



MICRO FOCUS

APS FOR z/OS

ERROR MESSAGES

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APS-ADB

Category: DB macros.

5800-00-F V-ISAM IS THE ONLY VALID DB TARGET FOR MICRO-FOCUS COBOL

APS found a DB target other than V-ISAM in the subschema for a Micro Focus COBOL program.

Resolution: Remove all DB targets other than V-ISAM from the subschema.

5810-00-F VSAM IS THE ONLY VALID DB TARGET FOR MICRO-FOCUS PC-CICS

APS found a DB target other than VSAM in the subschema for a PC-CICS program.

Resolution: Remove all DB targets other than VSAM from the subschema.

5820-00-W DLI IS ONLY A VALID DB TARGET FOR MICRO-FOCUS IMSVS86

Use DLI only for MICRO-FOCUS IMSVS86.

Resolution: Check DC target. Remove DLI from subschema.

9000-00-E APS DB ERROR RECORD NAME UNKNOWN TO APS SUBSCHEMA RECORD NAME: *recordname*

The record name coded on the DB call is either invalid or not defined in the subschema.

Resolution: Check the subschema for a misspelled or missing record name.

9010-00-E APS DB ERROR NO ARGUMENTS PASSED TO DB COMMAND

APS found a DB call coded without keywords.

Resolution: Code the DB call with the proper keywords.

9020-00-E APS DB ERROR CURSOR HAS NOT BEEN DECLARED CURSOR NAME: *cursorname*

You did not declare the cursor with a correct DB-DECLARE call, or the cursor name is invalid.

Resolution: Name the cursor correctly in a DB-DECLARE call.

9040-00-E APS DB ERROR DB-FREE COMMAND IS INVALID FOR IMS AND DB2

DB-FREE command is valid for CICS/VSAM only.

Resolution: Remove the DB-FREE call from program.

9050-00-E APS DB ERROR FIRST DB COMMAND KEYWORD IS INVALID

APS did not recognize the first keyword coded on the DB call.

Resolution: Check for misspelling or consult the APS Reference for valid keywords.

9096-00-E APS DB ERROR DB-PROCESS-ID HAS NO NAME

You did not follow the DB-PROCESS-ID keyword with a unique process ID name.

Resolution: Add the DB-PROCESS-ID name to the DB-PROCESS call.

9097-00-E DB-PROCESS-ID NAME LONGER THAN 18 CHARACTERS: *name*

The DB-PROCESS- ID name must be no longer than 18 characters.

Resolution: Correct the DB-PROCESS-ID name so that it is 18 characters or less.

9098-00-E DUPLICATE DB-PROCESS-ID NAME: *name*

DB-PROCESS-ID name must be unique.

Resolution: Provide a unique DB-PROCESS-ID name.

9099-00-W DB-PROCESS-ID OMITTED IN MORE THAN ONE DB-PROCESS COMMAND

You coded more than one DB-PROCESS call without specifying a DB-PROCESS-ID name. Nested DB-PROCESS calls may yield unpredictable results.

Resolution: Use the DB-PROCESS-ID keyword when nesting DB-PROCESS calls.

9100-00-F APS VSAM VERSION II MUST BE USED WHEN MIXING VSAM WITH DB2 OR IDMS

You set &VS-COMMAND-VERSION to I, indicating APS VSAM VERSION I. You can only mix VERSION I with IMS DB.

Resolution: Use APS VSAM VERSION II. Set &VS-COMMAND-VERSION to II.

APS-AFE

Category: Field Edits.

1000-00-E APS EDITS ERROR - APPLICATION EDIT MACRO UNDEFINED:

You did not specify the application edit macro.

Resolution: Check the spelling of the macro name and make sure that the macro exists.

1010-01-E BYPASS EDIT KEYS: CLEAR, PA1, PA2. INVALID FOR DC TARGET: IMS

The IMS environment does not use these keys.

APS-APX

The following messages are from Online Express. These messages can be identified by APS-APX at the beginning of the message code in the message report. The messages are in numerical sequence.

1010-01-W ISPF/VSAM TARGET DOES NOT SUPPORT BACKOUT OF UPDATES IF PGM FAILS AFTER UPDATES PERFORMED

ISPF is not providing a programming facility that backs out completed updates, so no backout action is taken.

Resolution: If an ISPF program that performs multiple database updates in a single execution is to be used for purposes other than testing or prototyping, the developer and user must be aware of this integrity exposure. For an application that accesses only DB2 based data, macro \$PX-ERROR-TERMINATION may be modified to generate a SQL Rollback command.

1020-01-W PROGRAM DOES NOT CONTAIN APPROPRIATE MODIFIABLE EXPRESS PCB FOR ERROR RESPONSE. ERROR AFTER DB UPDATE WILL RESULT IN ROLB AND NO RESPONSE TO TERMINAL USER POSSIBLE

Issued during generation of an Express program if the program performs database updates, the TP target is IMS, and the PSB does not provide an EXPRESS PCB that may be used for responding to the originating LTERM. If an error is found after successful database updates, this paragraph sends the screen and error message via an express PCB and terminates the program with a ROLB call. If an appropriate EXPRESS PCB is not available, the program is terminated without responding.

Note: When writing Online Express conversational programs be aware that Online Express checks your alternate IO PCB for the following parameters: EXPRESS=YES, MODIFY=YES, ALTRESP=YES. If any of these parameters are missing, this message is displayed.

Resolution: Add an EXPRESS PCB and recompile program, or accept that in some error situations, no response to the terminal is possible. If the program may perform at most one update in a single execution, this message may be ignored. If using an Online Express conversational program,

ensure that your alternate IO PCB contains the following parameters:
EXPRESS=YES, MODIFY=YES, ALTRESP=YES.

1030-01-E INPUT SCREEN USES PFKEYS FOR TRAN PX SPECS ASSUME PFKEYS AVAILABLE CORRECT CONFLICT

This message is issued during program generation if the TP target is IMS and during definition of the input screen (screen painting), the PF keys were defined as providing all or part of the IMS trancode. In this case the application program will not be able to test PF keys after receive of screen. If the Express program definition associates program functions with PF keys, the program will not function as intended. This message does not necessarily mean that such a conflict exists, but warns the user that PF keys will not be available for testing during program execution.

Resolution: Verify that processing functions have not been associated with PF keys. If they have, correct the conflict.

1040-00-E TP-USER-LEN: *length* TOO SMALL FOR SAVEKEY: *savekey* AND ADDITIONAL COMMAREA: *command*

This message is generated from the macro \$PX-CA-COMPUTE-LEN if a Commarea length has been defined via symbol &TP-USER-LEN, and the length specified is less than the sum of SAVEKEY length assigned to Commarea plus additional Commarea bytes, as defined on the Work Area Definition panel.

Resolution: Either increase Commarea length as defined by symbol &TP-USER-LEN, or decrease Commarea requirements defined to Express by not using Commarea for SAVEKEY and/or reducing specification for additional Commarea bytes.

APS-BTC

Category: Batch macros.

1000-00-W TP COMMAND INVOKED IN MVS BATCH PROGRAM

A non-IMS batch program invoked a TP command.

Resolution: You should only invoke TP commands in programs that have \$TP-ENTRY coded. This may also cause the warning that APS set the TP-GOBACK flag to false.

2010-00-E MUST BE INVOKED IN COBOL AREA-A

You must invoke the \$TP-ENTRY macro in COBOL AREA-A.

Resolution: Make sure that you code the \$TP-ENTRY macro between columns 8 and 11 inclusive.

2020-00-E UNKNOWN KEYWORD: keyword

The parameter coded with \$TP-BACKOUT is invalid.

Resolution: The only valid keywords for this macro are ABORT or NOABORT.

8010-00-F APBTCTP INCLUDED TWICE; REMOVE EXTRA INCLUDE

You included the APBTCTP member twice in the JCL.

Resolution: Ensure that you only include APBTCTP once.

APS-CB2

Category: COBOL-II.

1000-00-W TOO MANY ARGUMENTS IN PARAGRAPH *paragraph name*

You specified too many arguments after a paragraph. The size of the buffer that stores these arguments depends on the memory available at execution time.

Resolution: Check for the available memory and/or missing right parenthesis.

1002-00-E OPENING *filename*

Cannot open the file.

Resolution: Check for the attributes and the existence of the file.

1003-00-E FIRST PASS FAILED; UNABLE TO CONTINUE

This error occurs while parsing the program in the first pass.

Resolution: Check spelling of Division, syntax of TRUE and FALSE statements and the format of paragraph header with arguments list.

1010-00-W FOUND UNEXPECTED *divisionname* DIVISION ON LINE *linenumber*

APS found a division at the wrong place in the program.

Resolution: Check for the order of all COBOL divisions coded.

1100-00-E SEARCHING FOR PARAGRAPH HEADER

Found a paragraph header specified in COBOL region B.

Resolution: Check for invalid placement of the period.

1201-00-E BLOCK STACK UNDERFLOW...

APS found an extra end of block statement.

Resolution: Check for the extra end of block statement like END-IF, END-PERFORM,
... .

1202-00-E FILE IDENTIFIER STACK UNDERFLOW...

Internal error.

Resolution: Call the product support for assistance.

1203-00-E REPEAT STACK UNDERFLOW...

Internal error.

Resolution: Call the product support for assistance.

1204-00-E STATEMENT STACK UNDERFLOW...

Internal error.

Resolution: Call the product support for assistance.

1300-00-E UNABLE TO TRANSLATE INDEX INITIALIZATION IN REPEAT VARYING

This error occurs when you use an index on a FROM clause in a REPEAT VARYING statement with a complex expression.

Resolution: Break up the complex expression to multiple SET index UP/DOWN statements.

1301-00-E CANNOT FIND BEGINNING OF STATEMENT

APS could not recognize the beginning of the statement.

Resolution: Correct the code.

1302-00-E INVALID LITERAL CONTINUATION ON LINE *linenumber*

The syntax for the continuation literal is incorrect.

Resolution: Correct the code.

1303-00-E UNABLE TO TRANSLATE INDEX INCREMENT/DECREMENT ON LINE *line-number*

Syntax for Index Increment/Decrement is incorrect or too complex. APS expects a plus or minus sign for the Index Increment or Decrement statement.

Resolution: Correct syntax of Index Increment/Decrement statement.

1400-00-W AMBIGUOUS UNTIL AFTER PERFORM ON LINE *linenumber*

APS found UNTIL verb at the beginning of a statement following a complete PERFORM statement.

Resolution: Move the UNTIL to the end of the previous line or use ellipses '...' to continue the PERFORM statement.

1401-00-W AMBIGUOUS INDENT *verb* ON LINE *linenumber* COLUMN

Definition: APS found a verb at the beginning of a statement indented under a following statement that could have an exception clause like: ADD, COMPUTE, ... statement.

Resolution: If you indented the statement for the exception clause, no action required. Otherwise change the indentation to line up with the previous statement.

1402-00-W AMBIGUOUS OUTDENT *verb* ON LINE *linenumber* COLUMN

APS found a verb at the beginning of a statement that could end the indentation of the previous statement.

Resolution: If the statement should end the exception clause, no action required. Otherwise fix the indentation to line up with the previous statement.

1403-00-W AMBIGUOUS ELSE AFTER *verb* STATEMENT ON LINE *linenumber* COLUMN

An ELSE found after a nested IF statement which based on the indentation belongs to the outer IF statement with the same indentation.

Resolution: If the indentation rule applies, no action required. Otherwise change the indentation to line up with the correct IF statement or code an END-IF statement.

1500-00-E EVALUATE OR SEARCH WAS TERMINATED WHEN ENCOUNTERED ON LINE *linenumber*

A WHEN statement found after an EVALUATE statement was previously terminated either by indentation or an END-EVALUATE statement.

Resolution: Move the WHEN statement and statement block before the END-EVALUATE statement or fix the indentation to line up under the EVALUATE statement.

1999-00-E FOUND UNEXPECTED token ON LINE *linenumber*

Grammatical or syntax error found.

Resolution: Check the syntax in the APS or COBOL II documentation.

2000-00-F TOKEN BUFFER CAPACITY OF *tokenbuffersize* EXCEEDED

Internal error. Tokens including white spaces cannot exceed 4094 bytes.

Resolution: Call the product support for assistance.

2001-00-E ENCOUNTERED EOF BEFORE LAST CHARACTER

APS found an end of file marker before collecting all characters for a token. For example, an alpha-numeric literal.

Resolution: Check for a missing quote at the end of the program or an end of file marker in a string.

2002-00-E INSTALLING ENTRY POINT

Internal error. When bringing up APS.

Resolution: Call the product support for assistance.

2003-00-S FOUND UNHANDLED STATE CAUSED BY

Internal error.

Resolution: Call the product support for assistance.

APS-CIC

Category: CICS macros.

1010-00-E REQUIRED SCREEN NAME NOT SUPPLIED

Command requires a screen name.

Resolution: Enter the screen name as the first argument.

1020-00-E OPTION: *optionname* PARAMETER IS NOT ALLOWED

This option does not expect any parameters.

Resolution: Remove parameter from option.

1030-00-E OPTION: *optionname* REQUIRED PARAMETER WAS NOT SUPPLIED

Option specified without its required parameter.

Resolution: Enter required parameter with option.

1040-00-E OPTION: *optionname* OPTION IS UNKNOWN BY THIS COMMAND

Option misspelled or unknown by command.

Resolution: Verify the spelling or validity of entered option.

1050-00-E REQUIRED PROGRAM NAME NOT SUPPLIED

Command requires program name.

Resolution: Enter the program name as first argument.

1060-00-E REQUIRED PROGRAM NAME NOT SUPPLIED

Command requires a program name.

Resolution: Enter the program name as the first argument.

1070-00-E AT LEAST ONE SCREEN MUST BE SPECIFIED

Command requires screen name.

Resolution: Enter the screen(s) name as first argument.

1100-00-E OPTION: *optionname* PARAMETER IS NOT ALLOWED

This option does not expect any parameters.

Resolution: Remove parameter from option.

1110-00-E REQUIRED OPTIONS WERE NOT SUPPLIED

Options required by command missing.

Resolution: Enter missing options for command.

1120-00-E REQUIRED OPTIONS WERE NOT SUPPLIED

Options required by command missing.

Resolution: Enter missing options for command.

1140-00-E OPTION: *optionname* OPTION IS UNKNOWN BY THIS COMMAND

Option misspelled or unknown by command.

Resolution: Verify spelling or validity of entered option.

1150-00-E OPTION: *optionname* OPTION IS UNKNOWN BY THIS COMMAND

Option misspelled or unknown by command.

Resolution: Verify the spelling or validity of the entered option.

1160-00-E OPTION: *optionname* INVALID PARAMETER FOR THIS OPTION

Parameter syntax incorrect.

Resolution: Correct the syntax error.

1170-00-E OPTION: *optionname* PARAMETER IS NOT ALLOWED

This option does not expect any parameters.

Resolution: Remove parameter from option.

1180-00-E OPTION: *optionname* OPTION IS UNKNOWN BY THIS COMMAND

Option misspelled or unknown by command.

Resolution: Verify spelling or validity of entered option.

1200-00-E SCREEN: *screenname* FIELD: *fieldname* REQUIRED SUBSCRIPT MISSING FOR FIELD

An attributed field within a repeated block is missing subscript.

Resolution: Code subscript for the attributed field.

1210-00-E SCREEN: *screenname* FIELD: *fieldname* SUBSCRIPT INVALID ON NON-REPEATING FIELD

An attributed field coded with a subscript is not part of a repeated block.

Resolution: Remove the subscript.

1220-00-E SCREEN: *screenname* FIELD: *fieldname* FIELD IS NOT DEFINED FOR THIS SCREEN

The coded field name is an invalid field for the named screen.

Resolution: Check the spelling of the field name.

1230-00-E SCREEN: *screenname* COMBINATION OF ATTRIBUTES: *attributes* INVALID COMBINATION OF ATTRIBUTES

APS does not allow the combination of painted and requested attributes.

Resolution: Verify and remove conflicting attributes.

1240-00-E SCREEN: *screenname* ATTRIBUTE: *attribute* ATTRIBUTE NOT RECOGNIZED

The coded attribute is unknown.

Resolution: Check the spelling of the attribute.

1250-00-E SCREEN: *screenname* REQUIRED FIELD NAME(S) NOT SUPPLIED

You must code one or more field names.

Resolution: Code the name of the fields for attribution.

1260-00-E SCREEN: *screenname* REQUIRED FIELD ATTRIBUTE(S) NOT SUPPLIED

You must specify one or more attributes.

Resolution: Code desired attributes.

1270-00-E REQUIRED PARAGRAPH NAME NOT SUPPLIED

You must specify a paragraph name with this command.

Resolution: Add the paragraph name.

1280-00-E SCREEN: *screenname* ATTRIBUTE: *attribute* EXTENDED ATTRIBUTES ARE NOT ALLOWED

You coded an extended attribute for a screen that allows only common attributes.

Resolution: Remove extended attribute.

1290-00-E PROGRAM: *programname* PROGRAM NAME MUST BE 8 CHARACTERS OR LESS

Program name length must be 8 characters or less.

Resolution: Code a valid program name of up to 8 characters.

1300-00-E DATA NAME: *dataname* DATA NAME MUST BE 30 CHARACTERS OR LESS

Data name length exceeds the COBOL limitation of 30 characters.

Resolution: Code a valid data name of 30 characters or less.

1310-00-E LENGTH OPTION IS MISSING

LENGTH option required when the COMMAREA option specified.

Resolution: Code LENGTH option.

1320-00-E OPTION:option LENGTH PARAMETER IS MISSING

You coded the LENGTH option without its required parameter.

Resolution: Code required length parameter.

1330-00-E COMMAREA OPTION IS MISSING

COMMAREA option required when LENGTH option specified.

Resolution: Code required COMMAREA option.

1340-00-E OPTION: *optionname* COMMAREA PARAMETER IS MISSING

You coded the COMMAREA option without its required parameter.

Resolution: Code the required COMMAREA parameter.

1350-00-E OPTION: *optionname* COMMAREA OPTION IS INVALID

COMMAREA option is valid only when linking to non-APS programs.

Resolution: Remove COMMAREA option.

1360-00-E OPTION: *optionname* LENGTH OPTION IS INVALID

The LENGTH option is valid only when linking to non-APS programs.

Resolution: Remove the LENGTH option.

1370-00-E OPTION: *optionname* NOCA OPTION IS INVALID

NOCA option is valid only when linking to non-APS programs.

Resolution: Remove NOCA option.

2010-00-E TP-ADDR-MAX MUST BE INCREASED TO ACCOMMODATE DATA AREAS BEING PASSED

TP-ADDR table is not large enough to hold the addresses of all the linkage areas specified.

Resolution: Increase value assigned to &TP-ADDR-MAX.

2020-00-E CIC-SERVICE-RELOAD MAY NOT BE USED IN COBOL2 PROGRAMS

The COBOL2 compiler does not allow service reloads.

Resolution: Remove this command from the program.

3010-00-E RECORD NAME: *recordname* RECORD NAME MUST BE DEFINED TO APS

You must specify linkage records in the TP-LINKAGE or TP-SCRNLIST commands.

Resolution: Enter the record name as an argument to TP-LINKAGE.

4010-00-I TP-USER-LEN: *tpuserlen* TP-USER-LEN SET TO DEFAULT VALUE

APS found &TP-USER-LEN undefined; value set to default.

Resolution: The default is 80 but you may override this value.

4020-00-I RECORD NAME: *recordname* COPYBOOK WAS NOT SPECIFIED RECORD ASSUMED CODED INLINE

You did not provide a COPY/INCLUDE member name. APS assumes record coded is inline following this command.

4030-00-I CIC-LINKAGE MACRO NO LONGER SUPPORTED

APS no longer supports the CIC-LINKAGE command.

Resolution: The TP-LINKAGE command replaces the CIC-LINKAGE command. See the APS Reference.

4050-00-I TP-ADDR-MAX: *tpaddrmax* &TP-ADDR-MAX SET TO DEFAULT VALUE

&TP-ADDR-MAX undefined. APS set value to default.

Resolution: The default value is 20 but you may override this value.

5010-00-W OPTION: *optionname* OPTION IS NOT SUPPORTED BY MICRO FOCUS PC-CICS

This is a valid CICS option but the Micro Focus PC-CICS product does not currently support it.

Resolution: No action necessary or remove the option.

5020-00-E COMMAND *commandname* COMMAND IS NOT SUPPORTED BY MICRO FOCUS PC-CICS

This is a valid CICS command but it is not currently supported by the Micro Focus PC-CICS.

Resolution: Remove the command.

5800-00-F APS MODULE APMFCSTP HAS BEEN INCLUDED TWICE

A second INCLUDE of the APMFCSTP module attempted.

Resolution: Remove the second INCLUDE of APMFCSTP module.

8020-00-F APS MODULE APCICSTP HAS BEEN INCLUDED TWICE

A second INCLUDE of the APCICSTP module attempted.

Resolution: Remove the second INCLUDE of APCICSTP module.

APS-DB2

Category: SQL macros.

1001-00-E NOT A VALID COLUMN NAME *columnname*

The named column does not belong to the table.

Resolution: Correct the spelling or check for column name in the table.

1002-00-W CURSOR NOT DECLARED *cursorname*

You did not declare the cursor name.

Resolution: Check the cursor name to make sure it is declared.

1003-00-E NOT WHERE OR NOWHERE OR NULL *keyword*

Invalid macro keyword.

Resolution: Use WHERE, NOWHERE, or WHERE as keyword.

1004-00-W THIS STATEMENT WILL MODIFY AN ENTIRE TABLE

\$DB-MODIFY macro updates the entire table.

Resolution: You must specify column name(s) or APS will update the entire table.

1005-00-E NO RECORD NAME DEFINED

You did not specify the record name in the macro.

Resolution: Code record name in the macro.

1006-00-E COLUMN *columnname* NOT INSERTED AND DECLARED NOT NULL

The specified column name is not inserted but declared not null.

Resolution: Specify the column name in the macro (the column cannot contain null value).

1007-00-E WHERE NOT ALLOWED ON STORE

APS does not allow the WHERE keyword on STORE.

Resolution: Refer to the APS Reference.

1008-00-W THIS STATEMENT WILL ERASE AN ENTIRE TABLE

APS will delete all rows in the table.

1009-00-W CURSOR NOT DECLARED *cursorname*

You did not declare the cursor name.

Resolution: Check the cursor name to make sure it is declared.

1010-00-E NO COLUMN NAMES ALLOWED ON ERASE

Invalid to delete column.

Resolution: Remove the named column from the macro.

1011-00-W OBTAIN NEEDS A WHERE CLAUSE OR IT CAN RETRIEVE MULTIPLE ROWS

The coded macro may retrieve multiple rows.

Resolution: Be sure you want multiple row retrieval.

1012-00-E CANNOT OBTAIN WHERE CURRENT NEED CURSOR AND FETCH

Keyword WHERE CURRENT invalid in OBTAIN macro.

Resolution: DECLARE and FETCH the cursor if cursor desired.

1013-00-E DECLARE CURSOR MORE THAN ONCE *cursorname*

The named cursor already used.

Resolution: Specify different cursor name.

1014-00-E COMMAND *macroname* CANNOT HAVE WHERE CURRENT OF

Cannot use WHERE CURRENT OF with the specified macro.

Resolution: Remove WHERE CURRENT OF from the code.

1015-00-E NO CURSOR NAME DEFINED

There is no cursor name specified for the macro.

Resolution: Code cursor name for the macro.

1016-00-E KEYWORD *keyword* NOT ALLOWED AS RECORD NAME

Keyword already used as record name.

Resolution: Code record name instead of keyword.

1017-00-E UPDATE SPECIFIED BUT NO COLUMN NAME FOLLOWS KEYWORD

UPDATE coded but column name not specified.

Resolution: Enter column name after keyword UPDATE or remove empty UPDATE.

1018-00-E PARAMETER *parameter* NOT WHERE OR NULL OR NOWHERE OR UPDATE OR ORDER

Invalid parameter.

Resolution: Correct the specified parameter (should be WHERE, NOWHERE, UPDATE, ORDER or omitted).

1019-00-E INVALID COLUMN NAME *columnname* AFTER UPDATE

The named column in UPDATE clause does not belong to the table.

Resolution: Correct the spelling or check for column name in the table.

1020-00-F NAME *recordname* NOT FOUND IN DDISYMB

The specified record name not found in DDISYMB.

Resolution: Correct the spelling of record name.

1021-00-E WHERE SEARCH CONDITION NOT FOUND

There is no search condition in WHERE clause.

Resolution: Enter search condition in WHERE clause or remove empty WHERE.

1022-00-E FROM NOT ALLOWED WITH *macroname*

The macro cannot have FROM keyword.

Resolution: Do not use FROM keyword with the specified macro.

1023-00-E INTO NOT ALLOWED WITH *macroname*

The macro name cannot have INTO keyword.

Resolution: Do not use INTO keyword with the specified macro.

1024-00-E DB-PROCESS-ID VALID ONLY WITH DB-PROCESS COMMAND

DB-PROCESS-ID only valid with DB-PROCESS COMMAND.

Resolution: Only use DB-PROCESS-ID with DB-PROCESS COMMAND.

1025-00-E ORDER SPECIFIED BUT NO COLUMN NAME FOLLOWS KEYWORD

ORDER coded but column name not specified.

Resolution: Enter column name after keyword ORDER or remove empty ORDER.

1026-00-E INVALID COLUMN NAME *columnname* AFTER ORDER

APS could not find the named column in ORDER clause in the result table.

Resolution: Correct the spelling or check for column name in the result table. Be sure you select the column before you code it in an ORDER clause.

1027-00-E CANNOT HAVE UPDATE AND ORDER IN SAME CURSOR DECLARATION

You cannot use UPDATE and ORDER in the same cursor declaration.

Resolution: Code only UPDATE or ORDER in a single cursor declaration.

1028-00-I COLUMN NAME *columnname* SPECIFIED IN THE UPDATE CLAUSE WILL BE UPDATED

APS will update the named column in UPDATE clause.

Resolution: For information only. No response necessary.

1029-00-E INTO OR FROM KEYWORD HAS NO STRUCTURE NAME

There is no structure name specified after FROM or INTO.

Resolution: Code structure name after FROM or INTO.

1030-00-E DB-PROCESS-ID KEYWORD HAS NO NAME FOLLOWING IT

There is no name specified after DB-PROCESS-ID keyword.

Resolution: Code ID name after DB-PROCESS-ID.

1031-00-E FOUND keyword MORE THAN ONCE IN COMMAND

You used the specified keyword more than once in the same command.

Resolution: Remove the extra keyword.

1032-00-E END OR ENDWHERE SPECIFIED AND COMMAND HAD NO WHERE CLAUSE

END or ENDWHERE specified but there is no WHERE clause.

Resolution: Check for a valid WHERE clause or remove END or ENDWHERE from the code.

1033-00-E KEYWORD keyword ONLY ALLOWED ON DB-PROCESS AND DB-DECLARE

The specified keyword only valid for DB-PROCESS and DB-DECLARE.

Resolution: Correct the invalid keyword.

1034-00-E WHERE CLAUSE FOUND AFTER END OR ENDWHERE

WHERE found after END or ENDWHERE keyword.

Resolution: Check for a valid WHERE clause.

1035-00-E NOWHERE CLAUSE SPECIFIED AND THERE IS A WHERE CLAUSE

You used NOWHERE and WHERE in the same command.

Resolution: Use only NOWHERE or WHERE in the same command.

1036-00-E NOWHERE CLAUSE SPECIFIED AND THERE IS AN END OR ENDWHERE

END or ENDWHERE are invalid for NOWHERE.

Resolution: Remove the END or ENDWHERE.

1037-00-E WHEN WHERE CLAUSE IS PRESENT UPDATE OR ORDER MUST FOLLOW AFTER

Found WHERE after UPDATE or ORDER.

Resolution: Code UPDATE or ORDER after WHERE clause.

1038-00-E CANNOT HAVE CURRENT KEYWORD WITH A NOWHERE CLAUSE

Keyword CURRENT invalid in NOWHERE clause.

Resolution: Do not use CURRENT keyword in NOWHERE clause.

1039-00-E FOUND CURRENT KEYWORD BEFORE FINDING WHERE CLAUSE

Keyword CURRENT found before WHERE clause.

Resolution: CURRENT valid only with WHERE (WHERE CURRENT OF).

1040-00-E INVALID USE OF WHERE SQL WITH CURRENT

WHERE SQL CURRENT OF used instead of WHERE CURRENT OF.

Resolution: Use WHERE CURRENT OF.

1042-00-E CURSOR *cursorname* LONGER THAN 12 CHARACTERS

The named cursor is longer than the maximum length of 12 characters.

Resolution: Correct the invalid cursor name.

1043-00-E DB-PROCESS-ID NAME *dbprocessid* LONGER THAN 10 CHARACTERS

DB-PROCESS-ID name exceeds 10 characters.

Resolution: Correct DB-PROCESS-ID name. Make sure the name is 10 characters or less.

1045-00-E INDIVIDUAL COLS AND BUILTIN FUNCTIONS SHOULD NOT BE MIXED

Do not select individual columns in a query if also using a built-in function.

Resolution: Create a select list that either names individual columns or lists columns with built-in functions applied to them; do not include both in one select list.

1046-00-E SYNTAX INVALID FOR "SELECT DISTINCT"

You either used the keyword DISTINCT more than once in a subselect, or it you did not place it directly before the column select list.

Resolution: Do not use DISTINCT more than once in a subselect. In addition, DISTINCT must precede the column select list.

1047-00-E NOT A VALID BUILT-IN FUNCTION

You coded a built-in function other than MAX, MIN, AVG, SUM or COUNT.

Resolution: Enter a valid built-in function: MAX, MIN, AVG, SUM, or COUNT.

1048-00-E "DISTINCT" MODIFIER REQUIRED FOR COUNT

Syntax for the built-in function COUNT requires the keyword DISTINCT.

Resolution: Include the keyword DISTINCT with the COUNT function.

1049-00-E INVALID FUNCTION ARGUMENT -

The argument given in a function is not a valid data type for that function.

Resolution: Check the function arguments to ensure they are the proper data type.

1050-00-E CANNOT RETURN RESULT -

APS cannot determine the result field for a function.

Resolution: You may have used a complex expression as a function argument; if so, you must create the result field in Working-Storage yourself. A second cause of error may be in syntax: check the number of parentheses coded with the function.

1051-00-E CANNOT CREATE FUNCTION RESULT -

Something other than Y or N specified for the CREATE RESULT field' indicator.

Resolution: Syntax for coding SQL built-in functions appears in the APS Reference.

1052-00-E INVALID USE OF DB-LOOP-MAX KEYWORD

DB-LOOP-MAX included in a command other than DB-PROCESS.

Resolution: Remove DB-LOOP-MAX from any command structure other than a DB-PROCESS.

1053-00-E INVALID USE OF UNION KEYWORD

The following conditions can cause this message:

- ORDER keyword coded before the end of a UNION
- UNION coded in a DB-PROCESS structure
- More than one DB-DECLARE coded in a UNION

Resolution: Check for the above conditions. Refer to the Reference for UNION syntax, examples and other coding guidelines.

1054-00-E UNION SELECT LIST INCOMPATIBLE

The select lists of each query in a UNION are not the same length.

Resolution: Each query should return the same number of columns, with a corresponding sequence of column length and type. See Reference for UNION syntax, examples and other coding guidelines.

1055-00-E DATA TYPE OF COLUMN IN FUNCTION CANNOT BE FOUND - REGEN SUBSCHEMA

To process SQL functions, APS/SQL needs data type information for each column. The current subschema does not contain data type information for all columns.

Resolution: REGEN your subschema to pick up this information.

1056-00-E INDICATOR STRUCTURE NOT FOUND FOR CURSOR *cursorname*

A fatal error occurred as a DB-MODIFY command processed either the cursor or the indicator structure for the cursor.

Resolution: Check the cursor name to ensure that the first 8 characters uniquely identify it, and it contains no more than 12 characters altogether.

If you have overridden generation or inclusion of indicator structures by APS, make sure you included your own indicator structures for the named cursor. Contact your APS Administrator for assistance.

1057-00-E INDICATOR STRUCTURE NOT FOUND FOR TABLE *tablename*

A fatal error occurred in processing the indicator structure for the named table.

Resolution: If you have overridden generation or inclusion of indicator structures by APS, make sure you have included your own indicator structures for the named cursor or table. Contact your APS Administrator for assistance.

1058-00-E INSERT TABLE CANNOT BE THE SAME AS SUBSELECT TABLE

You named the table or view into which data is being inserted by a DB-STORE as the source from where a subselect is drawing that data. The object of an insert cannot be the same as the object of the subselect.

Resolution: Change the object of the subselect or re-evaluate the need for a subselect.

1059-00-E COLUMNS IN SUBSELECT RESULT TABLE DO NOT MATCH INSERT COLUMN LIST

Select lists for insert and subselect are not the same length.

Resolution: The number of columns in the result table of the subselect must equal the number of names in the insert column select list.

1060-00-E GROUP BY SPECIFIED BUT NO COLUMN NAME FOLLOWS KEYWORD

No column name given after the GROUP keyword.

Resolution: Specify the appropriate column that is, the column you want to use as a grouping column. Note: APS applies column functions (MAX, MIN, SUM, AVG, or COUNT) to any column in the SELECT list that you did not specify as a grouping column.

1061-00-E INVALID COLUMN NAME *columnname* AFTER GROUP

APS could not find a column named in the GROUP BY clause in the SELECT list.

Resolution: Check to ensure every column named in the GROUP BY clause is also named in the SELECT list.

1062-00-E DIFFERENT LOCATION NAMES SEEN IN UNION

You cannot execute a UNION of tables from two or more different locations.

Resolution: In a UNION, refer only to tables in the same location.

1063-00-E DIFFERENT LOCATION NAMES SEEN IN JOIN

You cannot Join tables from two or more different locations.

Resolution: In a Join, refer only to tables in the same location.

1064-00-E CANNOT INSERT, DELETE, OR UPDATE FROM REMOTE LOCATION IF USING CICS OR IMS

When accessing remote tables or views via the CICS or IMS/VS attachment facility, you cannot use INSERT, DELETE, or UPDATE statements.

Resolution: If you use CICS or IMS, use INSERT, DELETE, and UPDATE statements on local tables only.

1065-00-E DISTINCT INVALID OR USED MORE THAN ONCE IN A STATEMENT

Either the DISTINCT keyword is invalid as used, or it appears more than once in a statement.

Resolution: Check for valid usage of the DISTINCT clause and remove any duplicate DISTINCT clauses. For example, a program may have a DISTINCT clause in one area, as well as a select statement such as COUNT (DISTINCT *columnname*).

1066-00-E COMMIT/ROLLBACK NOT SUPPORTED IN NON-ISPF ENVIRONMENT

You attempted to use the DB-COMMIT macro in a CICS or IMS program.

Resolution: Valid DC targets for DB-COMMIT and DB-ROLLBACK are TSO, BATCH, DLG, PM and DDS.

1067-00-E COMMIT WITH HOLD PARAMETER NOT SUPPORTED UNLESS USING SQL/400

When coding a DB-COMMIT, do not code the HOLD parameter unless the SQL target is SQL/400.

Resolution: Remove the HOLD parameter if your SQL target is not SQL/400.

1068-00-E INVALID PARAMETER SPECIFIED FOR COMMAND *command*

For the command named, you specified an invalid parameter.

Resolution: Re-check your syntax for the command named. Remove any invalid parameters.

1069-00-E WITH HOLD EXPECTED FOUND

An unexpected keyword found following WITH.

Resolution: Re-check your syntax for the command named. Remove any invalid parameters.

1070-00-E NUMBER OF ROW EXPECTED

An unexpected keyword found following OPTIMIZE.

Resolution: The OPTIMIZE keyword should immediately follow a number indicating the estimated maximum number of rows that the call will retrieve.

1071-00-I FETCH ONLY ASSUMED

An unexpected keyword found following FETCH.

Resolution: Re-check your syntax. The only valid keyword to immediately follow FETCH should be ONLY.

1072-00-E IN EXPR *expression* ARITHMETIC OPERATOR APPLIED TO CHAR

When evaluating the arithmetic expression indicated, a column with a CHARACTER data type encountered.

Resolution: You cannot apply arithmetic operations against columns defined as CHARACTER data types. Correct the expression.

1073-00-E MIXED DATA TYPES - CREATION OF RESULT FIELD NOT SUPPORTED

While evaluating a function in which you specified Y to allow APS to create the result field, APS encountered columns with more than one data type. APS cannot correctly create a result field for the function under these circumstances.

Resolution: Perform one of the following: Change the create result field parameter from Y to N and create the result field yourself. Otherwise, modify the function arguments so that they are the same data type.

1074-00-E COMMAND: *command* SUPPORTED FOR SQLSVR ONLY

Database command command is only supported if your SQL target is SQL SERVER.

Resolution: Remove the command.

1075-00-E KEYWORD: *keyword* SUPPORTED FOR SQLSVR ONLY

Keyword keyword is only supported if your SQL target is SQL SERVER.

Resolution: Remove the keyword.

1076-00-E UPDATE KEYWORD IS INVALID FOR SQLSVR

In a DB-PROCESS or DB-DECLARE, the UPDATE keyword is invalid if your SQL target is SQL SERVER.

Resolution: To modify columns during cursor processing, use the BROWSE keyword instead of UPDATE if your SQL target is SQL SERVER.

1077-00-E CANNOT HAVE BROWSE AND HOLDLOCK IN SAME CURSOR DECLARATION'

The HOLDLOCK keyword restricts a shared lock on a specific table by holding it until completion of a transaction. The HOLDLOCK and BROWSE keywords are mutually exclusive.

Resolution: Code only HOLDLOCK or BROWSE in a single cursor declaration.

1078-00-E AUTO KEYWORD IS ONLY VALID FOR DC TARGETS PM AND WIN. CURRENT DC: currentdc

APS only allows the AUTO keyword for DB-CONNECT for PM and WIN DC targets.

Resolution: Remove the AUTO keyword from the DB-CONNECT command.

1079-00-E DB2-AUTO-COMMIT DISABLED FOR SQLSVR'

APS does not support the DB2-AUTO-COMMIT option, which automatically generates a commit after a DB-MODIFY, DB-STORE, DB-ERASE or DB-CLOSE is not for SQL SERVER targets.

Resolution: Set &DB2-AUTO-COMMIT to NO.

1080-00-I DB-COMMIT USED WITHOUT DB-BEGIN-TRAN

APS found a DB-COMMIT that is not preceded by a DB-BEGIN-TRAN.

1081-00-E DB-BEGIN-TRAN USED WITHOUT DB-COMMIT

End DB-BEGIN-TRAN by coding a DB-COMMIT.

Resolution: Code a DB-COMMIT at transaction end.

1082-00-E KEYWORD: *keyword* SUPPORTED FOR ORACLE ONLY

Keyword *keyword* is only supported if your SQL target is ORACLE.

Resolution: Remove the keyword.

1083-00-E COMMAND - *command* CANNOT HAVE AT-DBNAME CLAUSE

The AT-DBNAME clause is only valid for DB-PROCESS, DB-DECLARE, DB-STORE, DB-OBTAIN, DB-ERASE, and DB-MODIFY database commands.

Resolution: Remove the AT-DBNAME clause.

1084-00-E COMMAND: *command* SUPPORTED FOR ORACLE ONLY'

Database command *command* is only supported if your SQL target is ORACLE.

Resolution: Remove the command.

1086-00-E EXPRESSION NOT VALID FOR COMMAND: *command*

APS/SQL supports expressions for DB-DECLARE, DB-OBTAIN, and DB-PROCESS calls. Expressions in all other APS/SQL calls are invalid.

Resolution: Modify the named command so that it no longer specifies an expression.

APS-DCL

0900-00-F PSB OR SUBSCHEMA INVOKED MORE THAN ONCE

You coded the \$IM-PSB or \$DB-SUBSCHEMA macro more than once.

Resolution: The two macros are synonymous. Invoke only one.

0910-00-F REGENERATE DDI SYMBOLS USING 17Q OR GREATER

You must regenerate the DDI symbols with the current release of the DDI utility.

Resolution: Regenerate the symbols using the appropriate software. Contact your APS Administrator for assistance.

1010-00-E NO PARMS PASSED

APS invoked a database macro call but you did not pass any parameters.

Resolution: Correct the call by specifying the appropriate parameters.

1030-00-E 'REC' OR 'REF' EXPECTED AS SECOND PARM

If specifying record type as the first parameter (i.e., GSAM, VSAM, or DLI), then REC or REF must be the second parameter.

Resolution: Correct the call by specifying either REC or REF as the second parameter.

1040-00-E 'MODE' KEYWORD EXPECTED

For a DB-OPEN, you must specify the MODE keyword followed by the access mode.

Resolution: Correct the call by specifying the keyword MODE followed by appropriate access mode.

1050-00-E 'NEXT' VALID ONLY FOR DB-OBTAIN

The keyword NEXT or NEXTREC pertains only to retrievals.

Resolution: This keyword generates an unqualified retrieval call. It is therefore valid only for a DB-OBTAIN.

1060-00-E 'INTO' EXPECTED AS SECOND PARM

When you use the NEXT or NEXTREC keyword, the following parameter must be INTO followed by a data area.

Resolution: Correct the call by specifying the keyword INTO as a second parameter followed by a data area.

1070-00-E RECORD NAME EXPECTED; NO MORE PARMS

The COBOL record name must follow the keywords REF, REFERENCE, REC, or RECORD.

Resolution: Correct the call by specifying the COBOL record name after the keyword REC or REF.

1080-00-E 'CKEYED' VALID ONLY FOR FIRST RECORD

A concatenated key value is valid only for the first record specified in the retrieval call.

Resolution: Correct the call by removing the keyword CKEYED specified for any record other than the first one.

1090-00-E 'CKEYED' SPECIFIED MORE THAN ONCE

You can specify the keyword CKEYED or CONCAT-KEYED only once per call.

Resolution: Correct the call by specifying the keyword CKEYED only once.

1100-00-E CONCATENATED KEY VALUE EXPECTED, NO MORE PARMS

You must follow the keyword CKEYED or CONCAT-KEYED with a data field containing the concatenated key value or literal.

Resolution: Specify a literal or data area containing the concatenated key value after the keyword CKEYED.

1110-00-E QUALIFICATION NOT ALLOWED FOR COMMAND

You cannot qualify this command with a field qualification or with the keyword CURRENT.

Resolution: Correct the call by removing the keyword CURRENT or the field qualification.

1120-00-E 'CURRENT' ONLY VALID FOR FIRST RECORD

The keyword CURRENT is valid only if it follows the first record in the call.

Resolution: Correct the call by removing the keyword CURRENT from any record other than the first one.

1130-00-E 'CURRENT' ONLY VALID FOR 'REFERENCED' RECORD

The keyword CURRENT is valid only for a record that you precede with the keyword REFERENCE or REF.

Resolution: Correct the call by specifying the keyword CURRENT only for the first record and only if that record precedes the keyword REF.

1140-00-E 'CURRENT' SPECIFIED MORE THAN ONCE

You can specify the keyword CURRENT only once per call.

Resolution: Correct the call by specifying the keyword CURRENT only once.

1150-00-E 'FROM' OR 'INTO' SPECIFIED MORE THAN ONCE

You can specify the keywords FROM or INTO only once per record retrieved.

Resolution: Correct the call by specifying the keyword FROM or INTO only once per record.

1160-00-E DATA NAME EXPECTED, NO MORE PARMS

APS expects a data area following the preceding keyword.

Resolution: You coded the keyword FROM, INTO, OF, or IN as the very last parameter. Correct the call by specifying a data area to follow the keyword.

1170-00-E 'FROM' OR 'INTO' EXPECTED FOLLOWED BY DATA AREA

When you use the keyword IMSREC, a data area must follow the keyword FROM or INTO.

Resolution: Correct the call by specifying a data area after the keyword FROM or INTO.

1180-00-E 'WHERE' KEYWORD FOUND, EXPECTED 'REC' OR 'REF' OR BOOLEAN OPERATOR

You can only specify the keyword WHERE once per qualification for a record.

Resolution: Correct the syntax of the field qualification.

1190-00-E FIELD QUALIFICATION INVALID WHEN USING KEYWORD 'IMSREC'

The keyword IMSREC and a field qualification are mutually exclusive.

Resolution: Correct the call by removing the field qualification.

1200-00-E FIELD QUALIFICATION INVALID WITH 'CURRENT'

The keyword CURRENT and a field qualification are mutually exclusive.

Resolution: Correct the call by removing either the field qualification or the keyword CURRENT.

