the weather data file.

5. BATTLEFIELD AND UNIT GEOMETRY:

a. Routine UPDVUL:

UTD NOT FOUND ON FILE-28

This informative message is printed by routine UPDVUL when print switch 2 is on and a dimension and distribution table has not been loaded for the unit being processed. The unit thus occupies no space and cannot be assessed.

b. Routine ZONE:

*** ZONE - TOO MANY DIVISIONS IN FORCE I

This informative message is printed by routine ZONE when elements of more than one Blue (I = 1) or three Red (I = 2) divisions were selected as front line units. This message indicates an unusual task organization or force employment.

6. INTELLIGENCE AND CONTROL:

a. Routine COLLECT:

OUT OF RANGE *ERROR* MR = (MR)

The range from sensor to target unit is computed. If the range is out of the sensor's range, either maximum or minimum, this message is printed. Control is returned to the calling routine.

b. Routine PROCES:

** NO INTEL RECD (UID) (UTD)

Routine PROCES processes new intelligence reports. The unit status file of the unit processing the new report is brought in. If the unit processing the new report has not been assigned an intelligence record this message is printed out, and control returns to the calling routine. The report is dropped at that node.

c. RECON Overlay:

AIR BASE AAAAAAAA NO EOH XXXX FOR RECON

This message is printed by RECONDT if the unit listed as the air base has no equipment with the item code printed available for the reconnaissance mission. The mission is delayed for 15 minutes before another attempt is made.

AIR BASE AAAAAAAA NO PERSONNEL FOR RECON

This message is written by RECONDT if the air base has no personnel available for the mission. The mission is delayed for 15 minutes before another attempt is made.

ILLEGAL SENSOR TYPE - AAAA

This message is printed by RECON1 if no data could be found in file 20 for a particular sensor type.

IRCSRC - NO ROOM IN EVENT TABLE

This message indicates no vacant record could be found in file 12, the automatic event file.

NO FILE-45 BLOCK AVAILABLE FOR UNIT XXXX

No available area in file 45 could be found. The mission will be aborted.

RECON UNIT AAAAAAAA HAS NO AIRCRAFT--STAY TO END-OF-PERIOD

This message is written by RECONDT when no aircraft can be found in the unit status file of the unit listed. The mission is not flown.

RECON2 - MORE THAN 30 UNITS DETECTED BY AAAAAAAA XXX

The tables allow only 30 units to be stored. When more units are detected, the unit with the fewest targets is deleted from the list.

RECON2 - NO ACFT IN UNIT. ABORT MISSION

This message is printed if no aircraft can be found in the MOHAWK mission unit. The mission is not flown.

RECON2 SECOND CHARACTER OF BY CODE IS = AA WHICH IS AN ERROR
SDELAY HAS DEFAULTED TO ZERO AND RANGE TO RANGE2

This message is printed by RECON2 if the second character of the By code given in the order is not legitimate. The reconnaissance mission will be flown with the delay and range indicated.

RECON3 - INVALID SENSOR TYPE = XXX

The sensor type listed cannot be found in the table of sensor type codes. The data loaded should be checked for errors.

RECON3 - NO AIRCRAFT IN UNIT - ABORT

This message is printed if no aircraft can be found in the mission unit. The mission is not flown.

SENSOR TYPE XXX NOT AVAILABLE - REMOVED FROM LOAD COMBINATION

This message is printed by ISTREF if the sensor type listed is not in the directory that references file 20. The data load should be checked for errors.

SUBUNIT XXX-X-X GIVEN PRIORITY OVER SUBUNIT XXX-X-X

This message is printed by RECON1 if more than 30 subunits have been detected. The table dimensions allow only 30 to be stored so the most distant subunit, defined in the last print field, is replaced by the subunit defined in the first print field.

d. Routine SASSMT:

ERROR IN SASSMT DO 71 LOOP

In routine SASSMT a call to routine SENSRH is made to determine which sensors are in the proximity of a fire mission. At least one corner

of an UGS field must be in the effects area or it should not be listed by SENSRH as being in the damage area. A search by routine SASSMT is made to determine which corners of a specific sensor are in the area of effects. If there are none an error has occurred. This message is printed, and control is returned to the calling program.

e. Routine UTSR:

*** ERROR FROM SUBROUTINE UTSR - NET = (NET) IUSET VALUE = (IUSET), (J), (NCOL)

Routine UTSR estimates the size and type of a detected unit. NET is the amount of equipment detected. IUSET is the unit size estimate table. J and NCOL are index to IUSET.

7. GROUND COMBAT:

ZERO-ZERO POWER 71 I I I:
ZERO-ZERO POWER 74 I I I:
ZERO-ZERO POWER 76 I I I:

The three prints above indicate an attempted zero to the zero power operation in routine GCTDET. This is a fatal error, so the appropriate message is printed and an adjustment is made. The number 71, 74, or 76 indicates the statement number of the program coding at which the error occurred. The remaining three numbers are indexes used to locate the error.

8. AREA FIRE. The Area Fire Model has no diagnostics.

9. TACFIRE:

** AFTFC2 - FUSRCD FULL (IUID)

This message indicates the fire unit with the specified IUID has not been entered in the TACFIRE fire unit status record because the limit of 36 fire units has been exceeded.

** AFTFC2 - NO DIV. (IUID)

This message indicates the firing unit with the specified IUID is not assigned to division TACFIRE.

NO PRIORITY ( ) ( ) ( ) ( )

This message indicates no method of attack has been loaded in the data for a target of this activity, size, and type. The words in this message are as follows:

- IUID of the target
- Estimated activity of the target
- Estimated size of the target
- Estimated type of target

NO WEAPON (UID)

This message indicates no appropriate weapon or munition type is available at the fire unit. This message is printed, and a delay time is set.

