

APPX Software, Inc.

SPEED II to APPX 3.0.0 Conversion Log Messages

(using Customized Conversion Utility 2.00 Version 05 October 21, 1996 by APPX Software, Inc.)

Note: Refer to the APPX Conversion Guide (APPX CG) for any messages with no explanation. Messages beginning with 'Note:' are usually for information only but check the reference item if one is given.

SECTION 3: Data Dictionary - Domains (from SP2 'Same As' Root Fields)

Message: **Note: Field Has SP2 Input Mask Below -**

ASI: This message prints for any Domain which is being created with an input mask. The input mask is printed on the line which follows this message.

Message: **Mask Above Too Long - Mask Deleted**

ASI: 3.2 This message prints if a Domain has an input mask longer than 60 positions. If the mask is longer than 60 positions, then the mask is removed and input validation must be performed thru the use of commands.

Message: **Invalid Character 'x' at Position nn in Mask Set to '!' - Programming Needed**

ASI: 3.8

Message: **DomainName AAA RootField Resolve Duplicate Domain Name for: FileName Seq# FieldName**

ASI: 3.10

Message: **DomainName AAA RootField Confirm Cross-Application Is Converted and Root Field Is Domain in Cross-Appl**

ASI: 1.72, 3.6, 3.9

SECTION 4: Data Dictionary - Files
and
SECTION 5: Data Dictionary - Work Fields

Message: **Non-Domain Field Has Same Name As Domain - Change Domain Name using Chg All Ref**

ASI: 3.10

Message: **Revise Reference to 'PF' in Initial Value Below:**

Message: **Revise Reference to 'SPEED' in Initial Value Below:**

Message: **Revise Reference to 'EXPLAIN' in Initial Value Below:**

ASI: 2.30 (flagged in V05 after 08/27/96) The appropriate message is printed if the initial value contains any one of the following phrases: 'PF', 'Pf', 'pf', 'SPEED', 'Speed', 'speed', 'EXPLAIN', 'Explain', or 'explain'. The value is printed on the line which follows the message.

Message: **Inspect Truncated Initial Value Below -**

ASI: 2.16 This message is printed when a field has an initial value which is longer than 60 characters. The value is printed on the line which follows the message.

Message: **Note: Field referencing FORMAT Domain Has Initial Value Below -**

ASI: 4.4

Message: **Delete Protect Field - Check Record Protection Fields in APPX**

ASI: 4.8, 1.75

Message: **Key Protect Field - Check Record Protection Fields in APPX**

ASI: 4.8

Message: **Both Key/Delete Protect Field - Check Record Protection Fields in APPX**

ASI: 4.8, 1.75

Message: **Note: Field Has SP2 Input Mask Below -**

Message: **Mask Above Too Long - Mask Deleted**

ASI: 2.16, 4.12, 5.4, 9.36

Message: **Invalid Character 'x' at Position mn in Mask set to '!' - Programming Needed**

ASI: 3.8, 4.26, 5.14

Message: **Record Access Field - Check Record Protection Fields in APPX**

ASI: 1.56, 4.8

Message: **Note: TEXT Field Has Initial Value Below -**

ASI: 4.4, 5.11

Message: **Inspect Truncated Initial Value Above**

This message prints if a text field has an initial value longer than 60 characters.

SECTION 4: Data Dictionary - Files
and
SECTION 5: Data Dictionary - Work Fields
(Continued)

Message: **Revise Overlapping Concatenations**

Message: **Revise File Name**

This message prints if a file name includes '\$', '@', or '#'.

Message: **Note: Indexed/Permanent/Disk File**

Note: 1-Record/Pseudo-File

Note: Consecutive/Pseudo-File

Note: Indexed/Pseudo-File

Note: 1-Record/Permanent

Note: Consecutive/Permanent

Note: Indexed/Permanent

ASI: 2.8, 4.20, 4.30, 4.31, 4.32 A message is printed for each file.

Message: **Inspect Use of File Creation Type 2 Memory File - Set to MEMORY/RELATED**

Message: **Check APPX DD for File Creation Type 1 Memory File**

ASI: 4.1

SECTION 6: Menu Processes

and

**SECTION 7: Job Processes (from SP2 Jobs, Query Functions,
and Displayed Disposition Functions)**

Message: **Revise Use of Menu Item #0**

ASI: 6.3

Message: **Revise Text "ENTER" or "RETURN" As Needed on following Menu Screen Line:**

ASI: 6.2

Message: **Revise Text 'PF' As Needed on following Menu Screen Line:**

Message: **Revise Text 'SPEED' As Needed on following Menu Screen Line:**

Message: **Revise Text 'EXPLAIN' As Needed on following Menu Screen Line:**

ASI: 2.30, 6.4 (SPEED/EXPLAIN flagged in V05 after 08/27/96) The appropriate message is printed if the text in a row on an menu image contains any one of the following phrases: 'PF', 'Pf', 'pf', 'SPEED', 'Speed', 'speed', 'EXPLAIN', 'Explain', or 'explain'. The message which follows this one contains the row of text.

Message: **Note: Deleted MENU Item #nn to App: AAA Menu: MenuName**

Message: **Note: Separate Task Set to "Y" on OUTPUT Job Step**

ASI: 7.21

Message: **Note: Separate Task Set to "Y" on UPDATE Job Step**

ASI: 7.21

Message: **CD Set = CANCEL PARENT for MENU to App: AAA Menu: MENU NAME**

ASI: 6.7

Message: **Inspect OUTPUT - Multiple Sorts**

Message: **Inspect UPDATE - Multiple Sorts**

Message: **Inspect Cross-Application Reference to EXTERNAL Function in AAA**

Message: **Insert CANCEL NOT OK Job Step after STATUS Job Step to Overcome Bug**

ASI: 1.4, 7.17 This may not be worth doing until other CANCEL OK bugs have been addressed and it is known how CANCEL OK is supposed to behave.

