



IBM VM/System Product: SP Editor Command Language Reference Summary

SX24-5122-0

XEDIT Command

XEDIT	{fn[ft{fm}]} {(options...)}]	Invoke XEDIT for named file. Specify fn, ft here or in LOAD.
options:	[Widthnn] [NOScreen] [PROFfile macroname] [NOPROFfile]	Amount of storage for 1 line. Default = LRECL. Force typewriter mode. Specify profile filename. Default = PROFILE. Don't execute default PROFILE.
options valid only in update mode:	[Update] [NOUpdate] [Seq8] [NOSeq8] [Ct1 fn1] [NOct1] [Merge] [Incr nn] [SIDcode string]	Apply and modify UPDATE file. Don't apply update statements. 8 digits in columns 73-80 3 chars., 5 digits. Use CMS UPDATE with fn1 CNTRL, or not. Merge updates into new file. Minimum increment when adding lines. Overlay string in 64-71 for all updates.

Targets

Format	Description
:n	absolute line number
[+ -]n	relative displacement from current line
.xxxx[xxxx]	symbolic name assigned by SET POINT (up to 8 chars.) or .xxxx (up to 4 chars.)
[+ -][-/string1[/[-]/string2/]. . .	string expression: 1 search direction 2 "NOT" this string 3 string 4 "OR" for and/or locate 5 specify up to 4 strings In addition, you can use SET options (ARBCHAR, CASE, SPAN, and VARBLANK) to specify a complex string expression.

XEDIT Subcommands

Subcommand	Operands	Function
Add	[n]	Add n lines after current line.
ALter	char1 char2 [target [n . p]]	Change a single character to another (character or hex), from current line to target, n times in each line, starting with the pth occurrence. (G valid with numeric target.)
BAckward	[n* 1]	Scroll back n or * screens.
Bottom		Go to last line of file.
CANCEL		QUIT all files.
CAppend	[text]	Add text to end of current line.
CDelete	[column-target 1]	Delete characters from column pointer to column-target.
CFirst		Move column pointer to beginning of line (or ZONE).
Change	/old [/new/ [target [p . q]]]	Change old string to new, from current line to target, p times in each line, starting with the qth occurrence in each line.
CInser	text	Insert text before column pointer.
CLAs		Move column pointer to end of line (or ZONE).
CLocate	column-target	Move column pointer to column-target.
CMS	[commandline]	Execute CMS command, or enter CMS subset mode.
CMSG	[text]	Display text on command line.
COMMAND	[commandline]	Execute subcommand without macro or synonym check.
COMPress	[target 1]	Replace blank (or filler) characters with tabs, from current line up to target.
COpy	target1 target2	Copy line(s) from current up to target1 and insert after target2.
COUn	/string/ [target 1]	Display how many times string appears, from current line to target.
COVerlay	text	Overlay current line with text, starting at column pointer. Blanks do not overlay data; underscore overlays with blank.
CP	[commandline]	Execute CP command.
CReplace	text	Replace characters, one for one, starting at column pointer in current line.
CURsor	CMdline [colno 1] Column File lineno [colno] Screen lineno [colno]	Move cursor to: command line at col. number; current column, current line; lineno, colno, of file; lineno, colno, of screen.
DELe	[target 1]	Delete lines from current to target.
Down	[n* 1]	Move line pointer n lines toward EOF.

XEDIT Subcommands (continued)