10. AIR GROUND ENGAGEMENT:

a. Routine AIRGND:

**** PENFLG = (PENFLG) INCORRECT INCOPR VALUE OF (JNCOPR)

The combination of PENFLG and JNCOPR shown does not satisfy the conditions necessary to generate a call to an Air Ground Engagement Model routine. JNCOPR is used to save the value of INCOPR while INCOPR is incremented; therefore, JNCOPR is a sequential index used to monitor which programs have been called and which are to follow. PENFLG is the penetration flag. Both JNCOPR and PENFLG come from FILE12. When this message occurs no air ground mission can take place, so control returns. INCOPR is probably incorrect in FILE12.

b. Routine ATB:

A/C TYPE (FILE12(3)) NOT IN ACAVL

The ACAVL table contains item codes of aircraft, munitions, and air defense weapons/ammunitions. The aircraft type sent through FILE12 cannot be matched to one in the ACAVL table. This is an informative message, and the program will continue.

A/C TYPE (FILE12(3)) NOT LOADED FOR MT (MT)

A search of the MTDATA table is made. This table contains the minimum resources needed for a mission's completion. If this aircraft type is not loaded for this mission type (MT) the routine returns to the air ground driver routine, AIRGND. This message is controlled by print switch 2.

ALL AIR BASES + PRIORITIES EXHAUSTED TRYING TO SATISFY MT

Routine ATB loops through all air bases trying to satisfy all priorities and requirements. This message is printed if it is not a DSL mission and the requirements cannot be satisfied. A mission reject is sent to the Intelligence and Control Model. A period history report is put out, and control is returned to the air ground driver.

ESTIMATED TARGET TYPE DOES NOT MATCH A POSSIBLE MISSION TYPE

The target type, which comes from FILE12, is checked by routine ATB against the possible mission types. If there is no match control returns to routine AIRGND (the air ground driver).

SORTIES HAVE BEEN EXHAUSTED - MISSION ABORT

When the maximum number of sorties for one period, which is gamer input, is reached this message will be printed. A period history report is put out, and control is returned to the air ground driver. If this is not a DSL mission a mission reject will be sent to the Intelligence and Control Model before returning. This message will also occur if the sortie table has not been loaded.

TWO PRIORITIES EXHAUSTED BY PREGAME LIMITATIONS

By pregame input, if priority = 0 or priority = 1, the mission will be aborted. If the mission is not DSL ordered, a mission reject is sent to the Intelligence and Control Model. A period history report is put out, and control returns to the air ground driver.

c. Routine LIMITS:

MISSION TYPE OUT OF RANGE 1-40, MT = (MT)

Routine LIMITS checks the mission type (MT) to ensure it is within its limitations. If it is not within range this message is printed, the limit flag is set to zero, and control is returned to the calling program.

d. Routine SELECT:

*** AIR BASE UNIT (UID) DOES NOT HAVE ENOUGH AIRCRAFT AVAILABLE FOR REQUESTED DSL MISSION

If the minimum requirements for a requested mission exceed the air base resources this message is printed. Control returns to the calling program.

e. Routine TORA:

ALL A/C LOST

When the mission unit has no aircraft when entering program TORA (engagement portion of the Air Ground Engagement Model) this message is printed. This most often means all aircraft were lost en route (program ENRATA). A period history engagement report is put out, and control is returned to the air ground driver.

NO DATA - INDEX = (INDEX)

The engagement results data record index is computed. This index is a function of mission type, activity of the target, and the air defense weapons posture. If no data have been loaded in the engagement results file for the index computed, this message is printed. A return event is scheduled for the mission unit, and control is returned to the air ground driver.

NOT ENOUGH A/C TO ATK TGT

If the number of aircraft remaining is less than the minimum number required to attack this target type, the mission is aborted. A return event is scheduled for the aircraft remaining, and control returns to the air ground driver, AIRGND.

11. SUPPRESSION. The Suppression Model has no diagnostics.

12. NUCLEAR ASSESSMENT:

a. Routine NBARAS:

THE BARRIER ABCD HAS NO LINK TO DAMAGE RADIUS

This routine cannot find a link for barrier ABCD to a damage radius. These links should be included in the Nuclear Assessment constant data load. This barrier cannot be assessed. The next barrier is brought in for assessment.

b. Routine NFIRDT:

800 NUC NAME WAS NOT DEFINED NABC
900 NAB1 NAB2 NAB3 NAB4 NAB5 NAB6 NAB7 NAB8 NAB9 NAB0

The munition type indicated in the DSL order cannot be found in the WWNAME array from data file 30 as loaded from columns 3-6 of the 3011 type 1 cards of the Nuclear Assessment data load. The munition type requested in the DSL order is printed on the first line followed by only the first ten munition types loaded. The fire order is aborted.

801 THE W/W WAS NOT DEFINED

The unique weapon/warhead code, consisting of the first two characters of the munition type requested, was not found in the WWSTAT array from data file 30. The fire order is aborted.

THE DATA DOES NOT ALLOW THE HOB TO BE SPECIFIED

The DSL order included a height of burst option indicator. The input data for the requested fuze has the height of burst option equal to zero (column 42 of the 3011 type 1 card), meaning that the impact radius from the DSL order will be used as the height of burst. The fire order is aborted.

THE HOB MODIFIER IS NOT ALLOWED BY THE DATA

The height of burst modifier from the DSL order does not correspond with any of the options loaded by the Nuclear Assessment constant data load. These options range from 1 through 4 and indicate which preset height of burst is to be used. The fire order is aborted.

