

SERENA[®] StarTool[®] FDM Quick Reference

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General Information

- To cancel without processing, type CANCEL on command line.
- Wildcard characters asterisk (*) and question mark (?) are supported in most search strings and object name parameters.
- Memgroup parameter may be a member name, a name range, a name pattern, or a comma-delimited list of memgroup parameters.

StarTool Commands

Syntax STARTOOL

{dsn [VOLUME(vser)|VOLSET(vdef)] [SHR|OLD]|

FILE(ddname) [NUMBER(num)]|
*}

 $\verb|[ISPMODE|XISPMODE|ISPXEQ| command|| subcommand||$

MEMLIST memgroup]

Example STARTOOL lib.cntl

Aliases PDS, PDSE

Defaults ISPMODE if in an ISPF session, otherwise XISPMODE; SHR

Required dsn or FILE(ddname)

StarTool Subcommands

Command	Alias	Description
*		Merge current member group into MEMLIST table
?		Request extended help for error messages
ALIASCHK		Add members associated with alias to MEMLIST
ALL		Add all members in data set to MEMLIST
ALTCMD	ALTC	Repeat a subcommand saved with SETALT
ALTERNAT	ALT	Display alternate view of table for current function
APPLY	APP	Apply line command to all table entries
ATTRIB	Α	List or modify member attributes
BLKSIZE	BLK	Display disk track usage for optimal blocking
BROWSE	В	Browse a data set using ISPF
CANCEL	CAN	Cancel pending line commands
CALC	CAL	Floating point calculator (ISPMODE only)
CAX	CAX	List active system catalogs
CHANGE	С	Change from table view to view of data set
CISIZE	CI	Find optimal control interval for VSAM data set
CMDTBL	CMD	Manage ISPF command tables
COMBINE	СОМВ	Concatenate multiple members, each delimited by ./, into a single member (IEBUPDTE format)
COMMENT	/*	Enter following information as comments

Command	Alias	Description	
COMPARE	CO	Display differences between data set members	
301.117.11.12	-	Create member group sublist based on data set	
COMPDIR	COMPD	member differences	
COMPRESS	COMPR	Compress data sets using IEBCOPY	
CONDEND	COND	Conditionally terminate StarTool FDM	
CONTROL	CON	Control StarTool FDM global options	
COPY	COP	Copy PDS members to new or existing data set	
CREATE	CR	Create new data set & clone current attributes	
CSECTS	CS	Map module CSECTs interactively (ISPMODE)	
DCF	DC	Print hardcopy member listing based on TSO SCRIPT command parameters	
DDNAME	DD	List TSO session allocations	
DECODE	DEC	Decrypt a member	
DEFINE	DEF	Invoke IDCAMS with DEFINE parameter	
DELETE	DEL	Delete member from data set	
DELINK	DELI	Create object code from a load module	
DIRENTRY	DIR	Display a member's directory entry	
DISASM	DISA, DAS	Disassemble a load module	
DISPLAY	D	List data set membersd	
DROP	DR	Terminate an active GO session (ISPMODE only)	
DSNAME	DS	Display data set allocation information	
DUAL	DUA	Switch to multiline view of current table	
DUP		Copy PDS members or sequential files to sequential data set; optionally change FB/VB	
EDIT	E	Edit a data set using ISPF	
EDITLOG	EL	Edit output from last subcommand (ISPMODE)	
EDITTBL	EDITT	Edit table data for current function	
EDREC	EDR	Invoke ISPF edit recovery	
ENCODE	EDC	Encrypt a member	
END	EN	Terminate the current function	
EQUATE	EQ	Reset current member list to members in MEMLIST	
EXCLUDE	EXC	Drop members from MEMLIST or current table	
EXPAND		Add directory blocks & disk space	
EXPRESS	EXPR	Execute all entered line commands without pauses between individual commands (ISPMODE only)	
F	F	Find a string in current table entries (ISPMODE)	
FILTER	FIL	Set selection values for MASK	
FIND	FI	Find a string in data set members	
FINDMOD	FINDM	Find all copies of an executable system module	
FIXPDS	FIX	Modify attributes of current non-VSAM data set	
HELP	Н	Request panel-level FDM help (ISPMODE only)	
GLOBAL	GL	Apply subcommand globally to all members in table	
G0	GO	Switch to parallel FDM session (ISPMODE only)	
GROUP	GR	Prompt for member group & subcommand	
HEX	HEX	Hexadecimal calculator (ISPMODE only)	
HISTORY	HI	Display CSECT IDR data for a load module	
IDCAMS	IDC	Invoke an IDCAMS command	
IF		Conditionally execute subcommands	