1210-00-E FIELD QUALIFICATION INVALID WITH 'CKEYED'

The keyword CKEYED or CONCAT-KEYED and a field qualification are mutually exclusive.

Resolution: Correct the call by removing either the field qualification or the keyword CKEYED.

1220-00-E FIELD NAME EXPECTED, NO MORE PARMS

APS expects a COBOL field name to complete the qualification.

Resolution: Complete the qualification by specifying a COBOL field name followed by a relational operator and then followed by a data area.

1230-00-E RELATIONAL OPERATOR EXPECTED, NO MORE PARMS

APS expects a relational operator to complete the qualification.

Resolution: Complete the qualification by specifying a relational operator followed by a data area.

1240-00-E RELATIONAL OPERATOR EXPECTED

APS expects a relational operator.

Resolution: The symbol or character abbreviation for the relational operator is incorrect. Correct the call by specifying the proper relational operator.

1250-00-E FIELD VALUE EXPECTED, NO MORE PARMS

APS expects a value field or literal to complete the qualification.

Resolution: Correct the call by specifying a literal or data field containing the value for the field qualification after the relational operator.

1260-00-E SUBSCRIPT EXPECTED, NO MORE PARMS

You must follow the keyword SUB or SUBSCRIPT with a subscript.

Resolution: Correct the call by specifying a subscript after the keyword SUB. Parentheses surrounding the subscript are optional.

1270-00-E RIGHT PAREN EXPECTED FOLLOWING KEY QUALIFICATION, NO MORE PARMS

You coded a left parenthesis to indicate that the following key qualification contains more than one field but you did not terminate the qualification with a right parenthesis.

Resolution: Correct the call by ending the field qualification with a right parenthesis.

1280-00-E 'FIRST' OR 'LAST' INVALID WITH 'CURRENT'

The keyword CURRENT and FIRST or LAST are mutually exclusive.

Resolution: Correct the call by removing either the keyword FIRST, LAST, or CURRENT.

1290-00-E 'FIRST' OR 'LAST' SPECIFIED MORE THAN ONCE FOR RECORD

You specified the keyword FIRST or LAST more than once for the record.

Resolution: Correct the call by specifying the keyword FIRST or LAST only once per record.

1300-00-E 'CCODE' FOUND MORE THAN ONCE FOR RECORD

You specified the keyword CCODE or COMMAND-CODE more than once for the record.

Resolution: Correct the call by specifying the keyword CCODE only once per record.

1310-00-E COMMAND CODE EXPECTED, NO MORE PARMS

You must follow the keyword CCODE or COMMAND-CODE with one or more command codes.

Resolution: Correct the call by specifying appropriate command code(s) after the keyword CCODE.

1320-00-E 'FROM' OR 'INTO' SPECIFIED MORE THAN ONCE FOR RECORD

You specified the keyword FROM or INTO more than once for the record.

Resolution: Correct the call by specifying the keyword FROM or INTO only once per record.

1330-00-E 'NEXT' OR 'IMSREC' INVALID WHEN SPECIFYING MORE THAN ONE RECORD PER CALL

You cannot specify the keywords NEXT, NEXTREC, or IMSREC in a multi-level call.

Resolution: Correct the call by specifying only one record level when using the keyword NEXT or IMSREC.

1340-00-E 'VIEW' SPECIFIED MORE THAN ONCE

You can specify the keyword VIEW only once per call.

Resolution: Correct the call by specifying the keyword VIEW only once.

1350-00-E VIEW NAME EXPECTED, NO MORE PARMS

You must follow the keyword VIEW with a view name.

Resolution: Correct the call by specifying a view name after the keyword VIEW.

1360-00-E 'RESET' SPECIFIED MORE THAN ONCE

You can specify the keyword RESET only once per call.

Resolution: Correct the call by specifying the keyword RESET only once.

1370-00-E 'HOLD'/'NOHOLD' SPECIFIED MORE THAN ONCE

You can specify the keyword HOLD or NOHOLD only once per call.

Resolution: Correct the call by specifying the keyword HOLD or NOHOLD only once.

1380-00-E 'PREV' SPECIFIED MORE THAN ONCE

You can specify the keyword PREV or PREVIOUS only once per call.

Resolution: Correct the call by specifying the keyword PREV only once.

1390-00-E KEYLENGTH EXPECTED, NO MORE PARMS

You must follow the keyword KLEN or KEYLENGTH with a keylength.

Resolution: Correct the call by specifying a keylength after the keyword KLEN.

1400-00-E UNRECOGNIZED OR MISPLACED PARM

The parameter is invalid or it is in the wrong place in the command.

Resolution: Check the spelling and/or placement of the parameter.

1410-00-E 'VIEW' KEYWORD FOLLOWED BY VIEW NAME IS REQUIRED FOR THIS CALL

If you specify the keyword NEXT, NEXTREC, or IMSREC, then you must follow the keyword VIEW with a view name.

Resolution: Correct the call by specifying the keyword VIEW followed by a view name.

1420-00-E AT LEAST ONE RECORD MUST BE ACTED UPON BY SPECIFYING KEYWORD 'REC'

If the call is DB-MODIFY or DB-STORE, at least one of the records specified must be acted upon by prefacing it with the keyword REC or RECORD.

Resolution: Correct the call by prefacing the record(s) to be modified or inserted with the keyword REC.

1430-00-E 'CKEYED' INVALID FOR DB-MODIFY

The keyword CKEYED or CONCAT-KEYED is invalid for DB-MODIFY.

Resolution: Correct the call by removing the keyword CKEYED.

1440-00-E ADDED RECORD MAY NOT BE QUALIFIED BY CONCATENATED KEY

You cannot qualify the record you want to add with a concatenated key value.

Resolution: Correct the call by removing the keyword CKEYED.

1450-00-E DEPENDENT RECORD UNDER RECORD TO BE ADDED MAY NOT BE REFERENCED

You cannot precede a record under a record you want to add with the keyword REF or REFERENCE. You must precede it with the keyword REC or RECORD.

Resolution: Ensure that you preface each record you want to insert with the keyword REC.

1460-00-E FIELD QUALIFICATION INVALID FOR ADDED RECORD

You cannot qualify a record you want to add with a field qualification.

Resolution: Correct the call by removing the field qualification or the record you want to insert.

1470-00-E DEPENDENT RECORD UNDER RECORD TO BE DELETED MAY NOT BE REFERENCED

For a DB-ERASE, you must precede any record which is a child of a record you want to delete with the keyword REC.

Resolution: Correct the call by specifying the keyword REC for all records under the first record you want to delete.

1480-00-E LOWEST LEVEL RECORD MUST BE PRECEDED BY KEYWORD 'REC'

For a DB-ERASE, you must precede the lowest level record specified with the keyword REC or RECORD.

Resolution: Correct the call by specifying the keyword REC before the lowest level record in the call.

1490-00-E COMMAND CODES INVALID FOR DB-ERASE

You cannot specify command codes for DB-ERASE.

Resolution: Correct the call by removing the keyword CCODE.

1500-00-E 'CKEYED' INVALID FOR DB-ERASE

The keyword CKEYED or CONCAT-KEYED is invalid for DB-ERASE.

Resolution: Correct the call by removing the keyword CKEYED.

1510-00-E EXPECTED KEYWORD, RELATIONAL OR BOOLEAN OPERATOR

APS did not recognize the keyword you specified.

Resolution: Check the spelling and/or placement of the parameter in question.

1520-00-E FIRST KEYWORD NOT RECOGNIZED: keyword

APS did not recognize the keyword specified.

Resolution: Check the spelling of the keyword.

1530-00-E RECORD NAME MISSING

APS did not recognize the keyword specified.

Resolution: Check the spelling of the keyword.

1540-00-E RECORD NAME NOT DEFINED TO SUBSCHEMA RECORD NAME: (RECORD-NAME)

APS did not find the record name on the command in the subschema symbols.

Resolution: Check spelling of record name or check DDISRC for record name.

2000-00-E DO NOT USE SUBSCRIPTED FIELDS WITH 'EXEC DLI' COMMANDS

SUBSCRIPT keyword invalid in EXEC DLI commands.

Resolution: Remove SUBSCRIPT keyword from command.

2005-00-E DO NOT USE SUBSCRIPTED FIELDS WITH 'EXEC DLI' COMMANDS

OF and IN keywords invalid in EXEC DLI commands.

Resolution: Remove OF or IN keyword from command.

2007-00-E DO NOT USE MULTIPLE FIELD VALUES WITH 'EXEC DLI' COMMANDS

Multiple field values invalid in EXEC DLI commands.

Resolution: Remove multiple field values for key qualification. APS permits only one value.

2010-00-E 'LOCK' KEYWORD INVALID FOR 'REFERENCED' RECORDS

You cannot lock a record that you REference.

Resolution: Remove LOCK keyword from command.

2020-00-E 'LOCK' KEYWORD SPECIFIED MORE THAN ONCE

You specified the LOCK keyword more than once.

Resolution: Remove the extra LOCK keyword.

2030-00-E RECORD LENGTH EXPECTED. NO MORE PARMS

You specified the LENGTH keyword but did not follow it with a record length.

Resolution: Specify the record length after the keyword LENGTH.

2040-00-E OFFSET VALUE EXPECTED. NO MORE PARMS

You specified the OFFSET keyword but did not follow it with a record offset.

Resolution: Specify an offset after the keyword OFFSET.

2050-00-E KEYWORD 'RELENGTH' MUST BE SPECIFIED

APS requires the RELENGTH keyword for this command.

Resolution: Specify the RELENGTH keyword followed by the record length.

2060-00-E 'RESET' INVALID WITH 'CURRENT' FOR EXEC DLI

The keyword RESET is invalid when used with the keyword CURRENT.

Resolution: Remove the RESET keyword.

2070-00-E 'RESET INVALID WITH 'FIRST' FOR EXEC DLI

The keyword RESET is invalid when used with the keyword FIRST.

Resolution: Remove the RESET keyword.

2080-00-E 'GN' CALL ISSUED FOR THIS COMMAND RESET-POSITION FLAG ASSUMED TO BE FALSE

APS generated a GET NEXT call for this command.

Resolution: No response necessary. This is a warning message.

APS-DDI

Category: DB macros.

1000-00-F UNTIL ERROR; PT-PACK TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, a pointer calculated was out of range.

Resolution: Contact your APS Administrator.

1001-00-F UNTIL ERROR; PT-TEXT TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, text calculated was out of range.

Resolution: Contact your APS Administrator.

1002-00-F ERROR IN DELETE; CALL MICRO FOCUS

Fatal error, processing stopped. When deleting an entity from the DDI file, a file error occurred.

Resolution: Contact your APS Administrator.

1003-00-F EMPTY DDIFILE

Fatal error, processing stopped. APS attempted to search the DDI file and found it empty.

Resolution: Check JCL to be sure it is pointing to the correct DDI file.

1004-00-F SAVE/CANCEL FILE ACCESS: *statuscode*

Fatal error, processing stopped. A SAVE or CANCEL on the DDI file failed.

Resolution: Contact your APS Administrator.

1005-00-F CREATE/UPDATE FILE ACCESS: *statuscode*

Fatal error, processing stopped. A CREATE or UPDATE on the DDI file failed.

Resolution: Contact your APS Administrator.

1006-00-F RECORD READ ACCESS: *statuscode*

Fatal error, processing stopped. A READ on the DDI file failed.

Resolution: Contact your APS Administrator.

1007-00-F UNTIL ERROR; PT-PACK TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, a pointer calculated was out of range.

Resolution: Contact your APS Administrator.

1008-00-F UNTIL ERROR; PT-TEXT TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, the text calculated was out of range.

Resolution: Contact your APS Administrator.

1009-00-F UNCLEAR ENTITY FOUND; RELOAD INTO DDIFILE

An error occurred when reading the DDI file.

Resolution: Reload the entity into the file.

1010-00-F PARAMETER NAME TOO LONG

On the JCL parameter NAME= the name that followed (a PSB or DBD name) was greater than 8 characters.

Resolution: Correct the error and resubmit.

1011-00-F INVALID PARAMETER FOUND

APS found an invalid JCL parameter. Valid parameters are:

- \$#& NOPHYS
- CICS NAME=
- NOPDS PSB=
- DEBUG DBD=
- PLI

Resolution: Correct the error and resubmit.

1012-00-F TOO MANY PSB NAMES

You specified more than 1000 PSB names on the PSB= parameter.

Resolution: Correct the error and resubmit.

1014-00-F SEGMENT NOT FOUND

APS did not find the segment named in the PSB in either the DBD or the DDI statements source.

Resolution: Correct the error and resubmit.

1015-00-F SEGMENT PARENT NOT FOUND

APS did not find the segment parent specified on the PSB in the DBD.

Resolution: Correct the error and resubmit.

1016-00-F UNTIL2 PROGRAM ERROR

Software error.

Resolution: Contact your APS Administrator.

1017-00-F DDG PROGRAM ERROR

Software error.

Resolution: Contact your APS Administrator.

1018-00-F RECORD NOT FOUND

APS did not find the named record in the DDI file. Reloading into the DDI file may be necessary.

Resolution: Correct error and resubmit.

1019-00-F RECORD IS LOCKED

The named record is locked on the DDI file.

Resolution: Run the DDI unlock utility and resubmit.

1020-00-F UNTIL ERROR; PT-PACK TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, a pointer calculated was out of range.

Resolution: Contact your APS Administrator.

1021-00-F UNTIL ERROR; PT-TEXT TOO LONG

Fatal error, processing stopped. When unpacking data from the DDI file, text calculated was out of range.

Resolution: Contact your APS Administrator.

1022-00-F SAVE/CANCEL FILE ACCESS; *statuscode*

Fatal error, processing stopped. A SAVE or CANCEL on the DDI file failed.

Resolution: Contact your APS Administrator.

1023-00-F CREATE/UPDATE FILE ACCESS: *statuscode*

Fatal error, processing stopped. A CREATE or UPDATE on the DDI file failed.

Resolution: Unlock the DDIFILE. If this is unsuccessful, contact your APS Administrator.

1024-00-F RECORD READ ACCESS: *statuscode*

Fatal error, processing stopped. A READ on the DDI file failed.

Resolution: Contact your APS Administrator.

1025-00-F CREATE FILE ACCESS: *statuscode*

Fatal error, processing stopped. A CREATE on the DDI file failed.

Resolution: Ensure there is enough space for the entity on the DDI file and resubmit the job.

1026-00-F SAVE/CREATE FILE ACCESS: *statuscode*

Fatal error, processing stopped. A CREATE or UPDATE on the DDI file failed.

Resolution: Contact your APS Administrator.

1027-00-F DELETE FILE ACCESS: *statuscode*

Fatal error, processing stopped. A DELETE on the DDI file failed.

Resolution: Contact your APS Administrator. Please be ready to give complete information when calling. See Generator Reporting.

1028-00-F ILLEGAL VERSION FLD

While processing DDI statements for a DBD, APS found a version field that is not-numeric.

Resolution: Correct error and resubmit.

1029-00-F VERSION FLD TOO LARGE

While processing DDI statements for a DBD, APS found a version field that is greater than 255.

Resolution: Correct error and resubmit.

1030-00-F ILLEGAL MOD FLD

While processing DDI statements for a DBD, APS found a MOD field that is not numeric.

Resolution: Correct error and resubmit.

1031-00-F MOD FLD TOO LARGE

While processing DDI statements for a DBD, APS found a MOD field is greater than 255.

Resolution: Correct error and resubmit.

1032-00-F DID NOT FIND DBDNAME OR PSBNAME PARAMETER

While processing a PSB, APS did not find the DBDNAME= or PSBNAME= parameter.

Resolution: Correct error and resubmit.

1033-00-F DBDNAME NOT FOUND

While processing a PSB, APS found the DBDNAME= parameter with a nonexistent name for the DBD.

Resolution: Correct error and resubmit.

1034-00-F DBD TABLE LIMIT EXCEEDED; MAX IS 10

While processing a PSB, APS detected more than 10 DBD references.

Resolution: Correct error and resubmit.

1035-00-F PSBNAME NOT FOUND

While processing a PSB, the PSBNAME= parameter had no name associated with it.

Resolution: Correct error and resubmit.

1036-00-F PSB TABLE LIMIT EXCEEDED; MAX IS 10

While processing a PSB, APS detected more than 10 PSB references.

Resolution: Correct error and resubmit.

1037-00-F UNEXPECTED EOF ON DBD/PSB FILE

APS found a continuation character at the end of a PSB or DBD. APS did not find a DBDGEN, FINISH, or END for a DBD; APS did not find a PSBGEN or END for a PSB.

Resolution: Correct error and resubmit.

1038-00-F DBD NAME > 8 CHARACTERS

APS found a DBD name longer than 8 characters.

Resolution: Change the name of the DBD character to be 8 characters or less.

1039-00-F PARM NOT DEBUG OR IGNORE, INVALID

Invalid keyword passed as a parameter to DDIDDG.

Resolution: Change the keyword.

1041-00-F RIGHT PAREN MISSING ON PARM

You did not close a parameter with a right parenthesis.

Resolution: Add a right parenthesis to the parameter.

1042-00-F NO RIGHT PAREN FOUND ON PARM

Parameter is missing a right parenthesis.

Resolution: Add right parenthesis to parameter.

2000-00-E CARD MUST BEGIN WITH *DDI

APS found something other than *DDI starting in column 7 of the DDI source.

Resolution: Correct the statement and resubmit.

2001-00-E INVALID CARD TYPE

DDI statements for VSAM processing must have a valid type starting in column 12. Valid types are:

- VSM
- REC
- IDX
- SUB

Resolution: Correct the statement and resubmit.

2002-00-E DDNAME REQUIRED FOR ALT INDICES

APS requires A DDN= followed by a name up to 8 characters for alternate indices. This name is the VSAM ddname of the file where APS defines the alternate index.

Resolution: Correct the statement and resubmit.

2003-00-E DDN FOR PRIMARY IDX NOT EQUAL TO VSM DDN

If you supply a ddname for a primary index, it must be the same name as the ddname of the file. If you do not supply a ddname, it defaults to the VSAM ddname.

Resolution: Correct the statement and resubmit.

2004-00-E SHORT NAME REQUIRED FOR RECORD

You must supply a short record name on all REC statements. This name may be up to 8 characters.

Resolution: Correct the statement and resubmit.

2005-00-E COPY PARAMETER ONLY ALLOWED ON THE FIRST REC

When defining a file with multiple records, only the first REC statement can have a COPY=. This copybook member should contain a definition for all records in the file.

Resolution: Correct the statement and resubmit.

2006-00-E MAXLEN REQUIRED FOR RECORD

All REC statements require a maximum record length.

Resolution: Correct the statement and resubmit.

2007-00-E RECORD NAME MISSING

APS did not find a NAME= parameter on a REC statement. APS requires a COBOL record name up to 30 characters. The name of the first record is also the long file name for the file.

Resolution: Correct the statement and resubmit.

2008-00-E FILE DDN MISSING

APS did not find a DDN= parameter on a VSM statement. APS requires a ddname for the file; it can be up to 8 characters.

Resolution: Correct the statement and resubmit.

2009-00-E MEMBER NAME MISSING

APS did not find a COPY= parameter followed by an 8 character name on a REC statement. This copybook member gives the record description.

Resolution: Correct the statement and resubmit.

2010-00-E INVALID COPY SOURCE TYPE

APS found a SOURCE= parameter with a value other than P (PDS member) or C (COBOL copybook member).

Resolution: Correct the statement and resubmit.

2011-00-E INVALID FILE RECORD TYPE

APS found a VSM statement with an invalid TYPE=. Valid record types are:

- K(eyed) file
- E(ntry) sequenced
- R(elative) record

Resolution: Correct the statement and resubmit.

2012-00-E MAX RECORD LENGTH MISSING

All REC statements require MAXLEN=.

Resolution: Correct the statement and resubmit.

2013-00-E AVG LENGTH GREATER THAN MAXIMUM

On a variable length file, the average length of the record is larger than the maximum length. AVGLLEN= should be less than or equal to MAXLEN=.

Resolution: Correct the statement and resubmit.

2014-00-E INDEX DATA MISSING FOR KEYED FILE

You must code at least one IDX statement for a keyed VSAM file. The IDX statement must follow the first REC statement for the file.

Resolution: Correct the statement and resubmit.

2015-00-E SUBSCHEMA NAME MISSING

APS found a SUB statement without NAME=. This is the name of the VSAM subschema and may be up to 8 characters.

Resolution: Correct the statement and resubmit.

2016-00-E SUBSCHEMA RECORDS MISSING

APS found a SUB statement without REC=. This name should be the COBOL record name of the first record in the VSAM file and can be up to 30 characters.

Resolution: Correct the statement and resubmit.

2017-00-E REC CARD HAS INVALID KEYWORD

APS found a REC statement with an invalid keyword. Valid keywords are:

- NAME=
- MAXLEN=
- SHORT=
- AVGLEN=
- COPY=
- PREFIX=
- SOURCE=

Resolution: Correct the statement and resubmit.

2018-00-E SUB CARD HAS INVALID KEYWORD

APS found a SUB statement with an invalid keyword. Valid keywords are:

- ACCESS= or ACC=
- ASSIGN= or AS=
- BLOCK= or BLK=
- LABEL= or LAB=
- PROCOPT=
- RECORD=

Resolution: Correct the statement and resubmit.

2019-00-E INVALID FILE PROCESSING OPTION

APS found a SUB statement with a PROCOPT= followed by an invalid processing option. Valid options are:

- A(II) options allowed (default)
- G(et) allowed (read)
- I(nsert) allowed
- D(elete) allowed
- R(eplace) allowed

Resolution: Correct the statement and resubmit.

2020-00-E NO PSBNAME OR DBDNAME FOUND

APS did not find any PSB names or DBD names on the JCL parameter.

Resolution: Correct the error and resubmit.

2021-00-E IMPROPER FORMAT IN THE DBD PARAMETER

APS found an error specifying a second argument on the DBD= parameter. Either a right parenthesis is missing or you supplied a non-numeric character.

Resolution: Correct the error and resubmit.

2023-00-E PROCSEQ OR INDICIES NOT IN DBD

When processing the PSB, APS did not find a PROCSEQ or indices specified in the DBD.

Resolution: Correct the error and resubmit.

2024-00-E SEGMENT NOT FOUND FOR XDFLD

When processing the DBD, APS did not find the specified segment for the XDFLD in the DDI file.

Resolution: Correct the error and resubmit.

2025-00-E RECORD NOT FOUND

APS did not find the named VSAM record on the DDI file.

Resolution: Correct the error and resubmit.

2026-00-E UNRECOGNIZED PARAMETER

APS found an invalid statement in the DBD, DDI statements, or PSB source.

Resolution: Correct error and resubmit.

2027-00-E ILLEGAL SYNTAX IN DDI CARD

APS found a DDI statement with an illegal keyword. Valid keywords are:

- DBD
- REC
- PSB
- FLD

Resolution: Correct error and resubmit.

2028-00-E FOUND CARD NOT STARTING WITH *DDI

APS found a statement in the DDI source that did not start with *DDI.

Resolution: Correct error and resubmit.

2029-00-E MISSING DBD NAME OR ACCESS

When processing a DBD, APS did not find the NAME= or ACCESS= parameter.

Resolution: Correct error and resubmit.

2030-00-E ILLEGAL DATASET

You defined a label field in a data set statement without operands; but the access method specified in the DBD statement does not allow labeling without operands. Access must be HDAM or HIDAM.

Resolution: Correct error and resubmit.

2031-00-E NO MATCHING DATASET LABEL

You did not previously define the label specified on the current data set with operands.

Resolution: Correct error and resubmit.

2032-00-E NO PRECEDING SEGMENT FOR FIELD

When processing a DBD, APS found a FLD statement without a segment before it.

Resolution: Correct error and resubmit.

2033-00-E NO PRECEDING SEGMENT FOR LCHILD

When processing a DBD, APS found an LCHILD statement without a segment before it.

Resolution: Correct error and resubmit.

2034-00-E NO PRECEDING SEGMENT FOR XDFLD

When processing a DBD, APS found an XDFLD statement without a segment before it.

Resolution: Correct error and resubmit.

2035-00-E MISSING PSB NAME

The PSB name is missing from the parameter supplied to generate the step.

Resolution: Correct error and resubmit.

2036-00-E MISSING OR ILLEGAL PCB TYPE

While processing a PCB, APS found the TYPE = parameter missing or invalid.

Resolution: Correct error and resubmit.

2037-00-E NO PREVIOUS PCB FOR SENSEG

While processing a PSB, APS found a SENSEG parameter without a prior PCB statement.

Resolution: Correct error and resubmit.

2038-00-E NO PREVIOUS SENSEG FOR SENFLD

While processing a PSB, APS found a SENFLD statement without a prior SENSEG statement.

Resolution: Correct error and resubmit.

2039-00-E INVALID KEYWORD FOUND ON DBD ATTACH CARD

While processing a DBD, APS found a DBD DDI statement with something other than name or version.

Resolution: Correct error and resubmit.

2040-00-E CONTINUATION EXPECTED; FOUND END OF FILE

APS found a comma at the end of a DDI statement and the next READ found the end of file.

Resolution: Correct the error and resubmit.

2041-00-E EXPECTED CONTINUATION NOT FOUND

When processing the DDI statements, APS found a statement with a comma at the end and you did not continue the statement on the next line.

Resolution: Correct error and resubmit.

2042-00-E ATTEMPT TO UPDATE FAILED

Another job locked the DBD specified on the control card for update.

Resolution: Resubmit the job.

2043-00-E DBD NOT FOUND

While reading the DDI file, APS did not find the named DBD.

Resolution: Ensure the DBD name on the DBD and DDI statements are the same. Check to see that the DBD named on the PSB is correct and check to see if you loaded the DBD in the DDI file. Then, resubmit the job.

2044-00-E PSB NOT FOUND

While reading the DDI file, APS did not find the named PSB.

Resolution: Ensure that you loaded the PSB into the DDI file. Resubmit the job.

2045-00-E REC HAS NO DBD BEFORE IT

When processing the DDI statements for the DBD, APS found a REC statement without a DBD statement before it.

Resolution: Correct the input and resubmit the job.

2046-00-E ILLEGAL KEYWORD FOUND ON REC ATTACH CARD

APS found an invalid keyword in the DDI source. Valid keywords are:

- NAME
- COPY
- SEG

Resolution: Correct the input and resubmit the job.

2047-00-E SEGMENT NOT FOUND

When processing the DDI statements for a DBD, the SEG= parameter named a segment not found in the DBD.

Resolution: Correct the input and resubmit.

2048-00-E FLD HAS NO REC BEFORE IT

When processing the DDI statements, APS found a FLD statement without a REC statement before it.

Resolution: Correct the input and resubmit.

2049-00-E FLD IMSNAME NOT FOUND UNDER SEGMENT

The IMSNAME keyword in the DDISRC must reference a DBDSRC NAME keyword defined in the segment being processed.

Resolution: Correct the input and resubmit.

2050-00-E ILLEGAL CONTINUATION

A nonblank character must be in column 72 for continuation or you must continue the next line in column 16.

Resolution: Correct the input and resubmit.

2051-00-E ILLEGAL KEYWORD FOUND ON FLD ATTACH CARD

While processing the DDI statements, APS found a FLD statement with an invalid parameter. Valid FLD parameters are:

- NAME=
- IMSNAME=
- PIC=

Resolution: Correct the input and resubmit.

2052-00-E *DDI FLD CARD HAS NO IMSNAME

While processing DDI statements for PCB-level DDI overrides, APS encountered a FLD statement without a IMSNAME= keyword or with spaces following IMSNAME=.

Resolution: Correct the input and resubmit.

2053-00-E A PCB CARD WAS NOT ENTERED FOR ALL PCB'S

While processing DDI statements for PCB-level overrides, you did not enter enough PCB statements to match all the TP and DB PCBs in the PSB.

Resolution: Correct the input and resubmit.

2054-00-E REC CARD HAS NO PCB CARD BEFORE IT

While processing DDI statements for PCB-level DDI overrides, APS encountered a REC statement out of order. A REC statement must have a PCB statement preceding it. The proper statement sequence for PCB-level DDI statements is:

- *DDI PSB
- *DDI PCB
- *DDI REC
- *DDI FLD

Resolution: Correct the input and resubmit.

2055-00-E PCB CARD HAS NO PSB CARD BEFORE IT

While processing DDI statements for a PCB-level override, APS encountered a PCB statement out of order. A PCB statement must have a REC statement following it. The proper sequence for PCB-level DDI statements is:

- *DDI PSB
- *DDI PCB
- *DDI REC
- *DDI FLD

Resolution: Correct the input and resubmit.

2056-00-E INVALID KEYWORD FOUND ON PSB ATTACH CARD

When processing a PSB statement for DDI overrides, APS encountered a keyword other than NAME=. NAME= is the only valid keyword.

Resolution: Correct the input and resubmit.

2057-00-E IDX ONLY ALLOWED FOR KSDS

While processing a VSAM file definition, APS found an IDX statement for an ESDS or relative record file.

Resolution: Correct and resubmit.

2058-00-E TYPE=P REQUIRED FOR PRIMARY IDX

While processing a VSAM file definition, APS found a TYPE = parameter other than P for the primary IDX.

Resolution: Correct statement and resubmit.

3000-00-N PSB AND/OR SUBSCHEMA NOT DLI OR VSAM

While executing one step in the PSBGEN utility, APS noticed the named PSB or subschema neither a DL/I nor VSAM type.

Resolution: This is only a note; no response necessary. APS will continue processing.

4000-00-I DUPLICATE 01 NAME

While processing a DBD, APS found a duplicate COBOL name on the DDI statements. This prevents a COBOL program from compiling.

Resolution: Create unique COBOL names through the DDI statements.

4001-00-I DEFAULTED TO 8 CHAR IMSNAME

While processing a DBD, APS did not find a DDI statement specifying a COBOL name for the field.

Resolution: This is an informational message. Processing will continue.

4002-00-I NAME IN EXCESS OF 30 CHARACTERS, RIGHT MOST TRUNCATED

When processing *DDI statements, APS found a NAME= followed by a name greater than 30 characters in length. APS will truncate the name on the right to a length of 30.

Resolution: Use a name of 30 characters or less.

4003-00-I NAME IN EXCESS OF 30 CHARACTERS, RIGHT MOST TRUNCATED

When processing *DDI statements for VSAM, APS found a NAME= followed by a name greater than 30 characters in length. APS will truncate the name on the right to a length of 30.

Resolution: Use a name of 30 characters or less.

4004-00-I FOREIGN DBD REFERENCED, PCB PROCESSED

PCB processed referenced a DBD for an IGNORE option.

Resolution: Information item only; no user action required.

5000-00-D CREATE WAS UNSUCCESSFUL FOR *entityname* CHECK ERROR MESSAGES

CREATE was unsuccessful for the entity named for reasons stated in prior error messages.

Resolution: Correct the errors and resubmit.

5001-00-D FILE BOUNDARY VIOLATION; FILE MAY BE FULL

On a cancel of a CREATE, a boundary violation occurred on the DDI file, probably due to lack of space.

Resolution: Run the DDI unlock utility and increase the space on the DDI file.

5002-00-D UPDATE WAS UNSUCCESSFUL FOR *entityname* CHECK ERROR MESSAGES

An UPDATE was unsuccessful for the entity named for reasons stated in prior error messages.

Resolution: Correct errors and resubmit.

5003-00-D FILE BOUNDARY VIOLATION; FILE MAY BE FULL

On a cancel of an UPDATE, a boundary violation occurred on the DDI file, probably due to lack of space.

Resolution: Run the DDI unlock utility and increase the space on the DDI file.

5004-00-D FILE BOUNDARY VIOLATION; FILE MAY BE FULL

On a CREATE, a boundary violation occurred on the DDI file probably due to lack of space.

Resolution: Run the DDI unlock utility and increase the space on the DDI file.

5005-00-D FILE BOUNDARY VIOLATION; FILE MAY BE FULL

On an UPDATE, a boundary violation occurred on the DDI file, probably due to lack of space.

Resolution: Run the DDI unlock utility and increase the space on the DDI file.

5006-00-D SYMBOL GENERATION FOR *entityname* UNSUCCESSFUL CHECK ERROR FILE

Symbol generation for the named PSB or subschema was unsuccessful for reasons stated in prior error messages.

Resolution: Correct errors and resubmit.

5007-00-D SYM GEN FOR *entityname* SUCCESSFUL; SEE WARNINGS

Symbol generation for the PSB or subschema named was successful but APS issued warning messages in prior messages.

Resolution: This is an informational message. No response necessary.

5008-00-D DDI INFO FOR *entityname* WAS NOT ADDED

When processing the DDI statements, APS did not add information to the DDI file for reasons stated in prior error messages.

Resolution: Correct the input and resubmit.

5009-00-D FILE BOUNDARY VIOLATION, STATUS = *statuscode* FILE MAY BE FULL

When attempting to add or update records on the DDI file, a VSAM error occurred.

Resolution: Ensure there is enough space for the file. Run the DDI unlock utility and resubmit the job.

5010-00-D CREATE UNSUCCESSFUL FOR *entityname* CHECK ERROR MESSAGES

The CREATE of an entity on the DDI file was unsuccessful for reasons mentioned in prior error messages.

Resolution: Correct the errors and resubmit.

5011-00-D UPDATE UNSUCCESSFUL FOR *entityname* CHECK ERROR MESSAGES

The update of an entity on the DDI file was unsuccessful for reasons mentioned in prior error messages.

Resolution: Correct the errors and resubmit.

5012-00-D INVALID PARAMETERS FOUND; CHECK ERROR FILE

APS found an invalid JCL parameter for reasons mentioned in prior error messages.

Resolution: Correct errors and resubmit.

APS-DE

Category: Data Element Library Administration.

1000-00-E SCREEN NOT FOUND

Data Element Library Administration. The screen specified does not exist.

Resolution: Check the specified project/group to see if the screen exists. Otherwise type a valid screen name or leave the Screen field blank and press Enter to display the member selection list.

1010-00-E ??? ERROR:SCREEN NOT FOUND

Data Element Library Administration. The screen specified does not exist.

Resolution: Check the specified project/group to see if the screen exists. Otherwise type a valid screen name or leave the screen field blank and press Enter to display the Screen Member List.

1020-00-E ??? FIELD *dename* DOES NOT EXIST

APS did not find the Data element dename in the specified Data Element Library.

Resolution: Check the specified Data Element Library. If the data element does not exist, create the element from the Data Element Facility window.

1030-00-E ELEMENT NOT FOUND

Data Element Library Administration. The value specified in the Element field does not exist in the Source Data Element Library.

Resolution: Enter a Valid element name or leave this field blank and press Enter to display a member selection list.

4000-00-W SOME FIELDS NOT UPDATED

Data Element Library Administration. Some field elements did not exist in the Data Element Library with the new context specified. APS did not update these fields in the screen definition.

Resolution: Promote those data elements to the new context before promoting the screen. Alternately, use the PS command to promote the elements and screen at the same time.

4010-00-I * ENQUE ERROR ON INDEX *****

Index file locked by another user for updates.

Resolution: Enter F3 to escape or cancel the option specified (for On-line) and retry your option later.

4020-00-I INDEX MEMBER IS LOCKED BY ANOTHER USER

Index file locked by another user for updates.

Resolution: Enter F3 to escape or cancel the option specified (for On-line) and retry your option later.

4030-00-I INDEX FILE IN USE, RETRY

Index file locked by another user for updates.

Resolution: Enter F3 to escape or cancel the option specified (for On-line) and retry your option later.

8000-00-F CANNOT OPEN OUTPUT \$\$DEIDX, DD:

The open index file operation failed when trying to open the Index file (\$\$deidx) as output.

Resolution: Check the Data Element Library to see if the Index File(\$\$deidx) exists.

8010-00-F CANNOT OPEN INPUT \$\$DEIDX, DD:

The open index file operation failed when trying to open the Index File (\$\$deidx) as input.

Resolution: Check the Data Element Library to see if the Index file(\$\$deidx) exists.

8020-00-F * RETCODE > 4 *****

An I/O operation failed.

Resolution: Check the index file/data elements in the Data Element Library.

APS-DEF

Category: Internal APS messages.

9002-00-F UNKNOWN SYSTEM

You did not define FMP variable, &SYSTEM for this compile or FMP did not recognize the system selected.

Resolution: Define FMP variable &SYSTEM to equal a recognized system.

APS-DLG

The following messages are generated from ISPF Dialog macros. These messages can be identified by APS-DLG at the beginning of the message code in the message report. The messages are arranged below in order by message number.

1000-00-E SCREEN NAME IS REQUIRED

Screen name is required by this command.

Resolution: Enter the screen name.

1010-00-E PROGRAM NAME IS REQUIRED

Program name is required by this command.

Resolution: Enter the program name.

1020-00-E PARAGRAPH NAME IS REQUIRED

Paragraph name is required by this command.

Resolution: Enter the paragraph name.

1030-00-E 'POS' ATTRIBUTE IS REQUIRED

'POS' (POSITION) attribute is required by this command.

Resolution: Enter the 'POS' attribute.

1032-00-E ATTRIBUTE NOT RECOGNIZED *attribute*

The coded attribute is unknown.

Resolution: Check the spelling of the attribute.

1040-00-E FIELD NAME IS REQUIRED

Screen field name is required by this command.

Resolution: Enter the screen field name.

1050-00-E COMMAND ARGUMENTS REQUIRED

This command requires arguments to be supplied.

Resolution: Enter the arguments applicable to this command.

1060-00-E VARIABLE NAME IS REQUIRED

The variable name is required by this command.

Resolution: Enter the variable name.

1070-00-E PARAMETER IS REQUIRED

The PARM keyword was entered, but required parameter data is missing.

Resolution: Enter the parameter data.

2000-00-E DATANAME GREATER THAN 30 CHARACTERS: *dataname*

A Dataname is longer than allowed.

Resolution: Verify the spelling or validity of the dataname.

2010-00-E PROGRAM NAME GREATER THAN 8 CHARACTERS: *program name*

The Program name is longer than allowed.

Resolution: Verify the spelling or validity of the program name.

2020-00-E SCREEN FIELD NAME NOT DEFINED: *screen field name*

Screen field name was not found for this screen.

Resolution: Verify the spelling or validity of the screen field name.

2030-00-E COMMAND NOT SUPPORTED BY APS/ISPF

This command is not applicable and is not supported by APS/ISPF.

Resolution: Check the APS/ISPF Dialog Generator Reference Manual for commands supported by APS/ISPF.

2040-00-E ALREADY EXISTS: *error-identifier*

The value in error-identifier is not unique.

Resolution: Check previously coded DLG-SETMSG commands for a duplicate error-identifier.

2050-00-E MSGID INVALID: *msgid*

MSGID name syntax is incorrect.

Resolution: Check the spelling or validity of MSGID.

2060-00-E ARGUMENT NOT NUMERIC: *argument*

The argument is expected to be numeric.

Resolution: Correct the argument. Check the APS/ISPF Dialog Generator Reference Manual for proper syntax.

2070-00-E REDEFINE LENGTH TOO LARGE FOR: *dataname*

Dataname length is redefining a smaller area.

Resolution: Correct the length for dataname.

2080-00-E REDEFINE ON LEVEL 88 FOR: *dataname*

Dataname is redefining a level 88.

Resolution: Correct the dataname redefinition.

2090-00-E REDEFINE INVALID FOR: *dataname*

Dataname is invalid for redefinition.

Resolution: Correct the dataname redefinition.

2100-00-E REDEFINE LEVEL ERROR FOR: *screen name*

Dataname level is invalid for redefinition.

Resolution: Correct the dataname redefinition level.

2110-00-E REDEFINE NOT FOUND FOR: *dataname*

Dataname redefinition was expected for dataname.

Resolution: Correct the dataname redefinition.

2120-00-E INVALID REPETITION VALUE: *value*

Value was incorrect repetition value.

Resolution: Correct the repetition value.

2130-00-E RETURN CONFLICTS WITH CANCEL

RETURN and CANCEL keywords are mutually exclusive.

Resolution: Remove one or the other.

2140-00-E INVALID KEYWORD: *keyword*

The keyword used is not a valid argument for this command.

Resolution: Correct the keyword.

2150-00-E ONLY ONE PARM MAY BE PASSED WHEN PROGRAM TRANSFER OPTION = SELECT

More than one parameter was found.

Resolution: To pass multiple data areas, change the variable &DLG-PROGRAM-TRANSFER-OPTION to CALL.

2160-00-E /DATANAME OPTION INVALID WHEN PROGRAM TRANSFER OPTION = SELECT

The /DATANAME option may be used only when the PROGRAM TRANSFER OPTION = CALL.

Resolution: Remove the /DATANAME option or change the variable &DLG-PROGRAM-TRANSFER-OPTION to CALL.

2170-00-E PARM VARIABLE LENGTH GREATER THAN 8 CHARACTERS *variable*

The PARM(*variable*) variable length is greater than the maximum allowed.

Resolution: Correct the variable name.

2190-00-E DIALOG VARIABLE GREATER THAN 8 CHARACTERS *variable*

Variable name length is greater than the maximum allowed.

Resolution: Correct the variable name.

2200-00-E NEWAPPL CONFLICTS WITH NEWPOOL

NEWAPPL and NEWPOOL are mutually exclusive keywords.

Resolution: Remove one or the other.

2220-00-E TO RECEIVE TP-COMMAREA AS A PASSED DATA AREA, SET THE VARIABLE &DLG-COMMAREA-IN-LINKAGE = YES REMOVE TP-COMMAREA FROM TP-ENTRY

TP-COMMAREA was found as a parameter on TP-ENTRY.

Resolution: Set the variable &DLG-COMMAREA-IN-LINKAGE to YES and remove TP-COMMAREA from TP-ENTRY.

2230-00-E MULTIPLE TP-SCRNLIST COMMANDS FOUND - REMOVE EXTRA COMMAND

More than one TP-SCRNLIST was found.

Resolution: Remove the extra TP-SCRNLIST command(s).

2240-00-E VARIABLE: *variablename* NOT VDEFINED THRU DLG-VDEFINE

You have attempted to use DLG-VDELETE to remove a variable that has not been VDEFINED.

Resolution: Check spelling of variable name. Check for *variablename* VDEFINED using DLG-VDEFINE.

3000-00-W DEFAULTING TO 1 INVALID: *value*

Value was incorrect repetition value.

Resolution: Correct the repetition value.

3001-00-W ATTRIBUTE IS NOT SUPPPORTED *attribute*

Attribute has been ignored. It has no function in ISPF.

Resolution: Ignore WARNING or remove attribute.

3020-00-W VARIABLE *old variable name* CHANGED TO: *new variable name*

Old variable name was changed to new variable name to conform to proper variable name syntax.

Resolution: Check old variable name. No response is necessary.

3030-00-W VDEFINE VARIABLE TABLE LIMIT REACHED. LIMIT IS: *value* CONTACT YOUR APS ADMINISTRATOR TO INCREASE

Internal table limit for variable names has been reached.

Resolution: Contact your APS Administrator to increase table size.

3040-00-W ERROR PARA IGNORED - RETURN KEYWORD NOT SUPPLIED

ERROR PARA only applies to RETURN keyword on TP-ENTRY.

Resolution: ISPF Dialog errors will not be returned to the program unless you code the keyword RETURN.

3050-00-W KEYWORD NOT SUPPORTED - IGNORED FOR APS/ISPF: *keyword*

Keyword is not applicable to APS/ISPF and is ignored.

Resolution: Check to ensure program is not affected. If not, remove this keyword.

3060-00-W MAPSET NOT SUPPORTED - IGNORED FOR APS/ISPF: *mapset*

Mapset is supported by APS/CICS.

Resolution: Remove mapset argument.

3070-00-W ERROR PARA NOT SUPPORTED - IGNORED FOR APS/ISPF

ERROR PARA was coded, but is ignored on this command.

Resolution: Specify ERROR PARA on the TP-ENTRY command.

3090-00-W TP-COMMAREA DATA AREA IGNORED - GENERATED ON USING STATEMENT AS DLG-LINKAGE-COMMAREA

The variable &DLG-COMMAREA-IN-LINKAGE has been set to YES. DLG-LINKAGE-COMMAREA is automatically generated as a USING data area.

Resolution: Remove TP-COMMAREA from TP-ENTRY.

4000-00-I RETURN KEYWORD INDICATED WITHOUT ERROR PARAGRAPH - DEFAULT ERROR PROCESSING IN EFFECT

The RETURN option was coded but the ERROR PARAGRAPH option was not supplied. The program may not be set up to handle ISPF errors. Default error processing supplied by APS/ISPF is in effect.

Resolution: Supply an ERROR PARA to process ISPF errors.