THE REQUESTED RANGE IS WRONG

The distance from the firing unit to the desired ground zero does not fall within the minimum and maximum ranges loaded for this munition type. The fire order is aborted.

THIS FUZE WAS NOT DEFINED

Fuze data for the fuze indicated by the third character of the requested munition type cannot be found in the FAYT array of data file 30. The fire order is aborted.

c. Routine NFIRE:

802 THE REQUESTED WEAPON OR WARHEAD IS NOT AVAILABLE

The unit that was ordered to fire the nuclear round does not have the weapon or warhead in its equipment on hand. The fire order is aborted.

805 THE REQUESTED YIELD HAS NOT BEEN DEFINED

There is no entry in the CCYD array on data file 30, the yield code corresponding to the fourth character of the munition type from the DSL order. The fire order is aborted.

d. Routine SUPSCH:

806 NO ONE WAS IN RANGE OF THE DAMAGE RADIUS

This informative message is written if no units were close enough to be assessed.

13. MOVEMENT:

AAAAAAAA OUT OF FUEL

The unit listed is out of fuel and will stay for 15 minutes before attempting to move again. The message is printed by MOVESR.

*** BAD MOVE RATE XXX

The movement rate listed is less than or equal to zero. This results from bad data being loaded in the movement rate tables. A dismounted infantry rate will be used. This message is written by MOVEDT.

*** MAX LT NORM RATE XXX AAAA AAAA

MOVEDT prints this message, which lists the mobility category and UTD of the unit and the travel mode mnemonic of the movement, if the maximum rate of a nonexcluded vehicle is less than the movement rate chosen for the unit. The slower rate will be used.

*** MAX RATE NOT FOUND. USE FOOT. AAAA

No vehicular rates were found in the tables related to the UTD listed. This will occur if all types of vehicles present in the unit are excluded from the list of vehicles whose movement rates may limit the movement rate of the unit. This message is printed by MOVEDT.

MOVE OFF MAP AAAAAAAA XXX XXX

The coordinates listed are not within the area defined. The movement will terminate at the edge of the described area.

MOVEDT - NO RATE TABLE XXX AAAA AAAA

No movement rate table was loaded for the travel mode mnemonic and UTD combination listed.

MOVEDT - NO SUCH MODE XXX XXX AAAAAAAA

The unit listed may not move by the mobility category and travel mode mnemonic combination indicated.

MOVESR - CHAINING ERROR AAAAAAAA XXX IBAR = XXX CHAINED FIRST = XXX

Units waiting to cross a barrier at a facility are chained together in the order in which they are to cross. The chain has been broken. This may result in some units remaining at the facility until the end of the period.

MOVESR - NO DECISION TABLE FOR PRIORITY XXX

No breach/force decision table was loaded for the movement priority listed. The lowest priority table loaded for the unit will be used.

MOVESR - NO DECISION TABLES LOADED-UNIT CANNOT FORCE BARRIER AAAAAAAA AAAA XXXX

A breach/force decision table must be loaded for the unit whose UID, UTD, and IUID are listed if it is to be allowed to force a barrier.

NO SUCH MODE AAAA

This message is printed by MOVE if the travel mode mnemonic listed is not allowed.

14. ENGINEER:

2001 TASK UNBREACHABLE

This error occurs when the task type specified for any mnemonic is zero. BARLD data should be rechecked for this mnemonic for a zero task type or mispunched data.

2002 PTYLST
CHAR1 ENOPR

This error is nonfatal but will automatically disallow any further activity on the data file 18 task specified. This error indicates a task with an invalid ENGOPR is requesting a priority, usually a task which has already received one. Tasks on data file 18 should be checked for duplication.

3003 UNIT _____ NO LOC

This message indicates an engineer unit has deep ended, that is, neither unit nor four levels of echelon about it have locations. This error is nonfatal but task organization (ECHLON) load should be corrected or allowance made for the fact during the rest of the game.

EFEA INTELLIGENCE FAULT

This error is nonfatal but bypasses activity and allocation of equipmen for this task mnemonic. This implies a DSL task was given without the force having proper intelligence about it. The intelligence information should be rechecked on the engineer report in the Period Output Processor and the DSL for this task.

EVENT TABLE FULL, REST OF DSL FOR _____ LOST

This is an informative message. Should it occur, the rest of the DSL string for any moving unit tasked to an engineer activity will be lost. Should the event table ever fill completely, other diagnostic messages will appear, and activity throughout the model will need to be curtailed.

ORIG 10 SUBS _____

This message indicates that although a unit has subordinate to it in TOE a unit capable of handling the required engineer task, it has already been assigned ten subordinate units by DSL or ECHLON, and therefore no more can be broken out.

15. AIRMOBILE:

AIRBASE ARRAY FULL

More than 30 eligible airborne units are present in a force.

A/C ITEM CODES NOT IN ACAVL

The escort or transport aircraft are not described on data file 26.

ASSAULT ORDER CONTAINS TOO MANY LEGS U

An airmobile assault order to unit U contains more than four coordinate points.

ASSAULT2 U VEHICLE TYPE I NOT ON TRANSPORT LIST

Unit U was ordered to perform airmobile assault with transport type I. Transport capacity is not loaded on data file 11.

(IUID) (WEP.TYPE) BEG EVT FOR THIS COMB. NOT ON TEMP1

The beginning event for this ADCU with this type of weapon is not in array TEMP1. This error is fatal to execution. The initialization of TEMP1 should be checked to see that both the beginning and the ending event are stored.