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Command	Alias	Description	
SEEK		Search for member in concatenated data sets	
SELC		Selectively copy columns between tables	
SEPARATE	SEP	Split member containing ./ separators (IEBUPDTE format) into multiple members	
SET	SET	Display panel for SET commands (ISPMODE)	
SETALL	SETA	Set combined FDM defaults	
SETALT		Save FDM subcommand for repeat use by ALT	
SETCOLOR	SETC	Set default screen colors & highlights	
SETDSN	SETD	Set default DSN settings	
SETKEYS	SETK	Set default PF function key mapping	
SETPANEL	SETP	Set default panels	
SETSEEK	SETS	Set default member name for SEEK line command	
SETSEL		Set default alias by function for SELECT line command	
SETUSER	SETU	Set user defaults for primary commands	
SMPGEN	SM	Generate SMP/E sysmods	
SORT	SO	Sort table by field name	
SUBLIST	SUBL	Make member group subset a member group	
SUBMIT	SUB	Submit data for background processing	
STATUS	ST	Display the status of ISPMODE functions	
SUSPEND	SUS	Temporarily suspend ISPMODE & go to line mode	
SVCMAP	SVC	Map active SVC routines	
TAG		Create member group of MEMLIST entries marked with *TAG* in DATA/MSG field. Otherwise, apply a line command to all table entries so marked.	
TODAY	TO	Add members created/changed today to MEMLIST	
TRANS		Translate characters from/to hex, decimal, EBCDIC	
TSO	Т	Invoke a TSO command processor or CLIST	
TSOEDIT	TSOE	Edit sequential data set	
TSOLIST	TSOL	List sequential data set	
USAGE	U	Display data set statistics	
UT	UT	Display extended user tool panel (ISPMODE)	
VERIFY	V	Search data set members for errors	
VMAP	VM	Map disk volume (ISPMODE only)	
VSAM		Invoke FDM StarWarp VSAM services	
VTOC		List data sets on selected volumes	
VUSE	VU	Display disk volume usage statistics	
WEEK	WE	Add new/changed members for week to MEMLIST	
WHOHAS	WH	List allocated users of a data set	
WORKPAD	W	Create reusable tables of commands, DSNs, CLISTs, REXX executables (ISPMODE only)	
X	Х	Clear table entries relative to cursor position	
XALL	XA	Clear all entries in current table	
XCOPY	XC	Invoke extended copy option	
XMIT		Transmit data set to another user	
XREF	XR	List CSECT & EXTERNAL symbol cross-references	
ZAP	Z	Directly edit contents of load module	

Memgroup Parameter

Commands ABE, ACFCOMP, ATTRIB, BROWSE, COMBINE, COMPDIR, COPY, DCF, DELETE, DELINK, DIRENTRY, DISASM, DUP, EDIT, EXCLUDE, FIND, FSE, HISTORY, IF, LIST, MAP, MEMBERS, MEMLIST, OUTCOPY, PGMDOC, PRINT, READOBJ, REPLACE, REPRO, REVIEW, SMPGEN, SUBLIST, SUBMIT, TSOEDIT, TSOLIST, VERIFY, VPRINT, XREF

Memgroup Parameter Syntax

Syntax	Description
*	Use most recently defined member group.
=	Assign all members in MEMLIST to member group.
:	Assign all members in current table to member group.
name	Name of member to include in member group.
(name1, name2,)	List of member names to include in member group, delimited by commas. List must be contained in parentheses and may contain any number of entries.
aa*	Include any member whose name begins with 'aa'. Note: Asterisk (*) here is a wildcard that stands for any number of characters. Multiple wildcards may be intermixed with explicit characters in a member name pattern.
aa?	Include any member whose name begins with 'aa' and is followed by any one character. Note: Question mark (?) here is a wildcard that stands for any one character. Multiple question wildcards may be intermixed with explicit characters in a member name pattern.
aa/	Include any member whose name contains 'aa' anywhere. Note: Slash (/) here is a nonpositional pattern character that marks a required member name segment or pattern. Multiple name segments or patterns may be joined by an intervening slash to indicate a Boolean AND relationship.
mema:memb	Range of member names to include, in alphanumeric sort order, where: • mema = Starting member name or partial name in range • memb = Ending member name or partial name in range Note: If mema is omitted, the start of the inclusion range defaults to x'00'. If memb is omitted, all members following mema in the sort order are included.
(memgroup1, memgroup2,)	List of member group parameters in any non-list format, delimited by commas. Commas are treated as Boolean OR to define member inclusion. List must be contained in parentheses and may contain any number of entries. Note: A memgroup list may not contain nested memgroup lists.