Message: **Inspect Cross-Application Reference to DISPOSITION Function in AAA**

Message: **Note: Converted Function Type from SP2 QUERY to JOB**

Message: **Note: Converted Function Type from SP2 Query to JOB
& Renamed Above as FUNCTION NAME**

Message: **Inspect Cross-Application Reference to SP2 QUERY Function in AAA**

Message: **Revise Use of SELECT COMPANY on Job Step to Company CCC**

ASI: 7.3

SECTION 6: Menu Processes

and

SECTION 7: Job Processes (from SP2 Jobs, Query Functions,
and Displayed Disposition Functions)

(Continued)

Message: **Revise Use of SELECT COMPANY on Job Step - No Company Specified**

ASI: 7.3

Message: **Revise Use of Select Company to Company CCC**

ASI: 6.5

Message: **Revise Use of Select Company - No Company Specified**

ASI: 6.5

Message: **Revise Use of BEGIN LIVE OPNS on Job Step**

ASI: 7.15

Message: **Revise Use of BEGIN LIVE OPNS as Menu Item**

ASI: 6.1

Message: **WAIT Converted to LOGOUT**

Message: **Revise Use of END APPLICATION On Job Step**

ASI: 7.16

Message: **Inspect Use of END APPLICATION as Menu Item**

ASI: 6.6

Message: **Inspect Use of GOTO - NEXT CHILD ID Set to XXXX**

ASI: 7.18

Message: **Revise Use of RETURN MENU to App: AAA Menu: MENU NAME**

Message: **Revise Use of RESTORE COMPANY**

ASI: 7.3

Message: **QUERY BUILTIN Cannot Be Converted**

Message: **SET ALARM Cannot Be Converted**

Message: **PRINT USAGE LOG Cannot Be Converted**

Message: **TRANSFER USAGE LOG Cannot Be Converted**

Message: **Inspect Job for Separate Task OK**

ASI: 1.33, 7.21

Message: **Note: Job Is Used as Job Step in Other Job(s)**

ASI: 1.32, 7.21, 12.18

Also, this condition should be considered before adding a standard disposition to an output job which has none.

SECTION 6: Menu Processes

and

SECTION 7: Job Processes (from SP2 Jobs, Query Functions,
and Displayed Disposition Functions)

(Continued)

Message: **Note: Inspect Job for Proper Use of Function Code**

ASI: 7.6, 7.7

Message: **Note: Job Sets CANCEL NOT OK**

ASI: 7.17

Message: **Note: Job Has 2 or More OUTPUTs Using Same Sort**

ASI: 7.20, 10.16, 12.16

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!

Message: **Inspect End-of-Process Event Point in Query**

ASI: 12.11

Message: **Revise Combined Event Points**

ASI: 9.12, 9.42 **CAUTION: Not all combined event points are being flagged!**

Message: **Set Alt Commands Skipped - Alt # > 1**

ASI: This message is printed if an input or output process has commands present in the Set Alternate No. command series and the window has an Alternate No. greater than 1. The conversion utility does not convert these commands since they are not executed in SP2. No action is needed.

Message: **Revise Use of (PHASE)**

APPX CG: In APPX, (PHASE) becomes OPERATIONAL PHASE. This predefined field may be compared against or set only to one of the constant literals INITIAL SETUP, LIVE OPERATIONS, or RECOVERY PROCESSING (or to a field whose value is one of these literals). Any statements that set or compare OPERATIONAL PHASE to another field are flagged and must be revised.

Message: **Revise Use of (PF KEY) On Display Only Window**

ASI: 9.21

Message: **Inspect Use of (PF KEY) 1**

APPX CG: In APPX, PF keys 1 and 2 are combined into the SCAN key. The statements should be inspected to see if the distinction between keys 1 and 2 is significant.

Message: **Inspect Use of (PF KEY) 2**

APPX CG: In APPX, PF keys 1 and 2 are combined into the SCAN key. The statements should be inspected to see if the distinction between keys 1 and 2 is significant.

Message: **Revise Use of (PF KEY) 6**

Message: **Revise Use of (PF KEY) 7**

Message: **Revise Use of (PF KEY) 8**

Message: **Inspect Use of (PF KEY) 13**

Message: **Revise Use of (PF KEY) 14**

Message: **Inspect Use of (PF KEY) 16**

Message: **Revise Use of (PF KEY)**

Message: **Inspect Use of (MODE)**

Message: **Revise Use of (MODE)**

ASI: 8.12, 9.12

Message: **Revise Use of (ENTRY)**

Message: **Inspect Use of (ENTRY)**

ASI: 8.20, 9.9, 9.10, 9.11

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!
(Continued)

Message: **Revise Use of (SCAN)**

Message: **Inspect Use of (INCLUDE)**

Message: ERROR **Revise Use In End-of-Function Command Series**

ASI: 11.3 This message prints if an ERROR command is found in the End of Function command series for an update function.