CONSUMPTION RATES MISSING I J

Fuel consumption rates have not been loaded on data file 14 for transport aircraft I or escort aircraft J.

FLIGHT SPEED MISSING FOR I J WEATHER K

Aircraft flight speeds have not been loaded on data file 26 for escort type I or transport type J for weather condition K.

NO

This message indicates the beginning event for a corresponding ending event is not on TEMP2. This error is not fatal to execution, but if the event is not found on TEMP1, a fatal error will occur. The transmission of array TEMP1 to TEMP2 should be checked.

** NO CAPACITY FOR I

This message indicates that no transport capacity is loaded on data file 11 for the transport aircraft type.

** TRANSPORT FOR U AT D H M

Unit U was ordered to perform airmobile assault. At day D, hour H, minute M, transport aircraft had not yet arrived. Unit will wait 1 minute and begin again.

```
*-*-* RATIM - ERROR IN REARM QUEUE.  IUID,
      COIUID, RAP, IPT, TACRA, RACAT, RACAA,
       XXX  XXX  ...
       XXX  XXX  ...
       XXX  XXX  ...
        .    .    .
        .    .    .
        .    .    .
```

This statement is printed if an error occurs in the construction of the tables used to store the time part of the refuel capacity of the FRRA

will become available. The items printed are described in Section IV, Chapter 15, Appendix C.

RREXEL - BAD IOPR = XXX

This message is printed if the numeric operation code listed is less than 40, equal to 48, or greater than 49.

SEARCH-MORE THAN XXXX UNITS IN CIRCLE

This message is printed by GASRCH if more than the listed number of units were found in the described search area. It indicates some units in the area have not been considered.

THIS UNIT IS OUT OF FUEL, BUT WILL BE SENT TO A FRRA AAAAAAAA XXX

This is an informative message printed by routine RRFRRA. The mission unit listed did not have enough fuel to fly from its current position to the nearest FRRA, or it expended all of its fuel while waiting in the queue to be refueled. The unit is allowed to continue its mission.

7777 ACFT ITEM CODE HAS NO MATCH IN ACFT DATA TABLE.***

This error causes an immediate exit from routine GTAA. The initialization of the aircrfft data table (ACDATA) should be checked as well as the value of the aircraft item code (IEOH).

16. COMBAT SERVICE SUPPORT:

9015 BAD SUPPLY ACTION INDEX1 = I5 KEOH = I5

This error occurs when an invalid supply action is found on data file 11 during processing. INDEX1 must have values between 1 and 5. The meaning associated with each value is as follows:

INDEX1= 1 - Unit distribution, arrival of transports or delivery of consumables at receiving unit
INDEX1=-2 - Resupply of supply point, add consumables to supply point
INDEX1=+2 - Supply point distribution, remove consumable from supply point
INDEX1= 3 - Unit distribution, return transport vehicles supply point
INDEX1= 4 - Supply point distribution, return of transport vehicles to receiving unit, add consumables to unit trains
INDEX1= 5 - Arrival of principal items or personnel at receiving unit.

KEOH is the equipment item code of the item being processed. Reference to the DIVRUN printout of this data file 11 is required. This printout should immediately precede this comment.

5051 EOH NO, I3 FOR UNIT, I4 HAS NO DISTRIBUTION FLAG SET

Every item to be resupplied to units must have a distribution mode specified. The printout of the data file 31 record should be checked to ensure that either 1 or 2 appears in the INDEX2 field. The printout from program ECHELON should also be checked.

9090 NO CLASS 7 SUPPLY POINT

No supply point was specified for class 7 items and personnel. Program ECHELON printout should be checked.

5053 NO CROSS REFERENCE FOR EOH I3

No transporter has been assigned to transport this equipment item. The Combat Service Support load printout should be checked. This item will not be resupplied to this unit.

9025 NO FILE 31 RECORD FOR END ITEM, I4, FOR UNIT I4

This error occurs in the block of logic used to accumulate on the supply status file, data file 31, the number of major end items or personnel that have been resupplied during the game. A data file 31 should have been generated by routine ECHELON. Routine ECHELON printout should be checked to ensure this has been done.

5052 NO SUPPLIER LISTED FOR CLASS, I2 FOR UNIT I4

No supply point was assigned to this class type (see printout in routine ECHELON) if class type is a number between 1 and 7. If class type appears as zero, then the item being resupplied was not assigned a class type. Printout of routine ECHELON should be checked and reference made to DIVRUN.

5054 NO WEIGHT OR VOLUME FOR CONSUMABLE, I3

No weight or volume was specified in the Combat Service Support data load. This item will not be resupplied.

5055 NO WEIGHT OR VOLUME FOR TRANSPORT, I3

No weight or volume for the transport was specified in the Combat Service Support data load. This transport will not be used for resupply.

5005 NOT ENOUGH EOH I3 AVAILABLE AT I4, NEWPCTT =, F8.5

Not enough of this consumable was at the specified supply point to satisfy the order; the percent available was NEWPCTT.

17. SPECIAL PURPOSE ROUTINES:

a. Routine COMMDP:

ERROR IN GETWRD FOR BARRIER DATA

Since COMMDP is a routine that is executed after an input/output error is detected, a call to XXIT routine would cause the model to loop; thus, in routine COMMDP, when an input/output error does occur, separate messages are printed to indicate the error, and processing continues.

ERROR IN GETWRD FOR EQUIPMENT CODES

See above.

ERROR IN GETRCD FOR DSL LABELS

See above.