Subcommand	Operands	Function
DUPLicat	[n][target 1]	Duplicate line(s) n times, from current to target.
EMSG	[text][mmmmnnn text]	Display text and/or sound alarm. mmmnnn is VM/SP message id.
EXPan	[target 1]	Expand line(s) from current to target, according to SET TABS.
FILE	[fn]=[ft]=[fm]=[]]	SAVE and QUIT. Default is current file (= =).
Find	text	Search for line that starts with text, ignoring blanks.
FINDUp FUp	text	Search backward for line that starts with text, ignoring blanks.
FORward	[n* 1]	Scroll forward n or * screens.
GET	[fn]=[ft]=[fm]=[]* [firstrec 1][numrec*]]	Insert line(s) from specified file, starting with number of the first line, for the number of lines (numrec) specified. Use with no operands to GET lines saved by a PUT(D).
Help	[MENU HELP name]	Display: list of XEDIT subcommands; how to use HELP; XEDIT subcommand description.
HEXType	[target 1]	Display in hex and EBCDIC, from current line to target.
Input	[line]	Insert line or enter input mode.
Join	[Column CURSOR colno /string/	Join lines: at column pointer; at cursor; at column number(s); with string(s) inserted.
LEft	[n 1]	View data n columns to left of column 1.
LOAD	Same as XEDIT command.	Issue XEDIT from profile.
[Locate]	target [subcommand]	Move line pointer to target; then execute subcommand.
LOWercas	[target 1]	Translate uppercase to lowercase, from current line to target.
MACRO	[macroline]	Execute macro without synonym or subcommand check.
MODify	keyword	Display SET subcommand in command line to permit immediate change. keyword = SET option.
MOve	target1 target2	Move line(s) from current up to target1 and insert after target2.
MSG	[text]	Display text or blank line in message line.
Next	[n* 1]	Move line pointer n lines toward EOF.
NFind	text	Search for line that does not start with text, ignoring blanks.
NFINDUp NFUp	text	Search backward for line that does not start with text, ignoring blanks.
Overly	text	Overlay current line with text, starting at first tab column. Blanks do not overlay data; underscore overlays with blank.

XEDIT Subcommands (continued)

Subcommand	Operands	Function
PARSE	startcol Alphaword Number String Dblstring Target Word Line	Scan stacked line of macro starting at startcol for: alphabetic character string; numeric character string; delimited string; delimited double string; XEDIT target; alphanumeric string; unprocessed part of line.
POWerinp		Enter continuous typing input mode.
PREServe		Save settings of XEDIT variables until RESTORE.
PURge	macroname	Remove macro from virtual storage.
PUT	[target 1][fn]=[ft]=[fm]=[]]	Copy line(s) from current to target into named file (create or append) or unnamed temporary file (for retrieval by GET). Temporary file persists across multiple files.
PUTD	[target 1][fn]=[ft]=[fm]=[]]	Move line(s) from current to target into named file (create or append) or unnamed temporary file (for retrieval by GET). Temporary file persists across multiple files.
Query TRANster	option options: APL ARBchar AUtosave CASE CMDline COLPtr COLUMN CURLine CURSor EOF ESCApe FILLer FMode FName FType HEX IMage IMPcmssp LASTmsg LENgth Line LINEnd LRecl LScreen MACRO MASK MSGMode NBFile NONDisp NULs NUMBER PACK PF[n]	Display (QUERY) or transfer (TRANSFER) SET options and other variables. With QUERY, only one operand may be specified. With TRANSFER, multiple operands may be specified in one subcommand. Point[*] (* Q only) PREfix RANge RECFm RESERved RING SCALE SCReen Seq8 SERIAL SIDcode SIZE SPAN STAY STReam SYNonym [*] (Q only) [name]
QUIT	[n]	End editing session; n = return code.
READ	[Cmdline All [NUMBER] Nochange [NUMBER]]	Put data in console stack (LIFO) from terminal: command input area; changed lines (with numbers); like ALL but typed changes not permanent.

XEDIT Subcommands (continued)