4010-00-I DEFAULTING TO 'POS' ATTRIBUTE OTHER ATTRIBUTES IGNORED

The 'POS' attribute is the only attribute supported at this time. Other attributes will not be used.

Resolution: Review expected attribute processing to ensure program will operate as expected.

4020-00-I LEVEL 77 CHANGED TO 01 FOR: *dataname*

The APS Generator changed the Dataname level from 77 to 01.

Resolution: If you want to eliminate this information message, change level 77 to 01.

4030-00-I PROGRAM-CONTROLLED PFKEY OPTION

The PROGRAM-CONTROLLED PFKEY OPTION is in effect.

Resolution: Native ISPF PFkey values will not be in effect during program execution.

4040-00-I AUTO VARIABLE VDELETE OPTION SET TO *indicator*

The AUTO VARIABLE VDELETE OPTION has been set to the value shown by indicator.

Resolution: Information only.

4045-00-I PROGRAM TRANSFER OPTION SET TO *indicator*

The PROGRAM TRANSFER OPTION has been set to the value of indicator.

Resolution: Information only.

8000-00-F APDLGTP INCLUDED MORE THAN ONCE

APDLGTP has been included twice.

Resolution: Remove extra include for APSMACS(APDLGTP).

8010-00-F APDLGMAC INCLUDED MORE THAN ONCE

APDLGMAC has been included twice.

Resolution: Remove extra the include for APSMACS(APDLGMAC).

APS-DNA

Category: APS internal module.

1000-00-E REQUESTED DDNAME NOT FOUND

APS could not locate data set name specified on the DD statement of the JCL.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries.

1001-00-F I/O ERROR IN PDS DIRECTORY

A fatal I/O error occurred during Lookup routine processing for a member of the PDS.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Check the PDS manually by attempting to browse the member (ISPF=1) or examine the member list (ISPF=3.1). If PDS looks correct, try job again. If error persists, call APS administrator.

1002-00-E REQUESTED MEMBER NOT FOUND

APS could not find the member requested via INCLUDE card. Member was not in specified PDS or you misspelled the member name on the FMP % INCLUDE card.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries.

1003-00-F I/O ERROR ON CLOSE

During CLOSE command processing, APS detected a fatal I/O error. APS issued the CLOSE command for an inactive channel. Probable internal logic error in APS compiler.

Resolution: Contact your APS Administrator.

1004-00-E BLK NOT LRECL MULT

During processing of DCB information, APS determined the block size not to be a multiple of the record length.

Resolution: Check DD statements in macro libraries for correct DCB, LRECL and BLKSIZE values. Possibly correct block size in the DCB of the JCL.

1005-00-F I/O ERROR; FMT1 DSCB

The error occurred during execution of an OPEN macro instruction for a data set on a direct access device. An I/O error occurred reading the FORMAT1 DSCB or APS could not find the FORMAT1 DSCB for the data set on the first volume specified by the DD statement, the volume indexed by the volume sequence number, or in the catalog. If you cannot find the FORMAT1 DSCB for the data set, ensure that the DSNNAME and volume parameters are correct.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries.

1006-00-E VOL MOUNT PROB; RERUN

No unit is available for mounting the specified volume. The volume already on the allocated unit is either permanently resident or reserved. It could not be unmounted in order to mount the required volume, or the volume cannot be unmounted because another DCB is open on that device.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Try rerunning the job. If the problem occurs again, contact the operator to check if there is a problem with the mounted device.

1010-00-E INVALID CONCATENATION

You issued an open macro instruction for a partitioned data set that you concatenated with a data set that does not reside on a direct access

storage device (DASD). You can only concatenate partitioned data sets with data sets having like attributes.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries for compatibility of DCB information.

1011-00-E UNKNOWN - SEE SYSMMSG

During I/O processing, APS detected an error but the I/O program that reads FMP % INCLUDE files was unable to analyze the error.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. See IBM system messages and codes manual for information on the error and take appropriate action for system message.

1012-00-E PROGRAM ERROR - CONTACT YOUR APS REP

This error message indicates an internal error within APS compiler (portion that reads % INCLUDE files). During I/O processing, APS issued an OPEN or READ command for a channel that did not have as a prior command a LOOKUP or a CLOSE command. The channel number passed from SSTCTIM to SSTDDNA is less than 1 or greater than the maximum number of channels. You passed an invalid command code from SSTCTIM to SSTDDNA.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Contact your APS Administrator.

1013-00-E NO STORAGE FOR BUFFER ALLOCATION

You issued a GETMAIN and APS could not allocate storage. There is an inadequate region size for the program being compiled.

Resolution: Inspect all of your % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Increase region size for this

particular compile. NOTE FOR MVS USERS: region size on job card will override region size on individual step cards.

APS-DOC

Messages prefixed with APS-DOC are generated by the APS Painters, and indicate parameter, sort, or table errors. The messages are listed below in numeric sequence.

0000-00-I COPYRIGHT year MICRO FOCUS&sq&APS-rel &pgm-id &completetime&sq.

Internal APS copyright marker for APS load modules.

1000-00-W SELECTED ENTITY NOT PAINTED

The entity chosen has not been painted.

Resolution: Check for spelling error, or create the entity.

1001-00-W ENTITY DOES NOT EXIST OR IS A BAD ENTITY

Entity could not be found.

Resolution: Check for spelling error.

5000-00-E SELECTED ENTITY DOES NOT EXIST

Entity or member selected cannot be found.

Resolution: Check for spelling error or create entity.

5001-00-E EMPTY SDFILE

No screens found in SD file.

Resolution: Check for correct project and group entry.

5002-00-E SELECTION CRITERIA NOT MET

Entity within the entered selection criteria was not found.

Resolution: Reenter.

5003-00-E ONLY 3 SELECTIONS ALLOWED

More than three selection criteria were found.

Resolution: Internal error; contact your APS Administrator.

7000-00-F NO EXECUTION PARAMETERS FOUND

JCL parameters for execution of the program are missing.

Resolution: Refer to APS Administration manual.

7001-00-F ILLEGAL ENTITY NAME *APS-ent-nam*

Entity name is less than four characters or greater than eight.

Resolution: Reenter entity name.

7002-00-F ILLEGAL ENTITY TYPE *APS-ent-typ*

Entity type not PG, SC, DS, SS, ML, or RP.

Resolution: Reenter.

7003-00-F ILLEGAL PARAMETER

Unknown parameter found.

Resolution: Internal error; contact your APS Administrator.

7004-00-F EQUAL SIGN MISSING IN PARMs

Incorrect PROC statement in JCL.

Resolution: Check PROC statement in JCL or contact your APS Administrator.

7005-00-F ILLEGAL DATE SELECTION

Date entered is not correctly formatted.

Resolution: Refer to APS Administration manual.

7006-00-F UNKNOWN SELECTION

Selection made is unknown.

Resolution: Reenter selection.

9000-00-F DUPLICATE SORT ENTRY FOUND IN TABLE *APS-table-type APS-dup-key*

A duplicate Sort entry has been found in the specified table.

Resolution: Contact your APS Administrator.

9050-00-F TABLE OVERFLOW - *APS-table-type-2* MAX NBR OF MEMBERS IN PDS EXCEEDED *APS-table-type-2*

Table size is 2,000.

Resolution: Internal error. Contact your APS Administrator.

APS-EXP

Messages prefixed with APS-EXP are generated by the APS export system. The messages are listed below in numeric sequence.

0000-00-I *year SOFTWARE, INC. &sq&APS-rel &pgm-id &compiletime&sq.*

Internal APS copyright marker for APS load modules.

0201-00-I DATA STRUCTURE CHANGE SUCCESSFUL

This message is displayed when using the K, or KK line command and all changes or line additions are correct when passed back to the Program Painter.

Resolution: Continue.

0202-00-I DATA STRUCTURE INSERTION SUCCESSFUL

This message is displayed when using the J line command and the new lines that have been entered and passed back to the Program Painter are correct.

Resolution: Continue.

0203-00-I CONVERSION SUCCESSFUL

No errors were encountered in code.

Resolution: Continue. Check warnings.

0204-00-I GENERATE NOT SUCCESSFUL

Errors were encountered in code.

Resolution: Correct errors and generate again.

0205-00-I NO SCREEN ASSOCIATED WITH PROGRAM

No screen was assigned to the online program through the Application Painter.

Resolution: Assign a new or existing screen to the program.

0800-00-I SCREEN ALREADY EXISTS - SKIPPED

This message occurs when importing a screen without the replace option and a screen already exists.

Resolution: This is a confirmation that the old screen is left untouched. Alternatively, specify the replace parameter to overlay the old screen.

0801-00-I SCREEN SUCCESSFULLY CONVERTED:

Screen was created from a hardcopy.

Resolution: Continue.

0802-00-I NO ROW NUMBER SPECIFIED FOR SYSMG; ASSUMING ROW DEFAULT OF LAST ROW

SYSMG was specified without a row number. Default is the last row (varies due to screen size selected, i.e., MOD 2, 3, or 4).

Resolution: If user wants SYSMG on a different row, specify the row number explicitly.

1200-00-W CORRESPONDING S-COBOL NOT SEEN

An ENTER COBOL statement was encountered without a corresponding ENTER S-COBOL.

Resolution: Make sure the omission of the ENTER S-COBOL statement was intentional because all statements after the ENTER COBOL will be passed through the precompiler as is.

1400-00-W S9 IS ASSUMED TO BE PIC S9 AND NOT PIC S9(9)

S9 is valid COBOL and will not be translated.

Resolution: If PIC S(9) is desired, enter S(9).

1401-00-W A9 IS ASSUMED TO BE PIC A9 AND NOT PIC A9(9)

A9 is valid COBOL and will not be translated.

Resolution: If PIC A(9) is desired, enter A(9).

1402-00-W X9 IS ASSUMED TO BE X9 AND NOT X9(9)

X9 is valid COBOL and will not be translated.

Resolution: If PIC X(9) is desired, enter X(9).

1404-00-W N9 WILL BE PIC N9; NOT PIC 9(9)

N9 is valid COBOL and will not be translated.

Resolution: If PIC 9(9) is desired, enter N(9).

1405-00-W OPTION CARD CHANGED TO PROGRAMMER MODE

If PROC keyword was used, the option was changed to Programmer mode.

Resolution: Make sure NTRY was not wanted.

1406-00-W NO SCREEN ASSOCIATED WITH PROGRAM

No screen was assigned to the online program on the Application Painter.

Resolution: Assign new or existing screen to program.

1407-00-W NOTE: 01 LEVEL WILL BE GENERATED FOR THIS DATA NAME

If you enter one or more data names at the same indentation level as the previous 01-level data name, APS generates 01-level numbers for them. If you expect 05 level data names to be generated, indent them four spaces. If multiple 01 levels are desired, ignore this message.

Resolution: Check indentation for proper level to be generated.

1408-00-W ??? WARNING - PSB/SUBSC IN APPL WILL BE IGNORED. PSB/SUBSCHEMA IN APPL PTR IGNORED BECAUSE RELATED MACRO WAS CODED IN PROG PTR

You defined the subschema or PSB twice: once in the Application Painter and again in the program by coding \$DB-SUBSCHEMA or \$IM-PSB call. Normally, you need only to define the subschema PSB in the Application Painter. A \$DB-SUBSCHEMA or \$IM-PSB call overrides the subschema or PSB defined in the Application Painter.

Resolution: Ensure that the \$DB-SUBSCHEMA or \$IM-PSB call in the Program Painter is correct. If the subschema or PSB defined in the Application Painter is correct, delete the \$DB-SUBSCHEMA or \$IM-PSB call in the program.

1409-00-W ??? WARNING - THIS LINE IGNORED; FIRST DB-SUBSCHEMA USED ONLY. THIS DB-SUBSCHEMA IGNORED; THE FIRST ONE WAS USED

Multiple \$DB-SUBSCHEMA calls were coded in the Program Painter. Only the first one encountered is used; all others are ignored.

Resolution: Make sure that the first call is correct and delete the other(s).

1410-00-W THIS IM-PSB IGNORED; THE FIRST ONE WAS USED

Multiple \$IM-PSB calls were coded in the Program Painter. Only the first one encountered is used; all others are ignored.

Resolution: Make sure that the first call is correct and delete the other(s).

1411-00-W INDENTATION LESS THAN 1ST LINE IN DS - ASSUME SAME AS 1ST LINE

This message is produced when the user performs a CONVERT command on a data structure that resembles the following:

```
WS-NAME-1      X5
WS-NAME-2      92
WS-NAME-3      X
```

Note that the third data item begins one column to the left of the previous items. The misaligned item may be one or more columns out of alignment.

1413-00-W IMPROPER CONTINUATION ELLIPSES "... " OR ".." SEEN

This message is displayed when the user has mistyped ellipses when continuing a line of source code. The correct syntax is three periods.

Resolution: Locate mistyped ellipses and correct.

1800-00-W MAP DEPTH EQUAL TO ZERO; INCREASED TO ONE

The map depth was found to be zero.

Resolution: The screen must contain text and/or fields.

1801-00-W TEXT FLD FOUND IN MESSAGE - IGNORED

A text field was found in the message length calculating routine.

1802-00-W TRANS-ID DEFAULTING TO FIRST FOUR CHARACTERS OF SCREEN NAME

ASSOCIATED TRANS was not supplied on the SCREEN GENERATION PARAMETERS screen. APS is assuming that the desired TRANSID for CICS is the first four characters of the screen name being generated.

Resolution: Allow the default or supply the correct TRANSID on the SCREEN GENERATION PARAMETERS screen and regenerate the screen.

1803-00-W HARDCOPY FACILITY NOT SUPPORTED FOR MOD-5 SCREENS - STEP TERMINATED

Hardcopy generation of a MOD-5 screen was attempted.

Resolution: Change screen MOD size or do not use hardcopy option for the screen.

1804-00-W FIELD SPECIFIED IN SYSMMSG OPERANDS NOT FOUND - SWITCHING TO SYSMMSG=YES

Field name specified for SYSMMSG does not exist for that screen.

Resolution: Either add a system message field name to the screen, specify a field name that exists, or allow the default name SYSMMSG.

1805-00-W SYMSG OVERLAPPING REPEATED BLOCK - SYMSG DISCARDED OR DEFAULTS TAKEN

User attempted to specify a SYMSG (explicitly or by default) which overlaps a repeated block.

Resolution: Check the row and column operands if specified, or make sure that invoked defaults don't overlay repeated blocks.

1806-00-W SYMSG OVERLAPPING BACKGROUND TEXT; SYMSG DISCARDED OR DEFAULTS TAKEN

User attempted to specify a SYMSG (explicitly or by default) which overlaps background text.

Resolution: Check the row and column operands if specified, or make sure that invoked defaults don't overlay background text.

1807-00-W INSUFFICIENT SPACE FOR EXPANSION OF FOLLOWING LINE DUE TO &(S) - LEADING CHARS TRUNCATED

APS generates each ampersand character (&) as two ampersands. You have not allowed for the extra spaces needed for generated ampersands. Maximum line length: 80 characters.

Resolution: Either change the line to allow more spaces or reduce the number of ampersand (&) characters.

1808-00-W PROTECT + NON-DISPLAY IS INVALID - ASSUMING NORMAL INTENSITY

NON-DISPLAY is invalid for protected fields under ISPF.

Resolution: Make the field unprotected or change the intensity.

1809-00-W UNKNOWN FIELD TYPE/INTENSITY - ASSUMING UNPROTECTED/NORMAL: *type intensity*

Invalid intensity value found.

Resolution: Correct field intensity.

1810-00-C INVALID MULTMAP OPERAND - IGNORED: *operand*

Incorrect parameter specified in the JCL for the multimap task.

Resolution: Remove or correct the parameter.

1811-00-W INVALID LANGUAGE PARAMETER - IGNORED: *lang-parm*

Invalid language specified in the JCL.

Resolution: Omit the LANG parameter or specify a valid language.

**1812-00-W UNRECOGNIZABLE SYSMSG OPERAND - ASSUMING DEFAULT
SYSMSG=YES**

Invalid SYSMSG operand found.

Resolution: Check the syntax of the parameter.

1813-00-W SYSMSG ROW OUT OF RANGE; ASSUMING DEFAULT ROW *row*

The SYSMSG row exceeds screen size.

Resolution: The default row displayed is assumed; change if necessary.

**1814-00-W INVALID LENGTH SPECIFIED FOR SYSMSG: ASSUMING LENGTH DEFAULT
OF *length***

An invalid length was specified.

Resolution: The default length displayed is assumed; change if necessary.

**1815-00-W SYSMSG=YES HAS BEEN SPECIFIED BUT SYSMSG OVERLAPS FIELD -
SYSMSG DISCARDED**

The Screen Generator attempted to place SYSMSG on the specified (or default) line of the generated screen, but the line was already occupied by another field. SYSMSG=NO assumed.

Resolution: Change the SYSMSG parameter on the SCREEN GENERATION PARAMETER screen to specify the correct line on which SYSMSG is to appear or relocate conflicting field to another row.

1816-00-W LINE PARAMETER OVERRIDE NOT VALID - IGNORED

Invalid value for line parameter was specified.

Resolution: Check JCL; value must be numeric and between 1 and the depth of the screen.

1900-00-W MICRO FOCUS MFS DOES NOT SUPPORT EXTENDED ATTRIBUTES FOR SCREEN FIELDS

Micro Focus's IMSVS86 product does not support extended attributes for screen fields.

2001-00-E IMPROPER OR UNKNOWN PARAMETERS; RUN ABORTED

Internal problem.

Resolution: Contact your APS Administrator.

2002-00-E NO PARMS SPECIFIED

The mandatory application name for the application generation was not present on the APS Generator Options screen, so the run was ended.

Resolution: Fill in the appropriate application name.

2003-00-E I/O ERROR ON SCREEN DESCRIPTION FILE

Internal problem.

Resolution: Contact your APS Administrator.

2004-00-E WRONG FILE/REPORT SELECTION

The parameter entered is invalid.

Resolution: Enter a correct parameter.

**2007-00-E CODE ERROR CAUSED GENERATION TO END PROGRAM NAME ==>
ONLY FIRST PROGRAM ERROR FLAGGED; CHECK ALL PROGRAMS FOR SAME ERROR**

An error was flagged in the code of the specified program during the program conversion process.

Resolution: Correct the flagged code in the program.

5221-00-E IMPROPER OR UNKNOWN PARAMETERS; RUN ABORTED

Internal problem.

Resolution: Contact your APS Administrator.

5222-00-E NO REPORT PARAMETERS SPECIFIED FOR RUN

The appropriate application name, program name, data structure name, or scenario name was not included to indicate the report that is to be run.

Resolution: Enter the appropriate name to be run.

5223-00-E I/O ERROR ON SCREEN DESCRIPTION FILE

Internal problem.

Resolution: Contact your APS Administrator.

5231-00-E IMPROPER SCREEN NAME

The screen name entered is not in the proper format. It is either less than 4 characters or greater than 8 characters.

Resolution: Correct the screen name entered.

5232-00-E UNKNOWN PARAMETER

The parameter entered is invalid.

Resolution: Enter a correct parameter.

5400-00-E DATA NAME TOO LONG FOR DATA SCREEN

Data name in program is too long for data element name field of Data Structure Painter.

Resolution: Shorten data name to the size of data element name field of the Data Structure Painter (46 characters).

5401-00-E FORMAT ON GROUP LEVEL IS NOT ALLOWED

Format is entered next to a group level. This is illegal in COBOL.

Resolution: Remove format from group level. Check layout.

5402-00-E DATA NAME STARTS WITH BAD CHARACTER OR LEVEL NUMBER

Data name does not start with alpha character, valid number or Customization Facility symbol.

Resolution: Change data name so it is valid. Then change wherever it is used in the program.

5403-00-E FORMAT TOO LONG FOR DATA SCREEN

Format from Program Painter is too long for the format field in the Data Structure Painter.

Resolution: Use the FRFM keyword to insert the line as is. Note: When using the FRFM keyword, the level number and period, as well as all other S-COBOL syntax, are required for the line in error and all lines that follow to the next keyword.

5406-00-E NO REC, WS, LK OR CA KEYWORD FOUND IN DATA STRUCTURE

All data structures must have a starting keyword.

Resolution: Enter keyword on first line.

5407-00-E MISSING DATA NAME ON FIRST LINE OF DATA STRUCTURE

Data name missing on first line of data structure.

Resolution: Enter or check first line for valid data.

5408-00-E TOO MANY DATA NAME INDENTATIONS

Indentation of data names causes data names to extend past column 72.

Resolution: Restructure record layout.

5409-00-E REDEFINES OF TABLE ELEMENT NOT SUPPORTED

The Program Painter will not support the Redefines of a group item by an elementary item.

Resolution: Be sure that what is being redefined is directly below the item it redefines and at the same level.

5410-00-E COPY ONLY ALLOWED WITH 01 TYPE KEYWORD

The COPY verb can only be used with an 01 keyword for data structures.

Resolution: Use the COPY verb with 01 keyword only.

5411-00-E MULTIPLE NTRY OR ENTR KEYWORDS ARE INVALID

More than one keyword is used to indicate the start of the Procedure Division.

Resolution: Remove the unnecessary keyword(s).

5412-00-E INVALID OPTION ENTRY

The OPT or OPTN keyword is used and an invalid option was entered in the statement field.

Resolution: Check spelling (valid options are DESIGNER, PROGRAMMER, and UNCONVERT).

5413-00-E MISSING OPTION ENTRY

If the OPT or OPTN keyword is used, then there must be a valid statement associated with it (at this point nothing has been entered.).

Resolution: Valid entries are DESIGNER, PROGRAMMER, or UNCONVERT.

5414-00-E ENTR/NTRY AND PROC KEYWORDS CANNOT BE MIXED

Improper keyword entered for program. PROC is valid only for batch programs. For online programs, use NTRY (or ENTR).

Resolution: Use the appropriate keyword.

5415-00-E MULTIPLE PROC KEYWORDS ARE INVALID

Multiple PROC keywords appear in program.

Resolution: Delete all but one PROC keyword.

5416-00-E NO NTRY, ENTR OR PROC KEYWORD SEEN

Keyword indicating the start of the Procedure Division is missing.

Resolution: For batch programs, enter PROC; for online programs, enter ENTR or NTRY.

5417-00-E ERROR READING DATA STRUCTURE DEFINED IN APPLICATION

Program unable to locate data structure.

Resolution: Check spelling of data structure or ensure that data is in data structure.

5418-00-E ERROR IN NUMBER TRANSLATION (E.G. TOO BIG)

Translation exceeds column 72.

Resolution: Evaluate line.

5419-00-E ERROR IN TRANSLATION (E.G. PHRASE TOO BIG)

Translation of line will exceed column 72.

Resolution: Check line to see if it can be shortened.

5422-00-E NO MATCH FOR QUOTE OR APOSTROPHE

Macro call arguments coded with incorrect syntax.

Resolution: Ensure that each quote or apostrophe is paired.

5423-00-E MACRO STARTS TOO FAR TO RIGHT TO FIT ON LINE

Macro call exceeds column 72.

Resolution: May have to do a PERFORM with the macro call in the new paragraph.

5424-00-E LINE CAN ONLY START WITH: \$ % & / OR ALPHA CHARACTER

Line must start with valid alpha COBOL character or Customization Facility symbol (\$ % & or /).

Resolution: Start line with a character or Customization Facility symbol.

5425-00-E NO ROOM FOR A CLOSING PERIOD ON THIS LINE

Line in program is too long for period to be added during conversion.

Resolution: Eliminate any unnecessary spaces or make the content of line shorter.

5426-00-E MOCK KEYWORD MUST BE PRECEDED BY A 'RED' KEYWORD

MOCK keyword cannot be preceded by any keyword except RED.

Resolution: Move the MOCK keyword directly below the RED keyword. Insert the RED keyword and appropriate statements immediately preceding the MOCK keyword.

5427-00-E BLANK DATA STRUCTURE NAME IN APPLICATION DEFINITION

Data structure assigned to program is empty.

Resolution: Check spelling of data structure assigned to program or enter data in data structure.

5428-00-E ENTER VERB MUST BE FOLLOWED BY COBOL OR S-COBOL ONLY

A statement beginning with the ENTER verb has a word other than COBOL or S-COBOL after it.

Resolution: Correct the statement accordingly.

5429-00-E ERROR ACCESSING DATA STRUCTURE REFERENCED ABOVE

APS unable to read an external data structure included in program.

Resolution: Make sure the data structure exists and that it is accessible online in the Data Structure Painter.

5430-00-E ERROR ACCESSING REPORT MOCKUP REFERENCED ABOVE

APS unable to read an external report mock-up included in program.

Resolution: Make sure the report mock-up exists and that it is accessible online in the Report Mock-up Painter.

5431-00-E USE OF DECLARATIVES IS NOT SUPPORTED FOR TARGET ENVIRONMENT

A Declaratives section has been indicated by the DPAR keyword for a CICS program or a non-batch ISPF or IMS program.

Resolution: On the Application Painter ensure that either of the following is true: If the application contains both batch and online programs, enter the value *BATCH for each program's associated Window field; if the application contains only batch programs, select the MVS value for the UI (user interface) field.

5432-00-E PARA KEYWORD MUST BE FOLLOWED BY A PARAGRAPH/SECTION NAME

A paragraph name or section name must appear in column 8 on the same line as the PARA keyword.

Resolution: Enter a paragraph name or section name in column 8 on the same line as the PARA keyword.

5433-00-E LITERAL EXCEEDS 120 CHARACTERS

Continuation of literal exceeds 120 characters. Literal is too long.

Resolution: Shorten literal to 120 characters or less.

5434-00-E ERROR ACCESSING STUB REFERENCED ABOVE

APS unable to read an external stub included in the program.

Resolution: Make sure the stub exists and that it is accessible online in the Application Painter.

5435-00-E ERROR ACCESSING APPLICATION REFERENCED ABOVE

The application to be generated could not be read.

Resolution: Make sure the application exists and that it is accessible online in the Application Painter.

5436-00-E THE ABOVE KEYWORD IS INVALID

Keyword is invalid.

Resolution: Check the keyword and correct it.

5441-00-E REDEFINES INVALID ON STARTING LINE

The REDEFINES clause has been used on the first element of the data structure block.

Resolution: See the "Redefines" topic in the APS Reference for the correct usage.

5443-00-E INVALID SCOBOL LITERAL CONTINUATION

Incorrect syntax used to continue an S-COBOL literal.

Resolution: Proper syntax is: ellipses (three periods) followed by one space and two ampersands (&&). Fix and regenerate program.

5631-00-E IMPROPER OR UNKOWN PARAMETERS; RUN ABORTED

Parameters entered are not recognizable.

Resolution: Check JCL.

5632-00-E APPLICATION NAME MISSING; RUN ABORTED

No application name was passed.

Resolution: Check JCL.

5633-00-E I/O ERROR ON SCREEN DESCRIPTION FILE

Internal error.

Resolution: Contact your APS Administrator.

5641-00-E UNKOWN PARAMETER

A parameter entered is not recognizable.

Resolution: Check JCL.

5642-00-E UNKNOWN LISTSRC PARAMETER

The value passed with the LISTSRC parameter is not valid.

Resolution: Check JCL.

5643-00-E UNKNOWN LISTGEN PARAMETER

The value passed with the LISTGEN parameter is not valid.

Resolution: Check JCL.

5651-00-E CODE ERROR CAUSED GENERATOR END PROGRAM NAME ==> *appl-entry-name (GG)* ONLY FIRST PROGRAM ERROR FLAGGED CHECK ALL PROGRAMS FOR SAME ERROR

Error(s) were found in code generation from Painter.

Resolution: Check output listing for all errors and correct in Painter.

5800-00-E *PFKEY SPECIFIED AS TRANCODE BUT NOT DEFINED; PFKEY TRANCODE IGNORED

For an IMS application *PFKEY was specified but no values were assigned on the MFS function keys screen.

Resolution: In the Screen Painter, either assign values to the MFS function keys or do not specify *PFKEYS as the transaction code.

5801-00-E FIELD NAME SPECIFIED FOR TRANCODE NOT DEFINED; FIELD DROPPED

A field name specified for trancode was ignored because it was not defined on the screen.

Resolution: Either define the field on the screen or don't use it as part of the trancode.

5802-00-E MAP WITHIN MULT MAPSET NOT FOUND; RUN ABORTED

A screen that was selected for multiple-map mapset generation does not exist.

Resolution: Either create the screen, or omit the screen in the mapset and resubmit the job.

5803-00-E SCREEN NOT FOUND

The screen specified for generation wasn't found.

Resolution: Either create the screen or specify an existing screen.

5804-00-E INVALID OPERAND FOUND IN RANGE FIELD

A range specified for automatic editing contains an invalid operand.

Resolution: Correct the range in the Screen Painter and regenerate the screen.

5805-00-E NOT ENOUGH SPECIAL CHARACTERS AVAILABLE FOR TSO FIELD MARKERS

The screen contains too many special characters in the background text for ISPF generation.

Resolution: Reduce the number of special characters in the background text.

5807-00-E PDS MEMBER WAS IN USE; NOT UPDATED

The screen member was in use by another application.

Resolution: Rerun the generation.

5808-00-E MORE THAN 25 1-BYTE I/O FLDS IN: *screen name* LIMIT EXCEEDED

Screen exceeds the 25 1-byte field maximum.

Resolution: Reduce number of 1-byte fields (some 1-byte fields may be incremented to 2-bytes).

5809-00-E MAPSET SCREEN LIMIT SURPASSED

Number of screens in a mapset exceeds the 100 screen maximum.

Resolution: Reduce the number of screens for the mapset.

5810-00-E INVALID OPERAND FOR MAPS WITH MULTMAP=FULL SPECIFIED: *operand*

An operand was specified that conflicts with multiple-map mapsets.

Resolution: Review the operands specified in the JCL stream and correct the conflicting parameters.

5811-00-E MULTIPLE SCREENS PER MAPSET REQUIRE IDENTICAL SCREEN DIMENSIONS

Not all screens in the mapset have identical dimensions (width and depth).

Resolution: Either give all screens identical dimensions, or include only those that have the same dimensions.

5812-00-E ATTRIBUTE LIMIT OF 127 EXCEEDED REDUCE NUMBER OF SCREEN FIELDS

Number of attributes per screen exceeds the 127 attribute maximum; limit imposed byISPF Dialog Management Services.

Resolution: Reduce number of screen fields.

7400-00-F IMPROPER OR UNKNOWN PARAMETERS; RUN ABORTED

Parameters entered are not recognizable.

Resolution: Check JCL.

7401-00-E 77 LEVEL MUST START IN MARGIN A

77-level data item must start in column 8.

Resolution: Move the data item to start in column 8.

7401-00-F NO PARMS SPECIFIED

No parameters have been specified.

Resolution: Enter parameters.

7402-00-E DATA NAME MUST START WITH ALPHA OR & OR <

The data name starts with an invalid character.

Resolution: Change the first character of the data name.

7402-00-F I/O ERROR ON SCREEN DESCRIPTION FILE

Internal error.

Resolution: Contact your APS Administrator.

7403-00-E LEVEL NUMBERS ARE NOT ALLOWED IN DATA NAME

A level higher than 49 will be generated.

Resolution: Either change the starting level or reduce the number of indentations.

7404-00-E INVALID SYNTAX AFTER DATA NAME

Syntax violates COBOL or Data Structure Painter rules.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7405-00-E 88 LEVEL ITEMS CANNOT START IN COL 1

88-level data items must be subordinate to a group level.

Resolution: Enter a group level and indent the 88-level items.

7406-00-E ONLY DATA NAME CAN FOLLOW 88 OR 66 LEVELS

A valid data name must follow an 88 or 66 level number.

Resolution: Enter a valid data name.

7408-00-E ALPHABETIC FORMAT: A,AA,AAA,AN,A(N), A(&SYM)

If an A is the first character in the format field, then the code must be in one of the valid formats.

Resolution: Reenter format.

7409-00-E INVALID COMPUTATIONAL (C) FORM AT SPEC

C is invalid as used.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7410-00-E FORMAT FOR BINARY FULLWORD IS F OR FULL

If an F is the first character in the format field, then it is to indicate the binary fullword. If the edit check finds any character other than the word FULL, then it is invalid.

Resolution: If format starts with 'F' and is not 'F' or 'FULL', correct it.

7411-00-E FORMAT FOR BINARY HALFWORD IS H OR HALF

If an H is the first character in the format field, then it will indicate the Halfword format.

Resolution: Enter only H or HALF. Anything else is invalid.

7412-00-E NUMERIC FORMAT: N,N2,N3,N\$. . .NK,N(K),N&SYM

If an N is the first character in the format field, then the code must be in one of the valid formats.

Resolution: Reenter format.

7413-00-E REDEFINES FORMAT IS : R, RED, REDEF, REDEFINES

Invalid format for REDEFINES was entered.

Resolution: Check spelling.

7414-00-E SIGNED NUMERIC FORMAT: S, SN, S&SYM

Signed symbol is invalid as used.

Resolution: Reenter format.

7415-00-E ALPHANUMERIC FORMAT: X,XX,XXX,XK,X(K),X(&SYM)

Alphanumeric symbol is invalid as used.

Resolution: Reenter format.

7416-00-E NUMERIC FORMAT: 9,92,93,94...9K,9(K),9&SYM

Numeric format is invalid as used.

Resolution: Reenter format.

7417-00-E TO INDICATE PICTURE, MUST USE PIC

If the P is the first character in the format field, then the Picture clause is expected.

Resolution: Check spelling. Reenter code.

7418-00-E OCCURS SPECIFICATION NOT ALLOWED IN FORMAT

Occurs symbol is entered in the wrong field.

Resolution: Enter Occurs symbol in the data name field.

7419-00-E ONLY R,V OR I CAN CONTINUE FORMAT AFTER SPACE

Invalid character follows space in format field.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7420-00-E NO OTHER FORMAT SPECS ALLOWED WITH I (INDEX)

No other format is allowed after usage of index.

Resolution: Remove code after I.

7421-00-E FORMAT AFTER REDEFINES (R) IS UNRECOGNIZED

Code entered after R is not valid.

Resolution: Reenter code or contact your APS Administrator.

7422-00-E INVALID CHARACTER FOLLOWS SPACE IN FORMAT

Only V or R can continue a format.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7423-00-E VALUE CAN BE FIRST FORMAT ONLY ON 88 LEVELS

A value can be assigned first in a format only if it is an 88 level.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7424-00-E INVALID DATA FORMAT. RECHECK FORMAT SPECIFICATION

Format that is entered is not recognizable; is an invalid data structure.

Resolution: See the "Data Structures" section in the APS Reference for valid syntax.

7425-00-E CANNOT SPECIFY FORMAT FOR A GROUP LEVEL ITEM

Picture clause on a group level is illegal.

Resolution: Remove picture clause from group level.

7426-00-E NO DATA NAME ASSOCIATED WITH FORMAT

If data is entered in the format field, then it has to be a description of a field.

Resolution: Enter a data name or, '...' if data name is on previous line.

7428-00-E NO FORMAT SPEC ALLOWED ON 66 LEVEL RENAMES

Invalid format on 66-level data item.

Resolution: Remove invalid code.

7429-00-E V (VALUE) IS ONLY VALID FORMAT FOR 88 LEVELS

If 88-level data items are used, VALUE is the only format allowed.

Resolution: Remove invalid code.

7431-00-E NO SPACES ALLOWED IN FMP VARIABLE NAME

Variable name has space(s) embedded in it.

Resolution: Remove space(s) from FMP (Customization Facility) variable name.

7480-00-E VALID FORMATS BEGINNING WITH 'I' ARE "I" OR INDEXED

A format beginning with 'I' must either be only 'I' or 'INDEXED'.

Resolution: Check format and correct.

7481-00-E VALID FORMATS BEGINNING WITH 'R' ARE "R" OR REDEFINES

A format beginning with 'R' must either be only 'R' or 'REDEFINES'.

Resolution: Check the format and correct it.

7482-00-E INVALID LEVEL NUMBER---LEVELS ARE 01-49, 66, 77, 88

A level number other than 01 through 49, 66, 77, or 88 was entered.

Resolution: Enter a valid PIC clause level number.

7483-00-E PICTURE CLAUSE INCOMPLETE--NO DATA FIELD TYPE SPECIFIED

A 'PIC' clause without anything following it was entered.

Resolution: Enter a valid PIC clause.

7484-00-E ??? OCCURS CLAUSE IS DESCRIBED WITH INVALID OCCURANCE OF TABLE

An invalid statement following the OCCURS clause was entered.

Resolution: Check the clause and correct it.

7485-00-E REDEFINES CLAUSE MUST PRECEDE OCCURS CLAUSE

The OCCURS specification must be entered before the REDEFINES clause.

Resolution: Check and correct.

7486-00-E NOTE: A TABLE MAY NOT BE REDEFINED

A data element that redefines a table (one with an OCCURS clause) is invalid.

Resolution: Remove the REDEFINES or the OCCURS clause.

7487-00-E TOO MANY INDENTATIONS TO CONTINUE

Indentation level is more than 20 deep.

Resolution: Restructure or break-up the data group to less than 21 indentations.

7488-00-E ??? EGCS FORMAT: G,GG, GGG, GK, G(K), G(&SYM)

A DBCS user has specified the PIC G clause incorrectly.

Resolution: Specify the EGCS format to conform to the syntax given above, where K indicates the number, and &SYM is a variable.

7489-00-E ??? EGCS VALUES ARE NOT SPECIFIED FOR EGCS DATA ITEM

The EGCS data item declaration is not supplied.

Resolution: Enter a valid PIC G clause in the EGCS format.

7490-00-E ??? EGCS VALUE TOO LONG

The EGCS literal exceeds the 54 character limit on EGCS literals.

Resolution: Shorten the length of the literal to less than 54.

7491-00-E R, IXB, ODO and OCCURS INVALID ON SAME LINE - USE CONTINUATION LINE

DEPENDING ON, REDEFINES, and INDEXED BY clauses cannot be coded on the same line with an OCCURS format.

Resolution: Move the DEPENDING ON, REDEFINES or INDEXED BY to the next line, making sure to begin the line with ellipses (three periods) and a space.

7800-00-F IMPROPER OR UNKNOWN PARAMETERS; RUN ABORTED

The parameters specified in the JCL are incorrect.

Resolution: Refer to APS documentation and correct.

7801-00-F NO TASKS SPECIFIED; RUN ABORTED

Parameters necessary for execution are missing.

Resolution: Supply the necessary parameters.

7802-00-F NO SCREEN SPECIFICATIONS; RUN ABORTED

No screens were specified for execution.

Resolution: Specify a screen using the Name parameter.

**7803-00-F RUN ABORTED DUE TO IMPERFECT HARDCOPY; INVALID VERB FOUND:
*invalid verb***

The hardcopy file does not match the expected input format. The hardcopy file may have been incorrectly edited by the user.

Resolution: The hardcopy is either on a different release than the generator or it was incorrectly edited by the user.

7804-00-F UNKNOWN CONVERT PARAMETER

An incorrect parameter was specified for a convert generation.

Resolution: Omit the conflicting parameters.

7805-00-F TOO MANY TASK PARMS SPECIFIED

Conflicting parameters were specified for screen generation.

Resolution: Review the parameters that were specified and omit the parameter that conflicts with the desired result.

7806-00-F MBP SCREENS CURRENTLY NOT SUPPORTED

MBP screens are not supported.

7807-00-F FROM-DATE MUST BE A 6 DIGIT NUMBER

The FROM-DATE must be a 6-digit field in YYMMDD format.

Resolution: Correct the FROM-DATE parameter.

7808-00-F NAME PARM MUST BE SPECIFIED LAST

The Name parameter, when specified, must always be the last parameter.

Resolution: Put the Name parameter after all the other specified parameters.

7809-00-F IMPROPER SCREEN NAME SPECIFIED

The screen name specified is an invalid name.

Resolution: Make sure the screen name is 4 to 8 characters long and the first character is in the range A to Z, or the screen name is 4 or 8 asterisks.

7810-00-F TOO MANY SCREEN NAMES SPECIFIED

Maximum number of screens per application (100) has been exceeded.

Resolution: Reduce the number of screens to 100 or less.

7811-00-F UNKNOWN PARAMETER SPECIFIED

An unrecognized parameter was encountered.

Resolution: Check the JCL and APS manual to determine which is not allowed.

7812-00-F MAPSET NAME NEEDED FOR MULTMAPS

Mapset parameter is missing for BMS multiple-map mapset generation.

Resolution: Specify a mapset name using the mapset parameter in the JCL.

7813-00-F EXPECTED EQUAL SIGN MISSING IN PARM

An equal sign is missing for the specified parameter.

Resolution: Review the JCL parameters to determine where the equal sign should be.

7814-00-F TEXT OR I/O FIELDS DETECTED PRIOR TO SPECIFIED START LINE

The line number indicated in the SCREEN GENERATION PARAMETERS screen of the Screen Painter is after an I/O or Text field on the screen; therefore, it is invalid.

Resolution: Change the line number on the SCREEN GENERATION PARAMETERS screen or relocate the first text or I/O field on the screen and regenerate the screen.

9001-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR APPLICATION = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9002-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR PROGRAM = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9003-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR DATA STRUCTURE = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9004-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR SCENARIO = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9005-00-F NON-NUMERIC LAST ENTRY = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9105-00-F NON-NUMERIC LAST ENTRY = SERIOUS INTERNAL ERROR #5. CALL APS REP AND PROVIDE THE FOLLOWING INFORMATION: ENTITY: *ca-entity* ENTITY DATA RECORD: *sdf-record*

The variable containing the number of lines in the specified entity contains non-numeric data.

Resolution: Contact your APS Administrator.

9301-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR APPLICATION = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9302-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR PROGRAM = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9303-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR DATA STRUCTURE = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9304-00-F LAST ENTRY COUNT EXCEEDS MAXIMUM FOR SCENARIO = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9305-00-F NON-NUMERIC LAST ENTRY = *last-entry*

Internal error.

Resolution: Contact your APS Administrator and provide the following information:
Entity: *ca-entity* Entity Data Record: *sdf-record*.

9800-00-F PDS ERROR ON CONVERTING: *screen name* ERROR CODE: *error code*

An internal PDS error was encountered for conversion.

Resolution: Make sure the screen being converted was the correct version or contact your APS Administrator.

9801-00-E GENERATED CHARACTERS OVERFLOW FOR FOLLOWING LINE; CALL APS HOTLINE

The number of characters allowed per line has been exceeded.

Resolution: Contact your APS Administrator.

9802-00-E ERROR IN FMP LINE CONTINUATION ON FOLLOWING LINE; CALL APS HOTLINE

A fatal error has been encountered for syntax to continue an FMP (Customization Facility) statement onto the next line.

Resolution: Contact your APS Administrator.

APS-FMP

Messages prefixed with APS-FMP are generated by the APS Customization Facility macro processor. The messages are listed below in numeric sequence.

1000-00-F NO MORE CORE

Amount of core given on the EXEC statement of the JCL has been exceeded, or no more core available on system when GETMAIN was issued. Possibly an FMP loop limit was previously raised and a FMP loop has been encountered causing the program to use additional core.

Resolution: Verify that there is not an unreasonable loop limit override (the default is 200); if not, increase the core on the EXEC step of the JCL.

1003-00-F MAIN SOURCE MISSING

Program specified on the DD statement of the JCL as the source for a compile was not found.

Resolution: Check for misspelling.

1004-00-F TOO MANY ACTIVE INCLUDES

Maximum number of % INCLUDEs in one program (8) exceeded. Active % INCLUDEs refer to the number of ddnames.

Resolution: Combine/decrease the number of INCLUDEs for program by concatenating INCLUDEs and/or combining defined libraries.

1005-00-F SUBMEMBER NOT FOUND

On a % INCLUDE statement, the submember named was not found.

Resolution: Check for misspelled submember or incorrect sequence.

1006-01-F INVALID EVAL-BRACKETS

Evaluation brackets used are invalid or have not been set properly. Evaluation brackets cannot be a numeric, alpha, quote, apostrophe, left

or right parenthesis; we recommend using the less-than and greater-than characters <>.

Resolution: Check to see if % SET EVAL-BRACKETS statement is correct. Proper syntax: % SET EVAL-BRACKETS '*leftright*' where the recommended value of *leftright* is the less-than and greater-than characters <>. Also check to see if the evaluation-brackets flagged in the statement are the same as those specified by the SET statement.

1006-02-F INVALID EVAL-BRACKETS-AUX

Auxiliary evaluation brackets used are invalid or have not been set properly. Evaluation brackets cannot be a numeric, alpha, quote, apostrophe, left or right parenthesis.