ERROR IN GETWRD FOR INCS DATA

See above.

b. Routine INITAL:

*** THE UNIT AAAAAAAA AAAA WAS NOT ASSIGNED TO A MOBILITY CATEGORY. - DEFAULTS TO 1

This message comes from routine INITAL. It informs the user that a complete set of mobility data was not loaded for the listed unit. If this unit has a move order, the mobility data should be corrected to include the unit's type designator in the mobility category list. The error is nonfatal.

WRONG TAPE - RESTARTS DONT MATCH

This message is printed in INITAL when the value indicates the DIVWAG data file is a restart file and the Period Processor data card did not specify REST in columns 1-4. This is a fatal error and the DIVRUN will abort immediately.

18. DSL INTERFACE:

*** BATTLE ID AAAAAAAA IS NOT IN DIRECTORY

The battle, whose identification is listed in field AAAAAAAA, could not be found in the Unit Battle Table. This indicates no Battle Paragraph was written for it. The spelling of the names used in the DSL data deck should be checked. This message is printed by routine BSUIDL.

DBSR BATTLE AAAAAAAA NOT IN TABLE

The battle, whose identification is listed in field AAAAAAAA, could not be found in the Unit Battle Table. This indicates no Battle Paragraph was written for it. The spelling of the names used in the DSL data deck should be checked.

DBSR UNIT AAAAAAAA NOT IN UNIT SCENARIO LIST AAAAAAAA

The unit, whose UID is listed in the first AAAAAAAA field, could not be found in the Unit Battle Table. This indicates the unit does not have a Unit Scenario. The spelling of the names used in the DSL data deck should be checked. The second output field lists the identification of the battle.

** INFINITE LOOP DETECTED IN AAAAAAAA *S SCENARIO. INVOLVES PCOUNTER = XXX NORD = XXX

This message is printed if the Unit Scenario is constructed in such a way that an executable order is never reached. The value of P counter points to the first order involved in the loop, and NORD is its numeric order or conditional code. This message is printed in DOSR, which then calls XXIT with a value of 777 assigned to IER.

TFEQ AAAAAAAA DOES NOT EXIST

TFHT AAAAAAAA DOES NOT EXIST

TFAS AAAAAAAA DOES NOT EXIST

TFPR AAAAAAAA DOES NOT EXIST

TFAL AAAAAAAA DOES NOT EXIST

TFWT AAAAAAAA DOES NOT EXIST

These error messages mean that the UID listed in field AAAAAAAA could not be found in the list of units participating in the game. The spelling of the UID should be checked. The first four characters of the message indicate which type of conditional was involved. Their meanings are as follows:

TFEQ - Equipment type
TFHT - Halted at
TFAS - Assessed
TFPR - Present strength
TFAL - At location
TFWT - Weather

TFEQ AAAAAAAA NOT RESOLUTION UNIT

This message is printed if the unit listed in field AAAAAAAA is not a resolution unit. The unit is involved in an equipment type conditional. A check should be made to see if it has been joined to a parent unit or has not yet been detached from the parent unit.

19. UTILITY ROUTINES:

a. Routine ADDUNT:

TABLE OVERFLOW, CANNOT ADD UNIT AAAAAAAA BPOINT = IIII, RPOINT = IIII

This message comes from routine ADDUNT when an attempt is made to add a unit and the number of units already existing in the game equals the maximum allowed (1000). The error is fatal.

b. Routine CELLST:

TERCEL TOO SMALL

This message is printed when the number of terrain cells covered by the specified line exceeds the limit of 100. This error is not fatal and the first 100 cells are used.

c. Routine SCORE:

NO SUCH KILLER - AAAA

This message comes from routine SCORE after a check is made to identify the killer so the scoreboard can be updated. When the killer is not of a legal value there is no scoring, and processing continues. The error is nonfatal.

d. Routine SEARCH:

SEARCH-MORE THAN IIII UNITS IN CIRCLE

This message comes from routine SEARCH when the number of units found in the circle to be searched is greater than the number of units that the calling routine specified. The size of the circle to be searched should be checked to be sure it is not larger than expected. The error is nonfatal.

CHAPTER 5

PERIOD OUTPUT PROCESSOR ERROR CONDITIONS

1. INTRODUCTION. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG Period Output Processor. Each paragraph is devoted to the diagnostics of a report produced by the processor.

2. EXECUTIVE CONTROL:

a. Routine INITAL:

INITIAL I/O ERROR= XX

Upon an attempt to retrieve words from data file 36 an input/output error type XX was encountered. Processing will continue, but results will be erroneous. (See the DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

b. Routines HEADER, PLOVFL, and REPCTL.

These routines have no diagnostics.

3. STATUS AND ACTIVITY REPORT:

a. Routine GET2:

***** I/O ERROR FILE 2 RECORD NO. XXXXX
EC= ZZ

Upon an attempt to retrieve record number XXXXX from data file 2 in the GET2 routine an error condition ZZ was encountered. GET2 will return an error flag to the calling routine. (See DIVWAG Input/Output Package Error Conditions, chapter 7 of this section, for a description of this error code.)

b. Routine GET31:

GET31 I/O ERROR IER= XX

Upon an attempt to retrieve a record from data file 31 in the GET31 routine an error condition XX was encountered. GET31 will return an error flag to the calling routine. (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

c. Routine GETUSF:

IO ERROR GETUSF
EC=XX IUID= ZZZ

An input/output error type XX occurred upon an attempt to retrieve record ZZZ from data file 1 in routine GETUSF. Processing will continue, but results will be erroneous (See DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

d. Routine PUTDET:

PUTDET I/O ERROR ON FILE 50 IER= XX

Upon an attempt to retrieve a record from data file 50 an input/output error type XX occurred. Processing stops within the Unit Status and Activity portion of the Period Output Processor. (See the DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

e. Routine UACTR:

IN UACTR IERR = XX

Upon an attempt to retrieve a record from data file 48, 31, or 11 in routine UACTR an input/output error type XX was encountered. Processing will continue, but results will be erroneous. (See the DIVWAG I/O Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

f. Routine ZERO

PROGRAM ERROR ZERO CALLED WITH RECORD TO ZERO XX

Routine ZERO was called to zero out first non-zero IUID of the command level array. No non-zero entry was found. This indicates possible error in the unit status file subordinate list. Processing will continue. Errors may have occurred in summation processing for command level units.

g. Routines DNCHA1, EOHLOC, EOHPER, GETSUM, OVFL, SUM, UPEOH, USTAT1, and UACTY.