Message: IF EXIST **Inspect AAA FILENAME For Shared Company Use**

ASI: 8.3, 8.17

Message: BEG AT **Inspect Usage of BEG AT**

ASI: 8.10/OK, 8.30

Message: AT FIELD **Revise AT FIELD in Non-Image Event Point**

ASI: 8.21

Message: DISPLAY **Revise DISPLAY in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: BLINK **Revise BLINK in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: DELETE **Inspect Use for DELETE after WRITE**

ASI: 2.29, 8.8

Message: WRITE **AAA FILENAME Inspect Unique Keys For Date/Time**

ASI: 8.33, 8.36/(8.31)

Message: BEG READ **Inspect for BEG AT / END AT**

ASI: 8.10/OK

Message: DATE ADD **Inspect DATE ADD: AAA FieldName
Unit n AAA Fieldname**

ASI: 8.15

Message: SET MNTH **Inspect Usage of SET MNTH Short**

ASI: 8.16

Message: WARNING **Revise Use In End-of-Function Command Series**

ASI: 11.3 This message prints if an WARNING command is found in the End-of-Function command series for an update function.

Message: END AT **Inspect Usage of END AT**

ASI: 8.10/OK

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!

(Continued)

Message: NO INPUT **Revise NO INPUT in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: READNEXT **Inspect for READNEXT Within BEG READ Loop**

ASI: 8.9

APPX CG: READNEXT within a BEG READ/END READ loop operates slightly differently in APPX than in SPEED II. In SPEED II, a BEG READ command affects the current file position and, thus, the record read by a READNEXT within the loop. In APPX, a BEG READ statement has no affect on what record is read by a subsequent READNEXT.

If the conversion program detects READNEXT following a BEG READ statement in the command series, it is reported in the conversion message. The BEG READ may not necessarily be related to the same file as the READNEXT; the conversion program does not check for this (if the files are not the same, the conversion message can be ignored).

The APPX statements should be inspected to see if the READNEXT is within a BEG READ/END READ loop on the same file. If so, a BEG AT should be added before the READNEXT to read the desired record.

Message: READNEXT **Inspect for BEG AT / END AT**

ASI: 8.9, 8.10/OK

Message: CNV ZONE **Revise Use of CNV ZONE**

ASI: 8.37

Message: CNV FLT **Revise Use of CNV FLT**

Message: BLANK **Revise BLANK in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: OK INPUT **Revise OK INPUT in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: OK INPUT **AAA FIELDNAME Field Not On File**

Message: OK INPUT **AAA FIELDNAME Cross Appl Field NOF**

Message: OK INPUT **AAA FIELDNAME Inspect - Not In PCF**

ASI: 9.25 All OK INPUT commands which reference a field which is not in the input function PCF file are listed.

Message: BRIGHT **Revise BRIGHT in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: DIM **Revise DIM in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!

(Continued)

Message: SELECT **Revise Use of SELECT**

Message: SELECT **SELECT not converted - No Extra TF Level**

APPX CG: In SPEED II, the SELECT statement permits a variable value for *Shared Y/N*, SELECT is converted to a CLOSE followed by an OPEN. APPX does not permit a variable value for this in the OPEN statement. The conversion program converts this by inserting an IF statement to test the value of the variable, but can do this only if there is at least one level remaining in the T/F field on the SELECT statement.

Message: SELECT **Check for Subsequent IF EXIST on AAA FILENAME**

ASI: 8.14, 10.25

APPX CG: In SPEED II, the SELECT statement is used to open a file for another company. This is converted to a CLOSE followed by an OPEN, each of which is preceded by a SET statement setting the predefined field NEXT DATABASE to the database ID (company ID). If this file is subsequently checked using an IF EXIST statement, it is necessary to manually insert prior to the IF EXIST statment a SET statement setting NEXT DATABASE to the database ID.

Message: POSITION **Revise POSITION in Non-Image Event Point**

ASI: 9.8, 9.14, 10.12

Message: END FN **Revise Use of EXIT in APPX Query**

ASI: 1.12, 8.26

Message: * **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**
** **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**
ERROR **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**
WARNING **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**
MESSAGE **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**
CANCEL **Revise Reference To 'PF' / 'SPEED' / 'EXPLAIN'**

ASI: 2.30 (SPEED/EXPLAIN flagged in V05 after 08/27/96) The appropriate message is printed if the command contains any one of the following phrases: 'PF', 'Pf', 'pf', 'SPEED', 'Speed', 'speed', 'EXPLAIN', 'Explain', or 'explain'.

Message: **AAA FIELDNAME Field Not On File**

ASI: This message is printed when attempting to determine if a total field is being used in a non-total command.

Message: **AAA FIELDNAME Cross Appl Field NOF**

ASI: This message is printed when attempting to determine if a total field is being used in a non-total command.

Message: **Inspect SET TOT on AAA FIELDNAME**

ASI: 1.66, 8.13

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!

(Continued)

Message: SET **Inspect COMMAND On Total-Type Field**
 COMPUTE **Inspect COMMAND On Total-Type Field**
 RESTORE **Inspect COMMAND On Total-Type Field**

ASI: 8.13, 10.23, 11.4 A message is printed if the left operand for one of these statements is a total field.

Message: TOTAL **AAA FIELDNAME Inspect - Rounding**

ASI: 8.27

Message: TOTAL **AAA FIELDNAME Field Not On File**

ASI: This message is printed when checking the precision of the operands for a TOTAL command.

Message: TOTAL **AAA FIELDNAME Cross Appl Field NOF**

Message: TOTAL **Revise Rounding: AAA FIELDNAME**
 with: AAA FIELDNAME

ASI: 8.27

Message: **AAA FIELDNAME Field Not On File**

ASI: This message is printed when validating a constant against the receiving field.

Message: **AAA FIELDNAME Cross Appl Field NOF**

ASI: This message is printed when validating a constant against the receiving field.