Subcommand	Operands	Function
RECOVer	[n* 1]	Retrieve n or * lines lost by DELETE, PUTD, or D.
RENum	[start-number 1][0[increment]]	Renumber FREEFORTH or VSBASIC file.
REPEat	[target 1]	Advance toward target and repeat last subcommand.
Replac	[text]	Replace current line with text, or delete current line and enter input mode.
RESet		Remove prefix subcommands when screen is in pending or incomplete status.
RESTore		Restore settings from PRESERVE.
Right	[n 1]	View data n columns to the right of last on screen.
SAVE	[fn]=[ft]=[fm]=[]]	Write file on disk; stay in XEDIT.
SCHANGE	[keynumber]	Specify PF key to effect selective change.
[SET]	APL ON OFF	Allow use of APL keys.
[SET]	ARBchar ON OFF [character]	Turn on/off arbitrary character definition for use in targets. initial = OFF \$
[SET]	AUtosave n OFF [mode]	Issue SAVE every n lines changed. initial = OFF
[SET]	CASE Uppercase Mixed [Respect Ignore]	Translate lower to uppercase or not; respect/ignore case in target searches. initial = M R (SCRIPT, MEMO) initial = U R (other)
[SET]	CMDline On Top Bottom	Move command line to: last 2 lines of screen; same as message line; last line of screen. initial = ON
[SET]	COLPtr ON OFF	Display column pointer or not (typewriter only). initial = ON
[SET]	CURLine ON n	Move current line to screen line n. initial: n = middle of screen
[SET]	ESCApe ON OFF [character]	Allow use of/define character for subcommand entry in input mode (typewriter only). initial = ON, char based on ft
[SET]	FILLer [character]	Define character used in EXPAND. initial = blank
[SET]	FMode fm	Change fm of current file.
[SET]	FName fn	Change fn of current file.
[SET]	FType ft	Change ft of current file.
[SET]	HEX ON OFF	Allow string operands and targets to be specified in hex. initial = OFF
[SET]	IMage ON OFF Canon	Control tabs and backspaces: expand tabs, backsp. is erase; tabs and backsp. left alone; backsp. rearranged. initial = CANON (SCRIPT) initial = ON (other)
[SET]	IMPcmssp ON OFF	Pass unrecognized commands to CMS/CP, or not. initial = ON
[SET]	LINEnd ON OFF [character]	Allow use of or define line end character. initial = ON #

XEDIT Subcommands (continued)

Subcommand	Operands	Function
[SET]	LRecl n	Define new logical record length. initial based on ft
SET	MACRO ON OFF	Search for macros before subcommands (ON), or vice versa (OFF). initial = OFF
[SET]	MASK Define Immed[text] Modify	Define overlay mask for new lines: type over scale; text = mask; display current mask. initial mask = blank
[SET]	MSGMode ON [Short Long] OFF	Control message display. initial = ON LONG
[SET]	NONDisp [character]	Define character to display in place of nondisplayable ones. initial = blank
[SET]	NULs ON OFF	Trailing blanks replaced with nulls, or not. initial = OFF
[SET]	NUMBER ON OFF	Display line numbers, or not. initial = OFF
[SET]	PACK ON OFF	Write file to disk in packed format, or not. initial based on record format
[SET]	PFn [string TABKEY COPYKEY]	Define/remove (no operand) meaning for a PF key; any subcommand or macro; PF key used as tab key; copy printer spool. initial: PF1 HELP MENU PF2 SOS LINEADD PF3 QUIT PF4 TABKEY PF5 SCHANGE 6 PF6 ? PF7 BACKWARD PF8 FORWARD PF9 = PF10 SPLIT CURSOR PF11 JOIN CURSOR PF12 CURSOR COLUMN
[SET]	Point .symbol [OFF]	Define/remove symbol for current line.
[SET]	PREfix ON [Left Right] OFF PREfix.Synonym new old	Control prefix area display or define synonym for prefix subcommand. initial = ON LEFT
[SET]	RANge target1 target2	Set limits for line pointer movement.
[SET]	RECFm F V FP VP	Define record format: fixed; variable; fixed packed; variable packed. initial based on ft
[SET]	RESERved n High [text] Nohigh [text] OFF	Reserve nth line of screen and display text, highlighted or not. OFF = release reserved line.
[SET]	SCALE ON [n] OFF	Display scale on n th line or remove. initial = ON, n is under current line
[SET]	SCReen n Size n1 [n2]...	Define n logical screens. Define size of each screen. initial = SIZE n (n = physical screen size)

First Edition (July 1980)

This card applies to the initial release of IBM Virtual Machine/System Product, Program Number 5664-167 and to all subsequent versions and modifications unless otherwise indicated in new editions. However, the basic document is the authoritative source and will be the first to reflect changes. Information herein is extracted from *IBM Virtual Machine/System Product: System Product Editor Command and Macro Reference, SC24-5221*.

It is possible that this material may contain reference to, or information about, IBM products (machines and programs), programming, or services that are not announced in your country. Such references or information must not be construed to mean that IBM intends to announce such IBM products, programming, or services in your country.

Publications are not stocked at the address given below; requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

This publication has been produced by IBM Corporation, Programming Publications, Dept. G60, P.O. Box 6, Endicott, New York, U.S.A. 13760.