Resolution: Check to see if % SET EVAL-BRACKETS-AUX statement is correct. Proper syntax: % SET EVAL-BRACKETS-AUX '*leftright*' where *leftright* is the value of the auxiliary evaluation brackets. Note: % SET-EVAL-BRACKETS must also be defined. Also check to see if the evaluation-brackets flagged in the statement are the same as those specified by the SET statement.

1007-00-F NO IN-LINE MACROS IN FMP REPEAT LOOP TEST

During processing of an FMP Repeat loop test, an in-line macro was found.

Resolution: In-line macros are invalid in FMP repeat loop tests. Correct the code.

1008-00-F NO IN-LINE MACROS IN FMP ELSE-IF

During processing of an FMP ELSE-IF test, an in-line macro was found.

Resolution: In-line macros are invalid in FMP ELSE-IF tests. Correct the code.

1009-01-F SYM TABLE FULL

During FMP processing the internal symbol table exceeded allocated size.

Resolution: Check all loops that cause FMP symbols to be defined.

1010-00-F NO MORE LINE BUFFERS

Line buffer for FMP was exceeded. FMP program requires more line buffers.

Resolution: Increase region size on JOB and EXEC statements.

1011-00-F TOO MANY DECLARE &MSG-PART

The maximum number of Declares allowed for one program (200) was exceeded.

Resolution: Code program not to exceed the maximum number of Declares allowed.

1012-00-F LOOP LIMIT REACHED

The maximum number of FMP loops (initiated by % REPEAT, % UNTIL, % WHILE) performed during processing is equal to the setting of the loop limit counter % SET LOOP-LIMIT (default = 200) or &D2-TOKEN-MAX.

Resolution: Check the loops and determine whether an error exists. To increase the loop limit, increase the value of % SET LOOP-LIMIT *nnnn* either in CNTLAPSDBDC or at the beginning of the program (which overrides the value in APSDBDC).

1013-00-F MISSING DATA DIVISION STATEMENT

Data Division header not found. Data Division header is in wrong place or has been misspelled.

Resolution: Check for correct placement and spelling of Data Division header.

1014-00-F MISSING ENVIRONMENT DIVISION STMT

Environment Division header was not found. Environment Division header is in wrong place or has been misspelled.

Resolution: Check for correct placement (columns 8-11) and spelling of Environment Division header.

1015-00-F MISSING ID DIVISION STATEMENT

Identification Division statement was not found. Identification Division statement is in wrong place or has been misspelled.

Resolution: Check for correct spelling. Incorporate the Identification Division as the first line of the parent program that does not begin with % and correct placement (columns 8-11).

1016-00-F MISSING PROCEDURE DIVISION STATEMENT

Procedure Division header not found. Procedure Division header is in wrong place or has been misspelled.

Resolution: Check for incorrectly placed or misspelled Procedure Division header. Note that certain errors in a report or map mock-up may cause the remainder of the program to be read as part of the mock-up. In such a case the Procedure Division header may be correct but unrecognized.

1017-00-F SUBMEMBER MUST BE IN LIBRARY FILE

The submember named in a % INCLUDE statement does not exist.

Resolution: Correct submember name or library assignment.

1018-00-F UNPRIVILEGED FMP USE

Program has attempted to enter the module for processing FMP.

Resolution: Process program without macro processor or arrange with APS customer support for a new privilege card.

1019-00-F UNTERMINATED REPORT OR MAP MOCK-UP

Execution will be halted. Report or map mock-up opening delimiters have been read, but no closing delimiters have been found.

Resolution: Insert closing delimiters in program at appropriate place in report section or map section. If program has a split report mock-up, make sure each half is opened and closed with the delimiters. Note that a split report mock-up requires opening and closing delimiters for each half (two pairs).

1020-00-F REQUESTED MEMBER NOT FOUND

The member included by a % INCLUDE card was not found. Member was not in specified PDS or member name was misspelled on FMP % INCLUDE card.

Resolution: Correct program name or include source. If % INCLUDE DDISYMB *membername* has been coded, check to see if DDI was built and member name spelled correctly. If % INCLUDE SCRSYMB has been coded, verify that the screen has been generated.

1021-00-E OPEN: READ: ERROR FOR FILE: *file-name* CLOSE:

An error occurred in trying to find or include a source while executing an OPEN, READ or CLOSE.

Resolution: Correct spelling of program name or included source. Check JCL and verify DCB information for macro library DD statements.

1022-00-E REQUESTED DDNAME NOT FOUND

Data set name specified on the DD statement of the JCL could not be located.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries.

1023-00-E NO STORAGE FOR BUFFER ALLOCATION

A GETMAIN was issued and storage could not be allocated. There is an inadequate region size for the program being compiled.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Increase region size for this particular compile.

1024-00-F I/O ERROR IN PDS DIRECTORY

A fatal I/O error has occurred during processing of Lookup routine for a member of the PDS.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Check the PDS manually by attempting to browse the member (ISPF=1) or examine the member list (ISPF=3.1). If PDS looks correct, try job again. If error persists, contact your APS Administrator.

1025-00-E PROGRAM ERROR - CONTACT YOUR APS REP

This error message indicates an internal error within APS compiler (portion that reads % INCLUDE files). During I/O processing an OPEN or READ command was issued for a channel that did not have as a prior command a LOOKUP or a CLOSE command. The channel number passed from SSTCTIM to SSTDDNA is less than 1 or greater than the maximum number of channels. An invalid command code was passed from SSTCTIM to SSTDDNA.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Contact your APS Administrator.

1026-00-F I/O ERROR ON CLOSE

During processing of the CLOSE command a fatal I/O error was detected. CLOSE command was issued for an inactive channel. Probable internal logic error in APS compiler.

Resolution: Contact your APS Administrator.

1027-00-E BLK NOT LRECL MULT

During processing of DCB information, the block size was determined not to be a multiple of the record length.

Resolution: Check DD statements in macro libraries for correct DCB, LRECL and BLKSIZE values. Possibly correct the block size in the DCB of the JCL.

1028-00-F I/O ERROR; FMT1 DSCB

The error occurred during execution of an OPEN macro instruction for a data set on a direct access device. An I/O error occurred reading the FORMAT1 DSCB; else the FORMAT1 DSCB for the data set could not be

found on the first volume specified by the DD statement, the volume indexed by the volume sequence number, or in the catalog. If the FORMAT1 DSCB for the data set cannot be found, make sure that the DSNNAME and volume parameters are correct.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries.

1029-00-E VOL MOUNT PROB; RERUN

No unit is available for mounting the specified volume. The volume already on the allocated unit is either permanently resident or reserved. It could not be unmounted in order to mount the required volume, or the volume cannot be unmounted because another DCB is open on that device.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. Try rerunning the job. If the problem occurs again contact the operator to check if there is a problem with the mounted device.

1030-00-E INVALID CONCATENATION

An open macro instruction was issued for a partitioned data set that has been concatenated with a data set that does not reside on a direct access storage device (DASD). Partitioned data sets can only be concatenated with data sets having like attributes.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications, and verify that the referenced file members exist. Also check DD statements of macro libraries for compatibility of DCB information.

1031-00-E UNKNOWN - SEE SYMSG

During I/O processing an error was detected but the I/O program that reads FMP % INCLUDE files was not able to analyze the error.

Resolution: Inspect all % INCLUDE statements for correct syntax and file specifications and verify that the referenced file members exist. Also check DD statements for macro libraries. See IBM system messages and

codes manual for information on the error and take appropriate action for system message.

1000-40-F NO MORE CORE

Amount of core given on the EXEC statement of the JCL has been exceeded, or no more core available on system when GETMAIN was issued. Possibly an FMP loop limit was previously raised and a FMP loop has been encountered causing the program to use additional core.

Resolution: Verify that there is not an unreasonable loop limit override (the default is 200); if not, increase the core on the EXEC step of the JCL.

1202-00-F % SET AUXILIARY-INPUT NOT IMPLEMENTED

Auxiliary input is not supported in this implementation.

Resolution: Remove % SET AUXILIARY-INPUT from the source.

1203-00-E CANNOT SPLIT LINE CORRECTLY

An attempt was made to expand an SCOBOL line that could not be continued correctly on a second line.

Resolution: Reform the original input line so that the line can be correctly split.

1204-00-W LINE BROKEN INTO TWO LINES

A generated output line was continued on a second line.

1206-00-W SPLITTING COBOL IDENTIFIER

A COBOL dataname is being continued on a second line.

2000-00-E NOT FIX LEN STRING

A Declare part was given a picture and length but the symbol it represents is not a fixed length.

Resolution: Define the Declare part to correctly represent the symbol.

2001-00-E UNDEFINED ARG:

During the evaluation of a substring an undefined argument was encountered.

Resolution: Define argument.

2003-00-E UNDEF FUNCT ARG:

During evaluation of substring an undefined functional argument was encountered.

Resolution: Correctly define argument.

2004-00-E INCOMPAT DCLR STMS

Declare variable is incompatible with another Declare statement.

Resolution: Check Declare variables and correct.

2005-00-E INVALID DCLR VALUE

Declare variable was not numeric, a string or another Declare variable.

Resolution: Properly define Declare variables to be numeric, a string or another Declare variable.

2006-00-E DCLR PART UNDEF: *declare part*

During DECLARE USE a Declare part was found with no defined value.

Resolution: Assign a value to the referenced Declare part.

2007-00-E INVALID DCLR SUB

This message occurs when attempting to use a variable as a subscript which has been already defined to FMP as a nonsubscript. Possibly a Declare part has been used as a Declare subscript.

Resolution: Correct the Declare statement.

2008-00-E PART NOT UNIQUE

Parts of Declare variables must have unique names.

Resolution: Correct Declare part variables to have unique names.

2009-00-E VALUE NOT STRING

During Declare processing, a test was made for a string but the element was numeric.

Resolution: Check Declare variables and define correctly.

2010-00-E COMPOUND BUILT-IN FUNCTION

This is caused by using a Built-in function as an argument within another Built-in function. This is not allowed unless the nested function is enclosed by assigned-quotes (for example &QT) within evaluation brackets and, in addition, the left bracket is followed by a %.

Resolution: Check the Built-in function and correct.

2011-00-E DCLR PART REQUIRED

The FMP function, % LOOKUP, can only reference Declare parts.

Resolution: Correct use/code of % LOOKUP.

2012-01-E INDENTATION ERROR; DECREASED

The indentation increment for a given block of code is established by the number of indented spaces of the first line of indented code within the block. All indentation within the block must then use the same indentation increment established by the first indented statement until a new block begins. For further processing, the line indentation is decreased to the level of the current indentation.

Resolution: Align the indentation and recompile.

2012-02-E INVALID INDENTATION

The indentation increment for a given block of code is established by the number of indented spaces of the first line of indented code within the block. All indentation within the block must then use the same indentation increment established by the first indented statement until a new block begins.

Resolution: Align the indentation and check for need to recompile.

2013-00-E UNALLOWED CODE AT END OF FMP LINE

The code following an ELSE statement is not allowed.

Resolution: Correct line so that IF follows ELSE on line, or ELSE stands alone on line.

2014-00-E OPERATOR EXPECTED IN LINE

An arithmetic +, -, *, / or logical AND, OR, >, <, etc. operator was expected in the flagged line.

Resolution: Correct the code.

2015-00-E NON-NUMERIC DESTINATION IN ARITH OPERATION

During evaluation of an arithmetic expression, an FMP variable was determined to be non-numeric.

Resolution: Change variable declaration to be numeric.

2016-00-E DIVISION BY 0 NOT ALLOWED

During evaluation of a Division statement an attempt to divide by zero was detected. Either divisor is zero or data field used as the divisor has the value of zero in it.

Resolution: Check Division statement for divisor of zero; check data field used as divisor for zero value and correct.

2017-00-F INVALID INDENT IN LOOP

The indentation increment for a given block of code is established by the number of indented spaces of the first line of indented code within the block. All indentation within the loop must use the same indentation increment established by the first indented statement until the loop is ended.

Resolution: Align the indentation and check for the need to recompile.

2018-00-E REPEAT IS AN IMPROPER FMP LOOP TERMINATION

REPEAT was coded instead of a WHILE or UNTIL clause with a test in an FMP loop.

Resolution: Correct loop termination by replacing REPEAT with WHILE or UNTIL clause and a test.

2019-00-E MISSING % REPEAT VARYING VARIABLE

The FMP variable being varied in an FMP loop is missing.

Resolution: Add the FMP variable to the coded loop or check to see if variable name is prefixed with an ampersand.

2020-00-E LEFT PARENTHESIS EXPECTED

A macro name or a Built-in function has been followed by something other than a left parenthesis.

Resolution: Add the left parenthesis.

2021-00-E PARAMETER LIST OVERFLOW FOR MACRO

Too many arguments (maximum is 40) were coded for a macro.

Resolution: Correct argument list to include the correct number of arguments.

2022-00-E TOO MANY INVOKING PARAMETERS

Too many arguments were coded when calling a macro already defined with nn number of arguments.

Resolution: Verify that the calling macro does not use a number of arguments exceeding the amount defined for the macro.

2023-00-E ARGUMENT NOT FMP VARIABLE

The argument was not prefixed by an ampersand (&) which is required by all FMP variables or a string constant was specified but not bounded by quotes.

Resolution: Prefix the variable with an ampersand or delimit the string with quotes.

2024-00-E UNDEFINED ARG: *argument*

A macro call was coded with arguments or macro is not defined with arguments.

Resolution: Either define macro with arguments or remove arguments from macro invocation statement.

2025-00-E ARGUMENT NOT A STRING

Arguments were improperly coded on invoking macro statement. The macro expects a string argument.

Resolution: Correct statement invoking macro.

2026-00-E NOT FMP STRING VARIABLE

An FMP string variable was not used in a Built-in macro which required one.

Resolution: Correctly code for FMP variable; check documentation for correct syntax and use of a FMP string variable.

2027-00-E RIGHT PAREN EXPECTED

Right parenthesis is expected after argument list. Line containing arguments following an FMP macro call does not end with a right parenthesis.

Resolution: Make sure line containing arguments following an FMP macro call ends with a right parenthesis.

2028-00-E INVALID ATOM IN ANSWER TEXT

Atom in answer text is not a quoted string or a name. (**Note:** ANSWER is obsolete syntax.).

Resolution: Fix atom so that it is a name or a quoted string.

2029-00-E INVALID LOCATION FOR % ANSWER

Answer not coded in correct location. (**Note:** ANSWER is obsolete syntax.).

Resolution: Please code again.

2030-00-E % SET CODED IN IMPROPER LOCATION

A % SET WORKING STORAGE, FILE, FILE-CONTROL, LINKAGE, DATA, or SPECIAL-NAMES was encountered in other than the Procedure Division and/or procedural code.

Resolution: Check % SET and code in proper location.

2031-00-E % SET END WORKING STORAGE IN WRONG LOCATION

During processing, % SET END WORKING STORAGE was found outside of the Working Storage section.

Resolution: Check % SET and code in proper location.

2032-00-E WIDTH MUST BE AT LEAST *&width-max*

During testing for the left and right margins, the coded statement begins before column 7 or goes beyond column 72.

Resolution: Correct statement to be coded between columns 8 and 72.

2033-00-E IMPROPER CODING OF EPILOGUE MACRO

The epilogue macro has been improperly coded. % SET EPILOGUE must either be on a line by itself (thereby causing the most current epilogue to be removed from the stack without being invoked) or must be followed by a \$MACRONAME (thereby directing that \$MACRONAME be

added to the stack of macros to be invoked at the end of FMP processing).

Resolution: Follow EPILOGUE macro with \$MACRONAME (on same line) or with nothing at all.

2034-00-E INVALID % SET STATEMENT

Improper syntax coded or spelling error.

Resolution: Check % SET statement; verify syntax by referring to documentation on % SET.

2035-00-E IMPROPER LOCATION

Possibly there is a % SET statement syntax error or improper location or indentation.

Resolution: Verify syntax and use of the % SET PROCEDURE DIVISION. Check indentation.

2036-00-E LINKAGE SECTION HEADER NOT IN PROPER ORDER

Linkage section header has been coded after the communication section.

Resolution: Correct the code so that linkage section appears before the communication section.

2037-00-E MACRO NAME MUST START WITH \$

When defining the macro, a macro name must be prefixed by \$.

Resolution: Prefix the coded macro with a dollar sign (\$).

2038-00-E VARIABLE MUST START WITH &

When being declared, all FMP variables must start with an ampersand (&).

Resolution: Prefix the FMP variable with an ampersand in the declaration.

2039-00-E DECLARE ITEMS INVALID AS FORMAL ARGUMENTS

A Declare item cannot be used as a formal (dummy) argument for an FMP macro.

Resolution: Correct FMP macro to use dummy arguments which are not Declare items.

2040-00-E DEFAULT VALUE NOT NUMBER OR STRING

Evaluation of a Define statement detected use of something other than a number or string as a default macro argument.

Resolution: Check Define statement for proper use of default arguments.

2041-00-E INVALID INDENT IN DEF

The indentation increment for a given block of code is established by the number of indented spaces of the first line of indented code within the block. All indentation within the block must use the same indentation increment established by the first indented statement until a new block begins.

Resolution: Align the indentation and check for the need to recompile.

2042-00-E UNRECOGNIZED CONTROL CARDS PARAMETER

% SET CONTROL-CARDS was not followed by LEADING, TRAILING, or END.

Resolution: Correct the statement.

2043-00-E STRING EXPECTED

During internal processing of an FMP statement, a string was expected and not found.

Resolution: Correct % SET EVAL-BRACKETS statement or possibly the Declare statement.

2044-00-E CANNOT SHIFT LINE

During processing of a statement using eval-brackets, the statement expanded beyond column 72.

Resolution: Move statement using the eval-brackets so expansion is not beyond column 72. If unable to shift statement, code a PERFORM and place the Evaluation statement in the performed paragraph.

2045-00-E RIGHT EVALUATION BRACKET EXPECTED

Expecting a right evaluation bracket and did not find one.

Resolution: Check syntax of evaluation statements and code right evaluation bracket.

2050-00-E COMPOUND LOGIC ILLEGAL

Use of compound logic (AND and OR used together) in an FMP conditional or loop statement is illegal.

Resolution: Correct code of the FMP statement.

2051-00-E LOGICAL OPERATOR MUST BE =, <, OR >

Syntax error.

Resolution: Code logical operators to be =, <, or >.

2052-00-E NON-NUMERIC ELEM USED IN ARITH EXPRESSION

During evaluation of an arithmetic expression (statement containing a + - * /) a non-numeric field was used.

Resolution: Correct fields being used in arithmetic expression to be defined as numerics.

2053-00-E INVALID ELEMENT

Element evaluated during a macro call or while processing an FMP expression was not a numeric, a string, or an ampersand.

Resolution: Correct macro call or FMP expression. Check all characters including any arguments, if used.

2054-00-E MISSING RIGHT EVALUATION BRACKET

During evaluation scanning, the right evaluation bracket was not found.

Resolution: Code right evaluation bracket on Evaluation statement.

2055-00-E UNMATCHED RIGHT EVALUATION BRACKET

During evaluation scanning, a right evaluation bracket was not able to be paired with a left evaluation bracket.

Resolution: Code left evaluation bracket or remove extra right bracket.

2056-00-E INFINITE EVALUATION LOOP

During the processing of an Evaluation statement, the internal counter exceeded 100.

Resolution: Check syntax of evaluation statement and correct.

2057-00-E AUXILIARY INPUT NOT ACTIVE

This error occurs when request is not available to user or parameters were not set properly.

Resolution: Contact your APS Administrator.

2058-00-E IMPROPER DATE ARGUMENT

The date format passed to APS was incorrect.

Resolution: Correct format of date selected.

2059-00-E &APS-HALF NOT DEFINED

Variable &APS-HALF was not defined properly.

Resolution: Check syntax and correct. If the user is not overriding variable, contact your APS Administrator.

2060-00-E NON-NUMERIC VARIABLE

During evaluation of internal date/time routine, something other than a numerically defined FMP variable was found.

Resolution: Correct data fields being passed. All FMP variables are preceded by an ampersand. Make them numeric values.

2061-00-E COMMA EXPECTED

During evaluation of FMP statement, a comma was expected.

Resolution: Check syntax of statement and correct.

2062-00-E &APS-FULL NOT DEFINED

Variable &APS-FULL was not defined properly.

Resolution: Check syntax and correct. If the user is not overriding variable, contact your APS Administrator.

2063-00-E NON-NUMERIC ARG

A non-numeric argument was supplied to a built-in function that requires a numeric argument.

Resolution: Change the argument to numeric.

2064-00-E RIGHT PAREN OR COMMA EXPECTED

Evaluation of a statement terminated incorrectly. Right parenthesis was omitted or comma was not used as a delimiter between fields.

Resolution: Code right parenthesis. Do not pass column 72.

2065-00-E FIRST ARGUMENT NOT TEXT STRING VARIABLE

The first argument of the Parse Built-in function is not an FMP string (text) variable.

Resolution: Correct syntax of statement.

2067-00-E DECLARE VARIABLE NOT PARSABLE

The &PARSE FMP function cannot be used on Declare parts.

Resolution: Correct code.

2068-00-E IMPROPER ARGUMENT

Syntax error. An argument used with a Built-in function is not a numeric, a string or an ampersand.

Resolution: Correctly code argument being used.

2069-00-E NOT MACRO OR FMP VARIABLE NAME

During evaluation of a statement starting with \$ or &, the macro or variable in question could not be found.

Resolution: Define macro or variable.

2070-00-E NOT AN FMP VARIABLE OR NUMBER

During the evaluation of an element, the element was not defined as a variable or a numeric. This is a Syntax error.

Resolution: Correct syntax of item in question.

2071-00-E NUMERIC EXPECTED

During the evaluation of an element, FMP expected a numeric. This is a syntax error.

Resolution: Correct element to be numeric.

2072-00-E STRING TOO LONG; TRUNCATED

Evaluation of a string in quotes is too long.

Resolution: Check statement and correct.

2073-00-E NON-NUMERIC SEQUENCE NUMBER

Numbering of generated code can not be handled because a non-numeric is in columns 1 through 6.

Resolution: Remove non-numeric from columns 1 - 6. Note that blanks are not allowed in columns 1 - 6.

2074-00-E NON-NUMERIC WYLBUR SEQUENCE NUMBER

Wylbur sequence numbering was requested via parameter and the numbering could not be done for the generated code.

Resolution: Remove non-numeric from columns 73 - 80.

2075-01-E SEQUENCE NUMBER TOO LARGE

Sequence numbering exceeds limit for numbering. Limit is 999999.

Resolution: Change sequence parameter to record or left justified style.

2075-02-E NON-NUMERIC SEQUENCE NUMBER

Numbering of generated code can not be handled because a non-numeric is in columns 1 through 6.

Resolution: Remove non-numeric from columns 1 - 6. Note that blanks are not allowed in columns 1 - 6.

2076-00-E NON-NUMERIC IDENTIFIER IN COLUMN 73-80

Non-numeric are found in columns 73-80.

Resolution: Remove non-numeric from columns 73-80.

2077-00-E STATEMENT NOT ALLOWED IN COLUMN 7

Only comment or continuation characters are allowed in column 7. A shift right was attempted but the statement went to column 72 and the shift could not be accomplished.

Resolution: Correct statement to start in column 8. Continue statement, if necessary.

2078-00-E DECLARE VARIABLE MUST START WITH &

During evaluation of a Declare variable, the FMP special character for identifying variables (&) was not found.

Resolution: Define variable correctly.

2079-00-E DECLARE SUBSCRIPT MUST START WITH &

During evaluation of a Declare subscript, the FMP special character for identifying Declare subscript (&) was not found.

Resolution: Define Declare subscript correctly.

2080-00-E % EXPECTED DURING DECLARE PROCESSING

Mistyped or left out % before Declare parts.

Resolution: Check code. Code a %.

2081-00-E DECLARE PART ABOVE NOT A GROUP

A Declare part can be used to reference several elementary level Declare parts. If this is the case, the group Declare part must not have a picture and the subordinate Declare parts must be indented under the group level Declare part.

Resolution: Correctly define Declare parts if using as a group item or correct level of indentation of elementary items.

2083-00-E DECLARE PART MUST START WITH &

During evaluation of a Declare part variable, the FMP special character for identifying variables (&) was not found.

Resolution: Define Declare part variable correctly.

2084-00-E IMPROPER DECLARE VAR TYPE

A Declare part can only be defined as numeric or string.

Resolution: Check syntax and define Declare variable correctly.

2085-00-E DECLARE STRING OVER 78 BYTES

Value of Declare part cannot exceed 78 characters.

Resolution: Assign value for Declare part not to exceed 78 characters.

2086-00-E PART VALUE NOT NUMERIC

During Declare processing a variable assigned to be numeric has been given a nonnumeric value.

Resolution: Correct value assigned to be numeric or define Declare part to be type X.

2087-00-E % LOOKUP REQUIRES VARIABLE

The FMP function, % LOOKUP, must reference a defined Declare part variable.

Resolution: Correct use/code of % LOOKUP.

2088-00-E INVALID LOOKUP RELATION

Relational operator in the % LOOKUP is incorrect. There is a syntax error. Relational must be either =, NOT =, <=, <, >, >=, NOT < or NOT >.

Resolution: Correct operator in % LOOKUP function.

2089-00-E DECLARE PART AND VALUE INCOMPATIBLE

During Declare processing of arithmetic expression, a Declare part defined as a numeric has been given a nonnumeric value.

Resolution: Properly assign numeric value to numerically defined Declare parts.

2090-00-E THRU/TO VALUE SHOULD BE NUMERIC

During processing of a Repeat Varying loop, the THRU/TO values were not numeric.

Resolution: Define values used for THRU/TO as numeric.

2091-00-E STARTING VALUE SHOULD BE NUMERIC

During processing of a Repeat Varying loop, the FROM value was not numeric.

Resolution: Define value used for FROM as numeric.

2092-00-E NO SUBSCRIPTS FOUND

The field was defined as an Occurs, but the subscript was omitted when the field was referenced in code.

Resolution: Apply subscript to field in question.

2093-00-E ONLY ONE SUBSCRIPT FOUND

An element was defined in a two dimensional table. When the element was used, only one subscript applied.

Resolution: Apply missing second subscript.

2094-00-E LOW-ORDER SUBSCRIPT MUST BE NUMERIC

If the From clause of the Lookup statement is omitted, the low-order subscript must contain a numeric value.

Resolution: Define low-order subscript as numeric.

2095-00-E FMP CONT (% ...) EXPECTED BUT NOT FOUND

The FMP macro arguments begun on a previous line were not closed with a right parenthesis. Therefore, continuation of the arguments was expected on the next line, but the % ... expected to signal the continuation was not found.

Resolution: Either close parenthesis on macro call line or signal continuation to a second line with a comma at the end of the call line and % ... at the beginning of the continuation line.

2096-00-E THE WORD DIVISION EXPECTED; ASSUMED

Division header does not show the word DIVISION. Processing resumes as if present.

Resolution: Insert word DIVISION on indicated Division Header line.

2097-00-E ELSE DOES NOT MATCH IF

% ELSE was encountered at a level of indentation for which no % IF was previously encountered.

Resolution: Either the % IF or the % ELSE must be brought in line with the other. The two statements must begin in the same column.

2098-00-E ELSE-IF DOES NOT MATCH IF

% ELSE-IF was encountered at a level of indentation for which no % IF was previously encountered.

Resolution: Either the % IF or the % ELSE-IF must be brought in line with the other; the two statements must begin in the same column.

2099-00-E NO ESF MACRO DEF:

An ESF macro has been included which is not defined.

Resolution: Define ESF macro.

2100-00-E UNALLOWED CODE FOLLOWS % REPEAT

% REPEAT has been followed by something other than VARYING on the same line.

Resolution: Correct the code so that % REPEAT stands alone on line or is followed by VARYING.

2101-00-E INVALID EVALUATION EXPRESSION

Expression within evaluation brackets is not correct.

Resolution: Examine code inside the evaluation brackets. Refer to the APS Customization Facility Reference Manual for guidance.

2102-00-E INVALID ARGUMENT FOLLOWING MACRO CALL

Argument following FMP macro call is not an FMP variable, a numeric literal, or an alphanumeric string (enclosed in quotes).

Resolution: Check code and correct macro arguments.

2103-00-E LEFT PAREN NEEDED AFTER % DEFINE

A % DEFINE \$DATANAME has been followed on the same line by code not beginning with a left parenthesis.

Resolution: Determine whether arguments are intended to follow the % DEFINE, and if so, enclose them in parentheses. Note that no code other than arguments can be included on a % DEFINE \$DATANAME line.

2104-00-E MAP SECTION ALREADY SEEN

A second Map section header has been encountered in program.

Resolution: Use only one Map section header in program.

2105-00-E MISSING PROGRAM-ID STATEMENT

PROGRAM-ID statement was not found.

Resolution: Check program for correct placement of PROGRAM-ID following the ID division header and beginning in margin A (columns 8-11).

2106-00-E MODIFIED LINE TOO WIDE

After resolution of evaluation brackets, the remaining line of COBOL extends past column 72.

Resolution: Determine if the code can be placed on two lines. FMP lines cannot be continued.

2107-00-E RELATION CONDITION NOT VALID

The relation condition following an FMP conditional verb (% IF, % ELSE-IF, % WHILE, % UNTIL) is not valid.

Resolution: Review valid relation conditions that may follow FMP conditional verbs and bring flagged code into conformity with these.

2108-00-E REPORT SECTION ALREADY SEEN

Report section header has been encountered a second time in program.

Resolution: Use only one Report section header, even if there are multiple reports in the program.

2109-00-E THE WORD SECTION NOT FOUND OR MISSING PERIOD

The word SECTION is missing from a Section Header line or period is missing.

Resolution: Insert the word SECTION on Section Header line or code period.

2110-00-E TOO MANY DIGITS IN NUMBER

Integer to be processed by FMP exceeds 999999.

Resolution: Correct integer.

2111-00-E UNDEFINED DEF: *macro name*

Macro is called that has not been defined.

Resolution: Check for input of macro definition beginning at % DEFINE \$MACRO-NAME. It may appear in a macro library or in the program itself. Libraries must be designated as input to the program generator.

2112-00-E UNDEFINED SYMBOL: *&symbolic variable*

Symbolic variable has been encountered for which no value has been assigned. This variable may reside within a line of the source program, or as the value of another symbolic variable.

Resolution: Assign a value to the designated variable or correct spelling of an already assigned symbolic variable.

2113-00-E UNDEFINED WORD AFTER %

Word encountered following a % is not an FMP key word and not a symbolic variable name.

Resolution: Check spelling and syntax of flagged % statement.

2114-00-E UNMATCHED QUOTE

String was opened with a single quote (apostrophe) or with a double quote and was not closed on the same line with the same delimiter.

Resolution: Check code for presence of closing delimiter. Make sure it is same character as opening one.

2115-00-E & FOLLOWED BY SPACE; IMPROPER FMP STM

An FMP statement begins with an ampersand (followed by a space) instead of a percent.

Resolution: Correct FMP statement.

2205-00-E MACRO DEFINITION NOT ALLOWED

An unauthorized use of APS Customization Facility has been attempted.

Resolution: Contact your APS administrator.

2207-00-E % LOOKUP &FLDNAME IS A PART

The &FLDNAME in a LOOKUP operation has the same name as a &PART.

Resolution: Change either the name of &FLDNAME in the LOOKUP operation or the &PART name.

2208-00-E % LOOKUP &FLDNAME IS A PREDEFINED NAME

A &FLDNAME in a LOOKUP operation has cannot have the same name as a predefined name.

Resolution: Change the name of &FLDNAME to avoid the conflict.

2209-00-E % UNTIL EXPECTED IN LOOP REPETITION

EVAL BRACKET reevaluation action failed to generate the expect % UNTIL for % REPEAT or % R-V processing.

Resolution: Examine the offending evaluation bracket action.

2210-00-E % WHILE EXPECTED IN LOOP REPETITION

EVAL BRACKET reevaluation action failed to generate the expected % WHILE for % REPEAT or % R-V processing.

Resolution: Examine the offending evaluation bracket action.

2219-00-E &DEFVAL VALUE UNDEFINED

&DEFVAL is undefined because a &DEFINED test has either not yet occurred or has tested false.

Resolution: Recode logic so that &DEFVAL is only referenced when at least one &DEFINED test is known to have tested true.

2220-00-E &FLDNAME FOR &PART HAS NO &SUB'S IN % LOOKUP

Attempted a LOOKUP against a &PART belonging to a &FLDNAME that has no &SUBs.

Resolution: Change the DECLARE &FLDNAME definition to include at least one &SUB.

2221-00-E &FLDNAME IS &PART

&FLDNAME cannot have the same name as a &PART.

Resolution: Change name of &FLDNAME or &PART name.

2222-00-E &FLDNAME TEXT IS NOT VALID

A &FLDNAME name is invalid.

Resolution: Examine the name of &FLDNAME.

2223-00-E &FLDNAME VALUE ILLEGAL

The content of a % DECLARE subscript has caused &FLDNAME to resolve to the name of an already defined &FLDNAME, macro name, or FDEFINE name.

Resolution: Change the statement or process that populates the subscripts (SUBs) of the &FLDNAME.

2224-00-E &FLDNAME VALUE IS NUMERIC

An attempt was made to reference an &PART defined under an &FLDNAME that has been set to numeric.

Resolution: Set &FLDNAME to an appropriate text value.

2225-00-E &FLDNAME VALUE IS PREDEFINED NAME

An &FLDNAME has resolved to the same name as a predefined name.

Resolution: Change the statement or process that populates the subscripts (SUBs) of the &FLDNAME.

2226-00-E &INDEX REQUIRES TWO ARGUMENTS

The two required arguments for &INDEX have not been coded.

Resolution: Code the two required arguments for &INDEX.

2227-00-E &LENGTH REQUIRES ONE ARGUMENT

The required argument for &LENGTH has not been coded.

Resolution: Code the required argument for &LENGTH.

2228-00-E &NUMERIC REQUIRES ONE ARGUMENT

The required argument for &NUMERIC has not been coded.

Resolution: Code the required argument for &NUMERIC.

2229-00-E &PARSE ARGUMENT IS PREDEFINED &VARIABLE

An argument to the &PARSE pre-defined function cannot be a pre-defined function.

Resolution: Eliminate the offending pre-defined function as an argument.

2232-00-E &SUB IS &PART:

An &SUB cannot have the same name as an &PART.

Resolution: Change the name of the &SUB or the &PART.

2233-00-E &SUB IS PREDEFINED FUNCTION

An &SUB cannot have the same name as a predefined function.

Resolution: Change the name of the &SUB.

2234-00-E &SUB UNDEFINED

A reference has been made to an undefined &SUB for a % DECLARE.

Resolution: Define the &SUB for the DECLARE.

2235-00-E &SUBSTR POSITION PARAMETER IS NOT > 0

The value for the position parameter in a &SUBSTR operation has either been explicitly coded as 0, or has evaluated to 0.

Resolution: Make the position parameter a positive number.

2236-00-E &SUBSTR REQUIRES EITHER 2 OR 3 ARGUMENTS

An &SUBSTR operation is missing the minimum number of arguments.

Resolution: Recode the &SUBSTR operation with at least two arguments.

2237-00-E &VARIABLE IS A PREDEFINED NAME IN % R-V

A predefined variable name has been used in a % R-V operation.

Resolution: Change the name of the offending variable.

2238-00-E &VARIABLE IS A TEXT &PART IN % R-V

An attempt was made to use a text part in a numeric % R-V operation.

Resolution: Change the &PART to numeric.

2239-00-E &VARIABLE VALUE IS TEXT IN % REPEAT VARYING

A text variable has been used in a % R-V operation.

Resolution: Change the offending variable to numeric.

2240-00-E ARGUMENT REQUIRED FOR &DEFINED

No variable name was specified in an &DEFINED test.

Resolution: Specify the variable name to be tested.

2241-00-E ARGUMENTS REQUIRED FOR &PARSE

No arguments were specified in an &PARSE operation.

Resolution: Specify arguments to the &PARSE command.

2242-00-E ARGUMENTS REQUIRED FOR BUILT-IN FUNCTION

Built-in function requires argument(s).

Resolution: Supply argument(s) for the built-in function.

2243-00-E BY EXPRESSION IS TEXT IN % REPEAT VARYING

The BY increment variable is a text variable.

Resolution: Change the BY increment variable to numeric.

2244-00-E CAN'T STORE &PART IN NUMERIC &FLDNAME

A value was assigned to an &PART belonging to an &FLDNAME that has been set to a numeric value.

Resolution: Assign the &FLDNAME a text value.

2245-00-E CANNOT BREAK LINE CORRECTLY

Cannot continue an SCOBOL dataname.

Resolution: Break the input line into two smaller lines.

2246-00-E COLUMN OUT OF RANGE:

Column not in a legal COBOL or SCOBOL code generation area.

Resolution: Change the value of *&column*.

2247-00-E DECLARE PART MUST START WITH &

DECLARE PART name omitted leading &.

Resolution: Prefix PART name with leading &.

2248-00-E EXPRESSION EXPECTED AT END OF LINE

The macro processor syntax expects an expression at the end of the line, probably following an OR operator.

Resolution: Ensure the expression is present on the line and legally coded.

2249-00-E EXPRESSION EXPECTED

The macro processor syntax expects an expression somewhere in the line.

Resolution: Check the line for the missing expression.

2250-00-E FLDNAME IS PART OR SUB

A FLDNAME has been defined with the same name as a previously defined &PART or &SUB.

Resolution: Change the name of &FLDNAME, &PART, OR &SUB

2251-00-E FROM EXPRESSION IS TEXT % REPEAT VARYING

A FROM expression evaluated to TEXT.

Resolution: Change the variable or expression to a numeric value.

2252-00-E FROM VALUE DOES NOT FIT &PART

FROM numeric value in % R-V will not fit in &PART.

Resolution: Increase the size of the &PART.

2253-00-E ILLEGAL REDEFINES IN &PART

A DECLARE item was not redefined at the same level of indentation.

Resolution: Redefine the item at the same level of indentation.

2254-00-E INDENT OF % CHANGED BY EVAL BRKTS

An EVAL BRACKET action caused a space to be inserted in the beginning of the line causing an indentation error.

Resolution: Recode the evaluation bracket processing logic.

2255-00-E INVALID &FLDNAME IN % DECLARE

&FLDNAME is improperly formed.

Resolution: Recode the &FLDNAME with using legal syntax.

2256-00-E INVALID LOOP LIMIT

LOOP LIMIT has been set to greater than 32,767.

Resolution: Lower LOOP LIMIT to 32,767 or below.

2257-00-E INVALID PICTURE

DECLARE PART picture is invalid.

Resolution: Change PART picture to Xn or Nn format.

2259-00-W INVALID TEXT AFTER MACRO CALL

Unrecognizable text trails the closing right parenthesis of a macro invocation.

Resolution: Examine the offending line and delete the trailing garbage.

2260-00-E INVALID WRITE-CONTROL LIMIT

WRITE-CONTROL LIMIT has been set to greater than 32767.

Resolution: Reduce WRITE-CONTROL LIMIT to less than 32767.

2261-00-E LEFT OPERAND MUST BE NUMERIC

In an arithmetic assignment the left operand is not numeric.

Resolution: Change the left operand to a numeric value.

2262-00-E MACRO NAME MAY NOT BE \$ ALONE

A macro name did not start with a \$.

Resolution: Prefix the macro name with \$.

2264-00-E MISSING MEMBER NAME IN % INCLUDE

The member name was omitted in a % INCLUDE statement.

Resolution: Recode the % INCLUDE statement specifying a member name.

2265-00-E MOCKUP LINE TRUNCATED

A mockup line expansion caused truncation.

Resolution: Redesign the report mockup line so that it can handle the maximum length of expansion of any APS macro processor action on that line.

2266-00-E MORE THAN ONE BY CLAUSE IN %R-V

More than one BY clause has been coded in a % R-V operation.

Resolution: Remove the extraneous BY clause.

2267-00-E MORE THAN ONE FROM CLAUSE IN %R-V

More than one FROM clause has been coded in a % R-V operation.

Resolution: Remove the extraneous FROM clause.

2268-00-E MORE THAN ONE TO/THRU CLAUSE IN %R-V

More than one TO/THRU clause has been coded in a % R-V operation.

Resolution: Remove the extraneous TO/THRU clause.

2269-00-E

NEXT-TO-LAST &SUB NOT DEFINED Two low order subs were specified in a % LOOKUP command and only one low order sub was coded.

Resolution: Add an extra low order SUB to &FLDNAME or remove it from the LOOKUP command.

2270-00-E NO DDNAME IN % INCLUDE

DDNAME missing from % INCLUDE statement.

Resolution: Recode the statement in the form: % INCLUDE DDNAME(MEMBER).

2271-00-E NON-NUMERIC SOURCE IN ARITH OPERATION

Right-hand side variable in an operator assignment is text.

Resolution: Change right-hand side variable to numeric.

2272-00-E NUMERIC COMPARED WITH TEXT IN % LOOKUP

A numeric variable was compared with a text variable in % LOOKUP processing.

Resolution: Change one of the variables being compared to a text or numeric.

2273-00-E NUMERIC &FLDNAME:

Attempted to assign a &PART value to an &FLDNAME that had been assigned a numeric value.

Resolution: Change &FLDNAME to a text string value.

2275-00-E POSITIVE INTEGER EXPECTED

A % SET statement requires positive integer.

Resolution: Change the integer value to positive.

2277-00-E QUOTES OR & REQUIRED ON IDENTIFIER

Element following AND or OR is invalid.

Resolution: Check element for valid syntax.

2278-00-E QUOTES REQUIRED IN MACRO ARGUMENT

A non-null macro argument was not delimited by quotes.

Resolution: Delimit the macro argument with quotes.

2279-00-E REDEFINED ITEM NAME INVALID

A redefined item name is invalid.

Resolution: Change the item name to that of a valid macro variable name.

2280-00-E REPEAT VALUE OUT OF &PART RANGE

A value in a % REPEAT or % R-V operation is too big for the numeric &PART.

Resolution: Increase the size of the numeric &PART.

2281-00-E REPEAT VALUE OUT OF RANGE

The result of expression evaluation caused the new repeat value to be out of range.

Resolution: Change the expression so that the range value is not less than -9999999 and not greater than +9999999.

2282-00-E RESULT OUT OF RANGE

An expression evaluation produced a number either less than -9999999 or greater than +9999999.

Resolution: Change the expression so that the range value is not less than -9999999 and not greater than +9999999.

2286-00-E RIGHT OPERAND MUST BE NUMERIC

The right operand in the expression must be numeric.

Resolution: Change the right operand to a numeric variable.

2288-00-E RIGHT PARENTHESIS EXPECTED AFTER ARGUMENTS

A right parenthesis must follow the arguments to a built-in function.

Resolution: Add the right parenthesis after the last argument to the function.

2290-00-E RIGHT PARENTHESIS EXPECTED AFTER SYMBOL NAME

A right parenthesis must follow the variable argument to the built-in function.

Resolution: Add the right parenthesis after the variable argument to the built-in function.

2292-00-E RIGHT PARENTHESIS EXPECTED IN % INCLUDE

A right parenthesis must follow the member name in % a INCLUDE.

Resolution: Add the right parenthesis after the member name in % a INCLUDE.

2293-00-E RIGHT PARENTHESIS EXPECTED

A right parenthesis is missing in an expression evaluation.

Resolution: Add the right parenthesis in the expression evaluation.

2297-00-E SYMBOL IS PREDEFINED OR PART FOR INLINE \$MACRO

The APS macro variable (SYMBOL) for an inline macro cannot be a predefined variable or &PART.

Resolution: Change the macro variable to a regular APS macro variable.

2298-00-E SYMBOL NOT ASSIGNED IN INLINE \$MACRO

The APS macro variable (SYMBOL) for an inline macro must be defined before invoking the inline macro that uses it.

Resolution: Define the macro variable to be used in the inline macro.

2299-00-E TEXT COMPARED WITH NUMERIC IN % LOOKUP

A text variable was compared with a numeric variable in % LOOKUP processing.

Resolution: Change one of the variables being compared to a text or numeric.

2301-00-E THRU EXPRESSION IS 9999999

The result of expression evaluation caused the new THRU value to be out of range.

Resolution: Change the expression so that the THRU cannot resolve to greater than 9999999.

2302-00-E TO/THRU EXPRESSION IS TEXT % REPEAT VARYING

A TO/THRU expression must resolve to a numeric value in a % R-V operation.

Resolution: Ensure the expression resolves to a numeric value.

2303-00-E TO/THRU VALUE DOES NOT FIT &PART

TO/THRU numeric value in % R-V has been incremented and will not fit in &PART.

Resolution: Increase the size of the &PART.