Message: **Revise Invalid Date Constant**

Message: CNV BIN **Inspect Usage: APPX Rounds - SP2 Truncates**

ASI: 8.7 All CNV BIN commands are flagged.

Message: CNV BIN **AAA FIELDNAME Field Not On File**

ASI: This message prints when checking the operand of a CNV BIN command to see if it is a 3 byte alpha field.

Message: CNV BIN **AAA FIELDNAME Cross Appl Field NOF**

ASI: This message prints when checking the operand of a CNV BIN command to see if it is a 3 byte alpha field.

Message: CNV BIN **Revise CNV BIN - Uses 3-Byte Alpha**

APPX CG: SP2 permits a CNV BIN command using a three-byte alpha field. APPX does not permit this. Any instances of a CNV BIN command using a three-byte alpha field must be revised.

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!

(Continued)

Message: IF **Revise Relation**
 AND **Revise Relation**
 OR **Revise Relation**

ASI: 8.34 This message prints if the relation operator is 'BW'

Message: **Inspect Use of (ALTERNATE NUMBER)**

ASI: 8.23 This message prints if the command is not in the SP2 *Set Alternate No.* command series.

Message: **Inspect Use of (RECORD NUMBER) If Multi-Level**

ASI: 8.24 Note that the conversion log message is misleading. Until this feature is implemented in APPX, it does not work at any level.

Message: **Inspect Use of (FUNCTION CODE) In Sort**

ASI: 12.11

APPX CG: In SPEED II, a sort function is completed before a subsequent output or update. Consequently, if (FUNCTION CODE) is set in a sort function, a subsequent output or update can be executed conditionally based on the (FUNCTION CODE) value. In APPX, a query process (which performs the sort) is executed concurrently with an output or update process, and will begin execution before the query sets (PROCESS CODE), which is the APPX equivalent of (FUNCTION CODE).

Message: **Revise (PRINT FILE) For Portability**

Message: **Inspect Use of (SCAN) If Multi-Level**

Message: **Inspect Use of (NEXT COMPANY)**

Message: **Inspect Use of (CURSOR COLUMN)**

ASI: 8.18, 9.15

Message: **Revise (PRINT LIBRARY) For Portability**

Message: **Revise (PRINT VOLUME) For Portability**

Message: **Revise (PRINT SIZE FACTOR) For Portability**

Message: SET **(PF KEY) Not In Valid Event Point**

ASI: 9.32 All SET commands which modify the value of (PF KEY) are listed if they are not in the Pre-Display or Option Intercept command series in an input function.

Message: SET **AAA FIELDNAME Field Not On File**

Message: SET **AAA FIELDNAME Cross Appl Field NOF**

Message: SET **AAA FIELDNAME = Num Use CNV TEXT?**

ASI: 8.28 To find commands setting an alpha field from an indexed variable (the only circumstance specifically known to be a problem), run the APPX Software, Inc.UTL CS utility "APPX STMT 'Format 5' List" and enter "ALPHA" as basic field type 1, "NUMERIC" as basic field type 2, and "---" as app ID 2. If any found, use a numeric work field to set the alpha field, rather than the indexed variable.

SECTION 8: Commands: Use APPX ILF X-Ref (reliable) and APPX PDF X-Ref (not so reliable) from item 2.9. Check for APPX Inquiry Process too!
(Continued)

Message: **Revise Query To Eliminate Updating**

ASI: 12.2, 12.11

Message: **Inspect Query For Updating**

ASI: 12.11

Message: RUN **Revise Xtrnl Fn For Portability**

Message: RUN **Revise Xtrnl Fn For Portability /X-Appl Ref AAA**

Message: RUN **Inspect X-Application Reference to AAA**

Message: RUN **WAIT Converted To LOGOUT**

Message: RUN **Revise BEGIN LIVE OPNS - Move To Menu Item**

Message: RUN **SET ALARM Cannot Be Converted**

Message: RUN **PRINT USAGE LOG Cannot Be Converted**

Message: RUN **TRANSFER USAGE LOG Cannot Be Converted**

Message: RUN **INTERNAL Cannot Be Converted**

Message: RUN **MENU - Inspect Invocation Type**

Message: RUN **JOB - Inspect Invocation Type**

Message: RUN **INPUT - Inspect Invocation Type**

Message: RUN **OUTPUT - Inspect Invocation Type**

Message: RUN **UPDATE - Inspect Invocation Type**

Message: RUN **INQUIRY - Inspect Invocation Type**

Message: RUN **STATUS - Inspect Invocation Type**

ASI: 8.19

SECTION 9: Input Processes

SP2 Input Function Windows

Message: **AAA FileName Cross Application PCF**

ASI: 1.74, 1.75, & comment below

ASI: All input processes with a PCF which is in a different application are listed. The conversion program may not set the default mode and the allowable modes properly if the PCF is in a different application and the PCF is a working storage (pseudo) file. Note: Default mode for an input process with a working storage PCF should be ADD; ADD mode is OK, CHANGE mode and DELETE mode are not OK.

Message: **AAA FileName PCF Not On File**

ASI: Any input process which has a PCF in the conversion application which is not on file is listed. These processes do not need to be converted and should have an appropriate CANCEL statement with comments added to the start of process event point. Note that PCF's in other applications are not currently checked to see if they are on file.

Message: **AAA FileName Revise One-Record Input Function**

ASI: 9.17 All One-Record input processes are listed.

Message: **PROCESS NAME - Lower Level Process Created**

ASI: 8.35, 9.6, 9.8, 9.12, 9.16, 9.22, 9.41 All lower level input processes are listed. Item 9.8 (secondary entry) is also flagged separately.

