



Software Solutions ASG-SmartEdit™

Quick Reference Card

Version 7.0

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Source View Facilities

Finding Dataname References

SEARCH | DATA | *dataitem*
(FX *dataitem* / LP *dataitem*)

Show all references to the dataname including all aliases (upper and lower level group items, redefines, and renames). Actions:

- FX - Highlight and tag all references.
- LP - Write information to the List file for printing.

SEARCH | DATA | *dataitem*, DEF
(FX *dataitem* DEF)

Highlight all statements that contain definitions of *dataitem* or its aliases.

Finding the Ripple Effect of Data Flow

SEARCH | DATA | *dataitem*, SIZE (SIZE or VALUE)
(FX *dataitem* SIZE / LP *dataitem* SIZE)

Show all occurrences of datanames that are directly or indirectly affected by a change in the size or value of the *dataitem*.

Actions:

- FX - Highlight and tag all references.
- LP - Write information to the List file for printing.

Using the Cursor Substitution Character (%)

Use the cursor substitution character (%) as a shortcut to include a target name in a command. When entering a command, type the cursor substitution character (%) where the target name should go, then place the cursor on the target in the source and press Enter.

SmartEdit replaces the % in the command with the indicated target. For example, to execute the command FX *dataitem* DEF, type FX % DEF on the command line, place the cursor on *dataitem*, and press Enter.

In this example, you can also use a PF key (see PF6 in the Suggested PF Key Settings section on this card). Type DEF on the command line, place the cursor on *dataitem* in the source, and press PF6. SmartEdit replaces the % with name of the data item and appends DEF to the FX command before execution.

Multiple cursor substitution characters can be entered in a command to substitute consecutive targets from the source code. This allows substitution of qualified datanames such as this:

dataitem OF *group-dataitem*

Finding Functions in a COBOL Program

SEARCH | SUBSET | IO
(FX IO / LP IO)

Show all IO statements. Actions:

- FX - Highlight and tag all references.
- LP - Write information to List file for printing.

SEARCH | SUBSET | CALL
(FX CALL)

Highlight all CALL statements.

SEARCH | SUBSET | COND
(FX COND)

Highlight all conditional statements.

SEARCH | SUBSET | ST
(LP ST)

Write program structure statements to the List file for printing.

Subsets

Predefined categories of COBOL verbs:

ASsignment	DIRective	LAbel
CAll	DIVision	MATH
CIcs	DL/I	Output
COBOL/370	DML	PARagraph
COBOLII	ENtry	PERform
COMment	EXit	SECTion
CONDitional	GOto	SORTMerge
DB2	IDMS	SQL
DDL	IMS	STructure
DEBUg	Input	
DEFinition	IO	

Viewing a Paragraph Cross-reference

VIEW | PARAGRAPH X-REF | *para-label*
(PREF *para-label*)

Display a cross-reference screen showing the paragraphs and associated COBOL verbs that pass control to the named paragraph *para-label*.

VIEW | PARAGRAPH X-REF | *para-label*, NEXT
(PREF *para-label* NEXT)

Display a cross-reference screen containing the paragraphs that receive control from *para-label* and the associated COBOL verbs that transfer control.

(PREF LABELS NEXT)

Display a cross-reference for all paragraphs and sections in a program.

(LP *)

Write a copy of the Paragraph Cross Reference screen you are viewing to the List file for printing.

(RPREF)

Return to the previous Paragraph Cross-reference screen.

Following COBOL Transfer of Control

SEARCH | BRANCH, [*Option1*], [*Target1*]
(BRANCH or PF10)

Reposition the display to the label referenced in a transfer of control statement (e.g., PERFORM or GO TO) indicated by the cursor position.

SEARCH | BRANCH, [*Option2*]
(BRANCH BACK or PF11)

Reposition the display to the last transfer of control statement where a BRANCH directive was executed.

Isolating the Logic Within a Paragraph or Section Range

SEARCH | LABEL | *labelname*
(FX *labelname* / LP *labelname* / HI *labelname*)

Identify all code associated with a specific Paragraph or Section. Actions:

- FX - Highlight and tag all references.
- LP - Write information to the List file for printing.
- HI - Highlight additional information without resetting the lines currently highlighted.

Display a Record Level Item Datamap

VIEW | DATAMAP | *action*

(DATAMAP *recordname* | DM *recordname* | DM line command)

Display a record map layout screen showing data item names, length, and offset within the record. Action: The DATAMAP command also accepts cursor position in the source to indicate the target *recordname*.