XEDIT Subcommands (continued)

Subcommand	Operands	Function
[SET]	SERIAL ON [incno[startno]] ALL[incno[startno]] string[incno[startno]] OFF	Put serial id at end of lines: 3 chars., 5 digits (10,10); 8 digits (1000, 1000); string plus numbers to 8 places (10,10). No update of id at next SAVE.
[SET]	SPAN ON[Blank Noblan[n]*] OFF	Allow string target to span n lines, with blank between lines or not. String target must be in one line (OFF). initial = OFF BLANK 2
[SET]	STAY ON OFF	Move line pointer when string not located, or not. initial = OFF
[SET]	STReam ON OFF	Search for column-target in entire file (ON) or current line only (OFF). initial = ON
[SET]	SYNOnym ON OFF	Recognize synonyms, or not. initial = ON
	SYNOnym newname[n]oldname	Define synonym; n is minimum abbreviation.
	SYNOnym newname[n]form1...formn] oldname [&1...&n]	Specify new name and operand formats (form1...formn): & = blanks delimit; &/ = delimited string; &. = 2 strings separated by 1 delimiter; &* = rest of data; &1...&n: relative order.
[SET]	TABLine ON [n] OFF	Display line with "T" in each tab column, on n th line, or remove. initial = OFF
[SET]	TABS n1[n2...n28]	Define logical tab stops. initial based on ft
[SET]	TERMinal Typewriter Display	Use display terminal in line mode or in full screen mode.
[SET]	TEXT ON OFF	Allow use of TEXT keys.
[SET]	TOFEOF ON OFF	Display null top and end of file (or RANGE) lines, or not. initial = ON
[SET]	TRunc n*	Set truncation at n th column or * (LRECL). initial: n based on ft
[SET]	VARblank ON OFF	Number of blanks between 2 words is insignificant in target searches (ON) or is significant (OFF). initial = OFF
[SET]	Verify [ON OFF] [[H]c1 c2]...	Display changed lines or not. Define which columns appear, in hex (H) or EBCDIC or both. initial = ON (typewriter) initial = OFF (display)
[SET]	WRap ON OFF	Wrap around file/range during a search, or not. initial = OFF
[SET]	Zone zone1 zone2 *	Define left and right columns (zone1 zone2) that delimit target searches. initial = column 1 to *
SET	=	Put string into equal buffer.
SHift	Left Right [cols] [target] [1]	Move data to the left or right for number of columns (cols) specified, from current line to target.
SORT	target [A D] c1 c2 [c1 c2]...	Sort from current line to target, in ascending (A) or descending (D) order. c1 c2 = sort fields.

XEDIT Subcommands (continued)

Subcommand	Operands	Function
SOS	option	Specify option for screen operation simulation.
	options:	
	ALarm	NULLs OFF
	BField n	PFn
	CLEAR	POP
	Down n	PUSH
	Left n	Right n
	LINEAdd	TABB n
	LINEDel	TABCmd
	NField n	TABCMDDB
	NLine n	TABCMDF
	NULLs	TABF n
	NULLs On	Up n
SPlit	[Column CURSOR] [before After]/string/...	Split line in two: at column pointer; at cursor; Split line in two or more: at column number(s); before or after string(s).
STAck	[target] [startcol] [length] [*]	Place line(s) FIFO in console stack, from current to target, starting in column specified (startcol) for number of columns specified (length).
STATus	[filename]	Display SET subcommand options and settings; or create macro with filename specified that contains these settings.
TOP		Move line pointer to TOF line.
TRANsfer	See QUERY for operands.	Place editing variable(s) in console stack for use by a macro.
Type	[target] [1]	Display line(s) from current to target.
Up	[n] [1]	Move line pointer toward TOF, n or * (TOF) lines.
UPPerCas	[target] [1]	Translate lowercase characters to uppercase, from current line to target.
Xedit	[fn] [t[fm]] [(options...)]	Edit another file. See CMS command XEDIT for options.
&	[subcommand]	Use & before a subcommand for repeated execution. The subcommand remains in command line.
=	[subcommand]	Re-execute the last subcommand entered, or execute the subcommand specified here and then re-execute the last one.
?		Display the last subcommand.

Prefix Subcommands

These subcommands are entered in the prefix area of a line.