Message: **Inspect - Binding Key & Initial Access Key Are Different**

ASI: 9.31 All lower level windows in which the binding key and the initial access key are different are listed.

Message: **PROCESS NAME - Has Mod Log**

ASI: 9.40 All input process which have a mod log specified are listed. APPX has a bug which prevents mod logs from printing when the input process is invoked RELATED (as is normally the case when invoked from a job). A good work-around is to run the input from a menu as a DETACHED process or from the job as SUBPROCESS or DETACHED.

Message: **Inspect 'Repeating' Window**

ASI: 8.23, 9.9, 9.11 All repeating windows are listed.

Message: **Inspect 'Display Only' Input Window**

ASI: 9.21, 9.22 All Display Only input windows are listed.

Message: **Inspect Alternate Windows With Diff. Attributes - Frame Pos, Sz, & Scrolling**

ASI: 9.23 This message is printed when all alternate windows in a group do not have the same size, position, and scrolling attributes. Scrolling alternates do not scroll the same as SP2 when the windows have different sizes.

Message: **Inspect 'Set Alternate No.' Command Series**

ASI: 1.42, 8.23, 9.11, 9.26 All windows with commands present in the Set Alternate No. command series are listed.

SECTION 9: Input Processes

SP2 Input Function Windows (continued)

Message: **Inspect 'Set Default Value' Command Series**

ASI: 9.37, 9.38, 9.42. 9.47 All windows with commands present in the Set Default Value command series are listed.

Message: **Inspect 'PF Key Intercept' Command Series**

ASI: 9.35 All windows with commands present in the PF Key Intercept command series are listed.

Message: **Note: Scrolling Window**

ASI: 9.39 All scrolling windows are listed.

Message: **Revise Frame/Image Position/Size**

This message has been removed.

Message: **Revise Alternate Number to be Less Than Or Equal to 255**

If a window has an alternate number greater than 255, the conversion program sets ALTERNATE IMAGE NUMBER to 255 and prints this message.

APPX CG: SP2 permitted alternate window numbers to range from 1 to 999. APPX permits alternate window numbers to range from 1 to 255. Applications that use alternate window numbers from 256 to 999 must be revised.

Message: **Revise Reference To 'PF' On Input Image - See Text Below**

Message: **Revise Reference To 'SPEED' On Input Image - See Text Below**

Message: **Revise Reference To 'EXPLAIN' On Input Image - See Text Below**

ASI: 2.30, 9.34 (SPEED/EXPLAIN flagged in V05 after 08/27/96) The appropriate message is printed if the text in a row on an input image contains any one of the following phrases: 'PF', 'Pf', 'pf', 'SPEED', 'Speed', 'speed', 'EXPLAIN', 'Explain', or 'explain'. The message which follows this one contains the row of text.

SECTION 9: Input Processes

SP2 Input Function Window Items

Message: **AAA FIELDNAME Input Item Not On File**

This message is printed if an input item is not on file in the data dictionary.

Message: **AAA FIELDNAME Cross Application Input Item Not On File**

This message is printed if an input item from another application is not on file or if the other application is not present at conversion time.

Message: **AAA FIELDNAME Inspect Item With Auto-Sequence & Increment Value**

ASI: 9.18, 9.49 All items with Seq = 'Y' and increment value GT 0 are listed.

Message: **AAA FIELDNAME Inspect Auto-Sequence Item With No Increment Value**

ASI: 9.18, 9.49 APPX does not allow these two items to be specified separately. APPX only allows entry of increment value. Sequence Y/N is system maintained and is hidden.

Message: **AAA FIELDNAME Inspect Item With Increment Value But Seq = 'N'**

ASI: 9.18, 9.49 APPX does not allow these two items to be specified separately. APPX only allows entry of increment value. Sequence Y/N is system maintained and is hidden.

Message: **AAA FIELDNAME Inspect Use of 'Secondary' Item (Type 2) On Window**

ASI: 9.8, 9.27 All items on input windows with Type=2 are listed.

Message: **AAA FIELDNAME Inspect Use of 'Setup' Item (Type 4) On Window**

ASI: 9.2 All items on input windows with Type=4 are listed.

Message: **AAA FIELDNAME DLU Field AAA FIELDNAME Not On File**

ASI: This message is printed if a field being used to perform a data lookup is not on file in the data dictionary.

Message: **AAA FIELDNAME Cross Appl DLU AAA FIELDNAME Not On File**

ASI: This message is printed if a field being used to perform a data lookup in another application is not of file or if the other application is not present at conversion time.

Message: **AAA FIELDNAME Invalid DLU Key Length**

Message: **AAA FIELDNAME Incomplete DLU Using This Key**

ASI: 1.55 (flagged in V05 after 08/27/96) This message is printed if unable to validate the SP2 Auto Access path.

Message: **AAA FIELDNAME Inspect Usage of Modifiable Non-PCF Field**

ASI: 9.48 (flagged in V05 after 08/27/96)

SECTION 10: Output Processes (Check for APPX Inquiry Process! See item 13.2.
Also, see items 10.10, 10.17, & 10.21.)

SP2 Output Function Windows

Message: **AAA FILENAME PCF Not On File**

Message: **AAA FILENAME Revise One-Record Key Entry Frame**

ASI: 13.4

Message: **Inspect Truncated Report Title**

This message prints if the report title is longer than 60 characters and has been truncated by the conversion program. Since the report title is also used as the *in progress* message, see bugs 1.61 & 1.69.

APPX CG: In SP2, the report title can be up to 66 characters. In APPX, this can be a maximum of 60 characters.