These routines have no diagnostics.

4. PLANNING REPORT:

Routines PLREPT and UIDSRI have no diagnostics.

5. INTELLIGENCE REPORT:

Routine INTLRP has no diagnostics.

6. BARRIER REPORT:

Routine ENGRPT:

I/O ERROR FILE 1 IUID= XXXX EC= XX

Upon an attempt to retrieve words from data file 1, record XXXX, an error condition XX was encountered. Processing will continue, but results will be erroneous. (See the DIVWAG Input/Output Package Error Conditions, Chapter 7 of this section, for a description of this error code.)

CHAPTER 6

ANALYSIS OUTPUT PROCESSOR ERROR CONDITIONS

1. INTRODUCTION.

a. With one exception, the routines of the Analysis Output Processor follow the standard convention explained below with respect to dayfile messages. The message

.END NNNNNN.

indicates normal termination of routine NNNNNN. The message

.STOP.

indicates a system malfunction detected by the program, and implies that no correction need be made before rerunning the job. The message

.STOPN.

where n is an octal number indicates that a fatal error condition for which corrective action is required has been detected by the program. The value of n identifies the error condition.

b. In some cases, a diagnostic of a fatal error condition is printed by the program in addition to the dayfile message. If possible, all errors in input cards are diagnosed before a programmed abort so that only one execution of a routine is required to correct input cards. Diagnostics of error conditions not fatal to execution, of course, always appear in the program output rather than the dayfile.

c. The following paragraphs describe the dayfile error codes of conditions leading to programmed aborts, corrective actions, and diagnostics printed by the routines.

2. TAPE PREPROCESSORS:

a. Routine PREP:

(1) Dayfile diagnostics·

Message	Error Condition	Corrective Action
STOP1	No input card	Supply input card

(2) Program Output Diagnostics: None.

b. Routine PTAPE. Routine PTAPE is the exception to the convention described in paragraph 1 above. The dayfile message STOP indicates a normal termination of routine PTAPE.

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
END PTAPE	Serious input card errors	See (2)(a) below
STOP1	No qualifier sets	Input qualifier set
STOP2	Input tape records not duplicate	Check input tape
STOP3	Input tapes have different file lengths	Check input tape

The last two conditions can occur only if duplicate input tapes are being used. Duplicate input tapes are not recommended for the current version of routine PTAPE.

(2) Program Output Diagnostics:

(a) The message:

THE NUMBER OF SERIOUS ERRORS IS m.
JOB ABORTED.

indicates that m serious errors in the input deck have been detected. For each serious error, one of the following diagnostics will have been printed.

(b) The message:

NO OUTPUT DEVICE DECLARED FOR THIS SET.

is self-explanatory. The corrective action required is to insert a DEV input card in the selection criterion cards for this qualifier set.

(c) The message:

NO SELECTION CRITERIA FOR THIS SET.

indicates that all of the selection criteria input cards for this set were invalid. An invalid selection criteria card is not necessarily a fatal error, but some criteria for selection must be correctly input. The following paragraphs describe error conditions that may or may not be fatal.

(d) The message:

UID XXXXXXXX NOT FOUND IN UXR TABLE

indicates that the UID XXXXXXXX does not refer to an active unit in the simulation. Check both the input card and the

UXR table; i.e., the tape input, if this condition occurs.

(e) The message:

INVALID UID: X...X

indicates that X...X cannot be a valid UID because it does not begin with a B or R or has too few or too many characters.

(f) The message:

NUMBER OF QUALIFIERS EXCEEDED 100 AT I=m

indicates that more than 100 units meet the UID and/or UTD criteria input, and m is the IUID of the last unit tested against the criteria. This error is never fatal.

c. Routine UXR:

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP	Random access input/output error	None

(2) Program Output Diagnostics. None.

3. HISTORY TAPE LISTING ROUTINE. The one history tape listing routine is routine PHIST.

a. Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP1	No input card	Supply input card
STOP2	Start time greater than stop time	Correct input card
STOP3	Number of input tapes ≤ 0	Correct input card

b. Program Output diagnostics. None.

4. MATRIX FORMULATION ROUTINES.

a. Routine AFM:

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP	Random access I/O error	None

Message	Error Condition	Corrective Action
STOP1	No input file from ANCARD	Provide input tape
STOP2	No classes defined	Rerun ANCARD with correct input
STOP3	No request codes defined	Rerun ANCARD with correct input
STOP4	No equipment types defined	Rerun ANCARD with correct input
STOP5	No time interval defined	Rerun ANCARD with correct input

(2) Program Output Diagnostics.