Prefix Subcommand	Function
A	Add one line.
nA	Add n lines.
An	Add n lines.
C	Copy one line.
nC	Copy n lines.
Cn	Copy n lines.
CC	Copy block of lines.
D	Delete one line.
nD	Delete n lines.
Dn	Delete n lines.
DD	Delete block of lines.
E	Extend logical line by one more physical line on the screen.
F	Move or copy following this line.
I	Insert one line.
nI	Insert n lines.
In	Insert n lines.
M	Move one line.
nM	Move n lines.
Mn	Move n lines.
MM	Move block of lines.
P	Move or copy preceding this line.
SCALE	Display the scale on this line.
TABL	Display a "T" in every tab column on this line.
/ [n]	Make this line current and move the column pointer under the n th column.
[n] /	Make this line current and move the column pointer under the n th column.
"	Duplicate one line.
n" or "n	Duplicate n lines.
""	Duplicate block of lines.
""n or n""	Duplicate block of lines n times.
.xxxx	Assign xxxx as symbolic name to this line.

The following chart organizes XEDIT subcommands according to function.

Subcommand	Function
PUT(D) XEDIT (CMS command) XEDIT (subcommand)	Create a file.
CANCEL FILE QUIT	End an editing session.
SET AUTOSAVE SAVE	Write file on disk; stay in edit.
INPUT POWERINP REPLACE	Enter an input mode.
JOIN SPLIT SHIFT SORT	Rearrange data on the screen.
LEFT RIGHT SHIFT SET VERIFY	Move the screen over the data or the data on the screen.
SET CMDLINE SET CURLINE SET NUMBER SET PREFIX SET SCALE SCALE (prefix) SET SCREEN SET TABLE TABL (prefix) SET TOFEOF	Control the screen layout.
SET FMODE SET FNAME SET FTTYPE SET LRECL SET PACK SET RECFM SET SERIAL SET TRUNC	Control file characteristics.
GET PUT(D)	Transfer data between files.
CAPPEND CDELETE CFIRST CINSERT CLAST CLOCATE COVERLAY CREPLACE	Used to move the column pointer or based on the position of the column pointer.
BACKWARD BOTTOM DOWN FORWARD NEXT REPEAT TOP UP / (prefix) all targets	Scroll the screen and/or move the pointer.
CLOCATE COUNT FIND FINDUP LOCATE NFIN NFINUP	Search for data.
ALTER CHANGE COVERLAY CREPLACE OVERLAY SCHANG	Change data.

Subcommand	Function
INSERT SET NULLS ON with insert key PA2 key with insert key	Insert characters.
A (prefix) ADD C (prefix) COPY D (prefix) DELETE " (prefix) DUPLICAT E (prefix) F (prefix) I (prefix) M (prefix) MOVE P (prefix)	Related to line editing.
SET POINT .xxxx (prefix)	Name a line.
CMS CP SET IMPCMSCP	Transmit command to CMS or CP.
COMMAND MACRO SET MACRO SET SYNONYM	Control search order for macros, subcommands, and synonyms.
LOWERCAS SET CASE UPPERCAS	Related to the case of letters.
ALTER HEXTYPE SET HEX SET VERIFY	Related to hexadecimal data.
COMPRESS EXPAND SET IMAGE SET PFn TABKEY SET TABLE TABL (prefix) SET TABS	Related to tabs.
COLPTR ESCAPE	Related to typewriter terminal.
SET ARBCHAR SET CASE SET HEX SET IMAGE SET RANGE SET SPAN SET STAY SET STREAM SET TABS SET VARBLANK SET WRAP SET ZONE	SET options related to the entry of or search for data.
CMSG EMSG LOAD MSG PARSE PRESERVE PURGE READ RESTORE SET MSGMODE SET RESERVED SOS STACK STATUS TRANSFER	Use in macro writing.

Notes:



International Business Machines Corporation
Data Processing Division
1133 Westchester Avenue, White Plains, N.Y. 10604

IBM World Trade Americas/Far East Corporation
Town of Mount Pleasant, Route 9
North Tarrytown, N.Y., U.S.A. 10591

IBM World Trade Europe/Middle East/Africa Corporation
360 Hamilton Avenue, White Plains, N.Y., U.S.A. 10601

SX24-5122-0 Printed in U.S.A.