Message: **AAA FILENAME Cross Application PCF**

Message: **PROCESS NAME - Lower Level Process Created**

ASI: 8.35, 10.5, 10.6, 10.29 (10.29 flagged separately in V05 after 08/27/96; 10.6 auto-totaling on lower level is also flagged separately in V05)

Message: **PROCESS NAME - Lower Level Has Subheading Frame**

Message: **PROCESS NAME - Lower Level Has Subtotal Frame**

ASI: 10.29 (flagged in V05 after 08/27/96)

Message: **Revise Frame/Image Position/Size**

This message has been removed.

Message: **Inspect Alternate Windows With Diff. Attributes - Position, Size, & Scrolling**

ASI: 1.63, 10.26 This message is printed if all alternate windows do not have the same size, position, and scrolling attributes.

Message: **Revise Begin Buffer On Start of Range**

ASI: 10.20

APPX CG (is this correct?): In SP2, a subtotal window is defined to print beside a detail window. In APPX, this is handled with "buffers." It is necessary, in this case, to manually set START A BUFFER? to Y on the corresponding (i.e, same range field) RANGE-START frame. If there is no corresponding RANGE-START frame, one must be manually created that has START A BUFFER? set to Y; for output images, the image can be left blank and the COMPRESS TYPE set to omit trailing blanks so that nothing actually prints.

Message: **Inspect 'Set Alternate No.' Command Series**

ASI: 8.23, 10.11, 10.18 This message prints for any window which has a Set Alternate No. command series.

Message: **Inspect 'Repeating' Window**

ASI: 8.23 This message is printed for all repeating windows.

Message: **Inspect Scrolling Window**

ASI: 10.31 This message prints for any window which has rows down or rows across greater than one.

SECTION 10: Output Processes (Check for APPX Inquiry Process! See item 13.2.

Also, see items 10.10, 10.17, & 10.21.)

SP2 Output Function Windows (continued)

Message: **Inspect Window With Location 'Beside'**

ASI: 10.20 This message prints for any window with a location of 'Beside'.

Message: **Revise Alternate Number to be Less Than Or Equal to 255**

APPX CG: SP2 permitted alternate window numbers to range from 1 to 999. APPX permits alternate window numbers to range from 1 to 255. Applications that use alternate window numbers from 256 to 999 must be revised.

Message: **Inspect Window With Minimum Extra Lines Greater Than Zero**

ASI: 10.2

SECTION 10: Output Processes (Check for APPX Inquiry Process! See item 13.2.
Also, see items 10.10, 10.17, & 10.21.)

Output Function Window Items

Message: **AAA FIELDNAME Output Item Not On File**

This message is printed if an output window item is not on file in the data dictionary.

Message: **AAA FIELDNAME Cross Application Output Item Not On File**

This message is printed if an output window item from another application is not on file or if the application is not present at conversion time.

Message: **AAA FIELDNAME Revise Use of Auto Total on Lower Level**

ASI: 10.6

Message: **AAA FIELDNAME Note: Expanded Print**

ASI: 10.27

Message: **AAA FIELDNAME Inspect Column Heading - 1st Field On Row Is RJ**

ASI: 10.4 This message prints if the first field on a row in a detail window is right-justified or right-aligned and standard column headings are specified.

Message: **AAA FIELDNAME Revise Use of Total Field on Non-Total Window**

ASI: 8.13, 10.23

Message: **AAA FIELDNAME Has Read Security - Revise DISPLAY Command On Field**

ASI: 4.7, 5.1, 10.1

Message: **AAA FIELDNAME Has Read Security - Revise Global DISPLAY Command**

ASI: 4.7, 5.1, 10.1

Message: **AAA FIELDNAME Has Sign Type: CR**

Message: **AAA FIELDNAME Has Sign Type: DR**

ASI: 10.32 (flagged in V05 after 08/27/96)

Message: **AAA FIELDNAME DLU Field AAA FIELDNAME Not On File**

Message: **AAA FIELDNAME Cross Appl DLU AAA FIELDNAME Not On File**

Message: **AAA FIELDNAME Invalid DLU Key Length**

Message: **AAA FIELDNAME Incomplete DLU Using This Key**

ASI: 1.55 This message is printed if unable to validate the SP2 Auto Access path.

SECTION 11: Update Processes

Message: **Inspect Truncated In Progress Message**

ASI: See bugs 1.61 & 1.69.

APPX CG: In SP2, the *in progress* message can be up to 79 characters. In APPX, it can be a maximum of 60 (59?) characters.

Message: **AAA FILENAME Cross Application PCF**

Message: **PROCESS NAME - Lower Level Process Created**

ASI: 11.2

SECTION 12: Query Processes (from SP2 Sort Functions)

Message: **AAA Filename Cross-Application PCF**

ASI: 2.10

Message: **Note: PRINT RECORD LIMIT Set to nnnnnn - Revise If Not Implemented**

ASI: 12.19

Message: **Revise Relation BL in Enduser Selection
Revise Relation NB in Enduser Selection
Revise Relation BW in Enduser Selection**

ASI: 12.20

Message: **Revise Relation BL in Designer Selection
Revise Relation NB in Designer Selection
Revise Relation BW in Designer Selection**

ASI: 12.20

Message: **Note: No Enduser or Designer Selections**

ASI: 12.4

Message: **Inspect Enduser Selection Expression**

ASI: 1.59, 12.8

Message: **Create Enduser Selection Expression - OR(s) Found**

ASI: 12.8

Message: **Note: Enduser Selection Expression Is Non-Editable**

ASI: 12.14

Message: **Note: Non-Editable Enduser Selection Component(s) Found**

ASI: 12.14

Message: **Revise Selections - ES is OR'ed with DS**

ASI: 12.10

Message: **Inspect Designer Selection Expression**

ASI: 1.59, 12.8, 12.22

Message: **Create Designer Selection Expression - OR(s) Found**

ASI: 12.8, 12.22

Message: **Revise Selections - DS is OR'ed with ES**

ASI: 12.10

Message: **Revise OR on nondisplayed selection record**

APPX: This message has been removed.