2304-00-E UNRECOGNIZED TEXT AT END OF % INCLUDE

Unrecognizable text trails the closing right parenthesis of a % INCLUDE.

Resolution: Examine the offending line and delete the trailing garbage.

2305-00-E UNRECOGNIZED TEXT AT END OF LINE

Unrecognizable text, treated as garbage, trails an otherwise syntactically correct line.

Resolution: Examine the offending line and delete the trailing garbage.

2315-00-E UNRECOGNIZED TEXT FOLLOWS % DECLARE ITEM

Unrecognizable text trails a % DECLARE ITEM.

Resolution: Examine the offending line and delete the trailing garbage.

2316-00-E UNTERMINATED REPORT OR MAP MOCKUP

Designated 4 terminating characters missing on mockup.

Resolution: Add the designated 4 terminating characters to mockup.

2317-00-E MACRO NAME MUST START WITH \$

All macro names must start with \$.

Resolution: Prefix the offending macro name with a \$.

3000-00-W LOCATION SET TO PROCEDURE DIV FOR EPILOGUE

During epilogue processing, the location for the output source has not been set to Procedure Division.

Resolution: No response necessary. APS sets location to Procedure Division automatically.

3001-00-W INCOMPATIBLE EXPRESSION TYPES

Two expressions being compared using <, >, NOT < or NOT > are incompatible types (i.e., numeric variable being compared to a string).

Resolution: Verify code to prevent unexpected results.

3002-00-W APS OVERFLOW TRUNCATED

During APS evaluation of code, the line was found to be almost entirely quotes.

Resolution: Verify code to prevent unexpected results.

3003-00-W REDEFINING PART IS LONGER; GROUP LENGTHENED

During Declare processing, a REDEFINES is longer than the element redefining it.

3004-00-W REDEFINED PART IS LONGER

Redefined element is longer than element being redefined.

3005-00-W LEADING SIGN/DIGIT(S) TRUNCATED

During Declare processing of a statement the leading character of a numeric was truncated.

3006-00-W STATEMENT SHIFTED TO RIGHT

A character was found in column 7 but the statement did not exceed column 72 so the line was shifted to the right. COBOL expects statements to start in column 8. Column 7 is for COBOL continuation and comment characters.

3007-00-W CHANGING BUILT-IN SYMBOL

FMP reserved word has been used by the developer as an FMP variable.

Resolution: Developer must use a different name. APS libraries use the bBuilt-in functions and will not compile if any function name is assigned as a variable.

3008-00-W MACRO ALREADY DEFINED; FDEFINE IGNORED

An APS macro defined in the compressed APSMAC library has been redefined by the user. The compressed macro is ignored.

Resolution: Ensure you have not included APSMAC in your program twice. If you have redefined an individual APS macro, you may want to copy the entire macro member to a separate file and include this file in your ISPF.INI ahead of the compressed APSMLBR library in the DDLBR(APSMACS) concatenation to suppress the warning message.

3321-00-E INVALID CHARACTER

Garbage or control character in line.

Resolution: Examine the line, in hex mode if necessary, for the offending character.

3322-00-W NON-NUMERIC CHARACTER IN NUMERIC &PART

A text value was stored in a numeric part.

Resolution: Examine the value to make certain this is the desired result.

3323-00-F TEXT STACK OVERFLOW

Recursive expressions with an infinite nesting depth have caused text stack overflow.

Resolution: Examine the nesting depth of the recursive expression.

3324-00-W UNKNOWN TRACE OPERAND

An illegal trace operand was coded.

Resolution: Change the trace operand to INFO or NOINFO.

3325-00-W CHANGING BUILTIN SYMBOL

A predefined symbol is being changed in an assignment operation.

Resolution: Check to make sure that this is the desired result.

4000-00-I FATAL COMPILE-TIME ERROR; PROCESSING ENDED

Processing is ended due to a previous fatal FMP error. An error code APS-XXX-9999-99-F has been previously encountered.

Resolution: Correct the flagged error.

9002-00-F SOURCE STACK OVERFLOW

Number of source levels in stack exceeded maximum of 139. Too many nested sources (i.e., invocations of macros or % INCLUDES). APS internal error.

Resolution: Check for possibility of recursive macro invocation (invoking a macro from within itself, however many levels deep). Contact your APS Administrator.

9003-00-F SOURCE STACK UNDERFLOW

Internal APS error.

Resolution: Contact your APS Administrator.

9004-00-F INDENT STACK FULL

Number of indent statements in stack exceeded maximum of 50. APS internal error.

Resolution: Break code up into performed paragraphs. If problem is not resolved, contact your APS Administrator.

9005-00-F INDENT STACK UNDERFLOW

Internal APS error. May be caused by a nonblank character incorrectly placed or generated upon expansion into column 72. Another possible cause may be that a statement that should be continued is erroneously not continued.

Resolution: Check to see if the following example has been coded. Contact your APS Administrator.

Example:

```
% &A1 = 'A.....AAA-    <The '-' is in column 72
% &B1 = 'B.....BBB'
```

9006-00-F INTERNAL FATAL ERROR

Internal APS error. During a call to the SSTTBL module for FMP table creation and Look-up routines, an error was detected due to incorrect parameters being passed.

Resolution: Contact your APS Administrator.

9007-00-E STORAGE EXCEEDED

Internal APS error. During a call to the SSTTBL module for FMP table creation and Look-up routines, an error was detected due to a storage exceeded condition.

Resolution: Contact your APS Administrator.

APS-HLP

Category: User Help Facility.

1000-F USER HELP MUST BE ON FOR THIS PROGRAM

User Help must enable before generating this program.

Resolution: Enable user help and regenerate the program.

1010-I &APS-MDC HAS AN UNHANDLED VALUE

The DC target specified is unknown or not yet supported.

Resolution: Check the current documentation for supported DC targets.

1020-W MISSING PARAMETER:SET TO DEFAULT OF

The parameter that should be defined in CNTL(APHLPIN) is missing.

Resolution: Check the original control file CNTL(APHLPIN) for the missing parameter.

1030-W INVALID PARAMETER ACTUAL PARM VALUE SET TO DEFAULT OF

You set the parameter defined in CNTL(APHLPIN) to an invalid value.

Resolution: Check the current documentation for the list of valid values.

1040-I NO HELP TEST PARAMETERS FOUND NO HELP CODE WILL BE GENERATED

You did not define Help function keys or control variables in CNTL(APHLPIN).

Resolution: Check the original control file CNTL(APHLPIN) for the missing function keys or control variables definition.

1050-E INVOKED MORE THAN ONCE USE ONLY ONE PER PROGRAM

You included Help COMMAREA or control point more than once.

Resolution: Check to see if you invoked the help macro by mistake.

1060-E SCREEN NAME MUST BE SUPPLIED

There is no screen associated with this program.

Resolution: Check the application for the associated screen.

1080-E MACRO IS CALLED BY \$HELP-CNTL

Help control point included more than once.

Resolution: Check to see if you invoked the help macro by mistake.

1090-I NO LEVEL HELP GENERATED FOR THIS PROG

Specified help option is off for this program.

Resolution: Check the control file CNTL(APHLPIN) for help options.

1100-E MISSING MACRO: USE ABOVE MACRO FOR HELP FACILITY

APS needs the specified macro for the User Help Facility.

Resolution: Code the specified macro in the program.

1110-F RECORD, SEGMENT OR TABLE: ENTITY INVALID. NOT FOUND IN SUBSCHEMA OR PSB. CANNOT CONTINUE PROCESSING

The help record is missing from the DDISYMB.

Resolution: Check control file CNTL(APHLPIN). If &HELP-SUBSCHEMA-ADD you set to NO, you must supply the DDISYMB for the User Help table or file.

1120-W HELP-RECORD-NAME: ALREADY DEFINED IN SUBSCHEMA AND HELP-SUBSCHEMA-ADD SET TO YES

You set &HELP-SUBSCHEMA-ADD YES and supplied the DDISYMB for the User Help table or file.

Resolution: Check the control file CNTL(APHLPIN). If you set &HELP-SUBSCHEMA-ADD to YES, you cannot supply the DDISYMB for User Help table or file.

1140-E REDEFINES REQUESTED AND HELP-COMM-LEN: LARGER THAN TP-USER-LEN:

&TP-USER-LEN specified is not large enough to store User Help information.

Resolution: Check the control file CNTL(APHPIN) for &HELP-COMM-LEN is too large, &TP-USER-LEN specified has to be larger than &HELP-COMM-LEN.

APS-IDB

The following messages are from the IDMS macros. These messages can be identified by APS-IDB at the beginning of the message code in the message report. The messages are in numerical sequence.

1020-00-E MUST SPECIFY RECORD NAME TO BIND

The \$DB-BIND macro call did not include a record name as an argument.

Resolution: When MANUAL is coded for the \$DB-PROTOCOL, \$DB-BIND expects a record name as an argument. Either replace MANUAL for \$DB-PROTOCOL with an alternate argument, or supply a record for \$DB-BIND.

1030-00-E PROTOCOL MUST BE MANUAL TO SPECIFY RECORD

\$IDM-BIND call specifies a record name as an argument although \$IDM-PROTOCOL does not specify MANUAL.

Resolution: Change \$IDM-PROTOCOL so that MANUAL is specified, or remove the record name as an argument for \$DB-BIND.

1040-00-E NO SUBSCHEMA SPECIFIED, CANNOT BIND RECORD

\$DB-SUBSCHEMA macro call is missing, or the subschema name was not supplied as an argument, therefore, records cannot be bound.

Resolution: Ensure that the \$DB-SUBSCHEMA macro was generated or coded properly, refer to documentation for \$DB-SUBSCHEMA.

1050-00-E 'REC' KEYWORD EXPECTED

The keyword 'REC' is expected prior to specifying the record name parameter.

Resolution: Correct the call by specifying the keyword REC immediately followed by the record name.

1060-00-E RECORD NAME EXPECTED; NO MORE PARMS

The keyword 'REC' was coded but no additional parameters were supplied.

Resolution: Correct the call by supplying the record name immediately after the keyword 'REC'.

1070-00-E UNKNOWN DELETE PARM: *parameter*

An unknown or invalid parameter was coded for the \$DB-ERASE macro.

Resolution: Check the documentation for \$DB-ERASE and change the unknown or invalid parameter.

1080-00-E NO PARMS PASSED

A database macro call was invoked but no parameters were passed.

Resolution: Correct the call by specifying the appropriate parameters.

1090-00-E 'TO' KEYWORD EXPECTED FOLLOWED BY SET NAME

The keyword 'TO' should precede the set name for the \$IDM-CONNECT macro call.

Resolution: Correct the call by coding the keyword 'TO' immediately followed by the set name parameter.

1100-00-E SET NAME EXPECTED AFTER KEYWORD 'TO'

The keyword 'TO' was specified but no set name was coded.

Resolution: Correct the call by supplying the set name parameter immediately after the 'TO' keyword.

1110-00-E 'FROM' KEYWORD EXPECTED FOLLOWED BY SET NAME

The keyword 'FROM' should precede the set name for the \$IDM-DISCONNECT macro call.

Resolution: Correct the call by coding the keyword 'FROM' immediately followed by the set name parameter.

1120-00-E SET NAME EXPECTED AFTER KEYWORD 'FROM'

The keyword 'FROM' was specified but no set name was coded.

Resolution: Correct the call by supplying the set name parameter immediately after the 'FROM' keyword.

1130-00-E REF KEYWORD MAY NOT FOLLOW REC KEYWORD

The keywords REF and REC were specified in the wrong order.

Resolution: Correct the CALL by specifying the parameters in the proper order. (See APS/IDMS Generator Reference Manual on \$DB-OBTAIN or \$DB-PROCESS.).

1140-00-E RECORD NAME EXPECTED FOLLOWING 'OF'

When referencing a qualified data name, the group level name was not specified.

Resolution: Correct the CALL by supplying the group level name immediately after the 'OF' keyword.

1150-00-E UNKNOWN PARM: *parameter*

The parameter is invalid or it is misplaced in the command syntax.

Resolution: Check the spelling and/or placement of the parameter.

1160-00-E SYNTAX UNRECOGNIZED

An unrecognizable combination of parameters was specified for a \$DB-OBTAIN macro.

Resolution: Correct the CALL by specifying a valid combination of parameters. (See APS/IDMS Generator Reference Manual for information on \$DB-OBTAIN).

1170-00-E ARGUMENTS FOR 'WHERE' EXPECTED, NO MORE PARMS

They keyword 'WHERE' was coded, but no additional parameters were specified.

Resolution: Correct the CALL by supplying the parameters desired. (See APS/IDMS Generator Reference Manual for information on \$DB-OBTAIN).

1180-00-E UNRECOGNIZED OR MISPLACED PARM *parm*

This parameter is invalid or it is misplaced in the command.

Resolution: Check the spelling and/or placement of the parameter.

1190-00-E NOT ENOUGH PARMS PASSED

A database macro was invoked but not enough parameters were passed.

Resolution: Correct the CALL by specifying the appropriate parameters.

1200-00-E 'REC' OR 'REF' EXPECTED AS FIRST PARM

When coding \$DB-OBTAIN or \$DB-PROCESS, either the keyword 'IDMSREC' or a valid record name must be coded following the 'REC' or 'REF' keywords.

Resolution: Correct the CALL by specifying the keyword 'REC' or 'REF' as first parameter, followed by the record name.

1210-00-E 'IDMSREC' OR RECORD NAME EXPECTED AS SECOND PARM

When coding \$DB-OBTAIN or \$DB-PROCESS, either the keyword 'IDMSREC' or a valid record name must be coded following the 'REC' or 'REF' keywords.

Resolution: Correct the CALL by specifying 'IDMSREC' or a valid record name.

1220-00-E SET MUST BE SPECIFIED

When using format 5 of \$DB-OBTAIN (obtains the owner of a set when the record name is unknown), set name must be specified. must be specified.

Resolution: Correct the CALL by specifying the 'SET' keyword followed by a valid set name.

1230-00-E AREA OR SET MUST BE SPECIFIED

The \$DB-OBTAIN format specified requires a set or an area name.

Resolution: Correct the CALL by specifying the 'SET' keyword followed by a valid set name, or the 'AREA' keyword followed by a valid area name.

1240-00-E KEY VALUE EXPECTED FOR 'WHERE', NO MORE PARMS

The keyword 'WHERE' with a key name and a relational operator were specified, but no value was found to complete the qualification.

Resolution: Correct the CALL by supplying the area name immediately after the 'AREA' keyword.

1250-00-E AREA NAME EXPECTED, NO MORE PARMS

The keyword 'AREA' was specified, but no area name was coded.

Resolution: Correct the CALL by supplying the area name immediately after the 'AREA' keyword.

1260-00-E SET NAME EXPECTED, NO MORE PARMS

The keyword 'SET' was specified, but no set name was coded.

Resolution: Correct the CALL by supplying the set name immediately after the 'SET' keyword.

1280-00-E RELATIONAL OPERATOR EXPECTED

A relational operator was expected to complete the qualification.

Resolution: Complete the qualification by specifying a relational operator followed by a data name or literal.

1290-00-E DB-PROCESS-ID NAME TOO LONG

The DB-PROCESS-ID specified is longer than 18 characters.

Resolution: Correct the DB-PROCESS-ID name so that it is 18 characters or less.

1300-00-E DB-PROCESS-ID NAME NOT UNIQUE

Duplicate DB-PROCESS-ID names were found.

Resolution: Provide a unique DB-PROCESS-ID name.

2010-00-E INVALID ARGUMENT: *argument*

A positional argument passed in the macro call is invalid.

Resolution: Check the spelling of the argument and/or the macro documentation for the list of valid arguments.

2020-00-E CALC KEY REQUIRES RELATIONAL OPERATOR '=' OR 'EQ' OR 'EQUAL'

When using format 1 (retrieves records based on a CALC key or an indexed or sorted set), of the \$DB-OBTAIN MACRO, the relational operator must be '=' 'EQ' or 'EQUAL'.

Resolution: Correct the area name.

2030-00-E INVALID AREA NAME FOUND *area-name*

Performing a FIND or OBTAIN against the OWNER of an AREA is invalid.

Resolution: Correct the call by specifying the keyword 'SET' and the set name rather than keyword 'AREA' and area name.

2040-00-E INVALID PARM WHEN FIRST, LAST OR PREV SPECIFIED: *parameter*

An invalid combination of keywords was specified in a \$DB-OBTAIN call.

Resolution: Correct the CALL by specifying a valid combinations of parameters; refer to \$DB-OBTAIN documentation.

2050-00-E INVALID RECORD NAME: *record-name*

The keyword 'REC' or 'REF' was specified, followed by an invalid record name or a record name not found in the subschema.

Resolution: Correct the record name.

2060-00-E MODE SPECIFIED TWICE

The keyword 'MODE' is specified twice for the \$DB-OPEN macro.

Resolution: Remove the second keyword 'MODE' and/or the second usage mode from the argument macro call.

2070-00-E AREA SPECIFIED TWICE

The keyword 'AREA' is specified twice for the \$DB-OPEN macro.

Resolution: Remove the second keyword 'AREA' and/or the second usage mode from the argument macro call.

2080-00-E 'WHERE DBKEY' INVALID WITH OTHER KEYWORDS

When using format 4 (obtains a record based on its database address) of \$DB-OBTAIN, extraneous keywords were specified.

Resolution: Correct the CALL by removing unnecessary parameters.

2090-00-E 'WHERE DBKEY' RELATIONAL OPERATOR MUST BE '=' OR 'EQ' OR 'EQUAL'

When using format 4 (obtains a record based on its database address) of \$DB-OBTAIN, the relational operator must be '=', 'EQ', or 'EQUAL'.

Resolution: Correct the relational operator.

2110-00-E 'WHERE SEQUENCE' RELATIONAL OPERATOR MUST BE '=' OR 'EQ' OR 'EQUAL'

When keywords 'WHERE SEQUENCE' are specified, the relational operator must be '=', 'EQ,' or 'EQUAL'.

Resolution: Correct the relational operator.

2120-00-E 'THESE KEYWORDS MAY NOT BE USED TOGETHER' *keyword1* AND *keyword2*

The keywords specified may not be used together.

Resolution: Correct the CALL by removing the unnecessary keyword. See APS/IDMS Generator Reference Manual for further information on \$DB-OBTAIN or \$DB-PROCESS.

2130-00-E INVALID KEY SPECIFIED *key*

The 'WHERE' keyword was followed by an invalid key name or a keyname not found in the subschema.

Resolution: Correct the keyname.

2140-00-E INVALID SET NAME *set name*

The 'SET' keyword was followed by an invalid set name or a set name not found in the subschema.

Resolution: Correct the set name.

2150-00-E SET NAME NOT FOUND FOR REF *record name*

The keywords 'REC' and 'REF' were coded, followed by valid record names, but no set was found in the subschema that connects those records.

Resolution: Correct the record name(s) specified.

2160-00-E 'WHERE' KEYWORD INVALID WITH THIS KEY

When coding \$DB-OBTAIN the 'WHERE' clause may not be used for VIA keys.

Resolution: Correct the key specified in the CALL.

2170-00-E INVALID SYNTAX: KEY AND SET ARE NOT ASSOCIATED

The key specified is not found in the named set; either the key is no longer in the set, or it was incorrectly specified.

Resolution: Check the spelling on the specified key.

2180-00-E INVALID SYNTAX: KEY AND RECORD ARE NOT ASSOCIATED

The specified record exists, but the key entered is not recognized as being part of that record.

Resolution: Ensure that the correct key and record are referenced, and that they are spelled correctly.

2190-00-E RECORD SPECIFIED CONTAINS MULTIPLE REFERENCES TO KEY. SET MUST BE SPECIFIED.

More than one set contains the key name that was specified.

Resolution: Include the set name in your key name specifications.

4010-00-I PROTOCOL MODE SET TO VALUE OF APS-MDC: *APS-MDC*

The protocol mode was set to the value of the FMP variable APS-MDC as the default value.

Resolution: Information item: protocol mode can be overridden, if desired, by supplying the appropriate value on the macro call.

4020-00-I PROTOCOL MODE SET TO IDMS-DC

The protocol mode was set to the value of IDMS-DC as the default.

Resolution: Information item: protocol mode can be overridden, if desired, by supplying the appropriate value on the macro call.

4030-00-I IDMS RECORDS WILL BE PUT IN W-S

The IDMS records will be put in working storage as the default.

Resolution: Information item: Protocol mode can be overridden, if desired, by supplying the appropriate value on the macro call.

4040-00-I \$IDMS-PROTOCOL WAS NOT CODED

The \$IDMS-PROTOCOL macro was not coded.

Resolution: Information item: Code the \$IDMS-PROTOCOL macro if not using the IDCS painter keyword.

4050-00-I \$DB-SUBSCHEMA WAS NOT CODED

The \$DB-SUBSCHEMA macro was not coded.

Resolution: Information item: Code the \$DB-SUBSCHEMA macro if the program needs database access and the IDSS painter keyword is not used.

4060-00-I \$DB-OPEN WAS NOT CODED

The \$DB-OPEN macro was not coded.

Resolution: Information item: Code \$DB-OPEN if necessary.

4070-00-I \$DB-CLOSE WAS NOT CODED

The \$DB-CLOSE macro was not coded.

Resolution: Information item: code \$DB-CLOSE if necessary.

8010-00-F MULTIPLE \$IDM-PROTOCOLS FOUND

More than one \$IDM-PROTOCOL macro was coded.

Resolution: Remove all but one \$IDM-PROTOCOL macro call.

8020-00-F MULTIPLE \$DB-SUBSCHEMAS FOUND

More than one \$DB-SUBSCHEMA macro was coded.

Resolution: Remove all but one \$DB-SUBSCHEMA macro call.

8030-00-E APPLICATION SCHEMA FMP VARIABLE MISSING-- CONTACT APS ADMINISTRATOR OR PROJECT DBA

The FMP variable containing the name of the schema for the application is not defined.

Resolution: Contact your APS Administrator and/or the DBA for the project so the variable can be defined and included from the proper library of symbols. Otherwise, code the \$DB-SUBSCHEMA macro, supplying all required arguments.

8040-00-F SCHEMA VERSION NUMBER NOT SPECIFIED-- CONTACT APS ADMINISTRATOR OR PROJECT DBA

The format of the FMP variable containing the schema name indicates that a version number will be specified. The version number is missing.

Resolution: The APS Administrator or the project DBA should supply the missing version number or correct the FMP format. Otherwise, code the \$DB-SUBSCHEMA macro, supplying all required arguments.

9010-00-F AREA NAME MISSING FROM DDISYMB

The DDISYMB generation failed to create the AREA NAME SYMBOL.

Resolution: Check to see if the area name exists in the specified subschema.

9020-00-F KEY NAME MISSING FROM DDISYMB

The DDISYMB generation failed to create the key name symbol.

Resolution: Check to see if the key exists in the specified subschema.

9030-00-F REC SEARCH FAILURE

DDISYMB has been corrupted.

Resolution: Regenerate the DDISYMB and re-try.

9040-00-F KEY SEARCH FAILURE

DDISYMB has been corrupted.

Resolution: Regenerate the DDISYMB and retry.

APS-IMP

Category: Import System.

0000-00-I COPYRIGHT *year* MICRO FOCUS &sq&APS-rel &pgm-id &compiletime&sq.

Internal APS copyright marker for APS load modules.

3800-00-C UNRECOGNIZED PARAMETER - IGNORED: *parameter*

APS encountered an unrecognized parameter.

Resolution: Review the APS manual for valid parameters.

3801-00-C EXPECTED EQUAL SIGN MISSING BEFORE: *operand parameter*

An equal sign is missing for a parameter.

Resolution: Review the parameters to determine where to place the missing equal sign.

3802-00-C CONTINUATION MARK OR CLOSING QUOTE MISSING ON FOLLOWING LINE; QUOTE ASSUMED

The BMS map has an invalid line.

Resolution: Check the line for a missing continuation mark or closing quote.

3803-00-C OPERAND NOT RECOGNIZED - DISCARDED: *operand*

APS encountered an unrecognized operand.

Resolution: Locate the operand and omit it.

3804-00-C UNKNOWN FIELD ATTRIBUTE - IGNORED: *fieldoperand fieldattribute*

You specified an unrecognized attribute for a field.

Resolution: Locate the attribute and omit it.

3805-00-C INVALID COLOR ATTRIBUTE - IGNORED: *coloroperand colorattribute*

You specified an unrecognized color attribute.

Resolution: Correct the color attribute with a valid attribute.

3806-00-C INVALID HIGHLIGHT ATTRIBUTE - IGNORED: *highlightoperand highlightattribute*

You specified an unrecognized attribute for highlighting (intensity).

Resolution: Change the attribute to a valid highlight operand.

3807-00-C TRUNCATION FOR LITERAL: *literal*

The literal too long; APS truncated it.

Resolution: Background text literals can be 1-79 characters and initial values can only be 1-27 characters.

3808-00-C INVALID NON-NUMERIC FOUND IN PIC CLAUSE: *pictureclause*

The parentheses for the PIC clause contains a non-numeric character.

Resolution: Correct the PIC clause.

5800-00-E IMPORTER NOT ENABLED FOR: *environment*

The APS Importer does not currently support the requested environment.

Resolution: You may request new environment support through the APS Administrator.

5801-00-E INVALID DFH MACRO NAME OR LINE PRECEDING FOLLOWING LINE NOT CONTINUED

APS encountered an incorrect BMS line.

Resolution: Correct the macro name or insert a continuation character on the previous line.

5802-00-E NO SCREEN NAME FOUND - USED ???

The DFHMDI macro does not have a label.

Resolution: Provide a label for the map.

5803-00-E MISSING POSITION OR LENGTH OPERANDS FIELD DISCARDED: *fieldname*

APS could not find a position or length operand for a field.

Resolution: Provide a position or length for the field.

5804-00-E NON-NUMERIC FOUND IN POSITION OPERAND - FIELD DISCARDED: *operand*

APS encountered an invalid value for the position operand.

Resolution: Correct the position operand.

5805-00-E NON-NUMERIC FOUND IN LENGTH OPERAND - FIELD DISCARDED: *operand*

APS encountered an invalid value for the length operand.

Resolution: Correct the specified length.

7800-00-F BAD PARAMETERS; RUN ABORTED

Parameter entered is invalid.

Resolution: Check JCL.

9800-00-E WS-OPERAND-BUFFER OVERFLOW; CALL APS HOTLINE

Internal work area exceeded.

Resolution: Contact your APS Administrator.

APS-IMS

Category: IMS and IMS-TP macros.

1020-00-E (TP) SUBSCRIPT MISSING FOR SCR: *screen* FLD: *field*

An attributed field within a repeated block is missing the subscript for that field.

Resolution: Ensure that you code the subscript for the attributed field.

1030-00-E (TP) SCR: *screen* FLD: *field* IS NOT A REPEATED FIELD

You coded an attributed field with a subscript and that field is not part of a repeated block.

Resolution: Remove the subscript.

1040-00-E (TP) FLD: *field* IS NOT A VALID FIELD FOR SCR: *screen*

The coded field name is invalid for the named screen.

Resolution: Check the spelling of the field name.

1050-00-E (TP) REQUIRED SCREEN NAME NOT SUPPLIED

You did not supply the screen name when:

- setting attributes (\$TP-ATTR)
- clearing attributes (\$TP-CLEAR-ATTRS)
- clearing the screen with either spaces (\$SC-CLEAR) or null values (\$SC-NULL)

Resolution: Supply the screen name.

1060-00-E (TP) REQUIRED ATTRIBUTE NOT SUPPLIED

When setting attributes (\$TP-ATTR), you did not supply the attribute.

Resolution: Supply the attributes you want to set.

1070-00-E (TP) REQUIRED FIELD NAME NOT SUPPLIED

When setting attributes (\$TP-ATTR), you did not supply the field name.

Resolution: Supply the field name(s) you want to attribute.

2010-00-E (TP) COMBINATION OF ATTRIBUTES: *attributes* NOT RECOGNIZED IN ATTRIBUTE TABLE

The attribute table in APIMSTP does not contain the combination of the values given.

Resolution: Contact your APS Administrator. Attribute table needs updating.

2011-00-E 'PREV' INVALID FOR IMS

The keyword PREV or PREVIOUS is invalid when accessing an IMS database.

Resolution: Correct the call by removing the keyword PREV.

2030-00-W (TP) ATTRIBUTES: *attributes* NOT VALID

Attribute given is invalid.

Resolution: Check the spelling of the attribute.

2031-00-E INVALID COMMAND FOR GSAM

APS does not allow the command for GSAM records.

Resolution: The command is either a DB-MODIFY or DB-ERASE, both of which are invalid for GSAM. Remove the command.

2040-00-E MULTI LEVEL CALL INVALID FOR GSAM

You can only specify a single record in the call when accessing a GSAM database.

Resolution: Correct the call by specifying only one record for processing.

2041-00-W EXTENDED ATTRIBUTE: XXXXXXXX HAS NO EFFECT ON SCREEN IN PCIMS

The extend attribute XXXXXXXX will be either color, blink, reverse video, or underscore, depending on which of these you coded in the \$TP-ATTR command.

Resolution: If you use any of the above extended attributes, be aware that they have no effect in PCIMS.

2042-00-W FIELD: XXXXXXXX PCIMS DOES NOT SUPPORT USING ANY FIELD IN BOTH SYSMMSG & TC CONSTRUCT

Field XXXXXXXX is the name of the field that you designated for SYSMMSG in the PM window of the Screen Painter: APS also uses it on the TC (Trancode Construction) window. APS produces the W-level message at screen generation. APS produces the E-level message at program generation.

Resolution: Code different field names for the SYSMMSG and TC fields if the target is PCIMS.

2042-00-E FIELD: XXXXXXXX PCIMS DOES NOT SUPPORT USING ANY FIELD IN BOTH SYSMMSG & TC CONSTRUCT

Field XXXXXXXX is the name of the field that you designated for SYSMMSG in the PM window of the Screen Painter: APS also uses it on the TC (Trancode Construction) window. APS produces the W-level message at screen generation. APS produces the E-level message at program generation.

Resolution: Code different field names for the SYSMMSG and TC fields if the target is PCIMS.

2043-00-W FIELDS DEFINED: NNN MORE THAN 400 FIELDS IN ONE SCREEN NOT SUPPORTED IN PCIMS.

You coded more than 400 fields for one screen, exceeding the limit for PCIMS.

Resolution: Limit number of screen fields to 400 or under, if the target is PCIMS.

2050-00-E GSAM RECORD CAN BE QUALIFIED ONLY ON ONE FIELD

You can only qualify the record on one key when accessing a GSAM database.

Resolution: Correct the call by specifying only one field qualification.

2060-00-E GSAM RECORD MUST BE QUALIFIED ON 'GSAM-KEY'

You must use the dummy field, GSAM-KEY, when qualifying on a GSAM record.

Resolution: Correct the call by specifying GSAM-KEY as the key.

2070-00-E FOR RECORD *recordname* NO PCB WITH PROCOPT 'G' OR 'I'

To retrieve a GSAM record, the PCB must have a procopt of G; to insert a GSAM record, the PCB must have a procopt of I.

Resolution: Consult with the Database Administrator to determine appropriate processing options for the record in question.

2080-00-I VIEW HAS DEFAULTED TO: *viewname*

You did not specify a view name in the call, so the View has defaulted.

Resolution: If you do not explicitly specify PCB (or View) in the call, then the default PCB is the first one in the PSB that permits access to the first record named in the call. No response is necessary.

2090-00-E PROCOPT VIOLATION: GET REQUIRED FOR RECORD

You coded a DB-OBTAIN coded for a record and the PCB does not allow retrievals.

Resolution: Consult with Database Administrator to determine appropriate processing options for the record in question.

2100-00-E PROCOPT VIOLATION: INSERT REQUIRED FOR RECORD

You coded a DB-STORE coded for a record and the PCB does not allow inserts.

Resolution: Consult with Database Administrator to determine appropriate processing options for the record in question.

2110-00-E PROCOPT VIOLATION: REPLACE REQUIRED FOR RECORD

You coded a DB-MODIFY for a record and the PCB does not allow updates.

Resolution: Consult with the Database Administrator to determine appropriate processing options for the record in question.

2120-00-E PROCOPT VIOLATION: DELETE REQUIRED FOR RECORD

You coded a DB-ERASE for a record and the PCB does not allow deletes.

Resolution: Consult with the Database Administrator to determine appropriate processing options for the record in question.

2130-00-E PROCOPT VIOLATION: PATH REQUIRED FOR RECORD

You requested a record in a path call, and the procopt does not allow path calls.

Resolution: Consult with the Database Administrator to determine appropriate processing options for the record in question.

2140-00-W FOR RECORD: *recordname* RECORD IS KEY SENSITIVE; NO DATA RETRIEVED

For a DB-OBTAIN, APS referenced the lowest level record; data not retrieved.

Resolution: The record named is key sensitive so APS does not retrieve data in the IO area; however, you can determine whether or not the record exists in the database by checking the status flags as done normally. No response is necessary.

2150-00-E FOR RECORD: *recordname* LOWEST LEVEL RECORD MAY NOT BE 'REFERENCED' UNLESS KEY SENSITIVE

For a DB-OBTAIN, APS may not reference the lowest level record unless it is key sensitive.

Resolution: Correct the call by preceding the lowest level record specified in the call by the keyword, REC.

2160-00-W FOR KEY: *key* QUALIFICATIONS SPECIFIED DO NOT MATCH ACTUAL NUMBER OF PARTS COMPRISING KEY

The key contains more than one field, but the number of qualifications specified in the call for this key is less than the actual number of parts.

Resolution: The key is a secondary index comprised of more than one field. You specified a number of fields to move to the SSA that is less than the actual number of fields comprising the key. No response is necessary.

2170-00-E FOR KEY: *key* TOO MANY QUALIFICATIONS SPECIFIED FOR KEY

The key contains more than one field, and the number of qualifications specified in the call for this key exceeds the actual number of parts.

Resolution: The key is a secondary index comprised of more than one field. You specified a number of fields to move to the SSA that is more than the actual number of fields comprising the key. Correct the call by specifying the correct number of fields to be moved to the SSA.

2180-00-E FOR RECORD: *recordname* MORE THAN FIVE COMMAND CODES GENERATED

The number of command codes generated exceeds the limit of five.

Resolution: You probably caused more than five command codes to generate by coding the keyword CCODE followed by a list of command codes. If you need more than five command codes, call the APS Administrator; otherwise, remove unnecessary command codes.

2190-00-E ASSEMBLER BLOCKING ROUTINE MUST BE USED WHEN NOT USING DEFAULT IO AREA

You must use the assembler blocking and unblocking routine when acting on more than one record in a call and specifying an IO area different from the default.

Resolution: You must set an FMP symbol to specify that you are using the assembly. Consult the APS Administrator for the proper way to do this.

2200-00-E FOR RECORD: *recordname* LOGICAL CONCATENATED RECORD INVALID IN PATH CALL WHEN LOGICAL CHILD IS VARIABLE LENGTH

You cannot specify the record in a path call because the logical child portion is a variable length.

Resolution: Remove the named record from the path call.

2210-00-W DATA BASE CALL NOT GENERATED FLAG SET TO SUPPRESS DATA BASE CALL

The FMP flag, &IM-SUPPRESS-DB-CALL, set. It suppresses the database call.

2220-00-W DATA BASE CALL NOT GENERATED BECAUSE DC TARGET IS ISPF

APS suppressed the database call because the DC target is ISPF for prototyping and you did not define the FMP flag, &IM-SUPPRESS-DB-CALL.

3010-00-E FOR RECORD: *recordname* FOR KEY: *key* KEY INVALID FOR RECORD

The key specified in the call is invalid for the record.

Resolution: The named key is unknown for the named record. Check spelling of the key name.

3020-00-E FOR RECORD: *recordname* INVALID RECORD NAME

APS does not recognize the specified record name as a valid COBOL record name.

Resolution: In a subschema where there are DLI and VSAM records, APS cannot determine the type of record. Check the spelling of the named record.

3030-00-E FOR RECORD: *recordname* PCB NOT FOUND. INVALID RECORD NAME; USE COBOL RECORD NAME

You did not give a PCB name the call and APS cannot use the default because the record name is incorrect.

Resolution: Check the spelling of the named record.

3040-00-E FOR VIEW: *view* INVALID VIEW NAME

The PCB name specified in the call is incorrect.

Resolution: Check the spelling of the named View (PCB).

3050-00-E FOR VIEW: *view* FOR RECORD: *recordname* INVALID RECORD NAME. USE COBOL RECORD NAME

The record name specified in the call is incorrect.

Resolution: Check the spelling of the named record.

3060-00-E FOR RECORD: *recordname* FOR PARENT: *parentname* PARENT INVALID FOR THIS RECORD

The records specified in the call are not in the correct hierarchy.

Resolution: Correct the call so that the specified records are in the proper hierarchical order.

4010-00-E FUNCTION NOT NOW SUPPORTED BY PCIMS

APS produces this message if you coded any of the following system service calls: IM-STAT, IM-ROLL, IM-ROLB, and IM-LOG.

Resolution: Do not code the above system service calls if the target is PCIMS.

4020-00-W GSAM CALL GENERATED WITHOUT: XXXXXXXXXXXX RSA; PCIMS DOES NOT SUPPORT RSA

APS produces this message if you coded a record search argument on any of the following GSAM calls: IM-GU, IM-GN, or IM-ISRT, and the target is PCIMS.

Resolution: Do not code a record search argument on the above GSAM calls if the target is PCIMS.

5010-00-E (TP) PROGRAM ARGUMENT REQUIRED

APS invoked the \$TP-MSG-SW macro and detected that the first parameter is missing or contains nulls.

Resolution: Code the program name or transaction ID as the first parameter in the macro.

5020-00-E (TP) NO ALT PCB FOR *pcbname*

APS invoked \$TP-CHNG-TO-DEST and detected that there is no alternate PCB defined.

Resolution: Correct the PSB to define an alternate PCB. It may be necessary to contact your APS Administrator.

5030-00-E (TP) NO APPROPRIATE IO-PCB

A TP-SEND or TP-MSG-SW command in the program required an alternate IO PCB with specific characteristics and the present program PSB cannot provide the appropriate PCB. You must match the three independent criteria specified in (or allowed to default in) the command in a single IO PCB in order for APS to choose it for the command. The criteria used to select an IO PCB is as follows:

- If you specify an LTERM or TRANCODE in the command, you must hard code LTERM/TRANCODE or you must define the PCB as modifiable. If you provide the trancode as a COBOL data name instead of a literal constant (recognized by an LTERM/TRANCODE greater than 8 characters) then you can only use a modifiable PCB.
- For a command that specifies EXPRESS, APS requires an EXPRESS PCB (EXPRESS=YES on PCB statement in PSB source). If the command specified NOEXPRESS (default), then APS requires a Non-express PCB.

Note: If you want TP-MSG-SW to reference an alternate IO PCB, you must define that PCB with EXPRESS=NO and MODIFY=YES.

- For a command that specifies ALTRESP, APS requires an ALTRESP PCB (ALTRESP=YES on PCB statement in PSB source). If the command specifies NOALTRESP, then APS requires a Nonaltresp PCB.

Resolution: Review the command to determine the PCB requirements. Either modify the PSB to provide a PCB with appropriate options (and redefine the modified PSB to APS DDI) or modify the command so that its PCB requirements meet an IO PCB that is available within the PSB.

5040-00-F (TP) SUBSCHEMA OR PSB MACRO NOT INVOKED

You did not invoke \$IM-PSB or \$DB-SUBSCHEMA.

Resolution: All IMS programs must invoke either \$IM-PSB or \$DB-SUBSCHEMA as the first macro in the program.

5800-00-F (TP) DB2 IS NOT A VALID DB TARGET FOR MICRO FOCUS IMSVS86

The Data Definition symbols contain DB2 references.

Resolution: Micro Focus's IMSVS86 does not support DB2. Remove references to DB2.

6010-00-E (TP) MUST BE INVOKED IN COBOL AREA A

You invoked \$TP-ENTRY from the wrong column.

Resolution: Make sure that you coded \$TP-ENTRY in COBOL AREA-A, which is between columns 8 and 11 inclusive.

6020-00-W (TP) USE TP-SEND WITH ENDCONV

You invoked \$TP-SEND-LAST macro. APS replaced this macro with \$TP-SEND.

Resolution: Use \$TP-SEND instead of \$TP-SEND-LAST. Code the keyword ENDCONV because you used a SPA.

6030-00-W (TP) USE \$TP-SEND

You invoked \$TP-SEND-LAST macro. APS replaced this macro with \$TP-SEND.

Resolution: Use \$TP-SEND instead of \$TP-SEND-LAST.

6040-00-E (TP) UNKNOWN KEYWORD: *keyword*

The named keyword is invalid.

Resolution: Check the spelling of the keyword.

7010-00-E (TP) SCREEN MUST HAVE VALUE, NOT NULL OR SPACES

APS invoked \$TP-SEND and the first parameter is missing or contains nulls.

Resolution: Code the screen name as the first parameter in the macro.

7020-00-W (TP) USE \$TP-MSG-SW INSTEAD OF \$TP-XCTL

You invoked \$TP-XCTL. APS replaced this macro by \$TP-MSG-SW for IMS programs.

Resolution: Use \$TP-MSG-SW instead of \$TP-XCTL.

7030-00-E (TP) FIRST PARM TO TP-SCRNLIST MUST NAME A SCREEN

The TP-SCRNLIST command detected a keyword as the first parameter. Keyword parameters must follow one or more screen names.

Resolution: Correct the command, reviewing documentation as necessary.

7040-00-E (TP) SCREEN: *screenname* MUST BE LABELED

TP-SCRNLIST in an IMS/DC program supplied the name of a screen for which you did not specify the LABELED option during screen definition (painting). The LABELED option causes the input message to contain the screen name as the final 8 bytes. APS requires this so that logic generated by TP-SCRNLIST may determine which screen it received at run time.

Resolution: Verify that you provided the correct screen names to the TP-SCRNLIST command. If necessary, use the Screen Painter to specify the LABELED option and regenerate the screens that do not specify this option.

7050-00-E (TP) 'RECORD' KEYWORD INVALID WHEN USING TP-SCRNLIST

The TP-SCRNLIST command detected the RECORD keyword. RECORD is not a valid parameter for TP-SCRNLIST.

Resolution: Correct command, reviewing documentation as necessary.

7060-00-E ALT LTERM REQUIRED FOR DESTINATION-PRINTER

When using TP-SEND and you defined the output device on the Parm window of the Screen Painter to a printer, ensure that you include an alternate PCB TYPE=TP definition in the PSB source.

Resolution: Define an alternate PCB TYPE=TP in the PSB source. Otherwise, change the output device on the Parm window of the Screen Painter to screen or program.

8010-00-F (TP) INCLUDE APMDCSC BEFORE APIMSTP

You included the macro library member APIMSTP before the member APMDCSC.

Resolution: Contact your APS Administrator. The problem is probably within the JCL stream.

8020-00-F APIMSTP INCLUDED TWICE - REMOVE EXTRA INCLUDE

You included the macro library member, APIMSTP, twice.

Resolution: Contact your APS Administrator. The problem is probably within the JCL stream.

8030-00-E \$TP-LINKAGE INVOKED TWICE - REMOVE EXTRA INCLUDE

APS invoked the macro \$TP-LINKAGE more than once.

Resolution: Code \$TP-LINKAGE only once in the program.

8040-00-E (TP) \$TP-LINKAGE MUST BE INVOKED BEFORE \$TP-ENTRY

APS invoked the macro \$TP-LINKAGE after \$TP-ENTRY.

Resolution: Code \$TP-LINKAGE before coding \$TP-ENTRY.

8050-00-F \$TP-ENTRY MUST BE INVOKED FOR IMS PROGRAM

You compiled a program with the MDC set to IMS/DC but APS did not encounter TP-ENTRY.

Resolution: Correct input and resubmit; either change the target to batch or use the ENTRY keyword.

8060-00-F \$TP-SCRNLIST MUST BE INVOKED BEFORE TP-ENTRY

APS encountered \$TP-ENTRY, followed by \$TP-SCRNLIST.

Resolution: Change the order of the macros so that \$TP-SCRNLIST appears first.

8070-00-F TP-SCRNLIST INVOKED MORE THAN ONCE

Only one invocation of TP-SCRNLIST is valid.

Resolution: Delete extraneous TP-SCRNLIST(s).

8080-00-E *NOSPA KEYWORD USED TWICE

Only one SPA Keyword allowed per \$TP-SCRNLIST.

Resolution: Delete extraneous *NOSPA(s).

9010-00-F MISSING INCLUDE SCRSYMB FOR SCR: *screen*

The screen symbols for the named screen are missing.