The LP * command copies the Datamap Display screen information you are viewing to the List file for printing.

Expanding Copy/Include Members

VIEW | ZOOMIN | *action*

(ZI line command on copy/include)

Expand Copy or Include member contents in context within the source. Expanded contents are browse only and are not saved as part of the edited source member.

Action: The ZOOMIN command expects cursor position in the source to indicate the target copy/include.

VIEW | ZOOM All Copies
(ZOOMCOPY | ZC)

Expand all copy or include member contents in context within the source at the same time.

Collapsing Copy/Include Members

Individual expanded copy/include contents can be collapsed using the ZO line command or ZOOMOUT command using the cursor position to indicate the target copy/include contents to collapse.

See Restoring/Resetting Screen Information for more information.

Viewing Dataitem Definitions In-context Within Procedural Code

VIEW | ZOOM *definition* | *action*

(ZOOMDEF *command* or ZD line command)

Display a window in context within the source showing data item definition information. This window is browse only and is not saved as part of the edited source member.

Action: The ZOOMDEF command and ZD line command expect cursor position in the source to indicate the target *dataitem* to display.

Collapsing Dataitem Definition Windows

Individual Dataitem Definition windows can be collapsed using the ZO line command or ZOOMOUT command using the cursor position to indicate the target Dataitem Definition window to collapse.

See next section for more information.

Restoring/Resetting Screen Information

The RESET command by default will reset ALL highlighted, tagged, excluded, or zoom result lines. Operands can be added to uniquely specify HI, TAG, Ex / X, or ZOOM targets.

Performing a Program Syntax Check

CHECK | *Perform Syntax Check*
(CHECK)

Execute syntax check using the compiler version specified on the Options - COPY/Include Libraries panel (REFRESH). Error messages are displayed in context with the source code.

Use the SCROLL HI PREV or SCROLL HI NEXT commands to locate error messages. See Suggested PF Key Settings.

The CHECK command also accepts operands to specify that specific preprocessors be included.

Suggested PF Key Settings

PF1 HELP	PF9 SWAP	PF17 FX %
PF2 SPLIT	PF10 BRANCH	PF18 FX % MOD
PF3 END	PF11 BR BACK	PF19 SC HI PREV
PF4 RPREF	PF12 CURSOR	PF20 SC HI NEXT
PF5 RFIND	PF13 X NHI	PF21 SWAP
PF6 FX %	PF14 SPLIT	PF22 LEFT
PF7 UP	PF15 END	PF23 RIGHT
PF8 DOWN	PF16 PREF	PF24 RECALL xxx *

* Note that xxx may be blank or substituted with these values:

MSG - recalls the last message

CMD - recalls the last command

POP - recalls the last pop-up screen

When blank, these options can be entered on the command line. Pressing the RECALL PF key would then execute the command.

Beginning a Program Code Change Session

Step 1

The steps to invoke a ASG-SmartEdit code change session depend on how the product was installed at your site. Your system administrator should provide this information.

Step 2

Upon invocation of ASG-SmartEdit, the user should specify product options as appropriate for the program being edited.

OPTIONS | REFRESH
(REFRESH)

Display the Options - COPY/Include Libraries pop-up to specify the Compiler Version and Source Manager type as appropriate for the program being edited.

Use ISPF line commands to insert, delete, repeat, move, before/ after the appropriate Copy/Include libraries concatenation dataset list to properly resolve copy/include member references.

The REFRESH command invokes the Options - COPY/Include Libraries pop-up any time during a SmartEdit session to refresh the copy/include members that may have changed since the session began. Press Enter to refresh member versions.

Step 3

Depending on the program being edited, it may also be necessary to specify parameters that allow ASG-SmartEdit to access the DB2 System Catalog, or IDMS or DATACOM Data Dictionary.

OPTIONS | *Product Parameters*
(PARMDEF)

Specify the appropriate DB2, IDMS, or DATACOM parameters.

Tell ASG-SmartEdit to attempt access to the DB2 System Catalog or IDMS Data Dictionary via processing mode settings as follows:

OPTIONS | *Processing Modes*
(SET) or (SET DB2 ON/OFF) (SET IDMS ON/OFF)

Leave these mode settings off unless absolutely required for the program being edited because of the potential additional overhead.

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