Message: **Inspect Impact of PRINT SUMMARY ONLY in Jobs Where This Sort Is Used**

ASI: 12.18 (flagged in V05 after 08/27/96)

SECTION 13: Inquiry Processes (from SP2 Output Functions invoked as INQUIRY)

Message: **Note:** SP2 Output Converted to Both APPX Output & APPX Inquiry

ASI: 2.9

Message: **Note:** SP2 Output Converted to Only APPX Inquiry

ASI: 2.9

SECTION 14: Status Processes - (consider 14.1, 14.3)

Message: **Note:** SP2 Screen Line 23 Message for WARNING printed below -

ASI: 14.2

Message: **Note:** SP2 Screen Line 23 Message for ERROR printed below -

ASI: 14.2

SP2 DISPOSITION Functions:

Message: **Revise for Portability**

ASI: 7.9, 7.10, 15.1

This message prints for any disposition function which specifies a value for PRINT CLASS, FORM, PRINTER, SPOOL TO WP, WP VOLUME, JOB CLASS, or SPOOL SYSTEM. The message will also print for any disposition function which specifies PRINT MODE of '0'.

APPX CG: This message is generated for any SPEED II disposition function that specifies a default value for any of the following:

Print Class
Print Mode (if set to 0)
Form
Printer
Spool to WP
WP Volume
Job Class

The word processing interface is not currently available in APPX, and the other items are host processor-dependent. To provide greater portability for applications, it may be desirable to add to the application designer-maintained work fields or a user maintained file containing values for the above.

Message: **Disp'n Fn *DispositionFunctionName* Changed To *ProcessName***

SP2 EXTERNAL FUNCTIONS:

Message: **Revise for Portability**

This message prints for all external functions.

APPX CG: All external functions are listed. The corresponding APPX subroutine process must be inspected and revised as described above.

Message: **Xtrnal Fn *ExternalFunctionName* Changed To *ProcessName***

SP2 QUERY Functions:

Message: **Note: Created JOB Process for SP2 Query**

ASI: 1.35

Message: **with QUERY Process: *QueryProcessName***

Message: **with QUERY Process: *QueryProcessName* in X-App: AAA**

Message: **with OUTPUT Process: *OutputProcessName***

Message: **with OUTPUT Process: *OutputProcessName* in X-App: AAA**

Message: **Query Fn *QueryFunctionName* Changed To *ProcessName***

List of APPX Event Points & Equivalent SP2 Command Series (if any)

<u>EP#</u>	<u>APPX Event Point</u>	<u>SP2 Command Series</u>
Process Level:		
1	Start of Process	Start of Function (except Sort) or Status or Command Library Commands
2	Set Run-Time Defaults	Set Default Values
3	Post PCF Read	Post Load
4	Pre-PCF Update	Pre-Save
5	Post PCF Update	Post Save
6	End of Process	End of Function (except Sort)
Query Process:		
7	Pre-User Selection	Pre-Selection (Sort)
8	Post User Selection	Post Selection (Sort)
9	Start of Query Execution	Start of Function (Sort)
10	End of Query Execution	End of Function (Sort)
Frame Level:		
21	Start of Frame	Update Commands
22	Select Image	Set Alternate No.
23	Global Pre-Display	
24	Global Option Intercept	
25	End of Frame	
Image Level:		
41	Pre-Display/Verify	Access/Verify (Input)
42	Pre-Display	Pre-Display (Input) or Access (Output)
43	Option Intercept	PF Key Intercept
44	Verify	

List of APPX Opcodes

0	*			NO ULINE	
	**			NORMAL	
	ACTION		50	OK INPUT	(6)
3	AND	(5)		OPEN	
4	APPEND	(5)	52	OR	(5)
5	AT FIELD	(6)		OUTPUT	
6	BEG AT	(I/O)		OVERFLOW	
7	BEG LOOP	(*)		PASS	
8	BEG READ	(I/O)	56	POSITION	(6)
9	BLANK	(6)		PRINT	
10	BLINK	(6)		QUERY	
11	BRIGHT	(6)	59	READ	(I/O)
	CALC		60	READNEXT	(I/O)
	CALL			RECEIVE	
	CANCEL		62	RESTORE	(*)
	CLOSE			RETURN	
	CNV BIN		64	REWRITE	(I/O)
	CNV TEXT			RUN	
20	COMPUTE	(5)		SCAN	
	COPY		67	SCRATCH	(I/O)
22	CREATE	(I/O)		SELECT	
23	DATE ADD	(*)	69	SET	(5)
24	DATE BTW	(*)		SET DATE	
	DEFINE			SET DAY	
26	DELETE	(I/O)		SET MNTH	
27	DIM	(6)		SET TEMP	
28	DISPLAY	(6)	74	SET TOT	(5,*)
	END		75	STORE	(*)
30	END AT	(I/O)		SUBR	
31	END LOOP	(*)		TIMEOUT	
	END PROC		78	TOTAL	(5,*)
33	END READ	(I/O)		TRAP	
34	ERROR			ULINE	
	EXIT			UNDEFINE	
	GOSUB			WARNING	
	GOTO		84	WRITE	(I/O)
38	IF	(5)		FREE ALL	
39	IF EXIST	(I/O)		UPDATE	
	INPUT			JOB	
	INVERSE			INQUIRY	
	LABEL			STATUS	
	LOGOUT				
	MENU				
	MESSAGE				
46	NO INPUT	(6)			