No fatal errors produce program diagnostics. The message

ANALYST NOTE BOTH QUANTITIES AND RATES HAVE BEEN REQUESTED. ANALYSIS OF QUANTITIES AND RATES WILL RESULT IN IDENTICAL STATISTICS!

is self explanatory.

b. Routine AGM: Diagnostics of AGM are identical to those of AFM

c. Routine ANCARD:

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP	Random access I/O error	None

(2) Program Output Diagnostics. None of the following error conditions are fatal to execution; however, they may be fatal to execution of programs that use input generated by this routine. Each message refers to the input card, the image of which is printed immediately preceding the message.

(a) The message:

ILLEGAL MODEL AND/OR CARD TYPE

is self explanatory

(b) The message:

ILLEGAL CLASS

indicates that the class (row) number on a UID, UTD, or GCM time interval card, is missing or not allowed.

(c) The message:

ILLEGAL UID

indicates that one of the UIDs on the UID card is invalid.

(d) The message:

***UID NOT FOUND IN TABLE XXXXXXXX

indicates that UID XXXXXXXX on the UID card is not an active unit in the simulation. Both the input card and the DIVWAG data file from which the UXR table was built should be checked.

(e) The message:

OVER 200 IUIDS FOR CLASS m

indicates that the units defined by the UID or UTD card caused more than the allowable number of units to be included in class m.

(f) The message:

*** TOO MANY EQUIPMENT CODES ***

indicates that the equipment item codes on the EIC card caused more than 25 sets of matrices to be requested from the Area Fire or Air Ground extractor.

(g) The message:

*** MORE THAN 300 TIME INTERVALS FOR CLASS m

indicates that the GCM time card caused more than 300 columns to be defined for the GCM matrices.

(h) The message:

**** ERROR IN QTY/RATE CARD

is self explanatory.

(i) The message:

*** ILLEGAL ENTRY ON KILLER CARD

indicates that an ammunition type number greater than 16 has been specified.

(j) The message:

**** TOO MANY COMBINATIONS FOR INTERNAL TABLES.

indicates that too many combination matrices have been requested.

d. Routine GCMOD:

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP	Random access input/output error	None
STOP1	No input file from ANCARD	Provide input tape
STOP2	No classes defined	Rerun ANCARD with correct input
STOP3	No request codes defined	Rerun ANCARD with correct input
STOP4	No killers defined	Rerun ANCARD with correct input

(2) Program Output Diagnostics:

The message:

ERROR RECORD SEQUENCE ERROR:RECORD NO. m TYPE n
IS OUT OF SEQUENCE

indicates that the m^{th} record on the period history tape is not a continuation of the previous GCM attacker/defender pair record segment. The partial record is ignored.

5. STATISTICAL ANALYSIS ROUTINES.

a. Routine ANALYS:

(1) Dayfile Diagnostics:

Message	Error Condition	Corrective Action
STOP1	Request for matrix out of order	Correct input

(2) Program Output Diagnostics: None.

b. Routine MTXMRG:

(1) Dayfile Diagnostics: None.

(2) Program Output Diagnostics:

The message

HEADER DATA OUT OF RANGE. RECORD NUMBER m

indicates invalid header information for the matrix displayed, quantity-rate flags or loss effect flags set to values other than zero or one, or submodel codes other than one, two, or three cause this message to be printed.

c. Routine MTXUP:

(1) Dayfile Diagnostics: None.

(2) Program Output Diagnostics:

(a) The message:

```
INFORMATION ON CARD n DOES NOT MATCH HEADER FOR
MATRIX NUMBER m
HEADER CONTENTS     SM    LE    QR    EIC
CARD CONTENTS             IREC  MOD
```

indicates that the submodel code on the header record for matrix m does not agree with the submodel code on input card n. The error is not fatal. The input card is not processed.

(b) The message:

```
MATRIX NUMBER ON CARD n IS EQUAL TO m
THIS IS LESS THAN LAST MATRIX NUMBER READ IN WHICH
EQUALS k
```

indicates an input card out of order. The error is not fatal. The input card is not processed.

CHAPTER 7

DIVWAG INPUT/OUTPUT PACKAGE ERROR CONDITIONS

1. INTRODUCTION. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG input/output package. The error code numbers are listed first, followed by the error messsages by routine.

2. ERROR DIAGNOSTICS. Errors occurring from the execution of one of the DIVWAG input/output routines may not be serious enough to terminate the execution of the job. Thus, through the use of a status word, the programmer has control of what operation is required as a result of the value of the error status word. In each DIVWAG input/output routine argument list, the last variable is the error status code, IER. If an error occurs in the course of the execution of an input/output routine, the error code is returned in the status word of the calling arguments. The following list provides the possible error codes:

Error Code	Condition
1	Indicates the operation was successful.
4	Indicates the operation was completed, but an end-of-file was detected. The user will determine the seriousness of this problem.
5	Indicates the file ordinal, NAME, is outside the file name table. NAME is the first argument in all DIVWAG input/output routines.
6	Indicates the pointer IREC (second argument in DIVWAG input/output routines GETRCD, GETWRD, PUTRCD, PUTWRD) is attempting to locate a record outside the file NAME, or JREC (second argument in ADDRCD, ADDWRD, SUBRCD, SUBWRD) is attempting to locate a record beyond the file, NAME.
7	Indicates NREC (third argument in DIVWAG input/output routines GETRCD, PUTRCD, SUBRCD) exceeds the number of records in the file NAME.
8	Indicates the pointer IWRD (third argument in DIVWAG input/output routines, GETWRD, PUTWRD) is attempting to locate a specific word outside the record limits of file, NAME, or JWRD (second argument in DIVWAG input/output routines, ADDWRD, SUBWRD) is attempting to locate beyond the record limits of file NAME.
9	Indicates NWRD (fourth argument in DIVWAG input/output routines, GETWRD, PUTWRD, and third argument in SUBWRD) exceeds an end of record in file, NAME.