Resolution: Contact your APS Administrator.

9020-01-F, 02-F PROGRAM-INVOKED PARA FOR NON-CONVERSATIONAL IMS PROGRAM

A nonconversational IMS/DC program contains the paragraph APS-PROGRAM-INV-PARA. In a program using design mode, APS performs this paragraph when the program is TP-PROGRAM-INVOKED. Usually you should set TP-PROGRAM-INVOKED to True only for a conversational program. The presence of APS-PROGRAM-INV-PARA in a nonconversational program is an apparent conflict and may not function as intended.

Resolution: If you want to keep the paragraph, explicitly perform it from user-written logic or define the program as conversational by specifying &TP-USER-LEN 0. Otherwise, remove the paragraph.

APS-INT

Category: APS initialization module.

5001-00-F NOT ENOUGH CORE FOR FMP TABLES RETURN-CODE: *sstreturncode*

The program requires more core for the FMP step than requested on the EXEC step of the APS precompile. If the cause is an incorrectly coded FMP loop, APS increases the FMP loop limit.

Resolution: Increase the amount of core on the EXEC step of the JCL or decrease the loop limit and correct the FMP loop code.

APS-ISP

Category: ISPF macros.

1010-00-E SCREEN NOT FOUND

\$TP-SCRNLIST invoked without naming a screen as the first parameter.

Resolution: Code a valid screen name as the first parameter for the \$TP-SCRNLIST macro.

4010-00-I TP-USER-LEN SET TO 2048

APS found &TP-USER-LEN undefined and set it to the default value.

4020-00-I TP-SCREEN-AREA-MAX SET TO 2048

APS found &TP-SCREEN-AREA-MAX undefined and set it to the default value.

4030-00-F REMOVE LINKAGE SECTION AND \$TP-STATUS-AREA

\$TP-COMMAREA and \$TP-STATUS-AREA invoked. It is incorrect to code \$TP-STATUS-AREA in the program.

Resolution: Remove \$TP-STATUS-AREA and LINKAGE SECTION from the program.

4040-00-F SCREEN MUST HAVE VALUE, NOT NULL OR SPACES

\$TP-SEND invoked without the first parameter.

Resolution: Code a valid screen name as the first parameter.

4050-00-I ERROR PARAGRAPH IGNORED

You specified an error paragraph on a \$TP-ATTR command in a program targeted as an ISPF prototype. APS did not execute the error paragraph parameter in ISPF prototyping mode. APS ignored paragraph.

4060-00-I USER MUST CHANGE TP-STATUS-AREA-LEN TO A VALUE OF 246

TP-STATUS-AREA-LEN is always 246 regardless of the value assigned.

4070-00-I INPUT SCREEN NOT SPECIFIED

APS executed an Entry statement with a null argument (" ") in the screen name parameter.

Resolution: No response is necessary unless you intend to associate a screen with the program receiving this information message. If you intend to give a screen name to the program, check the application definition screen to be sure you specified a screen name for the program.

8010-00-F APISPFTP INCLUDED TWICE - REMOVE EXTRA INCLUDE

You included the member APISPFTP in the JCL more than once.

Resolution: Ensure that you include this member only once.

8020-00-F INCLUDE APMDCSC BEFORE APISPFTP

You included member APISPFTP included before APMDCSC.

Resolution: Ensure that you include APMDCSC before APISPFTP.

8030-00-F IMS DLI(DB) CAN NOT BE ACCESSED BY ISPF

You specified an IMS DLI(DB) within an ISPF prototype. APS does not permit access to DLI(DB) during prototyping. You cannot process commands that reference DLI databases.

Resolution: During prototyping APS does not support "live" database accesses. You can suppress DLI database calls by setting &IM-SUPPRESS-DB-CALL = 1 in the specific programming receiving the message, in the DB/DC control library or in an INCLUDE user macro library. Setting this flag causes the database macros to generate the appropriate working storage while suppressing generation of the procedural database calls.

APS-MDC

Category: TP macros.

1010-00-E \$TP-ENTRY MISSING

You did not invoke the \$TP-ENTRY macro.

Resolution: Invoke \$TP-ENTRY after Working-Storage section. Use it in lieu of Procedure Division.

1020-00-E SUBSCRIPT MISSING FOR SCR: *fieldname*

An attributed field within a repeated block is missing the subscript for that field.

Resolution: Make sure that you code the subscript for the attributed field.

1030-00-E SCR: *screenname* FLD: *fieldname* IS NOT A REPEATED FIELD

You coded an attributed field with a subscript and that field is not part of a repeated block.

Resolution: Remove the subscript.

1040-00-E FLD: *fieldname* IS NOT A VALID FIELD FOR SCR: *screenname*

The coded field name is not a valid field for the named screen.

Resolution: Check the spelling of the field name.

1050-00-E REQUIRED SCREEN NAME NOT SUPPLIED

You coded the macro without the screen name.

Resolution: Make sure you code the screen name for the macro.

2010-00-E NO ROOM FOR SIGN

A numeric field specified for editing does not have room for the placement of the sign.

Resolution: Make sure that the field is large enough to hold the sign.

2020-00-E NO ROOM FOR SIGN/DEC. POINT

A numeric field specified for editing does not have room for both the sign and the decimal point.

Resolution: Make sure that the field is large enough to hold the sign and a decimal point.

2030-00-E MACRO macroname NAMED AS EDIT FOR FLD *fieldname* CONTAINED IN SCREEN *screenname* HAS NOT BEEN DEFINED

During generation of edits for a screen, the field editing macros detected a field for which you specified a user edit macro. However, you did not define that user macro.

Resolution: Verify that the macro name is correct and that you included a definition of the macro for the compile.

4010-00-E TOO MANY ONE CHARACTER TSO FIELDS

There must be less than 26 one character fields on a TSO screen.

Resolution: Make sure that there are 25 or less one character fields.

4020-00-E USE \$TP-ATTR NOT \$SC-ATTR

You invoked \$SC-ATTR instead of \$TP-ATTR.

Resolution: Code \$TP-ATTR instead of \$SC-ATTR.

4030-00-I ATTRIBUTE: *attribute* IGNORED

For the ISPF environment, only Position is a valid attribute.

Resolution: No response necessary. This is an informational message.

4035-00-E COMBINATION OF ATTRIBUTES: *attributes* NOT RECOGNIZED IN ATTRIBUTE TABLE

APS cannot find the combination of attributes in the attribute table.

Resolution: Contact your APS Administrator.

4060-00-W TP-CLEAR-ATTRS ONLY VALID FOR CICS/IMS

TP-CLEAR-ATTRS is not valid for ISPF.

Resolution: Remove or replace code.

4070-00-W ATTRIBUTE: *attribute* NOT VALID

The coded attribute is unknown to ISPF.

Resolution: Check the spelling of the attribute.

4080-00-W EXTENDED ATTR NOT VALID FOR ISPF - IGNORED

APS found an extended attribute and ignored it.

8010-00-F APMDCSC INCLUDED TWICE - REMOVE EXTRA INCLUDE

You included the member APMDCSC in the JCL more than once.

Resolution: Make sure that you include APMDCSC only once.

9010-00-F * CONTACT MICRO FOCUS*** UNKNOWN MDC PARM: *parameter***

The DC target is unknown.

Resolution: Contact your APS Administrator. The FMP symbol, &APS-MDC, is invalid.

9020-00-F * CONTACT MICRO FOCUS *** IMPROPER &TP(SC)-SSF-LIB**

The screen symbol library is invalid.

Resolution: Contact your APS Administrator.

APS-PRM

Category: APS parameters.

2001-00-E UNKNOWN LANGUAGE NAME

You coded something other than the following valid language parameter: SCOBOL, SCB; COBOL; CICX or CICS; SFORTRAN; TEXT; PLI, PL1; FORTRAN; or JCL.

Resolution: Correct the parameter to include a valid language name.

2002-00-E UNKNOWN TARGET NAME

You coded something other than the following valid target parameter: IBM, or COBOL-II.

Resolution: Correct the parameter to include a valid target name.

2003-00-E IMPROPER XLATE VALUE

You coded something other than the following valid XLATE values: ALL; FMP; RED; SCB; RWT; RBI; CICX-ONLY.

Resolution: Correct the parameter to include a valid XLATE value.

2004-00-E IMPROPER DEBUG VALUE

The debug parameter is being used and you coded a misspelled or invalid parameter.

Resolution: Contact your APS Administrator if you need the DEBUG option.

2005-00-E IMPROPER SEQ VALUE

You coded something other than the following valid SEQ values: COBOL or C; WYLBUR or W; IDENTIFIER or I; RECORD or R; LJ-IDENTIFIER, LJIDENTIFIER or L.

Resolution: Correct the parameter to include a valid SEQ value.

2006-00-E UNPRIVILEGED PARAMETER USE

You entered an unauthorized parameter and privilege cards do not allow its use.

Resolution: Remove parameter or arrange with the APS administrator for a change in privilege cards.

2007-00-E 4 CHARACTERS REQUIRED

The FMP-CHARS parameter is being used and you coded a misspelled or invalid parameter value. The FMP character parameter requires a minimum of four (4) characters.

Resolution: Check for a valid FMP-CHARS parameter containing a minimum of 4 characters. The 4 default characters are % \$ & + .

2008-00-E UNKNOWN PARAMETER KEYWORD

You misspelled or specified an invalid parameter.

Resolution: Check for a valid parameter and correct value. You can obtain message for an incorrect IDENT value, SEQN value or an incorrect parm keyword.

Keyword: IDENT.

Valid values: PGMID, PGM, GEN, SPACE.

Keyword: SEQN.

Valid values: GEN, SPACE.

For a list of other valid parm keywords see the APS Reference.

2009-00-E EQUAL SIGN MISSING

There is no equal sign present before the specified parameter value.

Resolution: Correct the code so that there is an equal sign between the parameter and its value.

5001-00-F PARAMETERS INCONSISTENT WITH S-FORTRAN

You cannot use the XLATE parameter values specified when the target chosen is S-FORTRAN.

Resolution: Correct the parameter value.

5002-00-F PRIVILEGE CARDS MISSING; RUN ABORTED

File containing privilege card is empty. APS halted execution.

Resolution: Check JCL to make sure pointer to privilege card file is present. Check privilege card file to make certain that privilege card data is present.

5004-00-F SECOND PRIVILEGE CARD MISSING; RUN ABORTED

Second privilege card is missing from privilege card file. APS halted execution.

Resolution: Determine cause of missing privilege card.

5005-00-F IMPROPER SECOND PRIVILEGE CARD; RUN ABORTED

Second privilege card in privilege card file contains an error. Execution will halt.

Resolution: Check second privilege card. If it appears in order, contact your APS Administrator.

5006-00-F THIRD PRIVILEGE CARD MISSING; RUN ABORTED

Third privilege card is missing from privilege card file. APS halted execution.

Resolution: Determine cause of missing privilege card.

5007-00-F IMPROPER THIRD PRIVILEGE CARD; RUN ABORTED

Third privilege card in privilege card file contains an error. Execution will halt.

Resolution: Check third privilege card. If it appears in order, contact your APS Administrator.

5008-00-F IMPROPER EXTRA PRIVILEGE CARD; RUN ABORTED

Extra privilege card contains an error. APS halted execution.

Resolution: Check privilege card file. If it appears in order, contact your APS Administrator.

5009-00-F SSDM PRIVILEGE OVERFLOW; RUN ABORTED

The privilege card counter internal to APS has exceeded the set maximum number.

Resolution: Check the privilege card file and if unable to determine the source of the problem, contact your APS Administrator.

APS-PST

Category: APS Message Report.

1000-00-F COBOL COMPILER MESSAGE OVERFLOW

During error message processing APS reached the maximum of 300 messages.

Resolution: Correct known errors and resubmit compile.

1001-00-F MESSAGE TABLE FULL; TRUNCATED

During error message processing APS reached the maximum of 462 error messages.

Resolution: Correct known errors and resubmit compile.

4000-00-I SEQ-PAIR OVERFLOW; COMPILE COBOL SEPARATELY

The internal tracking of the sequence numbering exceeded the maximum of 900. This error may result if the NUM option is not on for the COBOL compile.

Resolution: Recompile program using NUM option if it you have not already turned it on. Otherwise, compile program in stages with APS compile first and then the COBOL compile.

4001-00-I APS ERROR MESSAGE PROBLEM - IS NUM OPTION ON?

During internal error message tracking, the error message and source line are not in order. NUM option is not on in COBOL compile or an incorrect file is being passed in the JCL to the COBOL message processor.

Resolution: Recompile using the NUM option and/or check JCL and correct.

APS-PTR

The following messages are from the Painters system. These messages can be identified by APS-PTR at the beginning of the messages code in the message report. The messages are in numerical sequence.

0000-00-I COPYRIGHT *year* MICRO FOCUS *&sq&APS-rel &pgm-id &completetime&sq*

Internal APS copyright marker for APS load modules.

0201-00-I DS CHANGE SUCCESSFUL

Message occurs when using the K, or KK line command and all changes or line additions are correct when passed back to the Program Painter.

Resolution: Continue.

0202-00-I DS INSERTION SUCCESSFUL

Message occurs when using the J line command and the new lines that have been entered and passed back to the Program Painter are correct.

Resolution: Continue.

0203-00-I CONVERSION SUCCESSFUL

No errors were encountered in code.

Resolution: Continue.

0204-00-I CONVERT NOT SUCCESSFUL

An error was encountered in the code.

Resolution: Correct error before continuing.

0205-00-I WARNING - NO SCREEN ASSOCIATED WITH PROGRAM

Online program but no screen assigned to it through the Application Painter.

Resolution: Assign new or existing screen to program if necessary.

0400-00-I ONLY KEYWORD NEEDED IS REC - KEYWORD CHANGED

If keywords such as 'WS' or 'CA' are entered, the Data Structure Painter no longer requires them and converts them to REC.

Resolution: Continue.

0800-00-I INFO-LITERAL MAY NOT BE CONTAINED WITHIN QUOTES/APOSTS

The trancode literal field was entered within quotes. The quotes have been removed because they are not valid.

Resolution: Avoid enclosing the trancode literal within quotes.

0801-00-I INFO-FILL CHARACTER OF NULL ASSUMED FOR PFKEY

The Trancode Fill field was changed to an 'N' since Trancode is a PF key and not a literal.

Resolution: Continue.

1200-00-W WARNING - NO CORRESPONDING ENTER S-COBOL

An ENTER COBOL statement was encountered but no corresponding ENTER S-COBOL.

Resolution: Make sure the omission of the ENTER S-COBOL statement was intentional because all statements after ENTER COBOL will be passed through as is.

1400-00-W WARNING: S9 IS ASSUMED TO BE S9 AND NOT S9(9)

S9 is valid COBOL and will not be translated.

Resolution: If PIC S9(9) is desired, enter S(9).

1401-00-W WARNING: A9 IS ASSUMED TO BE A9 AND NOT A(9)

A9 is valid COBOL and will not be translated.

Resolution: If PIC A(9) is desired, enter A(9).

1402-00-W WARNING: X9 IS ASSUMED TO BE X9 AND NOT X(9)

X9 is valid COBOL and will not be translated.

Resolution: If PIC X(9) is desired, enter X(9).

1404-00-W WARNING: N9 WILL BE N9 AND NOT 9(9)

N9 is valid COBOL and will not be translated.

Resolution: If PIC 9(9) is desired, enter N(9).

1405-00-W WARNING - OPTION CARD CHANGED TO PROGMR MODE

If it is a batch program, mode must be Programmer mode.

1406-00-W WARNING - NO SCREEN ASSOCIATED WITH PROGRAM

Online program but no screen assigned to it through the Application Painter.

Resolution: Assign new or existing screen to program.

1408-00-W PSB/SUBSCHEMA IN APPL PTR IGNORED BECAUSE RELATED MACRO WAS CODED IN PROG PTR

A \$DB-SUBSCHEMA or \$IM-PSB macro was coded in the Program Painter and a PSB or SUBSCHEMA entity was included in the Application Painter. Normally, a PSB/SUBSCHEMA in the Application Painter would cause the appropriate macro to be generated; however, since the macro was also coded in the Program Painter, the PSB/SUBSCHEMA in the Application Painter is being ignored.

Resolution: Make sure that the macro coded in the Program Painter is correct. If it is not correct, make the appropriate changes. If the PSB/SUBSCHEMA included in the Application Painter is correct, delete the macro coded in the Program Painter and regenerate the program.

1409-00-W THIS DB-SUBSCHEMA IGNORED; THE FIRST ONE WAS USED

Multiple DB-SUBSCHEMA macros were coded in the Program Painter. Only the first one encountered is used; all others are ignored.

Resolution: Make sure that the first macro coded is correct. If so, delete the other(s). If the first one is not correct, correct it, delete all the others, and regenerate the program.

1410-00-W THIS IM-PSB IGNORED; THE FIRST ONE WAS USED

Multiple IM-PSB macros were coded in the Program Painter. Only the first one encountered is used; all others are ignored.

Resolution: Make sure that the first macro coded is correct. If it is, delete the other(s) later. If the first one is not correct, first correct it, delete all the others and regenerate the program.

1411-00-W WARNING - INDENTATION LESS THAN 1ST LINE IN DS - ASSUME SAME AS 1ST LINE

This message is produced in the Program Painter and Data Structure Painter when the user performs a CONVERT command and has coded lines resembling the following:

```
WS-NAME-1      X5
WS-NAME-2      92
WS-NAME-3      X
```

Note that the third line starts one column to the left of the starting column of the first line of the data structure. The difference may be one or more columns.

1413-00-W ??? WARNING - IMPROPER CONTINUATION ELLIPSES "... " OR ".." SEEN

This message is displayed when the user has mistyped ellipses in the Program Painter source. Three dots are correct.

Resolution: Locate mistyped ellipses and correct.

1800-00-W WARNING - FIELD NAME IS NOT DEFINED - LINE #

A field name was specified for tranocode construction which hasn't been associated with an IO field on the screen.

Resolution: Define an IO field and assign it the corresponding field name, or check for a misspelling of the field name.

1801-00-W WARNING - *PFKEY SPECIFIED AS TRANCODE BUT NOT DEFINED

*PFkey was supplied on the trancode construction screen, but no values have been assigned on the MFS function keys definition screen.

Resolution: Supply a transaction code value on the MFS function keys definition screen.

1802-00-W WARNING - FIELD NAME SPECIFIED FROM TRANCODE IS NOT DEFINED

The field name supplied for the optional trancode field hasn't been associated with an IO field on the screen.

Resolution: Define an IO field and assign it the correct field name, or check for a misspelling of the field name.

1803-00-W WARNING - *PFKEY SPECIFIED FOR TRANCODE BUT NOT DEFINED

*PFkey was supplied for the optional trancode field but no values have been assigned on the MFS function keys definition screen.

Resolution: Supply a transaction code value on the MFS function keys definition screen.

1804-00-W WARNING - FIELD SPECIFIED AS SYSMMSG HAS NOT BEEN DEFINED

The field name supplied for SYSMMSG hasn't been associated with an IO field on the screen.

Resolution: Define an IO field and assign the correct field name to it.

1805-00-W WARNING - FIELD NAME "SYSMMSG" CONFLICTS WITH SYSMMSG PARM VALUE

"SYSMMSG" was used as the name for an IO field, and "YES" or "SYSMMSG" was specified in the SYSMMSG field.

Resolution: Either change the name of the IO field and supply that name for SYSMMSG, or delete the IO field and allow the SYSMMSG parameter to build the IO field upon screen generation.

1806-00-W WARNING - SYSMMSG OVERLAPS TEXT, REPEATED BLOCK, OR I/O FIELD

"SYSMMSG" or "YES" was specified in the SYSMMSG field, but the default line for building the SYSMMSG field already contains a field on it.

Resolution: Remove the field from the last line of the screen.

1807-00-W WARNING - OPER LOGICAL PAGING REQUESTED WITHOUT TRANCODE FIELD

Operator logical paging was set to YES, but an optional trancode field name or trancode construction was not specified.

Resolution: Specify trancode construction or supply a field name for optional trancode field name.

1808-00-W WARNING - *TC SPECIFIED FOR TRANCODE BUT NOT CONSTRUCTED

*TC was supplied as the optional trancode field name, but no field names or default literals were supplied on the trancode construction screen.

Resolution: Supply at least one I/O field or default literal on the trancode construction screen.

1809-00-W WARNING - TC CONSTRUCTED BUT *TC NOT SPECIFIED FOR TRANCODE FLD

Field names or default literals were supplied on the trancode construction screen, but trancode construction has not been activated.

Resolution: Specify *TC as the optional trancode field name on the screen generation parameters screen.

**1810-00-W WARNING - PFKEYS DEFINED BUT *PF NOT SPECIFIED FOR TRANCODE
FLD**

PFkey values were supplied on the MFS function keys definition screen, but the function keys weren't activated as the trancode.

Resolution: Specify *PF as the optional trancode field name on the screen generation parameters screen.

1811-00-W OPER LOGICAL PAGING NOT SUPPORTED ON PC

Operator logical paging is not supported on the PC.

Resolution: On the generation parameters screen, specify PC=NO.

**3800-00-C CONDITION - ISPLINK FOR VCOPY FAILED, CAPS ON ASSUMED, COND
CODE: *condition code***

APS call to ISPF ISPLINK service failed; the CAPS value may be lost.

Resolution: Contact your APS Administrator and give the condition code.

**3801-00-C CONDITION-ISPEXEC/VPUT FAILED, CAPS VALUE MAY BE LOST, CCODE:
*condition-code***

APS call to ISPF VPUT service failed; the CAPS value may be lost.

Resolution: Contact your APS Administrator and give the condition code.

**3802-00-C CONDITION-ISPLINK/VDEFINE FAILED, SCRCAPS NOT ALLOCATED,
CCODE: *condition-code***

APS call to ISPF VDEFINE service failed; the CAPS value may be lost.

Resolution: Contact your APS Administrator and give them the conditional code.

3803-00-C CONDITIONAL-ISPLINK/VDELETE FAILED, CCODE: *condition-code*

APS call to ISPF VDELETE service failed.

Resolution: Contact your APS Administrator with the condition code.

3804-00-C CONDITIONAL-"ALL" OPTION NOT VALID ON AUTO EDIT SCRIN-IGNORED

'UC' command should be entered by itself. 'ALL' was ignored.

Resolution: Continue.

5401-00-E FORMAT ON GROUP LEVEL IS NOT ALLOWED

Format is entered next to a group level. This is illegal in COBOL.

Resolution: Remove format from group level. Check layout.

5402-00-E DATA NAME STARTS WITH BAD CHAR OR LEVEL NUM

Data name does not start with letter, valid number or FMP symbol.

Resolution: Change data name so it is valid. Then make change whenever it is used in the program.

5406-00-E NO REC, WS, LK, CA KEYWORD FOUND IN DATA STRUCT

All data structures must have a starting keyword.

Resolution: Enter keyword (REC) on first line.

5407-00-E MISSING DATA-NAME ON 1ST LINE OF DATA STRUCT

In addition to the first line having a keyword, it must have a valid data name associated with it to determine if the following data names are group or elementary items.

Resolution: Enter or check first line for valid data.

5408-00-E TOO MANY DATANAME INDENTATIONS

Indentation of data names causes data names to extend past column 72.

Resolution: Restructure record layout.

5409-00-E REDEFINES OF TABLE ELEMENT NOT SUPPORTED

The Program Painter will not support the redefines of a group item by an elementary item.

Resolution: Be sure that what is being redefined is at the same level as what is redefining it.

5410-00-E COPY ONLY ALLOWED WITH 01 TYPE KEYWORD

The COPY verb can only be used with an 01 keyword for data structures.

Resolution: Use COPY verb with 01 keyword only.

5411-00-E MULTIPLE NTRY OR ENTR KEYWORDS ARE INVALID

More than one keyword is used to indicate the start of the Procedure Division.

Resolution: Remove the unnecessary keywords.

5412-00-E INVALID OPTION ENTRY

The OPT or OPTN keyword is used and an invalid option was entered in the statement field.

Resolution: Check spelling (valid options are DESIGNER, PROGRAMMER, PROG, and PROGRAM.)

5413-00-E MISSING OPTION ENTRY

If the OPT or OPTN keyword is used, then there must be a valid statement associated with it.

Resolution: Valid entries are DESIGNER, PROGRAMMER, PROG or PROGRAM.

5414-00-E ENTR/NTRY AND PROC KEYWORDS CANNOT BE MIXED

The PROC keyword is used for batch programs; the ENTR/NTRY keyword is used for online programs.

Resolution: Determine what type program it is and use the appropriate keyword.

5415-00-E MULTIPLE PROC KEYWORDS ARE INVALID

The PROC keyword indicates the Procedure Division of a batch program.

Resolution: Only one PROC keyword is needed per program.

5416-00-E NO NTRY, ENTR, OR PROC KEYWORD SEEN

No keyword in program to indicate the start of the Procedure Division.

Resolution: If program is batch, enter PROC and if online, enter ENTR or NTRY.

5417-00-E ERROR READING DATA STRUCTURE

Data structure is unable to be picked up by program.

Resolution: Check spelling of data structure. See if data is in data structure.

5418-00-E ERROR IN NUMBER TRANSLATION (E.G. TOO BIG)

Translation exceeds column 72.

Resolution: Evaluate line.

5419-00-E ERROR IN TRANSLATION (E.G. PHRASE TOO BIG)

Data in format field exceeds column 72.

Resolution: Check line to see if it can be shortened.

5422-00-E NO MATCH FOR QUOTE OR APOSTROPHE

A macro call is used with arguments that have incorrect syntax.

Resolution: Check syntax. Trailing quote could be missing.

5423-00-E MACRO STARTS TOO FAR TO RIGHT TO FIT ON LINE

Macro call exceeds column 72.

Resolution: An alternative would be to do a PERFORM with the macro call in the new paragraph.

5424-00-E LINE CAN START ONLY WITH: \$ % & / . ALPHA

Line must have valid COBOL characters or FMP symbols.

Resolution: Key in correct character or FMP symbol.

5425-00-E NO ROOM FOR A CLOSING PERIOD IN THIS LINE

Line in program is too long for period to be added during conversion.

Resolution: Eliminate any unnecessary spaces or make the content of the line shorter.

5426-00-E MOCK KYWD MUST BE PRECEDED BY A RED KEYWORD

MOCK keyword cannot be preceded by any keyword except RED.

Resolution: Move the MOCK keyword directly below the RED keyword. Insert the RED keyword and appropriate statements immediately preceding the MOCK keyword.

5427-00-E BLANK DATA STRUCTURE NAME IN APPL DEFINITION

Data structure assigned to program is empty.

Resolution: Check spelling of data structure assigned to program or enter data in data structure.

5428-00-E ONLY COBOL OR S-COBOL CAN FOLLOW ENTER VERB

An "ENTER" verb was encountered that was not followed by "COBOL" or "S-COBOL".

Resolution: Make sure "ENTER" is followed by "COBOL" or "S-COBOL".

5431-00-E DECL/DPAR UNSUPPORTED FOR TARGET ENVIRONMENT USE OF DECLARATIVES IS NOT SUPPORTED FOR TARGET ENVIRONMENT

A declaratives section has been indicated by the DPAR keyword for non-batch ISPF or IMS data communication program or a CICS program.

Resolution: Make sure the program is defined as batch (*BATCH) ISPF or IMS or that the program's application data communication switch is set to MVS.

5432-00-E PARA KEYWORD MUST BE FOLLOWED BY PARAGRAPH SECTION NAME

PARA keyword used without a paragraph or section name specified in the Program Painter statement field.

Resolution: PARA keyword must be followed by a COBOL paragraph or section name.

5433-00-E LITERAL EXCEEDS 120 CHARACTERS

Continuation of literal exceeds 120 characters. Literal is too long.

Resolution: Shorten literal to 120 characters or fewer.

5435-00-E ABOVE KEYWORD MUST BE FOLLOWED BY THE ENTITY NAME TO BE ACCESSED

Entity name missing after keyword.

Resolution: Enter an entity name in the statement field next to the keyword.

5436-00-E THE ABOVE KEYWORD IS INVALID

Keyword is invalid.

Resolution: Check the keyword and correct it.

5441-00-E REDEFINES INVALID ON STARTING LINE

The REDEFINES clause has been used on the first element of the data structure block.

Resolution: Rename the REDEFINES clause or add a data element above this line.

5443-00-E INVALID SCOBOL LITERAL CONTINUATION

A single ampersand (&) has been coded in the Program Painter source to concatenate literals.

Resolution: Recompile all programs using the USERMACS members especially APSSRC(APGMGEN).

5800-00-E ERROR-LITERAL CONTAINS ILLEGAL CHARACTERS - LINE *line-number*

The literal contains quotes.

Resolution: Remove the quotes from the literal.

5801-00-E ERROR - COMMAND NOT RECOGNIZED

Command entered on the command line is unrecognized.

Resolution: Check spelling, reenter command.

5802-00-E ERROR - *PFKEY MAY ONLY BE SPECIFIED ONCE PER TRANCODE

The transaction code cannot be built using repeated names.

Resolution: Remove extra occurrences of PFKEY.

5803-00-E ERROR - FLD NAME MAY NOT BE USED TWICE IN TRANCODE - LINE *line-number*

Cannot construct trancode using a field more than once.

Resolution: Remove the extra occurrences of the field name.

5804-00-E ERROR - FIELD IS PART OF A REPEATED BLOCK - LINE

Can't construct trancode using a field that is part of a repeated block.

Resolution: Build trancode with field not of a repeated block.

5805-00-E ERROR - FIELD *TC SPECIFIED FOR TC IS PART OF A REPEATED BLOCK

Can't construct trancode using a field that is part of a repeated block.

Resolution: Build trancode with field not of a repeated block.

5806-00-E ERROR - *TC SPECIFIED FOR TRANCODE BUT NOT CONSTRUCTED

*TC was supplied as the optional trancode field name, but no field names or default literals were supplied on the trancode construction screen.

Resolution: Supply at least one I/O field or default literal on the trancode construction screen.

5807-00-E ERROR - *PFKEY SPECIFIED FOR TRANCODE BUT NOT DEFINED

*PFKEY was supplied for the optional trancode field but no values have been assigned on the MFS FUNCTION KEYS screen.

Resolution: Supply a transaction code value on the MFS FUNCTION KEYS screen.

5808-00-E ERROR - FIELD NAME SPECIFIED FOR TRANCODE IS NOT DEFINED

The field name supplied for the optional trancode hasn't been associated with an I/O field on the screen.

Resolution: Define an I/O field and assign it the correct field or check for a misspelling of the PFKEY name.

5809-00-E ERROR - ROW SPECIFIED FOR SYMSG NOT NUMERIC OR OUT OF RANGE

Line number specified is less than 1 or greater than screen depth.

Resolution: Reenter valid line number.

5810-00-E ERROR - INVALID CHARACTERS CONTAINED IN FIELD

An invalid character was found that was not alphabetic, numeric, or '#', '\$', or '@'.

Resolution: Remove invalid characters.

5811-00-E ERROR - DIF-DOF/MID/MOD NAMES MUST BE UNIQUE

The input and output maps can't be distinguished from each other.

Resolution: Rename one of the maps.

5812-00-E ERROR - SEGMENT EXIT *field-name* NOT NUMERIC OR OUT OF RANGE

The mid segment exit number or vector is not numeric or out of range.

Resolution: Enter numeric value for both and check range.

5813-00-E ERROR - BOTH NBR AND VECTOR ARE REQUIRED FOR SEGMENT EXITS

The mid segment exit number and vector are not compatible.

Resolution: Enter a numeric value for both number and vector.

5814-00-E ERROR - VALUE SPECIFIED FOR MOD FILL CHARACTER IS INVALID

Fill character can only be null.

Resolution: Enter 'NULL' in field.

5815-00-E ERROR - INTENSITY MAY ONLY BE BRIGHT OR NORMAL FOR TEXT

A text field must be displayed.

Resolution: Change intensity attribute to bright or normal.

5816-00-E ERROR - INVALID VALUE SPECIFIED FOR COLOR

Abbreviation entered for color selection is invalid.

Resolution: Reenter color selection with a valid abbreviation.

5817-00-E ERROR - ONLY ONE EXTENDED ATTR MAY BE USED: BLINK/RVIDEO/ULINE

More than one extended attribute has been assigned to the field.

Resolution: Set additional extended attributes to FALSE.

5818-00-E ERROR - NUMERIC RANGE SPECIFIED IS INVALID

Ranges specified exceed screen size or first range exceeds second range.

Resolution: Check screen size and ranges, and reenter ranges.

5819-00-E ERROR - LENGTH SPECIFIED FOR SYSMMSG NOT NUMERIC OR OUT OF RANGE

Length specified for SYSMMSG not numeric or exceeds screen width.

Resolution: Check screen width and reenter length.

7400-00-E INVALID KEYWORD IN INDICATED LINE

Keyword entered is not recognized by the Painter system.

Resolution: Check for spelling error. Check documentation for list of keywords.

7401-00-E 77 LEVEL MUST BE CODED IN MARGIN A

77 level must be entered in Col 8.

Resolution: Shift the 77 to start in Col 8.

7402-00-E DATA NAME MUST START WITH ALPHA OR & OR <

In the Painter system, data names must start with an alphabetic character, & or < .

Resolution: Change the first character of data name.

7403-00-E LEVEL WILL BE TOO HIGH -- HIGHEST LEVEL IS 49

A level higher than 49 will be generated.

Resolution: Either change the startup level or reduce the number of indentations.

7404-00-E INVALID SYNTAX AFTER DATA NAME

Syntax that does not follow COBOL or Data Structure Painter rules was entered.

Resolution: Check the APS Reference for valid syntax and correct.

7405-00-E 88 LEVEL ITEMS CANNOT START IN COL 1

88 levels must be subordinate to a group level.

Resolution: Enter a group level and indent 88 level.

7406-00-E ONLY DATA NAME CAN FOLLOW 88 OR 66 LEVELS

If an 88 or 66 level is entered, then a valid data name must follow.

Resolution: Check code.

7407-00-E DATA NAME FOR STRUCTURE MUST BE ON LINE 1

All data structures must have a valid keyword and data name on line 1.

Resolution: Enter valid data name on line one.

7408-00-E ALPHABETIC FORMAT: A, AA, AAA, AN, A(N), A(&SYM)

If an A is the first character in the format field, then the code must be in one of the valid formats.

Resolution: Reenter format.

7409-00-E INVALID COMPUTATIONAL (C) FORMAT SPEC

C is invalid as used.

Resolution: Check documentation for valid formats.

7410-00-E FORMAT FOR BINARY FULLWORD IS F OR FULL

If an F is the first character in the format field, then it is to indicate the binary fullword. If the edit check finds any character other than the word FULL, then it is invalid.

Resolution: If format starts with 'F' and is not 'F' or 'FULL', correct it.

7411-00-E FORMAT FOR BINARY HALFWORD IS H OR HALF

If an H is the first character in the format field, then it will indicate the Halfword format.

Resolution: Enter only H or HALF. Anything else is invalid.

7412-00-E NUMERIC FORMAT: N,N2,N3,N4...NK,N(K),N&SYM

If an N is the first character in the format field, then the code must be in one of the valid formats.

Resolution: Reenter format.

7413-00-E REDEFINES FORMAT IS R, RED, REDEF, REDEFINES

Invalid format for REDEFINES was entered.

Resolution: Check spelling.

7414-00-E SIGNED NUMERIC FORMAT: S, SN, S&SYM

Signed symbol is invalid as used.

Resolution: Reenter format.

7415-00-E ALPHANUMERIC FORMAT: X, XX, XXX, XK, X(K), X(&SYM)

Alphanumeric symbol is invalid as used.

Resolution: Reenter format.

7416-00-E NUMERIC FORMAT: 9, 92, 93, 94...9K, 9(K), 9&SYM

Numeric format is invalid as used.

Resolution: Reenter format.

7417-00-E TO INDICATE PICTURE, MUST USE PIC

If the P is the first character in the format field, then the Picture clause is expected.

Resolution: Check spelling. Reenter code.

7418-00-E OCCURS SPECIFICATION NOT ALLOWED IN FORMAT

Occurs symbol is entered in the wrong field.

Resolution: Enter Occurs symbol in the data name field.

7419-00-E ONLY R, V, OR I, CAN CONTINUE FMT AFTER SPACE

Invalid character follows space in format field.

Resolution: See documentation for proper format.

7420-00-E NO OTHER FORMAT SPECS ALLOWED WITH I (INDEX)

No other format is allowed after usage of index.

Resolution: Remove code after I.

7421-00-E FORMAT AFTER REDEFINES (R) IS UNRECOGNIZED

Code entered after R is not valid.

Resolution: Reenter code or contact your APS Administrator.

7422-00-E INVALID CHARACTER FOLLOWS SPACE IN FORMAT

Only V or R can continue a format.

Resolution: See documentation.

7423-00-E VALUE CAN BE FIRST FORMAT ONLY ON 88 LEVELS

A value can be assigned first in a format only if it is an 88 level.

Resolution: See documentation.

7424-00-E INVALID FORMAT. RECHECK FORMAT SPECIFICATION

Format that is entered is not recognizable.

Resolution: Check and reenter format.

7425-00-E CANNOT SPECIFY FORMAT FOR A GROUP LEVEL ITEM

Picture clause on a group level is illegal.

Resolution: Remove Picture clause from group level.

7426-00-E NO DATA NAME ASSOCIATED WITH FORMAT

If data is entered in the format field, then it has to be a description of a field.

Resolution: Enter a data name or '...' if data name is on previous line.

7428-00-E NO FORMAT SPEC ALLOWED ON 66 LEVEL RENAMES

Invalid format on 66 level.

Resolution: Remove invalid code.

7429-00-E V (VALUE) IS ONLY VALID FORMAT FOR 88 LEVELS

If 88 levels are used, VALUE is the only format allowed.

Resolution: Remove invalid code.

7430-00-E SELECTED ENTITY IS BEING EDITED BY ANOTHER

Entity entered is in use.

Resolution: Try again later.

7431-00-E NO SPACES ALLOWED IN FMP VARIABLE NAME

Variable name has space(s) embedded in it.

Resolution: Remove space(s) from FMP variable name.

7432-00-E COMMENTS START IN DATA NAME FIELD - NO KEYWORD

Comment line was specified in the keyword field. Begin comment line in the data name field.

Resolution: Enter % *, /*, or *.

7480-00-E VALID FORMATS BEGINNING WITH "I" ARE "I" OR INDEXED

A format beginning with 'I' must either be only 'I' or 'INDEXED'.

Resolution: Check format and correct.

7481-00-E VALID FORMATS BEGINNING WITH "R" ARE "R" OR REDEFINES

A format beginning with 'R' must either be only 'R' or 'REDEFINES'.

Resolution: Check the format and correct it.

7482-00-E INVALID LEVEL NUMBER--LEVELS ARE 01-49, 66, 77, 88

A level number other than 01 through 49, 66, 77, or 88 was entered.

Resolution: Check the level number and correct it.

7483-00-E PICTURE CLAUSE INCOMPLETE--NO DATA FIELD TYPE SPECIFIED

A 'PIC' clause without anything following it was entered.

Resolution: Enter a valid PIC clause.

7484-00-E OCCURS CLAUSE IS DESCRIBED WITH INVALID OCCURANCE OF TABLE

An invalid statement following the OCCURS clause was entered.

Resolution: Check the clause and correct it.

7485-00-E REDEFINES CLAUSE MUST PRECEDE OCCURS CLAUSE

The OCCURS specification must be entered before the REDEFINES clause.

Resolution: Check and correct.

7486-00-E NOTE: A TABLE MAY NOT BE REDEFINED

A data element that redefines a table (one with occurs clause) is invalid.

Resolution: Remove the redefines or the occurs clause preceding it.

7487-00-E TOO MANY INDENTATIONS TO CONTINUE

Indentation level is more than 20 deep.

Resolution: Restructure or break up the data group to not have more than 20 levels.

7488-00-E ??? EGCS FORMAT: G,GG, GGG, GK, G(K), G(&SYM)

A DBCS user has specified the PIC G clause incorrectly.

Resolution: Specify the EGCS format to conform to the syntax given above, where K indicates the number, and &SYM is a variable.

7489-00-E ??? EGCS VALUES ARE NOT SPECIFIED FOR EGCS DATA ITEM

The EGCS data item declaration is not supplied.

Resolution: Enter a valid PIC G clause in the EGCS format.

7490-00-E ??? EGCS VALUE TOO LONG

The EGCS literal exceeds the 54 character limit on EGCS literals.

Resolution: Shorten the length of the literal to less than 54.

7491-00-E R, IXB, ODO and OCCURS INVALID ON SAME LINE - USE CONTINUATION LINE

DEPENDING ON, REDEFINES, and INDEXED BY clauses cannot be coded on the same line with an OCCURS format.

Resolution: Move the DEPENDING ON, REDEFINES or INDEXED BY clause to a continuation line (such as, one that begins with "..."), following the line on which the OCCURS format is coded.

APS-RWT

Category: Report Writer module.

1001-00-F UNPRIVILEGED RWT (RED) USE

The privilege card does not allow access to the Report Mock-Up Painter. Execution will halt.

Resolution: Use COBOL or another available report writer. Contact your APS Administrator for Report Writer privileges.

1002-00-F SOURCE/SUM/VALUE BUFFER OVERFLOW

You exceeded the limit (300) of SOURCE, SUM, and VALUE entries in one source program.

Resolution: Reduce the number of SOURCE, SUM, and VALUE entries in the program. You might compile some report descriptions separately.

1003-00-F MOCK-UP BUFFER OVERFLOW

You exceeded the limit of 200 lines in the left half of the mock-up.

Resolution: If the mock-up requires exceeding the line limit to produce the report, do not incorporate blank lines in the mock-up. Use the Line statement to position the report. Verify that you coded the mock-up properly.

1004-00-F REPORT LIMIT REACHED FOR FD

The number of reports specified within a Report clause exceeds 15.

Resolution: Limit the number of reports per FD to 15. Add additional FD'S if necessary. Contact your APS Administrator if you need more assistance.

1005-00-F INVALID KEYWORD OR PERIOD MISSING IN RED HDR

APS detected a clause beginning with a keyword other than CONTROL, CODE, PAGE, FIRST, LAST, HEADING, FOOTING, or WRITE in the Report Description statement or the required period at the end of the Report description statement is missing.

Resolution: Verify spelling of keywords and/or insert the required period.

1006-00-F CONTROL ITEM MAXIMUM EXCEEDED

You exceeded the maximum number of control items (28) allowed for the report.

Resolution: Decrease the number of controls.

1007-01-F, 02-F REPORT DATA NAME MISSING

You did not follow a Terminate or Initiate statement with a data name.

Resolution: Enter data name.

1008-00-F INVALID INITIATE STATEMENT

You followed an Initiate statement with an improper report name.

Resolution: Correct report name.

1009-00-F GENERATE DATA NAME MISSING

You did not follow a Generate statement with a data name.

Resolution: Enter data name.

1010-00-F IMPROPER GENERATE STATEMENT

You followed a Generate statement with an improper report name or data name.

Resolution: Verify report/data name. If the report name is correct, look for an illegal or missing 01 type clause or Mock-up statement.

1011-00-F INVALID TERMINATE STATEMENT

You followed a Terminate statement with an improper report name.

Resolution: Enter correct report name.

1012-00-F DECLARATIVES STATEMENT MISSING

APS did not find a Declaratives statement before encountering an End statement.

Resolution: Enter missing Declaratives statement.

1013-00-F END STATEMENT MISSING FOR DECLARATIVES

APS did not find an End Declaratives statement for the Declaratives section.

Resolution: Enter missing End Declaratives statement.

1014-00-F UNPRIVILEGED AUTO USE

The privilege card does not allow access to the report writer module. Execution will halt.

Resolution: Arrange with the APS Administrator for a new privilege card.

1016-00-F PIC NOT GIVEN FOR DETAIL ITEM

APS encountered a detail item that does not have a Picture clause associated with it.

Resolution: Code the Picture clause.

1017-00-F DETAIL SYMBOL STORAGE FAILURE; CALL APS REP

A problem occurred during the storage of detail items. Execution will halt.

Resolution: Contact the APS Administrator.

1019-00-F PIC NOT GIVEN FOR IDENTIFIER ITEM

APS encountered an identifier item that does not have a Picture clause associated with it.

Resolution: Code the Picture clause.

1020-00-F NO DETAIL LINE WITH FORMAT EXTRACT CLAUSE

There is no detail line associated with the Format Extract clause.

Resolution: Code required detail line.

1021-00-F REPORT DESC KEYWORD MISSING OR IN WRONG COL

The Report Description keyword (RED or AUTO) is missing or coded in the wrong column.