Legend: (signifies command is programmed in the specified utility)

- (5) APPX STMT 'Format 5' List
- (6) APPX STMT 'Format 6' List
- (I/O) APPX STMT I/O List
- (*) one of the following utilities:
 - APPX STMT 'BEG LOOP/END LOOP' List
 - APPX STMT 'DATE ADD/DATE BTW' List
 - APPX STMT 'STORE/RESTORE' List
 - APPX STMT 'TOTAL/SET TOT' List

APPX Software, Inc. APPX Utilities in Application UTL CS

Listed below are the custom APPX Software, Inc. utilities available for APPX. Some of the items where they may be useful are also identified. To run any of these utilities, enter Application Design for application UTL CS and use OPTION 4 to run test database under company CSS.

- 1) APPX DOMAIN File List (items 3.5, 4.21, 5.7, & 10.25)
- 2) APPX FIELD File List (items 3.5, 4.21, 5.7, 8.33, & 8.36)
- 3) APPX ELEMENT File List
- 4) APPX FILE File List (items 1.53, 1.74, 1.75, 4.1, 4.20, 4.30, 4.31, 4.32, 8.30, 8.33, & 9.17)
- 5) APPX FIELD File Col Hdg List (items 9.48, 10.4, & 12.23)
- 6) APPX DOMAIN File Detail List
- 7) APPX FIELD File Detail List
- 8) APPX ELEMENT File Detail List (items 4.4 & 5.11)

- 11) APPX PROCESS File List (items 1.34, 1.74, 9.17, & 12.11)

- 13) APPX IMAGE File List (items 1.26, 1.63, 9.23, 9.42, 10.2, 10.18, 10.20, 10.21, 10.26, & 10.31)
- 14) APPX ITEM File List (items 1.26, 1.52, 1.55, 1.73, 9.18, 9.45, 9.48, 9.49, 10.6, 10.19, 10.28, & 10.32)
- 15) APPX CHILD File List (items 12.11 & 12.18 - see specific utilities below)
- 16) APPX SELECT File List (items 12.22, 12.23, & for multi-level processes*)

- 21) APPX STMT 'BEG LOOP/END LOOP' List (items 8.11)
- 22) APPX STMT 'DATE ADD/DATE BTW' List (item 8.15)
- 23) APPX STMT 'STORE/RESTORE' List (items 8.35 & 9.38/EP=2)
- 24) APPX STMT 'TOTAL/SET TOT' List (item 8.13)
- 25) APPX STMT I/O List (items 8.3, 8.8, 8.9, 8.10/OK, 8.11, 8.17, 8.30, 8.33, 8.38, 10.5, 11.2, & 12.11)
- 26) APPX STMT 'Format 5' List (items 8.22, 8.23, 8.27, 8.28, 8.36, 12.11, & 12.18)
- 27) APPX STMT 'Format 6' list (items 1.54 & 9.46)

- 31) Check APPX for STMT Orphans (item 1.23)
- 32) Check APPX CALC Statement (items 8.4 & 8.32)

- 41) QUERY's with Temporary PCF (item 12.11)
- 42) QUERY's with PRINT SUMMARY ONLY (item 12.18)

* Notes:

- 16) APPX SELECT File List
To list constraints for multi-level processes, enter **Process Type Not** QUERY or enter specific process type desired. (Note: Unless and until disposition jobs have been converted to JJJ or other custom disposition handling, disposition job constraints will also be listed.)

Warning: APPX 3.0 does not properly compare record selection criteria if the selection is comparing a field with length greater than 22 bytes. For example, it will not find process names if the name is longer than 22 bytes.

Complete list of all Op Codes:

0 *
1 **
2 ACTION
3 AND
4 APPEND
5 AT FIELD
6 BEG AT
7 BEG LOOP
8 BEG READ
9 BLANK
10 BLINK
11 BRIGHT
12 CALC
13 CALL
14 CANCEL
15 CLOSE
16 CNV BIN
17 NOP-17
18 CNV TEXT
19 NOP-19
20 COMPUTE
21 COPY
22 CREATE
23 DATE ADD
24 DATE BTW
25 DEFINE
26 DELETE
27 DIM
28 DISPLAY
29 END
30 END AT
31 END LOOP
32 END PROC
33 END READ
34 ERROR
35 EXIT
36 GOSUB
37 GOTO
38 IF
39 IF EXIST
40 INPUT
41 INVERSE
42 LABEL
43 LOGOUT
44 MENU
45 MESSAGE
46 NO INPUT
47 NOP-47
48 NO ULINE
49 NORMAL
50 OK INPUT
51 OPEN
52 OR
53 OUTPUT
54 OVERFLOW
55 PASS
56 POSITION
57 PRINT
58 QUERY
59 READ
60 READNEXT
61 RECEIVE
62 RESTORE
63 RETURN
64 REWRITE

65 RUN
66 SCAN
67 SCRATCH
68 SELECT
69 SET
70 SET DATE
71 SET DAY
72 SET MNTH
73 SET TEMP
74 SET TOT
75 STORE
76 SUBR
77 TIMEOUT
78 TOTAL
79 NOP-79
80 TRAP
81 ULINE
82 UNDEFINE
83 WARNING
84 WRITE
85 FREE ALL
86 DEBUG
87 UPDATE
88 JOB
89 INQUIRY
90 STATUS
104 REFRESH