Error Code	Condition
10	Indicates an attempt is made to create a new file NAME, over an existing file with the same ordinal number. This diagnostic flag refers specifically to the DIVWAG input/output routine CREATE.
11	Indicates an attempt is made to remove a file NAME that does not exist. This diagnostic refers specifically to the DIVWAG input/output routine REMOVE.
12	Indicates an error was encountered in trying to store the file name table on the disk as a result of any update to the file NAME. This diagnostic could appear after all DIVWAG routines, CREATE, REMOVE, ADDRCD, ADDWRD, SUBRCD, SUBWRD. This would indicate a severe hardware failure and the calling program should halt operations.
13	Indicates an input/output operation on a non-existent file is attempted. This diagnostic could appear after all DIVWAG input/output routines except CREATE and REMOVE.
14	Indicates a parity error. The user will determine the seriousness of this problem.
16	Indicates that an (X, Y) coordinate location is off the defined game map, and the requested terrain cell data cannot be obtained.
17	Indicates that the area for which the weather is requested is outside the defined weather sectors of the weather file.
18	Operation is complete, but an end-of-file has been detected during the execution of one of the DIVWAG input/output routines. This area is not under control of the user; therefore, the calling program should be terminated immediately.
19	Operation is complete, but a parity error has occurred during the execution of one of the DIVWAG input/output routines. The same condition exists as in 18.
20	Indicates that an attempt was made to put a record on data file 1 but IVEC (215) was not equal to IREC.

3. ERROR MESSAGES:

a. Routine FILE:

IFNT IS INVALID

IFNT (56,3) indicates which DIVWAG data file was last entered into the DIVWAG file. This entry of the file name table (IFNT) contains the ordinal number of that data file. Routine FILE has retrieved this entry and has found it not to be a valid entry (0-55). All processing stops.

b. Routine GETPUT:

XXXX = YYYY JOB TERMINATED

The first word address to be transmitted to or from the DIVWAG disk file is less than or equal to zero. Processing will be terminated.

c. Routine ILLEGAL:

ILLEGAL NAME (XXXXX) JOB TERMINATED

The DIVWAG data file ordinal (XXXXX) is not a legitimate DIVWAG data file. All processing stops.

d. Routine SIZE:

** FATAL ERROR. AN ATTEMPT WAS MADE TO EXPAND THE DATA FILE TO XXXXXXXXXX WORDS. THE DATA FILE IS ONLY ZZZZZZZZZZ WORDS LONG.

While attempting to create a data file, or add a record or word, it was found that the new data file would exceed the maximum size of the file. All processing stops. Before further attempting to increase the physical size of the file a UTILLD must be run increasing the file size.

e. No diagnostics. The following routines have no diagnostics.

ADDRCD	GETWRD	REMOVE
ADDWRD	NCOMP	SHFTDN
CREATE	PUTFLE	SUBRCD
FSL	PUTRCD	ST3WRD
GETFLE	PUTWRD	TRNSMT
GETRCD	RECORD	WORD

CHAPTER 8

UTILITY LOAD AND DUMP ERROR CONDITIONS

1. INTRODUCTION. This chapter describes the error conditions and accompanying diagnostics of the DIVWAG utility load and utility dump routines.

2. UTILITY LOAD:

**** IFNT ANOMALOUS ****

A search is made of all the starting words of each file to determine the highest value. This value is then checked against the value of the starting word for the last file created. If these values are not equal the DIVWAG file is not a good file. The error message is printed, followed by a printout of the IFNT array, and the run is aborted.

**** IFNT (56,3) BAD VALUE = IIII

When the ordinal of the last file created on the DIVWAG file that is ordered to be loaded is not greater than zero and less than 56, the indication is that the DIVWAG file is not a good file. The error message is printed and the run is aborted.

**** UTILLD ABORTED ****

This message is printed when the utility load program has determined that the IFNT table is not valid and loading of the DIVWAG file cannot continue.

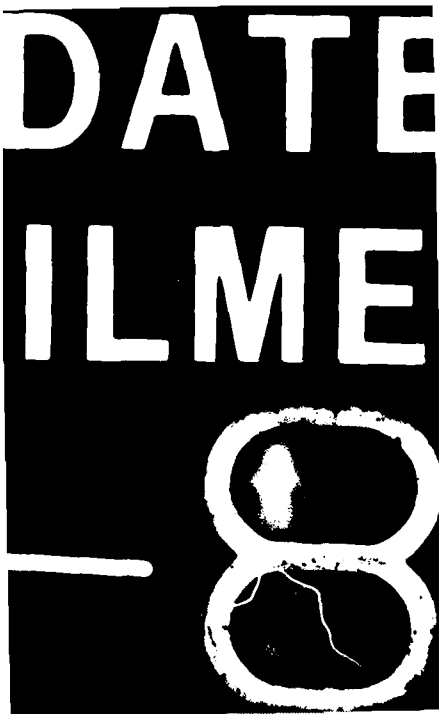
3. UTILITY DUMP:

FILE LENGTH DEFAULTS TO IIIIIIII WORDS.

The number of words in the DIVWAG file is computed by using the values in the IFNT table for the last ordinal created. If this value is greater than the maximum file size stored in effective location IFNT (57,1), the maximum number of words defaults to the size retrieved from the IFNT (57,1) location. The error message is printed and the dumping continues.

**** IFNT (56,3) BAD VALUE = IIIIIIII
**** UTILDP ABORTED ****

The ordinal of the last file created is checked for a value greater than zero and less than 56. If the value is not valid, the error message is printed and processing stops.


DATE
ILME
8