Resolution: Correct the code to include the Report Description keyword.

1022-00-F AUTO KEYWORD MISSING

The Auto (Report Description) statement is not present in the program.

Resolution: Correct the code to include the Auto statement.

1023-00-F EXPECTING AUTO REPORT NAME; REACHED EOF

APS encountered an Auto clause that you did not follow with the mandatory report name.

Resolution: Add the report name to the Auto statement.

1024-00-F CONTROL VARIABLE REQUIRED WITH CH/CF CLAUSE

A valid data name must follow the CH (Control Heading) or CF (Control Footing) clauses.

Resolution: Enter valid data name.

1025-00-F NO PLACEMENT PARAMETER SPECIFIED FOR IDENT

You did not give a parameter that tells where to print the specified identifier.

Resolution: Code a placement parameter.

1026-00-F "COVER" MUST BE FOLLOWED BY COLUMN PLACEMENT

You must follow the Cover Placement parameter with integer(s). These indicate column placement for centering of the specified literals or identifiers.

Resolution: Enter correct integer(s) to indicate column placement.

1027-00-F ONLY NUMERIC LITERALS PERMITTED FOR DETAIL

You can use numeric literals only with detail.

Resolution: Remove non-numeric literals from code.

1028-00-F NO PLACEMENT PARAMETER SPECIFIED FOR LITERAL

You did not give a parameter that tells where to print the specified literal.

Resolution: Code a Placement parameter.

1029-00-F ILLEGAL LITERAL

The number of characters where a literal should be is equal to zero. Therefore, it is invalid.

Resolution: Code legal literal.

1030-00-F /PAGE/ MUST BE FIRST ENTRY FOR GROUP

You can only use /PAGE/ once for a group, and it must precede all other parameters.

Resolution: Correct code.

1031-00-F PLACEMENT PARM MUST BE FOLLOWED BY ID/LIT

APS encountered a Placement parameter that you did not follow with an identifier or literal.

Resolution: Enter identifier or literal.

1032-00-F NUM ENCLOSED BY / PERMITTED IN DETAIL ONLY

/INTEGER/ indicates a relative number of lines to advance before presenting the first line of the group if used with detail. It is not permitted elsewhere.

Resolution: Code /INTEGER/ in detail group only.

1033-00-E PLACEMENT PARAMETER INVALID FOR DETAIL GROUP

You can write Placement parameters as keywords only in a non-detail Group Description clause.

Resolution: Correct code to only use Placement parameters in non-detail Group Description clauses.

1034-00-F G/C INDICATE PERMITTED FOR DETAIL ONLY

You can only use the Group Indicate and Change Indicate clauses with detail lines.

Resolution: Use proper Indicate with detail line.

1035-00-F NO IDENTIFIER GIVEN FOR G/C INDICATE

Group and Change Indicate both need an identifier following them which APS uses to determine when to print an item.

Resolution: Enter needed identifier.

1036-00-F PIC PERMITTED FOR DETAIL ONLY

APS only allows Picture clauses for detail items.

Resolution: Correct code.

1037-00-F NO IDENTIFIER GIVEN FOR PIC

Identifier is missing before the specified Picture clause.

Resolution: Enter needed identifier.

1038-00-F NO IDENTIFIER GIVEN FOR SUBSCRIPT/INDEX

APS encountered a subscript or index that you did not prefix with an identifier. APS halts execution.

Resolution: Place the correct identifier before the subscript/index.

1039-00-F ITERATIVE SUBSCRIPT PERMITTED IN DETAIL ONLY

You can only use iterative subscripts for detail lines.

Resolution: Correct code.

1040-00-F ONLY 3 LEVELS OF SUB/INDEX PERMITTED

You used more than 3 levels of subscripts or indices where APS only permits 3 levels.

Resolution: Correct the code to use only 3 levels of subscripts or indices.

1041-00-F ILLEGAL ITERATIVE SUBSCRIPT

In Auto processing, APS found an iterative expression in the format # INTEGER-1/ INTEGER-2 in which INTEGER-2 is less than or equal to INTEGER-1.

Resolution: Make INTEGER-2 greater than INTEGER-1 or delete INTEGER-2 if INTEGER-1 specifies the top limit of the increment range.

1042-00-F ILLEGAL SUBSCRIPT/INDEX

The subscript or index as coded is incorrect.

Resolution: Correct subscript index.

1043-00-F "COVER" PARAMETER NOT VALID FOR DETAIL

You can only use the Cover parameter with page headings, heading and footing groups. You may not use it with detail clauses.

Resolution: Remove Cover parameter from detail clause.

1045-00-F INCORRECT SEQUENCE OF PARAMETERS IN DETAIL

The parameters used during Auto processing of the Detail group were syntactically incorrect.

Resolution: Correct syntax of Detail group. Refer to manual for correct format of syntax requirements.

1046-00-F AT LEAST 1 ID MUST BE GIVEN IN DETAIL

There must be at least one identifier in each detail line.

Resolution: Correct code.

1047-00-F NUMERIC > 4 DIGITS

The integer specified for a Page Limit, First Detail, Last Detail, Heading, Footing, Subscript or Cover parameter is greater than the maximum allowable 4 digits.

Resolution: Change integer to allowable number of digits.

1048-00-F EXPECTING NUMERIC; FOUND NONNUMERIC

During auto processing of the Page Limit, Heading, Detail or Footing clauses, APS expected an integer and did not find it.

Resolution: Correct data field to be numeric integer.

1049-00-F NUMERIC MUST BE GREATER THAN 0

APS encountered a negative number where it allows only a positive number.

Resolution: Code a positive number.

1050-00-F PH-ATOM STORAGE PROBLEM; CALL APS REP

APS encountered a problem in Page Heading storage. Execution will halt.

Resolution: Contact the APS Administrator.

1051-00-F DETAIL GROUP MUST BE GIVEN

A Detail group must follow a Detail clause.

Resolution: Code a Detail group after the Detail clause.

1052-00-F DUPLICATE REPORT GROUP

During Auto processing of multiple reports, APS found a duplicate Report group.

Resolution: Correct Report group names making sure that they are unique in each report.

1053-00-F CH/CF CONTROL VAR NOT FOUND IN CTRL CLAUSE

You must use a control variable with a control heading and control footing in a Control clause. APS did not encounter such a variable.

Resolution: Enter Control variable.

1054-00-F MOCK-UP MUST IMMEDIATELY FOLLOW RED ENTRY

APS found something other than a mock-up delimiter following the Report Description statement.

Resolution: Correct the code. Possibly you coded two periods coded in the Report Description statement. APS allows only one.

1055-00-F MOCK-UP NOT FOUND

APS did not find a mock-up for a Report Description entry.

Resolution: Include mock-up.

1056-00-F IMPROPER RWT KEYWORD

APS found a word in AREA-A in the report section which RWT does not recognize.

Resolution: Correct code.

1057-00-F DATA NAME MISSING ON TYPE IS CH/CF

You did not specify a control identifier (data name) on a Type clause for a Control Heading (CH) or Control Footing (CF) group.

Resolution: Supply the correct identifier.

1058-00-F ANIM/DEBUG OVERFLOW

You exceeded the buffer limit (25) for consecutive debugger lines. A block of comments with more than 25 lines is probably the cause.

Resolution: Reduce the number of consecutive comment lines, or set the DEBUG option on GENERATOR OPTIONS to NO.

2001-00-E, 02-E MOCK-UP AND MOCK-UP STATEMENT INCOMPATIBLE

APS found a mock-up statement when using group mock-ups. You should use mock-up statements only with report mock-ups.

Resolution: Delete mock-up statement.

2002-00-E MOCK-UP STATEMENT MUST BE FIRST

APS encountered a mock-up statement out of sequence in a Group Description entry.

Resolution: A Mock-up statement should occur next after the 01 type statement.

2003-00-E LINE STATEMENT MUST BE AFTER MOCK-UP

APS encountered a line statement out of sequence in a group description entry.

Resolution: A Line statement should occur next in sequence after the Mock-up statement; or, if there is not a Mock-up statement (because you used a group mock-up), after the 01 type statement.

2004-00-E INVALID LINE NUMBER

Characters following LINE IS or LINE NUMBER IS in a Line statement are not numeric.

Resolution: Correct the code.

2005-00-E INVALID SOURCE, SUM OR VALUE STATEMENT

You did not code an item description entry (Source, Sum, or Value statement) correctly.

Resolution: Correct the code.

2006-00-E ANTIFREEZE INCOMPATIBLE WITH NOFREEZE

You coded ANTIFREEZE in the report section with an APS parameter setting of NOFREEZE (the default).

Resolution: Change APS parameter to include FREEZE.

2007-00-E SSV-BFR OVERFLOW ON #M/N EXPANSION

APS found an iterative expression, in the format # INTEGER-1 / INTEGER-2, in which INTEGER-1 is not less than INTEGER-2.

Resolution: Correct code.

2008-00-E UNMATCHED SUM/SOURCE/VALUE CLAUSE

You coded a Sum, Source, or Value clause for which there is no matching picture in the mock-up. Possibly you did not delete a Source clause that you no longer reference in the mock-up. Another possibility is that the Mock-up line statements do not accurately match the lines specified for each group in the mock-up.

Resolution: Correct the present picture. Add a new one for the equivalent Source clause or delete the no longer needed Source clause. Also check mock-up and Mock-up statement.

2009-00-E PIC MISSING FOR REFERENCE

A Reference statement contains no Picture clause.

Resolution: Code a PIC clause for the Reference statement.

2010-00-E TOO MANY LINES IN RIGHT HALF OF MOCK-UP

The right half of the mock-up has more lines than the left.

Resolution: Correct the code so that right and left halves of the mock-up match. A possible cause is a delimiter (a non-blank character, non-alphabetic and non-numeric) in Column 7, continuing for 4 or more consecutive bytes.

2011-00-E MOCK-UP CONTINUATION MISSING

APS did not find the right half of the report mock-up following the left half.

Resolution: Code mock-up continuation.

2012-00-E RIGHT HALF MOCK-UP OVERFLOW

You exceeded the limit of 200 lines in the right half of the mock-up.

Resolution: Code mock-up to not exceed the limit.

2013-00-E IMPROPER BEGINNING MOCK-UP REFERENCE

A mock-up statement specifies a line number outside the range of the report mock-up as its beginning line or APS found a Mock-up statement when using group mock-ups.

Resolution: Make the line number greater than 0 or check the Report mock-up for actual number of lines used. You should use mock-up statements with Report mock-ups. Delete Mock-up statement.

2014-00-E IMPROPER ENDING MOCK-UP REFERENCE

A Mock-up statement using the INTEGER-1 through INTEGER-2 format, specifies a line number outside the range of the Report mock-up as its ending line (INTEGER-2).

Resolution: Make the line number greater than 0 or check the Report mock-up for actual number used.

2015-00-E OBSOLETE SYNTAX; TEMPORARILY EXCEPTED

You specified a data name following a left parenthesis in a Source clause.

Resolution: Remove the parenthesis.

2016-0-E REMOVE LEFT PAREN (OBSOLETE SYNTAX)

You specified a data name following a left parenthesis in a Source clause without a closing right parenthesis.

Resolution: Remove the left parenthesis or verify need for right parenthesis.

2017-00-E PICTURE MISSING

You did not follow the keyword designating a Picture (or PIC) in a Sum/Source/Value statement by a COBOL Picture character. If the optional keyword IS has been used, no Picture character follows it.

Resolution: Remove the Picture clause or supply a correct picture following the Picture keyword. Note that APS does not require a Picture clause but a Picture clause is very helpful in catching incompatibilities between the Mock-up and the Sum/Source/Value statements early in the debugging process (at compile time, rather than execution time).

2018-00-E IMPROPER PICTURE; NO CLOSING PARENS

In a PIC or Picture clause of a Sum/Source/Value or Reference clause, APS encountered an opening parenthesis following a valid Picture character (X 9 Z \$, 0 . + - C R D * V E), and APS found a numeric field following the opening parenthesis. APS did not find a closing parenthesis after that.

Resolution: Correct the code. Note that A is not among the valid Picture characters.

2019-00-E INVALID CHARACTER FOR PICTURE CLAUSE

In a PIC or Picture clause of a Sum/Source/Value or Reference clause, APS encountered a character other than X 9 Z \$, 0 . + - C R D * V E ().

Resolution: Correct the code.

2020-00-E MISSING QUOTED OVERPRINT TEXT

APS encountered an Overprint statement that does not include a character string enclosed in quotes.

Resolution: Correct the statement.

2021-00-E IMPROPER FILE NAME

You followed a File Description entry (FD) by blanks or an improper file name.

Resolution: Correct code.

2022-00-E IMPROPER BLOCK CONTAINS CLAUSE

You improperly coded a Block Contains clause with the optional INTEGER-1 to INTEGER-2 format. INTEGER-2 is not an unsigned integer.

Resolution: Correct code.

2023-00-E, 02-E IMPROPER BLOCK OPTIONS CLAUSE

You coded a Block Contains clause in an improper format. You coded the clause with something other than characters or records or you did not specify an unsigned integer.

Resolution: Correct code.

2024-00-E IMPROPER RECORD CONTAINS CLAUSE

You improperly coded a Record Contains clause with the optional INTEGER-1 to INTEGER-2 format. INTEGER-2 is not an unsigned integer.

Resolution: Correct code.

2025-01-E, 02-E IMPROPER RECORD OPTIONS CLAUSE

You coded a Record Contains clause in an improper format. You coded the clause with something other than characters or records or you did not specify an unsigned integer.

Resolution: Correct code.

2026-00-E IMPROPER RECORDING MODE CLAUSE

You coded the Mode clause with an improper mode (i.e., something other than F, V, U, or S).

Resolution: Enter proper mode.

2027-01-E, 02-E IMPROPER LABEL RECORDS CLAUSE

You coded a Label Records clause in an improper format.

Resolution: Correct code.

2028-00-E IMPROPER FILE-ID CLAUSE

You coded a Value Of clause with an improper file ID.

Resolution: Enter correct file ID.

2029-00-E IMPROPER FILE REPORTS CLAUSE

You coded a Report clause in an improper format.

Resolution: Correct format.

2030-00-E IMPROPER DATA RECORDS CLAUSE

You coded a Data Records clause in an improper format.

Resolution: Correct format.

2031-00-E IMPROPER RD NAME

You followed a Report Description entry (RED or RD) with blanks or an improper name.

Resolution: Correct code.

2032-00-E IMPROPER RD STATEMENT

You followed a Code clause with an improper mnemonic name or by blanks.

Resolution: Correct code.

2033-00-E, 02-E IMPROPER CONTROL CLAUSE

You coded a Control clause in an improper format.

Resolution: Correct format.

2034-00-E IMPROPER PAGE LIMIT CLAUSE

You coded a Page Limit clause in an improper format or the clause specifies 0 as the last line where you can print anything.

Resolution: Correct code or page limit.

2035-00-E IMPROPER HEADING CLAUSE

You coded a Heading clause in an improper format or the clause specifies 0 as the first line number of the heading print group.

Resolution: Correct code or Heading clause.

2036-00-E IMPROPER FIRST DETAIL CLAUSE

You coded a First Detail clause in an improper format or the clause specifies 0 as the first line number of the body group.

Resolution: Correct code or First Detail clause.

2037-00-E, 02-E IMPROPER LAST DETAIL CLAUSE

You coded a Last Detail clause in an improper format or the clause specifies 0 as the last line number of the last nonfooting body group.

Resolution: Correct code or Last Detail clause.

2038-00-E IMPROPER FOOTING CLAUSE

You coded a Footing clause in an improper format. The clause specifies 0 as the last line number of the last Control Footing Report group.

Resolution: Correct Footing clause.

2039-00-E IMPROPER TYPE CLAUSE

A Type clause specifies an option other than those allowed (i.e., RH, PH, CH, CF, PF, RF, DE or the fully spelled out equivalents of each of these).

Resolution: Enter correct option.

2040-00 IMPROPER LINE CLAUSE

You coded a Line clause in an improper format or INTEGER-1 is not a positive integer for the LINE NUMBER IS INTEGER-1 format; INTEGER-2 is not a positive integer for the LINE NUMBER plus INTEGER-2 format.

Resolution: Correct format.

2041-00-E IMPROPER NEXT GROUP CLAUSE

You coded a Next Group clause in an improper format or INTEGER-1 is not a positive integer for the NEXT GROUP IS INTEGER-1 format; INTEGER-2 is not a positive integer for the NEXT GROUP IS PLUS INTEGER-2 format.

Resolution: Correct code.

2042-00-E IMPROPER USAGE CLAUSE

You coded a Usage clause in an improper format. You specified a usage other than DISPLAY.

Resolution: Correct format.

2043-00-E IMPROPER RESET CLAUSE

You coded the Reset option of the Sum clause in an improper format.

Resolution: Correct format.

2044-00-E IMPROPER JUSTIFIED CLAUSE

You coded the Justified clause in an improper format. You followed JUSTIFIED (or JUST) with something other than RIGHT or you coded on a clause other than SOURCE or you coded for a data item that is numeric.

Resolution: Correct format.

2045-00-E IMPROPER BLANK WHEN ZERO CLAUSE

You coded the Blank When Zero clause in an improper format.

Resolution: Correct format.

2046-00-E IMPROPER CHANGE INDICATE CLAUSE

You coded the Change Indicate clause in an improper format.

Resolution: Correct format.

2047-00-E IMPROPER GROUP INDICATE CLAUSE

You coded the Group Indicate clause in an improper format.

Resolution: Correct format.

2048-00-E IMPROPER COLUMN CLAUSE

You coded the Column clause in an improper format. You did not specify a positive integer.

Resolution: Correct format.

2049-00-E IMPROPER VALUE CLAUSE

You coded the value label for a Source clause in an improper format. You did not specify an integer, keyword or quoted string.

Resolution: Correct format.

2050-00-E IMPROPER SUM CLAUSE

The Sum clause does not specify a valid data name.

Resolution: Enter correct data name.

2051-00-E IMPROPER SOURCE CLAUSE

The Source clause does not specify a valid data name.

Resolution: Enter correct data name.

2052-00-E IMPROPER UPON CLAUSE

You coded the UPON option of the Sum clause in an improper format.

Resolution: Correct format.

2053-00-E IMPROPER PICTURE TEXT

You coded the Picture phrase with an invalid character string.

Resolution: Correct Picture phrase.

2054-00-E IMPROPER DECLARATIVES STATEMENT

You coded a Use Before Reporting sentence in an improper format.

Resolution: Correct format.

2055-00-E IMPROPER INITIATE STATEMENT

You followed an Initiate statement with a report name for which there was no Report Description entry.

Resolution: Correct Initiate statement.

2056-00-E IMPROPER TERMINATE STATEMENT

You followed a Terminate statement with a report name for which there was no Report Description entry.

Resolution: Correct Terminate statement.

2057-00-E DUPLICATE REPORTS FOUND IN REPORT STRUCTURE

You specified a report name more than once for a Report Description entry.

Resolution: Make each report name unique.

2058-00-E INVALID SUBSCRIPT OR INDEX ENTRY

APS encountered a subscript or index that surpassed the allowable number of subscript or index levels.

Resolution: Reduce the number of subscripts or indices.

2059-01-E

2059-02-E

2059-03-E

2059-04-E PICTURE MISSING FOR *dataname*

The picture clause is missing for the data name specified.

Resolution: Code picture clause for data name.

2060-00-E COLUMN CLAUSE MISSING

A column clause is not present where one is necessary.

Resolution: Add the column clause to the code.

2061-00-E INVALID USE BEFORE REPORTING CLAUSE

A Use Before Reporting sentence specifies a data name which is neither a Heading nor Footing Report group.

Resolution: Correct Use Before Reporting sentence.

2062-00-E NUMBER OF DETAIL GROUPS MAX EXCEEDED

You exceeded the maximum number of detail groups (99).

Resolution: Reduce the number of detail groups.

2063-00-E TYPE CLAUSE DOES NOT MATCH CONTROL CLAUSE

The type coded in the Type clause is not consistent with that in the Control clause.

Resolution: Determine which Type clause is correct and fix the incorrect one. If the Type clause appears correct, the number of control clauses may have exceeded the maximum (28) for the report. Reduce the number of Control clauses.

2064-00-E SOURCE CLAUSE MISSING

A Source clause is not present where one is necessary.

Resolution: Add the Source clause to the code.

2065-00-E SUM CLAUSE MISSING

A Sum clause is not present where one is necessary.

Resolution: Add the Sum clause to the code.

2066-00-E INVALID CONTINUATION,

APS encountered a hyphen (-) in column 7, or APS encountered an ellipsis (...) as the opening word or symbol of a statement.

Resolution: Replace the hyphen in column 7 with a properly placed continuation ellipsis. If an ellipsis is present, check for correct alignment with preceding code. Note that there should not be a blank line between original line of code and continuation line containing the ellipsis.

2067-00-E INVALID CHARACTER IN COL 7,

Column 7 contains a character other than an asterisk (*) or a hyphen (-).

Resolution: Remove the character from column 7. You can reinsert it in column 7 at the COBOL level if you require it for COBOL compilation.

2068-00-E NAME MAY NOT END WITH A HYPHEN

APS encountered a hyphen (-) at the end of the given data name.

Resolution: Correct the code.

2069-00-E NAME LONGER THAN 30 CHARACTERS

The given data name contains more than 30 characters.

Resolution: Correct the code.

2070-00-E INTEGER LONGER THAN 30 CHARACTERS

The given integer contains more than 30 characters.

Resolution: Correct the code.

2071-00-E NUMBER LONGER THAN 30 CHARACTERS

The given number contains more than 30 characters.

Resolution: Correct the code.

2072-00-E PICTURE LONGER THAN 30 CHAR: picture

The given Picture clause contains more than 30 characters.

Resolution: Follow the COBOL rule of a maximum of 30 characters for a Picture clause.

2073-00-E EDITED PICTURE ILLEGAL AS SOURCE

APS encountered a Picture clause for a source statement that has edit characters in it.

Resolution: Correct the Picture clause.

2074-00-E ILLEGAL PICTURE CLAUSE

APS encountered Picture statement that contained a character other than X Z , . 9 A B 0 * + - \$ E (or) (left or right parenthesis).

Resolution: Correct the Picture clause.

2075-00-E LEVEL NUMBER MUST BE FOLLOWED BY SPACE

APS encountered a level number (01, 05, etc.) That you did not follow with a space.

Resolution: Add a space after the level number.

2076-00-E NO LINE NUMBER PROVIDED FOR REPORT FOOTING

You specified a line number for the printing of the Report Footing.

Resolution: Specify a line number on the Footing clause.

2077-00-E GROUP LINE TABLE OVERFLOW

You exceeded the maximum storage capability of group line items (1625) resulting in table overflow.

Resolution: Reduce the number of group line items.

2078-00-E SOURCE ITEM TABLE OVERFLOW

You exceeded the maximum storage capability of 30 source items resulting in table overflow.

Resolution: Reduce the number of source items.

2079-00-E CONTROL FOOTING SPACE LIMITATION

There is not enough room to print the Control Footing where specified.

Resolution: Check the Report Description entry for the footing and correct.

2080-00-E INVALID COMPUTED FOOTING LINE

The Footing line as computed by Auto is less than or equal to zero.

Resolution: Check syntax for Heading, Detail, and Page clauses.

2081-00-E PAGE LIMIT PARAMETERS NOT IN ASCENDING ORDER

The integers given on the Heading, Detail, or Footing clause exceed the Page Limit clause. The integers must be in ascending order.

Resolution: Correct integers used on clauses so they are in ascending order, and not greater than the Page Limit clause.

2082-00-E AUTO STM MUST BE GIVEN PRIOR TO PAGE CLAUSE

APS encountered a Page clause before the Auto statement. The Auto statement must come first.

Resolution: Correct the code so the Auto statement is before the Page clause.

2083-00-E INVALID PAGE LIMIT; 58 ASSUMED

The page limit given was not an integer. APS move the number, 58, to the page limit temporarily for further processing.

Resolution: Correct the page limit.

2084-00-E INVALID PAGE LIMIT CLAUSE

The coded Page Limit clause contains a character other than an integer as the page limit.

Resolution: Correct the Page Limit clause with an integer as the specified limit.

2085-00-E NO VERT SPACING; PG NUM CLAUSE; ASSUME TOP

You did not request vertical spacing in the Page Number clause. APS assumes Top.

Resolution: Correct Page Number clause.

2086-00-E NO HORIZ SPACING; PG NUM CLAUSE; ASSUME RT

You did not request horizontal spacing in the Page Number clause. APS assumes Right.

Resolution: Correct Page Number clause.

2087-00-E INVALID PAGE CLAUSE

A word other than NUMBER(S), HEADING or FOOTING follows the Page clause in the program.

Resolution: Correct code so the Page clause will contain a valid word.

2088-00-E INVALID HEADING CLAUSE; VALUE CALCULATED

The value following the Heading clause is not an integer so APS calculated the value.

Resolution: Follow the Heading clause with a valid integer.

2089-00-E INVALID FOOTING CLAUSE; VALUE CALCULATED

The value following the Footing clause is not an integer so APS calculated the value.

Resolution: Follow the Footing clause with a valid integer.

2090-00-E UNIDENTIFIED FORMAT PARAMETER

APS encountered something other than EXTRACT or BOXED after a format statement.

Resolution: Replace the invalid code with the appropriate correct word.

2091-00-E UNRECOGNIZED GROUP TYPE

APS encountered a group type other than Report Heading or Report Footing. Possibly you followed REPORT with something other than HEADING or FOOTING.

Resolution: You can only follow REPORT with HEADING or FOOTING as proper group type.

2092-00-E CONTROL CLAUSE NOT FOLLOWED BY DATA NAME

In the Control clause, CONTROL IS/ARE is not followed by a data name.

Resolution: Correct the coded clause.

2093-00-E FIRST DETAIL NOT NUMERIC

Something other than a valid line number follows the First Detail clause.

Resolution: Correct the code so a valid line number follows the clause.

2094-00-E FIRST IS A COBOL RESERVED WORD

FIRST is a COBOL reserved word and you must use it as one except when you use it in the First Detail clause.

Resolution: Correct use of FIRST.

2095-00-E LAST DETAIL NOT NUMERIC

Something other than a valid line number follows the Last Detail clause.

Resolution: Correct the code so a valid line number follows the clause.

2096-00-E "LAST" IS A COBOL RESERVED WORD

LAST is a COBOL reserved word and you must use it as one, except when you use it in the Last Detail clause.

Resolution: Correct use of LAST.

2097-00-E UNRECOGNIZED WORD

In the Auto section of the program, APS encountered an invalid word.

Resolution: Correct code to use only valid words and phrases under the Auto statement.

2098-00-E /PAGE/ INVALID FOR GROUP

The /PAGE/ keyword is invalid for Page Heading because it always begins a new page. It is invalid for Page Footing because it cannot begin a new page, and it is invalid for Detail because APS only allows one type of detail in Auto.

Resolution: Correct code to use the /PAGE/ keyword properly.

2099-00-E SUPPRESS INVALID ON GRP OTHER THAN PH/CH/CF

APS does not allow SUPPRESS on groups except for PH (Page Heading), CH (Control Heading), or CF (Control Footing).

Resolution: Correct code to use SUPPRESS properly.

2100-00-E UNRECOGNIZED PHRASE AFTER GROUP/CHANGE

A word other than INDICATE follows a Group or Change clause.

Resolution: Correct code.

2101-00-E PICTURE NOT MATCHED BY SOURCE

The Picture clause given for a particular source item does not match the source item.

Resolution: Correct code so that all picture clauses and source items match.

2102-00-E INVALID PICTURE

The code that follows the PIC statement in the Picture clause is incorrect.

Resolution: Correct the Picture clause.

2103-00-E UNKNOWN INTEGER

APS encountered an integer without a correct parameter prefixing it (i.e., COVER).

Resolution: Prefix the integer with a correct parameter.

2104-00-E QUOTE ASSUMED

If APS encounters column 72 after a string (or alphanumeric literal) opens, APS places a quote in column 72.

Resolution: Correct the code.

2105-00-E DATA NAME VALID ON TYPE IS CH OR CF ONLY

You specified a control identifier (data name) on a Type clause for a group other than Control Heading (CH) or Control Footing (CF).

Resolution: Remove the invalid identifier.

2106-00-E MOCKUP STM EXPECTED

You did not follow a Type clause for a report mock-up by a Mockup statement.

Resolution: Code Mockup statement.

2107-00-E INVALID SYNTAX FOR DECIMAL-PT IS COMMA

The syntax used for the DECIMAL-POINT IS COMMA clause is invalid.

Resolution: Correct the syntax.

2108-00-E INVALID CURRENCY SIGN CLAUSE

The currency symbol in the Currency Sign clause cannot be any of the following characters: 0-9 A B C D L P R S V X Z SPACE * + - / , . ; () = " .

Resolution: Change the Currency symbol specified in the Currency Sign clause to a valid character.

2109-00-E INVALID SYNTAX FOR CURRENCY SIGN CLAUSE

The syntax used for the Currency Sign clause is invalid.

Resolution: Correct the syntax.

2110-00-E WRITE ROUTINE CLAUSE INVALID FOR NORWT

The optional report description clause, WRITE ROUTINE, is only available when the RWT parameter is ON.

Resolution: Turn on the RWT parameter or delete the Write Routine clause.

2111-00-E IMPROPER WRITE ROUTINE SYNTAX

The syntax used for the Write Routine clause is invalid.

Resolution: Correct the syntax.

2112-00-E ONLY 1 CH/CF ALLOWED PER CONTROL ITEM

APS found more than one control heading or control footing for this control item.

Resolution: Correct code to have only one control heading or control footing for the control item named.

2113-00-E TOO MANY LINES IN THIRD SPLIT OF MOCK-UP

The third split of the mock-up has more lines than the first and second splits.

Resolution: Correct the code so the third split matches the first and second.

2114-00-E TOO MANY LINES IN FOURTH SPLIT OF MOCK-UP

The fourth split of the mock-up has more lines than the first, second, and third splits.

Resolution: Correct the code so the fourth split matches the first three.

2115-00-E THIRD SPLIT MOCK-UP OVERFLOW

You exceeded the limit of 200 lines in the third split of the mock-up.

Resolution: Reduce the number of lines to 200 or less.

2116-00-E FOURTH SPLIT MOCK-UP OVERFLOW

You exceeded the limit of 200 lines in the fourth split of the mock-up.

Resolution: Reduce the number of lines to 200 or less.

2117-00-E TOO MANY CONT-MOCKUP STATEMENTS

You exceed the limit of 3 CONT-MOCKUP statements for one mock-up.

Resolution: Reduce the number of CONT-MOCKUP statements to 3 or less. A mock-up may have up to four splits and thus up to three CONT-MOCKUP statements to link them.

3001-00-W USE RED INSTEAD OF RD FOR RED STM

The Report Description contains RD. COBOL will compile correctly.

Resolution: Change RD to RED in source code.

3002-01-W, 02-W 01 LEVEL DELETED - NEW ONE GENERATED

APS replaces the 01 level you coded with an APS generated 01 level.

3003-00-W NEXT GROUP SUPPRESSED MUST BE IN USE STM

When you specify MOVE 1 TO PRINT-SWITCH, the Heading or Footing Report group you want to suppress should be in a Use Before Reporting sentence.

Resolution: Check to ensure that you use a Use Before Reporting sentence for the group you want to suppress.

3005-00-W LINE AREA OCCUPIED

You computed a heading to go in an area that is already occupied by something else.

Resolution: Check Heading and Cover clause for errors.

3006-00-W RH/HEADING CLAUSE LINE NUMBERS DO NOT AGREE

The Report Heading line number and the line number given in the Heading clause are not the same.

Resolution: Correct the Heading clause so that the two agree.

3007-00-W RF/HEADING CLAUSE LINE NUMBERS DO NOT AGREE

The Report Footing line number and the line number given in the Heading clause are not the same.

Resolution: Correct the Heading clause so that the two agree.

3008-00-W RH/HEADING CLAUSES DO NOT AGREE

The report heading and the given Report Heading clause are not the same.

Resolution: Correct the Heading clause so that the two agree.

3009-00-W PH/HEADING CLAUSES DO NOT AGREE

The page heading and the given Page Heading clause are not the same.

Resolution: Correct the Heading clause so that the two agree.

3010-00-W PH LINE/COMPUTED PH LINE DO NOT AGREE

The line number given in the Page Heading clause and the computed line number for the Page Heading line are not the same.

Resolution: Correct the Page Heading clause.

3011-00-W FIRST DETAIL/COMPUTED FIRST DE DO NOT AGREE

The line number given in the First Detail clause and the computed line number for the first detail line are not the same.

Resolution: Correct the First Detail clause.

3012-00-W RF LINE/COMPUTED RF LINE DO NOT AGREE

The line number given in the Report Footing clause and the computed line number for the report footing line are not the same.

Resolution: Correct the Report Footing clause.

3013-00-W LINE/COMPUTED PF LINE DO NOT AGREE

The line number given in the Page Footing clause and the computed line number for the page footing line are not the same.

Resolution: Correct the Page Footing clause.

3014-00-W FOOTING/COMPUTED FOOTING DO NOT AGREE

The line number given in the Footing clause and the computed line number for the footing line are not the same.

Resolution: Correct the Footing clause.

3015-00-W LAST DETAIL/COMPUTED LAST DE DO NOT AGREE

The line number given in the Last Detail clause and the computed line number for the Last Detail line are not the same.

Resolution: Correct the Last Detail clause.

3016-00-W INVALID PAGE NUM CLAUSE; TOP RIGHT ASSUMED

The given Page Number clause is incorrect. APS will place page numbers at the top right of page.

3017-00-W ILLEGAL SUBSCRIPT CONTINUATION

You must code subscripts all on one line. APS attempted a continuation.

Resolution: Code all subscripts on one line.

3018-00-W "MOCK-UP" SPELLED INCORRECTLY?

APS found a word starting in AREA-A beginning with an M in the Report section. APS assumes a Mock-up.

Resolution: Correct statement.

3019-00-W PERIOD SHOULD END SENTENCE PRECEDING FD/SD

You left a period off of the sentence preceding an FD or SD statement.

Resolution: Add the missing period.

3020-00-W DECIMAL-POINT SHOULD NOT BEGIN IN AREA-A

The DECIMAL-POINT IS COMMA clause should not begin in AREA-A.

Resolution: Indent clause to AREA-B.

3021-00-W CURRENCY SHOULD NOT BEGIN IN AREA-A

The Currency Sign clause should not begin in AREA-A.

Resolution: Indent clause to AREA-B.

3022-00-W NEXT GROUP IMPROPER

You used a "next group" clause on a page heading, page footing, or report footing. This is not proper syntax for these groups.

Resolution: No response necessary in most cases, but unexpected results may occur.

3023-00-W NO RD FOR reportname

In the REPORT clause of an FD, you specified a report-name that you did not define via a RED section header.

Resolution: Define the named report with a RED Section header, or eliminate it from the report clause of the associated FD.

3024-00-W NO FD FOR reportname

You cannot match a report defined via a RED section header with any report record description. The report neither uses the WRITE ROUTINE clause nor gets associated with an FD by a REPORT IS clause.

Resolution: Associate the report to an FD with the REPORT IS clause, or specify developer control of the report via the WRITE ROUTINE clause in the RED section header.

9001-00-F STRUCTURE SPACE FULL

You exceed the space allocated for Structure Block storage.

Resolution: Contact your APS Administrator.

9002-00-E GROUP SPACE FULL

You exceeded the space allocated for Group Block storage.

Resolution: Contact your APS Administrator.

9003-00-F SYMBOL TABLE FULL

The internal table used by APS is full. APS halts execution.

Resolution: It may be necessary to process the program in two parts and recombine the output for the COBOL compile. Contact your APS Administrator.

9004-00-F SYMBOL DATA SEGMENTS FULL

The internal data segments used by APS are full. Execution will halt.

Resolution: Contact your APS Administrator.

9005-00-F ATOM BUFFER FULL

The internal buffer used by APS is full. APS halts execution.

Resolution: It may be necessary to break one long paragraph into two paragraphs.

9006-00-F HASH TABLE FULL

The internal table used by APS is full. APS halts execution.

Resolution: Contact your APS Administrator.

9007-00-E EXPECTING RECORD; APS THRU WS; REACHED EOF

Internal processing of the source code expected to find Working Storage information and could not find it.

Resolution: Rerun. If you receive the same results, contact your APS Administrator.

9008-00-E EXPECTING RECORD; APS LNKCMM; REACHED EOF

Internal processing of the source code expected to find Linkage/Communication section and did not find it.

Resolution: Rerun. If you receive the same results, contact your APS Administrator.

9009-00-F IDENTIFIER SYMBOL STORAGE FAILURE; CALL APS REP

A problem occurred during the storage of identifier items. Execution will halt.

Resolution: Contact your APS Administrator.

9010-00-E APS AUTO CD FOOTING OVERLINE FAILURE

During Auto processing to generate an overline for a total footing line, APS detected an internal problem.

Resolution: Contact your APS Administrator.

9011-00-F STRUCTURE BLOCK OVERFLOW

Internal structure block used by APS has overflowed. Execution will halt.

Resolution: Contact your APS Administrator.

9012-00-F MAXIMUM OF 100 REPORTS EXCEEDED

You can only specify 100 reports per program when you use the APS Report Writer Translator.

Resolution: Contact your APS Administrator if you require more than 100 reports in the program.

APS-SCB

The following messages are from the S-COBOL processor. These messages can be identified by APS-SCB at the beginning of the message code in the message report.

1001-00-F UNPRIVILEGED S-COBOL USE

User may not process S-COBOL in this program. Program has attempted to enter the module for processing S-COBOL.

Resolution: Arrange with APS Administrator for a new privilege card.

1002-00-F IMPROPER LOC FOR PROCEDURE DIVISION STM

A Procedure Division statement has been encountered after Procedure Division processing has begun. Execution will halt.

Resolution: Correct the code.

1003-00-F IMPROPER LOC FOR DECLARATIVES STM

A Declaratives Header has been encountered in an incorrect location within the Procedure Division. Execution will halt.

Resolution: Place Declaratives Header immediately following Procedure Division statement. Use only one.

1004-00-F IMPROPER LOC FOR END DECLARATIVES STM

The word END has been encountered as the first COBOL word in a statement in the Procedure Division and no corresponding Declaratives Header has been previously encountered. This END is presumed to be a part of End Declaratives statement. Execution will halt.

Resolution: Check for correct placement of Declaratives and End Declaratives statements. Correct the code.

1005-00-F PARAGRAPH ARGUMENT TABLE OVERFLOW; LIMIT 400

The maximum limit of 400 arguments in the paragraph argument table has been exceeded.

Resolution: Reduce total number of paragraph arguments coded in the program.

1006-00-F STM OVERFLOW: *paragraph name*

Number of statements in the paragraph exceeds the internal table of 600 (after processing, each resulting S-COBOL line is counted as a statement).

Resolution: Break the paragraph into multiple paragraphs with consecutive PERFORM statements for each.

1007-00-F RWT ERRORS PREVENT DECLARATIVES TRANSLATION

RWT errors have occurred in a program which uses Declaratives. These RWT errors prevent the translation of Declaratives into a generated paragraph.

Resolution: Correct the RWT errors preventing translation from occurring.

2001-00-E MISSING FILE NAME

An internal file name is missing from the Select statement.

Resolution: Correct the Select statement.

2002-00-E CONTINUATION IMPROPER

Continuation not allowed in Section or Division header. A continuation of '...' was coded in a Section or Division header.

Resolution: Write complete Section or Division header on one line.

2003-00-E PROCEDURE NAME NOT UNIQUE

A section header has been encountered that does not provide a unique procedure name.

Resolution: Eliminate duplicate procedure names.

2004-00-E PARAGRAPH NAME IS A RESERVED WORD

A paragraph name that has been used is a reserved word.

Resolution: Use a unique paragraph name.

2005-00-E PARA *paragraph name* NOT UNIQUE

The paragraph name encountered has been used previously in the program.

Resolution: Eliminate duplicate paragraph name.

2006-00-E ERROR IN PARAGRAPH NAME

A character other than a left parenthesis or a period has been encountered following a COBOL word that begins in AREA-A of the Procedure Division.

Resolution: Examine the line for extraneous characters and for a properly constructed paragraph name.

2007-00-E IMPROPER PARAGRAPH ARGUMENT

The dummy arguments following a paragraph name are not proper data items.

Resolution: Correct the paragraph argument.

2008-00-E IMPROPER PARA-ARG SUBSCRIPT

The subscript of a paragraph argument is neither a data item nor a number.

Resolution: Check the construction of the paragraph argument. Make sure the subscript is properly coded.

2009-00-E INCREMENT OF SUBSCRIPT OR INDEX NOT NUMERIC

The increment (following + or -) of a subscript or an index is not numeric.

Resolution: Correct the subscript or index.

2010-00-E NO NAME AFTER INDEXED-BY CLAUSE

An INDEXED-BY clause appears to be followed by a keyword.

Resolution: Enter a legitimate data name after the INDEXED-BY clause.

2011-00-E MISSING INDEX NAME

Missing Index name for index used in Set statement, or missing INDEXED-BY name.

Resolution: Add Index or INDEXED-BY name to statement.

2012-00-E PARA-NAME MUST FOLLOW ENTER IN AREA-A

ENTER COBOL/ENTER SCOBOL in AREA-A has been followed by a paragraph of code which has not been prefaced with a paragraph name. When the ENTER COBOL statement starts in AREA-A, the current S-COBOL paragraph is closed to further processing/code generation.

Resolution: Add a paragraph name before the paragraph of code.

2013-00-E USE STATEMENT MISSING

A Use statement does not follow the Declaratives header and the subsequent section header.

Resolution: Code a Use Before Reporting sentence following the section header in the Declaratives section.

2014-00-E KEYWORD CANNOT FOLLOW TRUE/FALSE VERB

The data name following the TRUE or FALSE verb is a keyword.

Resolution: Correct the data name.

2015-00-E ONLY SUBSCRIBED DATA NAMES ALLOWED

A subscript or an index was encountered following a data name in a statement with the TRUE or FALSE verb.

Resolution: Use a Move statement to set a subscripted or indexed data name to TRUE or FALSE.

2016-00-E PORTABILITY VIOLATION

GOBACK, ENTRY, or EXHIBIT has been coded. These are extensions of ANSI COBOL and are not offered by all compilers.

Resolution: Correct code or remove portability parameter.

2017-00-E KEYWORD FOUND INSTEAD OF VERB

A verb is expected, but another keyword was found.

Resolution: Correct the code.

2018-00-E ELSE MUST STAND ALONE ON LINE

The only code that can follow an ELSE statement on the same line is a comment beginning with /* . NOTE: Missing hyphen in ELSE-IF construction will cause this message.

Resolution: Move ELSE to a separate line and indent the statement block beneath.

2019-00-E REPEAT STATEMENT INCORRECT

Something other than spaces or a Varying or Linking clause follows the REPEAT statement.

Resolution: Change REPEAT statement so that it is followed by spaces or a Varying or Linking clause.

2020-00-E USERNAME INCOMPATIBLE WITH CICS

The Username parameter is not compatible with the CICS constructions of S-COBOL.

Resolution: Take out the Username parameter.

2021-00-E USE VERB OUTSIDE OF DECLARATIVES

The USE verb was encountered outside the Declaratives portion of the Procedure Division.

Resolution: Correct the code.

2022-00-E ENTRY VERB MUST FOLLOW PARAGRAPH NAME

An ENTRY verb was encountered that was not positioned immediately after a paragraph or section header.

Resolution: Correct the code.

2023-00-E EXIT PROGRAM NOT ALLOWED IN DECLARATIVES

An Exit Program statement has been encountered in the Declaratives.

Resolution: Move the Exit Program logic to the main part of the Procedure Division.

2024-00-E PROGRAM MUST BE ADDED TO EXIT STATEMENT

An EXIT statement assumes EXIT PROGRAM is intended. EXIT alone is invalid in S-COBOL.

Resolution: Correct the code.

2025-00-E IMPROPER INDENTATION; DECREASED

All the indentation within one statement block must be the same. If one statement in a statement block begins one column or more earlier or one column or more later than the others, this message results. For further processing, the line indentation is decreased to the level of current indentation.

Resolution: Align the indentation and recompile. (NOTE: Truncation may occur when a line of less indentation follows one of more indentation within a statement block).

2026-00-E ELSE/ELSE-IF DOES NOT MATCH COND ABOVE

An ELSE or ELSE-IF statement has been coded at a level of indentation that does not match a preceding condition statement.

Resolution: Check the code to determine if code is missing, indentation is correct, or the ELSE/ELSE-IF conditional is unnecessary.

2027-00-E NO MATCHING SEARCH OR EVALUATE WITH WHEN STM

A WHEN statement has been encountered without a matching SEARCH or EVALUATE.

Resolution: Correct the code.

2028-00-E NO INDENTED STM BLOCK FOR LAST CONDITIONAL

The last conditional of an IF, ELSE-IF, ELSE statement is not followed by an indented statement block.

Resolution: Check the code to determine whether code is missing, indentation is needed, or the conditional is unnecessary and should be removed.

2029-00-E MISSING WHILE/UNTIL AFTER REPEAT STM

REPEAT has been coded without an accompanying WHILE or UNTIL statement at the same level of indentation (do not apply to REPEAT VARYING).

Resolution: Correct the code.

2030-00-E NO WHEN CLAUSE WITH EVALUATE STM

An EVALUATE statement has been coded without accompanying WHEN clauses.

Resolution: Correct the code.

2031-00-E CONDITIONAL STM NOT IMPLEMENTED

The specified conditional statement is not in use. The coded conditional statement is not defined or is spelled incorrectly.

Resolution: Replace undefined statement with a known conditional statement or correct spelling.

2032-00-E PLUS OR MINUS EXPECTED

A plus or minus sign is expected for index increment or decrement in format SOURCE IS (SRC-1 +/- SRC-2).

Resolution: Correct syntax of index increment/decrement.

2033-00-E, 02-E SYNTAX-ERROR IN REPEAT OR EVALUATE STM

Syntax used in REPEAT or EVALUATE statement is incorrect. If a REPEAT statement is flagged, something other than spaces or a Varying or Linking clause follows the REPEAT.

Resolution: Correct the syntax (i.e., for REPEAT statement, follow it by either spaces or a Varying or Linking clause).

2034-00-E TOO MANY VARYING CLAUSES WITH REPEAT STM

Too many Varying clauses are used with one REPEAT statement.

Resolution: Reduce the number of Varying clauses to less or equal to the maximum number allowed (20).

2035-00-E INDEX DATA ITEM INCOMPATIBLE WITH VARYING

Index data item may not be used as subject for Varying clause.

Resolution: Correct Varying clause so it does not use index data item as a conditional variable.

2036-00-E BY REQUIRED WITH REPEAT LINKING CLAUSE

The By clause is mandatory when a Repeat Linking clause is used.

Resolution: Correct the REPEAT statement by adding the By clause.

2037-00-E ACTION STATEMENT IS UNDEFINED

The specified action statement is not in use because it is not defined or has been misspelled.

Resolution: Replace undefined statement with a known action statement or check for correct spelling.

2038-00-E NOT A FILE NAME

In the flagged line or immediately preceding it, something other than a file name was referenced.

Resolution: Correct the code if the program is to run on any system which supports only a file name.

2039-00-E RECORD NAME MUST BE QUALIFIED

The record name is not unique and requires qualification.

Resolution: Add OF or IN clause after the record name followed by a higher-level qualifier.

2040-00-E TOO MANY CONDITIONS FOR WHEN EXPRESSION

Too many conditions coded for one WHEN conditional.

Resolution: Correct code to reduce the number of conditions following the WHEN conditional.

2041-00-W INCOMPLETE WHEN STATEMENT

Evaluation of a WHEN statement expected to find a literal, or data field to do a conditional test but statement appears incomplete.

Resolution: Verify WHEN statements are complete so unexpected results are not obtained.

2042-00-E PARA *paragraph name* UNDEFINED

The paragraph being performed is not defined in the program.

Resolution: Define paragraph being performed or check the spelling of the paragraph name.

2043-00-E PROC *procedurename* UNDEFINED

The procedure named in the preceding PERFORM statement does not exist.

Resolution: Correct the procedure name in the PERFORM statement or create a dummy paragraph to which the procedure name will be assigned. Presumably the paragraph will be developed later. NOTE: If this error is received without a specific error line being pointed to, ensure that any user-supplied automatic edit routines for the screen have also been coded within the program itself (or if Online Express, in MISC-USER-PARA control point).

2044-00-E PROCEDURE WITH ENTRY MAY NOT BE PERFORMED

A paragraph which contains an Entry statement has been performed by another paragraph which is executed with the subprogram.

Resolution: Correct the PERFORM statement so that it no longer references the paragraph with the Entry statement.

2045-00-E NO ARGUMENTS FOR PARA IN PERFORM STM

Arguments have been passed in a PERFORM statement to a paragraph that has no arguments.

Resolution: If the user does not desire to pass information to the PERFORMed paragraph via actual arguments, the arguments should be removed. However, if a PERFORM statement with arguments is desired, the user must add a list of dummy arguments following the corresponding paragraph name.

Note: If this error is received without a specific error line being pointed to, ensure that any user-supplied automatic edit routines for the screen have also been coded within the program itself.

2046-00-E NOT ENOUGH ARGUMENTS FOR PERFORM STM

A PERFORM statement has not supplied enough actual arguments as required for the dummy argument list following the corresponding paragraph name.

Resolution: Add the missing arguments to the specified PERFORM statement or remove the extra arguments from the dummy argument list following the corresponding paragraph name.

2047-00-E TOO MANY ARGUMENTS FOR PERFORM STM

A PERFORM statement has supplied more actual arguments than the number required for the dummy argument list which follows the corresponding paragraph name.

Resolution: Take the extra arguments off the PERFORM statement or add more dummy arguments to the argument list following the corresponding paragraph name.

2048-00-E ARGUMENTS NEEDED FOR PERFORM STM

A PERFORM statement for a paragraph name with a dummy argument list does not pass any actual arguments.

Resolution: Add arguments onto PERFORM statement or remove argument list from the paragraph name itself.

2049-00-E IMPROPER STATEMENT TERMINATION

During S-COBOL scanning of statement line, the statement appears to have terminated in a non-numeric and non-alpha character.

Resolution: Check statement for proper termination by a complete line or proper break for a continuation.

2050-00-E DATA NAME QUALIFICATION IS INCORRECT

The item being qualified is not a variable or OF/IN is being used incorrectly.

Resolution: Replace item with a variable or remove the qualification clause.

2051-00-E SYNTAX ERROR IN ARGUMENT SEQUENCE

During scanning for argument fields a syntax error was detected.

Resolution: Check statement flagged for properly coded arguments and syntax usage.

2052-00-E ARGUMENT RETURN IMPOSSIBLE

A literal or arithmetic expression must correspond to an argument preceded by a plus sign (+) as it would be an error to attempt to copy back into a literal or arithmetic expression.

Resolution: Precede the argument with a + sign if the argument is to receive a literal or arithmetic expression. Another option is to move the literal or arithmetic expression to a data name and use the data name as the PERFORM parameter.

2053-00-E IMPROPER USE OF CONCATENATION OPERATOR

A concatenation operator, &&, has been used to continue a line which does not end with a non-numeric literal. && should only be used where concatenation of a non-numeric literal onto a continued line is required.

Resolution: Correct syntax for concatenated statement that was flagged.

2054-00-E WHILE/UNTIL INVALID FOR REPEAT WITH THRU/TO

No WHILE or UNTIL statement is allowed when the THRU/TO option of the REPEAT verb is coded.

Resolution: Correct the REPEAT statement.

2055-00-E THRU OR TO MISSING

THRU or TO is missing in the DOWN TO/THRU clause in the REPEAT statement.

Resolution: Correct REPEAT statement by adding THRU or TO clause to complete the DOWN TO/THRU clause.

3001-00-W UNKNOWN VERB; COBOL ACTION WORD ASSUMED

The word flagged is not recognized by the APS processor. It will appear as coded in the generated COBOL output.

Resolution: Examine the code for:

- Verb spelling error.
- Failure to provide an ellipsis (...) on a continuation line in the case where the word flagged may not be a verb.
- A verb that represents an extension of ANSI COBOL by a specific compiler (some IBM extensions are not so flagged).
- Commands for a precompiler for COBOL software support in database management or data communication. (CICS has a special verb for use in S-COBOL. The APS generator does not recognize EXEC CICS or END-EXEC.) Sometimes the COBOL output is correct and this warning can be disregarded.

3002-00-W ON SIZE ERROR REQUIRED; ASSUMED

An indented statement or an ELSE-IF/ELSE statement was encountered which followed an arithmetic statement. This can only be done if an On Size Error clause is present in the code.

Resolution: If the insertion of the On Size Error clause into the code is all that is required to give the correct output, the source code for another run can be corrected at your convenience. Examine the code closely to determine whether any other correction is required.

3003-00-W NO SCOPE FOUND FOR ON SIZE ERROR

The On Size Error phrase was encountered with no indented code following it to be executed when a size error is encountered.

Resolution: Determine what code should be performed in the event of a size error and insert it or remove the On Size Error phrase.

3005-00-W REPLACE THRU WITH TO CLAUSE

TO is used when the loop should be executed to, but not including, the stop point.

Resolution: Replace THRU with TO.

3006-00-W NEGATIVE FOUND; DOWN THRU ASSUMED

The DOWN TO/THRU clause was omitted in a REPEAT statement where the literal or identifier following the By clause is a negative number. The loop should be executed through the stop point.

Resolution: No response is necessary if the DOWN THRU clause is what was wanted. Otherwise, code the necessary clause.

3007-00-W NEGATIVE FOUND; DOWN TO ASSUMED

The DOWN TO/THRU clause was omitted in a REPEAT statement where the literal or identifier following the BY clause is a negative number. The loop should be executed to, but not including, the stop point.

Resolution: No response is necessary if the DOWN TO clause is what was wanted. Otherwise, code the necessary clause.

3008-00-W FLAG NOT SET TO FALSE IN PROGRAM

A True statement has been encountered. The flag name following the True verb is never used with the False verb elsewhere in the program.

Resolution: Determine where or whether the flag should be set to FALSE with the False verb.

3009-00-W FLAG NOT SET TO TRUE IN PROGRAM

A False statement has been encountered. The flag name following the False verb is never used with the True verb elsewhere in the program.

Resolution: Determine where or whether the flag should be set to TRUE with the True verb.

3010-00-W AT END CLAUSE INCOMPATIBLE WITH FILE TYPE

An AT END clause has been encountered on an Input/Output statement (READ, WRITE, or REWRITE) for an indexed file that is being accessed randomly or a direct file.

Resolution: Determine whether the file access has been described accurately or whether the AT END condition should be removed.

3011-00-W TRAILING QUOTE MISSING - ADDED

The trailing quote on a literal has been left off.

Resolution: Put a second quote at the end of the literal.

3012-00-W EXTRANEIOUS ELSE/ELSE-IF FOLLOWS ELSE

ELSE or ELSE-IF is indented directly beneath an ELSE.

Resolution: Typographical error. Check code and correct.

9002-00-F PARSE STACK OVERFLOW; CALL APS REP

Internal stack has overflowed. Execution will halt. A nested IF structure may have exceeded the 14 levels of indentation allowed.

Resolution: Check indentation levels of nested IF statements. If more than 14 levels are found for one IF structure, reduce the number of levels with PERFORM statements or some other code modification. If you do not find too many nested IF statements or need more help, contact your APS Administrator.

9003-01-F PRODUCT ERROR (A); CALL APS REP

Internal check on S-COBOL processing. Make sure the ellipsis has three dots.

Resolution: Contact your APS Administrator.

9003-02-F PRODUCT ERROR (U); CALL APS REP

Internal check on S-COBOL processing. Make sure the ellipsis has three dots.

Resolution: Contact your APS Administrator.

9004-00-F COMPILER ERROR (L); CALL APS REP

Internal check on S-COBOL processing of paragraph arguments. This error may be caused by improper formatting of REPEAT VARYING with THRU option; if so, an error message pertaining to invalid REPEAT usage should precede this message.

Resolution: Check for improper REPEAT verb usage. Correct REPEAT format if applicable. Otherwise, contact your APS Administrator.

9005-00-F RECORD LOOK-AHEAD OVERFLOW; CALL APS REP

S-COBOL internal Look-ahead routine has exceeded the internal limits set for records held in a buffer area.

Resolution: Possible cause is the continuation of one statement (i.e., "...") more than 16 times. This limit pertains to these statement types: Move operands (i.e., <<, <+, <-, etc.), Repeat Varyings, I-O statements, Evaluates with "When Other", Performs with arguments, CICS Handle statements and some comments. Check code and correct if necessary. Contact your APS Administrator if more assistance is needed.

9006-00-F LOOK-AHEAD PROBLEM; CALL APS REP

Trouble with internal S-COBOL routine used to hold records in a buffer.

Resolution: Contact your APS Administrator.

9007-00-F SYMBOL TABLE FULL

The limit of 1801 entries has been exceeded. (This includes paragraph names, file names, section names, keywords, verbs, arguments, indexes, flags, etc.)

Resolution: Contact your APS Administrator.

APS-VSM

Category: VSAM macros.

1010-00-E ERROR IN ARGUMENTS

An error occurred while processing VS-VALIDATE-OBTAIN. Message usually occurs in combination with another message that gives details on the argument in error.

Resolution: Correct command arguments and recompile.

1020-00-E ERROR - FILE(S) WAS NOT GIVEN; CANNOT BE DEFAULTED

An error occurred while processing VS-VALIDATE-FILE. You did not give the file name for the OPEN/CLOSE command.

Resolution: Correct command arguments and recompile.

1030-00-E ERROR - RECORD WAS NOT GIVEN; CANNOT BE DEFAULTED

An error occurred while processing VS-VALIDATE-REC. You did not give the record name for the VSAM command.

Resolution: Correct command arguments and recompile.

1040-00-E ERROR - RECORD UNKNOWN

An error occurred while processing VS-VALIDATE-REC. You gave the record name but it is invalid.

Resolution: Correct command arguments and recompile.

1050-00-E FOR RECORD: *recordname* KEY NOT DEFINED

An error occurred while processing VS-VALIDATE-KEY. You gave the key name but it is invalid.

Resolution: Correct command arguments and recompile.

1060-00-E ERROR - RECORD WAS NOT GIVEN; CANNOT BE DEFAULTED

An error occurred while processing DDI-FIND-REC. You did not give the record name.

Resolution: Correct the command argument and recompile.

1070-00-E ERROR - RECORD: NOT FOUND; CANNOT BE DEFAULTED

An error occurred while processing DDI-FIND-REC. You gave the record name but it is invalid.

Resolution: Correct Command argument and recompile.

1080-00-E MODE NOT SPECIFIED IN OPEN

An error occurred while processing VS-OPEN. You did not specify the mode.

Resolution: Correct Command arguments and recompile.

1090-00-E FILE NOT SPECIFIED IN OPEN

An error occurred while processing VS-OPEN. You did not specify the file.

Resolution: The VS-VALIDATE-FILE macro should trap error.

1100-00-E FILE NOT SPECIFIED IN CLOSE

An error occurred while processing VS-CLOSE. You did not specify the file.

Resolution: The VS-VALIDATE-FILE macro should trap the error.

1500-00-E APS VSAM ERROR - FIRST KEYWORD FOR DB COMMAND IS MISSING

You coded the DB command without specifying any keywords.

Resolution: Supply appropriate DB command keywords.

1520-00-E APS VSAM ERROR - FIRST KEYWORD FOR DB-ERASE, DB-STORE, DB-MODIFY, AND DB-PROCESS MUST BE REC:

You coded the DB command using a first keyword other than REC.

Resolution: Code command with REC as the first keyword.

1530-00-E APS VSAM ERROR - UNKNOWN KEYWORD AT PARM NUMBER: *number* KEYWORD: *keyword*

You coded the DB command using an invalid APS VSAM keyword.

Resolution: Correct the keyword in error. See the APS Reference for valid syntax.

1540-00-E APS VSAM ERROR - RECORD NAME IS MISSING

You coded the DB command without specifying a record name.

Resolution: Specify the record name.

1550-00-E APS VSAM ERROR - MODE KEYWORD MISSING ON DB-OPEN

You coded the DB-OPEN command without the MODE keyword and option.

Resolution: Supply the MODE keyword and option. See the APS Reference for valid syntax.

1560-00-E APS VSAM ERROR - MODE OPTION MISSING EXPECTED AS PARM NUMBER

You coded the DB-OPEN command without the MODE keyword option.

Resolution: Supply the MODE keyword option. See the APS Reference for valid syntax.

1570-00-E APS VSAM ERROR - INTO KEYWORD DATA-AREA MISSING

You coded the DB-OBTAIN or DB-PROCESS command with the INTO keyword, but did not specify the data-area.

Resolution: Supply the alternate storage area name.

1580-00-E APS VSAM ERROR - FROM KEYWORD DATA-AREA MISSING

You coded the DB-STORE or DB-MODIFY command with the FROM keyword, but did not specify the alternate storage area.

Resolution: Supply the alternate storage area name.

1590-00-E APS VSAM ERROR - SUB KEYWORD DATA-NAME MISSING

You coded the DB-OBTAIN, DB-PROCESS, or DB-ERASE command using the SUB keyword but did not specify the subscript.

Resolution: Supply the subscript.

1600-00-E APS VSAM ERROR - OF KEYWORD DATA-NAME MISSING

You coded the DB-OBTAIN, DB-PROCESS, or DB-ERASE command using the OF keyword but did not specify the qualification data name.

Resolution: Supply the qualification data name.

1610-00-E APS VSAM ERROR - KLEN DATA-AREA IS MISSING, EXPECTED AS PARM NUMBER: number

You coded the DB-OBTAIN, DB-PROCESS, or DB-ERASE command using the KLEN keyword but did not specify the actual key length as a number or data name.

Resolution: Supply the key length.

1620-00-E APS VSAM ERROR - KEY NAME IS MISSING EXPECTED AS PARM NUMBER: number

You coded the DB-OBTAIN, DB-PROCESS, or DB-ERASE command using the WHERE keyword but did not specify the record key name.

Resolution: Supply the record key name.

1630-00-E APS VSAM ERROR - OPERATOR IS MISSING EXPECTED AS PARM NUMBER: number

You coded the DB-OBTAIN, DB-PROCESS, or DB-ERASE command using the WHERE keyword but did not specify the operator.

Resolution: Supply the operator.

1640-00-E APS VSAM ERROR - KEY SOURCE IS MISSING EXPECTED AS PARM NUMBER: *number*

The DB-OBTAIN, DB-PROCESS, or DB-ERASE command was coded using the WHERE keyword but the key source (value used to update the key) was not specified.

Resolution: Supply the key source.

1650-00-E APS VSAM ERROR - REQID DATA-AREA IS MISSING, EXPECTED AS PARM NUMBER: *number*

The DB-OBTAIN, DB-PROCESS, or DB-FREE command was coded using the REQID keyword but the identifier was not specified.

Resolution: Supply the unique browse identifier.

1660-00-E APS VSAM ERROR - DDN DATA-AREA IS MISSING, EXPECTED AS PARM NUMBER: number

The DB command was coded using the DDN keyword but the DDN data-area was not specified.

Resolution: Supply the DDN data-area.

1670-00-E APS VSAM ERROR - FILE KEYWORD MISSING

The DB-OPEN or DB-CLOSE command did not specify FILE as the first keyword.

Resolution: Supply the FILE keyword.

**1680-00-E APS VSAM ERROR - SYSID NAME MISSING EXPECTED AS PARM NUMBER:
*number***

The DB command was coded using the SYSID keyword but the SYSID name was not specified.

Resolution: Supply the SYSID name.

2010-00-E 'PREVIOUS' KEYWORD ALLOWED FOR CICS ONLY

The PREVIOUS or PREV keyword is an option allowed only when the DC target is CICS.

Resolution: Correct the call by removing the keyword PREV.

2020-00-E 'KEYLENGTH' ALLOWED FOR CICS ONLY

The KEYLENGTH or KLEN keyword is an option allowed only when the DC target is CICS.

Resolution: Correct the call by removing the keyword KLEN.

2030-00-E MULTI LEVEL CALL INVALID FOR VSAM

Only a single record can be specified in the call accessing VSAM files.

Resolution: Correct the call by specifying only one record to be processed.

2040-00-E VSAM RECORD CAN BE QUALIFIED ONLY ON ONE FIELD

The record can be qualified only on one key if accessing VSAM files.

Resolution: Correct the call by specifying only one field qualification.

2050-00-E 'REF' KEYWORD INVALID FOR VSAM

The keyword REF or REFERENCE is invalid for VSAM files.

Resolution: Correct the call by removing the keyword REF.

2060-00-E 'CKEYED' INVALID FOR VSAM

The keyword CKEYED or CONCAT-KEYED is invalid for VSAM files.

Resolution: Correct the call by removing the keyword CKEYED.

2070-00-E 'CURRENT' INVALID FOR VSAM

The keyword CURRENT is invalid for VSAM files.

Resolution: Correct the call by removing the keyword CURRENT.

2080-00-E 'CCODE' INVALID FOR VSAM

The keyword CCODE or COMMAND-CODE is invalid for VSAM files.

Resolution: Correct the call by removing the keyword CCODE.

2090-00-E 'FIRST' OR 'LAST' INVALID FOR VSAM

The keywords FIRST or LAST are invalid for VSAM files.

Resolution: Correct the call by removing the keyword FIRST or LAST.

2100-00-E 'HOLD' INVALID FOR READ PREVIOUS

The keyword HOLD is invalid when specifying the keyword PREV or PREVIOUS.

Resolution: Correct the call by removing the keyword HOLD.

2110-00-E 'RESET' INVALID FOR READ PREVIOUS

The keyword RESET is invalid when specifying the keyword PREV or PREVIOUS.

Resolution: Correct the call by removing the keyword RESET.

2120-00-I 'RESET' IGNORED FOR QUALIFIED READ

The keyword RESET or RESET-POSITION has no meaning for a qualified retrieval and has been ignored.

Resolution: The keyword RESET has no meaning for a qualified retrieval.

2130-00-I 'VIEW' IGNORED FOR QUALIFIED READ

The keyword VIEW has been ignored for a qualified retrieval.

Resolution: The keyword VIEW has no meaning for a qualified retrieval.

2140-00-I 'PREV' IGNORED FOR QUALIFIED READ

The keyword PREV or PREVIOUS has no meaning for a qualified retrieval and has been ignored.

Resolution: The keyword PREV has no meaning for a qualified retrieval.

2150-00-E ACCESS MUST BE SPECIFIED AS DYNAMIC

File access must be DYNAMIC for keyed reads when the relational operator is not =.

Resolution: Change file access to DYNAMIC.

2210-00-E ERROR - VALUE FOR VS-HOLD-DEFAULT IS INVALID, VALUE value

An error occurred while processing VS MDBMAC. The value for &VS-HOLD-DEFAULT is invalid. Valid values are HOLD, NOHOLD, and PROCOPT.

Resolution: Correct argument and recompile.

2220-00-E ERROR FOR FILE: ACCESS SEQUENTIAL FOR KEYED VSAM READ

An error occurred while processing MVS VS-OBTAIN-BY-KEY. The subschema has specified sequential access and a keyed READ command has been entered.

Resolution: You can use sequential READ commands only.

2230-00-E QUALIFIED RETRIEVAL NOT ALLOWED FOR ENTRY SEQUENCED DATA SET (ESDS) OR OS SEQUENTIAL FILE

An error occurred while processing MVS VS-OBTAIN-BY-KEY. The subschema has specified ESDS record type while the developer has coded a keyed READ command.

Resolution: Use sequential READ commands only.

2240-00-E ERROR FOR FILE: READNEXT INVALID FOR RANDOM FILE

An error occurred while processing MVS VS-OBTAIN-NEXT. The subschema has specified random access and a sequential READ command has been coded.

Resolution: Use only qualified READ commands.

2250-00-E ERROR FOR FILE: QUALIFIED RETRIEVAL NOT ALLOWED FOR ENTRY SEQUENCED DATA SET (ESDS) OR OS SEQUENTIAL FILE

An error occurred while processing MVS VS-OBTAIN-NEXT. The subschema has specified sequential or ESDS file type while the developer has coded a key parameter.

Resolution: Remove key parameter from command and recompile.

2260-00-E CANNOT OBTAIN-PREV IN MVS PROGRAM

An error occurred while processing VS-OBTAIN-PREV. The READ PREVIOUS operation is not allowed for batch programs.

Resolution: Developer must not use the READ PREVIOUS function in a batch program.

2270-00-E ENTRY SEQUENCED DATA SET OR OS SEQUENTIAL FILE CANNOT BE DELETED

An error occurred while processing VS-ERASE. ESDS and OS sequential files cannot be deleted.

Resolution: Developer must not use the DELETE function.

2280-00-E KEY LENGTH TOO GREAT; DEFINED LENGTH USED

An error occurred while processing VS-VALIDATE-KLEN. The developer has given a key length parameter that is greater than the key length specified in the subschema. The key length specified in the subschema is used.

Resolution: Correct argument and recompile.

2290-00-E OPERATOR; SHOULD BE EQUAL

An error occurred while processing VS-VALIDATE-OPERATOR. A OBTAIN-PREV or PREVIOUS parameter has been coded with an operator other than equal.

Resolution: Correct argument and recompile.

2300-00-E OPERATOR; SHOULD BE EQUAL OR GTEQ

An error occurred while processing VS-VALIDATE-OPERATOR. An operator other than EQUAL or GTEQ has been coded in a CICS program.

Resolution: Correct argument and recompile.

2310-00-E OPERATOR; NOT VALID OPERATOR

An error occurred while processing VS-VALIDATE-OPERATOR. The developer has coded an invalid operator.

Resolution: Correct argument and recompile.

2330-00-E FILE USED BUT NOT OPENED

An error occurred while processing VS-EPILOGUE-MACRO. The developer has coded a VSAM DB macro without coding an OPEN for the file.

Resolution: Correct program and recompile.

2340-00-E FILE OPENED BUT NOT CLOSED

An error occurred while processing VS-EPILOGUE-MACRO. The developer has coded an OPEN macro without coding a CLOSE for the file.

Resolution: Correct program and recompile.

2350-00-E FILE CLOSED BUT NOT OPENED

An error occurred while processing VS-EPILOGUE-MACRO. The developer has coded a CLOSE macro without coding an OPEN for the file.

Resolution: Correct program and recompile.

2360-00-E PROCOPT VIOLATION FILE

An error occurred while processing VS-VALIDATE-PROCOPT. This message occurs when &VS-PROCOPT-WARNING = 2. The developer has coded a VSAM macro that is not allowed according to the file processing option in the subschema.

Resolution: Check subschema *DDI card procopt option. Correct program and recompile.

2370-00-E LINKAGE NOT ALLOWED IN CICS PROGRAM USE TP-LINKAGE COMMANDS

An error occurred while processing DB-PD-STACKED-EPILOGUE. The ©-SECTION variable has been set to linkage for a CICS program. ©-SECTION should be set to WORKING-STORAGE for CICS programs.

Resolution: Correct variable and recompile program.

2380-00-E FILE UNKNOWN: file

This message occurred while processing VS-VALIDATE-FILE. The developer has coded the OPEN/CLOSE macro and specified a file that is unknown to the subschema.

Resolution: Check subschema. The filename being used should correspond to batch subschema option AS or DDN.

2390-00-E ENTRY SEQUENCED DATA SETS (ESDS) MUST USE EQUAL OPERATOR

This message occurred while processing VS-VALIDATE-OPERATOR. The developer used an operator other than EQUAL for an ESDS file type.

Resolution: Change operator to EQUAL and recompile.

2450-00-E APS VSAM ERROR - &VS-HOLD-DEFAULT SHOULD BE PROCOPT, HOLD, OR NOHOLD VALUE: value

The CARDIN variable &VS-HOLD-DEFAULT has been assigned a value other than "HOLD", "NOHOLD", or "PROCOPT".

Resolution: Assign appropriate value to &VS-HOLD-DEFAULT in CNTL(APSDDBC).

2460-00-E APS VSAM ERROR - INTO KEYWORD FOR DB RETRIEVAL COMMANDS ONLY

The INTO keyword has been used on a non-retrieval DB command.

Resolution: Use the FROM keyword to specify an alternate storage area for DB-STORE and DB-MODIFY.

2466-00-E APS VSAM ERROR - INTO KEYWORD INVALID WITH REF KEYWORD

The INTO keyword has been used on a DB-OBTAIN with the REF keyword. The REF keyword indicates file positioning only - not record retrieval.

Resolution: Remove INTO keyword from command.

2470-00-E APS VSAM ERROR - FROM KEYWORD FOR DB-STORE AND DB-MODIFY ONLY

The FROM keyword has been used on a retrieval command.

Resolution: Use the INTO keyword to specify an alternate storage area for a retrieval command.

2480-00-E APS VSAM ERROR - DB-ERASE WITH KEY QUALIFICATION INVALID WITH SEQUENTIAL ACCESS MODE

The WHERE key qualification for DB-ERASE is invalid when SEQUENTIAL access has been specified.

Resolution: The record must be retrieved prior to deletion. Use DB-ERASE without the key qualification.

2481-00-E APS VSAM ERROR - SUB AND OF KEYWORDS USED FOR KEY QUALIFICATION ONLY

The SUB and OF keywords can only be used by commands specifying the WHERE key qualification to subscript or qualify the data being moved to the record key.

Resolution: Remove the SUB or OF keywords.

2500-00-E APS VSAM ERROR - PROCOPT VIOLATION FILE NAME: *filename* COMMAND IN VIOLATION: *command* PROCOPTS FOR FILE: *procopts*

The Subschema PROCOPT (processing option) for the named file does not include the processing option for the DB command.

Resolution: Change DDI SUB PROCOPT card if necessary.

2510-00-E APS VSAM ERROR - HOLD KEYWORD IS INVALID WHEN USED WITH DUPLICATE KEY

The HOLD keyword is invalid when used on a sequential DB-OBTAIN or DB-PROCESS command where the VIEW keyname specifies an alternate key with duplicates allowed.

Resolution: Consider program logic that will retain record position among duplicates while record updating occurs. See the APS Reference for simultaneous browse operations.

2520-00-E APS VSAM ERROR - HOLD KEYWORD IS INVALID WHEN USED WITH KEYWORD: *keyword*

The HOLD keyword is invalid when used with the named keyword.

Resolution: Remove the HOLD or the invalid keyword. Consider separating the steps required to accomplish the function.

**2530-00-E APS VSAM ERROR - RECORD NAME IS NOT DEFINED TO SUBSCHEMA:
recordname**

The record name was not found in the program Subschema.

Resolution: Consult the Subschema for the correct record name.

2550-00-E APS VSAM ERROR - KEY NAME INVALID KEY: key

The record key name was not found in the program Subschema.

Resolution: Consult the Subschema for the correct record key name.

**2600-00-E APS VSAM ERROR - ENTRY SEQUENCED DATA SETS (ESDS) MUST USE
EQUAL OPERATOR**

GTEQ operator is invalid when processing ESDS files.

Resolution: Use the EQUAL operator. See the APS Reference for ESDS file processing.

2610-00-E APS VSAM ERROR - INVALID OPERATOR: *operator*

The operator used was invalid.

Resolution: Use the EQUAL or GTEQ operator for CICS. Use the EQUAL, GTEQ or > operator for MVS.

**2650-00-E APS VSAM ERROR - KEYWORD: *keyword* INVALID WHEN USING QUALI-
FIED OBTAIN**

The named keyword is invalid for a DB-OBTAIN specifying the WHERE key qualification.

Resolution: See the APS Reference for valid keywords.

2660-00-E APS VSAM ERROR - PREV KEYWORD IS INVALID FOR MVS/VSAM - USED IN CICS/VSAM ONLY

The PREV keyword is invalid for MVS processing. The READPREV function is not a native MVS VSAM operation.

Resolution: Use alternate programming method.

2670-00-E APS VSAM ERROR - REF KEYWORD MUST USE KEY QUALIFICATION

The DB-OBTAIN used with the REF keyword must also specify the WHERE key qualification clause.

Resolution: Code the WHERE key qualification to specify the key search criteria for the MVS START or CICS STARTBR command.

2680-00-E APS VSAM ERROR - QUALIFIED DB-ERASE NOT VALID WITH KEYWORD: keyword

The named keyword is invalid for the DB-ERASE with key qualification.

Resolution: See the APS Reference for valid keywords.

2690-00-E APS VSAM ERROR - QUALIFIED DB-ERASE MUST USE PRIMARY KEY

The key named on the DB-ERASE with key qualification was not the record primary key.

Resolution: Use the primary record key or consider an alternate programming method.

2700-00-E APS VSAM ERROR - QUALIFIED DB-ERASE MUST USE EQUAL OPERATOR

The operator used on the DB-ERASE command was not the EQUAL operator.

Resolution: Use the EQUAL operator or consider an alternate programming method.

2710-00-E APS VSAM ERROR - DB-FREE CANNOT BE USED WITH KEYWORD: *keyword*

The named keyword is invalid for the DB-FREE command.

Resolution: See the APS Reference for valid DB-FREE keywords.

2720-00-E APS VSAM ERROR - KEY QUALIFICATION INVALID FOR COMMAND: *command*

The WHERE key qualification is invalid for the named command.

Resolution: Remove the WHERE key qualification and see the APS Reference for valid command keywords.

2730-00-E APS VSAM ERROR - DB-FREE KEYWORD ALL CANNOT BE USED WITH KEYWORD: *keyword*

The named keyword is invalid when the ALL keyword is used.

Resolution: Code a separate DB-FREE command for the file requiring the named keyword.

2740-00-E APS VSAM ERROR - KEYWORD: *keyword* CAN ONLY BE USED WITH REF KEYWORD

The named keyword is valid only for a DB-OBTAIN command specifying REF.

Resolution: See the APS Reference for valid command keywords.

2750-00-E APS VSAM ERROR - KEYWORD: *keyword* CAN ONLY BE USED WITH DB-FREE

The named keyword is specifically for the DB-FREE command.

Resolution: See the APS Reference for valid keywords for the coded DB command.

2760-00-E APS VSAM ERROR - FILE USED BUT NOT OPENED: *filename*

The named file was used by DB commands but was not opened via a DB-OPEN command.

Resolution: Code a DB-OPEN for the named file.

2770-00-E APS VSAM ERROR - FILE OPENED BUT NOT CLOSED: *filename*

The named file was opened via a DB-OPEN but was not closed via a DB-CLOSE command.

Resolution: Code a DB-CLOSE for the named file.

2780-00-E APS VSAM ERROR - FILE CLOSED BUT NOT OPENED: *filename*

The named file was closed via a DB-CLOSE but was not opened via a DB-OPEN command.

Resolution: Code a DB-OPEN for the named file.

2790-00-E APS VSAM ERROR - FILENAME NOT FOUND IN SUBSCHEMA AT PARM NUMBER: *number* FILENAME: *filename*

The named file was not found in the program Subschema.

Resolution: Consult the program Subschema for the correct file name.

2800-00-E APS VSAM ERROR - INVALID MODE SPECIFICATION MODE: *mode*

The DB-OPEN MODE option was invalid.

Resolution: See the APS Reference for the valid MODE options.

2830-00-E APS VSAM ERROR - REQID KEYWORD IS INVALID WITH THE 'APS' OPTION OF &VS-ENDBR-CONTROL. MUST USE 'USER' OPTION

The REQID keyword (indicating a simultaneous browse operation) is valid only when the control variable &VS-ENDBR-CONTROL has been set to "USER".

Resolution: Consult the APSCNTL(APVSAMIN) member and see the APS Reference for details concerning simultaneous browses and the REQID keyword.

2840-00-E APS VSAM ERROR - SYSID KEYWORD WAS SEEN ON PREVIOUS COMMANDS BUT HAS NOT BEEN SPECIFIED FOR DB-FREE

The SYSID keyword was used to specify a remote data set on a previous command but was not coded for the DB-FREE command.

Resolution: Code the SYSID keyword to avoid execution errors.

2850-00-E APS VSAM ERROR - WHEN REQID KEYWORD IS USED WITH THE 'PERFORM' OPTION OF &VS-ENDBR-UNLOCK-LOGIC, ALL APPLICABLE COMMANDS MUST HAVE THE REQID KEYWORD

The REQID has been used previously in the program but was not specified for this command. The control variable &VS-ENDBR-UNLOCK-CONTROL has been set to "PERFORM" (versus "INLINE").

Resolution: Code the REQID keyword on all applicable commands or change the value of &VS-ENDBR-UNLOCK-LOGIC to "INLINE" in APSCNTL(APVSAMIN).

2860-00-E APS VSAM ERROR - KLEN KEYWORD IS INVALID WHEN USED WITH PREV KEYWORD

The KLEN keyword cannot be used with the PREV keyword. The native CICS STARTBR must not specify a partial key length prior to the CICS READPREV.

Resolution: Remove the KLEN keyword. See the APS Reference for valid keywords.

2870-00-E APS VSAM ERROR - KLEN KEYWORD IS INVALID WHEN USED WITH ESDS OR RRDS

The KLEN keyword cannot be used when processing ESDS or RRDS files.

Resolution: Remove the KLEN keyword.

2880-00-E APS VSAM ERROR - DB-ERASE CANNOT BE USED FOR ESDS FILES

The DB-ERASE command function is invalid for ESDS files.

Resolution: See the APS Reference on ESDS file processing.

2890-00-E APS VSAM ERROR - REQID VALUE MUST BE A NUMERIC DIGIT BETWEEN 0 AND 9, REQID: value

The REQID value is not a single digit between 0 and 9.

Resolution: Use the correct REQID value. See the APS Reference for REQID information.

2900-00-E APS VSAM ERROR - &VS-ENDBR-CONTROL OPTION MUST HAVE 'APS' VALUE TO USE 'ALL' KEYWORD

The control variable &VS-ENDBR-CONTROL must be set to "APS" to use the DB-FREE keyword ALL.

Resolution: Use separate DB-FREE commands for each file, or change the value of &VS-ENDBR-CONTROL to "APS" in APSCNTL(APVSAMIN).

2910-00-E APS VSAM ERROR - &CIC-APS-EIBRCODE VARIABLE MUST BE SET TO 'YES' WHEN USING VSAM COMMAND VERSION II

APS VSAM VERSION II must have the APS CICS EIBRCODE structure included.

Resolution: Set &CIC-APS-EIBRCODE to "YES" in APSCNTL(APCICSIN).

2920-00-E APS VSAM ERROR - CONTROL OF ENDBR AND UNLOCK FUNCTIONS MUST BE IN 'USER' MODE TO USE THE DDN KEYWORD

The DDN keyword may only be used when the control variables &VS-ENDBR-CONTROL and &VS-UNLOCK-CONTROL are set to "USER".

Resolution: Set &VS-ENDBR-CONTROL and &VS-UNLOCK-CONTROL to the "USER" value in APSCNTL(APVSAMIN).

3010-00-E FOR RECORD: *recordname* NO PRIMARY KEY DEFINED

An error occurred while processing VS-VALIDATE-KEY. The developer used the default (primary key) but the subschema did not have primary key defined.

Resolution: Check subschema.

3020-00-E ERROR IN VALIDATE KEY

An error occurred while processing VS-VALIDATE-KEY. This message accompanies 3010.

4010-00-I HOLD OPTION WITH SINGLE STRING MAY PRODUCE EXCESSIVE CODE

This message occurred while processing VS-OBTAIN-NEXT. The developer has coded the OBTAIN-NEXT/DB-OBTAIN with the hold parameter. This informational item means that an ENDBROWSE and READ for update will be generated.

4020-00-I RESET KEYWORD IS IGNORED FOR ENTRY SEQUENCED DATA SET (ESDS) AND OS SEQUENTIAL FILES

This message occurred while processing MVS VS-OBTAIN-NEXT. The developer has coded the OBTAIN-NEXT/DB-OBTAIN with the RESET parameter. The RESET parameter is ignored.

4040-00-I PROCOPT VIOLATION FILE: *file*

This message occurred while processing VS-VALIDATE-PROCOPT and when &VS-PROCOPT-WARNING = 1. The developer has coded a VSAM macro that is not allowed according to the file processing option in the subschema.

4050-00-W PROCOPT VIOLATION FILE: *file*

This message occurred while processing VS-VALIDATE-PROCOPT and when &VS-PROCOPT-WARNING = 0. The developer has coded a VSAM macro that is not allowed according to the file processing option in the subschema.

4510-00-I APS VSAM INFORMATION - KEYWORD: *keyword* IGNORED FOR MVS/VSAM

The named keyword was ignored for APS MVS VSAM. The ignored keyword would have no function in the MVS VSAM environment.

4530-00-I APS VSAM INFORMATION - KEYLENGTH SPECIFIED LARGER THAN DEFINED LENGTH - USING LENGTH DEFINED TO SUBSCHEMA

The number specified for the KLEN keyword was greater than the length defined to the program Subschema. The Subschema-defined length was used.

Resolution: Correct the key length specification if necessary.

4540-00-I APS VSAM INFORMATION - DB-FREE IGNORED FOR MVS/VSAM

The DB-FREE command performs CICS-specific functions only and has been ignored for the APS MVS VSAM program.

4550-00-I APS VSAM INFORMATION - FILE: *filename* IS VARIABLE LENGTH FIELD: *fieldname* MUST BE UPDATED WITH RECORD LENGTH PRIOR TO DB-STORE AND DB-MODIFY

The named field must be updated with the calculated record length prior to executing DB-STORE and DB-MODIFY commands.

Resolution: See the APS Reference for more information concerning variable length file processing.

4560-00-I APS VSAM INFORMATION - RECORD(S) IN SUBSCHEMA NOT REFERENCED BY DB COMMANDS HAVE BEEN EXCLUDED FROM PROGRAM STORAGE

Record descriptions for files that have not been used in a DB command have not been included into the program's storage.

Resolution: See the member APSCNTL(APVSAMIN) for the control variable &VS-EXCLUDE-FILES. This variable may be modified to include all record descriptions, whether they were referenced or not.

4570-00-I APS VSAM WARNING DB-OPEN AND DB-CLOSE IGNORED FOR CICS VSAM PROGRAMS

\$DB-OPEN and \$DB-CLOSE commands found in a CICS program have been ignored.

Resolution: These commands should not appear in a CICS program. Check for a correct DC target.

5010-00-E RECORD NAME: *recordname* VSAM TYPE RECORD: ONLY VSAM TYPE RECORDS ARE SUPPORTED FOR MICRO FOCUS V-ISAM

Micro Focus's V-ISAM supports only KSDS type records.

Resolution: Use KSDS fixed length records.

5020-00-E OPTION: *option* OPTION IS NOT SUPPORTED BY MICRO FOCUS V-ISAM

This option is not supported by Micro-Focus.

Resolution: Remove the option.

5030-00-E OPTION: *option* OPTION IS NOT SUPPORTED BY MICRO FOCUS V-ISAM IGNORED

This option is not supported by Micro-Focus.

Resolution: Remove the option.

5040-00-W RECORD NAME: *recordname* TYPE RECORD: ONLY FIXED LENGTH RECORDS ARE SUPPORTED FOR MICRO FOCUS PC-CICS

Micro Focus's PC-CICS product with V-ISAM does not support variable length records.

Resolution: Change records to a fixed length.

5060-00-E COMMAND: *command* COMMAND IS NOT SUPPORTED BY MICRO FOCUS PC-CICS

This command is not currently supported by Micro Focus.

Resolution: Remove this command.

6065-00-E OPTION: *option* OPTION IS NOT SUPPORTED BY MICRO FOCUS PC-CICS

This command is not supported by Micro Focus.

Resolution: Remove this option.

8010-00-F VSMDDBMAC INCLUDED TWICE-REMOVE EXTRA INCLUDE

This error occurred while processing VSMDDBMAC.

Resolution: Remove extra include of APSMACS(VSMDDBMAC).

8020-00-F VSMMPHYS INCLUDED TWICE-REMOVE EXTRA INCLUDE

This error occurred while processing VSMMPHYS.

Resolution: Remove extra INCLUDE of APSMACS(VSMMPHYS).

8200-00-F APS VSAM FATAL - APVSMDB INCLUDED TWICE

The APSMACS member APVSMDB has been included more than once.

Resolution: Remove extra inclusion of APSMACS(APVSMDB).

8210-00-F APS VSAM FATAL - APVSMCIC INCLUDED TWICE

The APSMACS member APVSMCIC has been included more than once.

Resolution: Remove extra inclusion of APSMACS(APVSMCIC).

8220-00-F APS VSAM FATAL - APVSMMVS INCLUDED TWICE

The APSMACS member APVSMMVS has been included more than once.

Resolution: Remove extra inclusion of APSMACS(APVSMMVS).

8230-00-F APS VSAM COMMAND VERSION INVALID

The CARDIN variable &VS-COMMAND-VERSION has been assigned an invalid value.

Resolution: Assign the proper value to &VS-COMMAND-VERSION. See the member CNTL(APSDBDC) for &VS-COMMAND-VERSION. Also see the APS Reference.