Memgroup Examples

For these examples, assume the following members are already defined in a previously used member group, in the current MEMLIST, or in the current LISTC/LISTF/other table:

Memgroup ABLE01, ABLE02, ABLE03

MEMLIST ABLE99, BAKER99, CHARLIE99

Table ABLE, BAKER, CHARLIE, DOG, ECHO, FOXTROT, GEORGIA

Memgroup	Manchana Turahadad in Nasa Mancanasa
Parameter	Members Included in New Memgroup
*	ABLE01, ABLE02, ABLE03
=	ABLE99, BAKER99, CHARLIE99
:	ABLE, BAKER, CHARLIE, DOG, ECHO, FOXTROT, GEORGIA
able	ABLE
(able, baker)	
c:d	CHARLIE, DOG
: C	ABLE, BAKER, CHARLIE
c:	CHARLIE, DOG, ECHO, FOXTROT, GEORGIA
a*	ABLE
*a	GEORGIA
a*e	ABLE
a	ABLE, BAKER, CHARLIE, GEORGIA
*a*e*	ABLE, BAKER, CHARLIE
*e*a*	GEORGIA
a?	No members in LISTC have two-character names.
?a	No members in LISTC have two-character names.
?a*	BAKER
*i?	CHARLIE, GEORGIA
a/	ABLE, BAKER, CHARLIE, GEORGIA
/0	DOG, ECHO, FOXTROT, GEORGIA
a/o	GEORGIA
(a/,o/)	ABLE, BAKER, CHARLIE, DOG, ECHO, FOXTROT, GEORGIA
a*e/	ABLE, BAKER, CHARLIE
(a*,e:)	ABLE, ECHO, FOXTROT, GEORGIA
(a,e:)	ECHO, FOXTROT, GEORGIA
(dog, r/)	BAKER, CHARLIE, DOG, GEORGIA
(a:c, o*o/)	ABLE, BAKER, CHARLIE, FOXTROT

ATTRIB Command

Source Members

ATTRIB memgroup

[ALIASINFO|NOALIASINFO]

[ALIAS|NOALIAS]

[LASTREAD]

[ADDSTATS]

[NONE]

[ID(userid)|USERID(userid)]

[MOD(mm)]

[VER(vv)]

[SSI(hexdata)|NOSSI]

[CREATED(yyyy/mm/dd)]

[MODIFIED(yyyy/mm/dd)]

[SIZE(nnnnn)|RESIZE]

[INIT(nnnnn)]

Example ATTRIB mema: memb ID(userid)

[MODI(nnnnn)]

Aliases A, AT, ATT, ATTR, ATTRI

Defaults Alias members: memgroup, ALIASINFO, NOALIAS

Non-alias members: memgroup, NOALIASINFO, NOALIAS

Required None

Load Members

Syntax ATTRIB memgroup

[ALIASINFO|NOALIASINFO]

[ALIAS|NOALIAS]

[UNALIAS]

[**LKEDDATE**|NOLKEDDATE]

[SHORT]

[AMODE24|AMODE31|AMODE64|AMODEANY]

[RMODE24|RMODEANY]
[AUTH|NOAUTH]
[DC|NODC]
[EDIT|NOEDIT]
[ENTRY(name)]
[EXEC|NOEXEC]

[LOADONLY|NOLOADONLY]

[PAGE|NOPAGE] [REFR|NOREFR]

[RENT|NORENT] [REUS | NOREUS] [RLDFIX|NORLDFIX] [SSI(hexdata)|NOSSI] [NONE]

Example ATTRIB mema: memb RENT REUS REFR

Aliases A, AT, ATT, ATTR, ATTRI

Defaults memgroup, ALIASINFO, NOALIAS, LKEDDATE

Required None

CONTROL Command

Syntax CONTROL

> [ALIASINFO|NOALIASINFO] [LKEDDATE | NOLKEDDATE] [PROMPT | NOPROMPT] [RECOVER | NORECOVER]

[TRANSLATOR | NOTRANSLATOR] [SINGLE|DOUBLE|MULTIPLE|RETAIN(n)]

[INFO|NOINFO]

[PUTLINE|NOPUTLINE] [COMMAND | NOCOMMAND] [SYSOUT (class)

> {DEST(jes dest id or nodename.userid) | NODEST| FORM(jes form id) | NOFORM} |

NOSYSOUTI

DSNAME(member) {OLD|MOD|NEW|SHR}|

NODSN1

[DEFAULTS|IOSTATS|LISTENV|RESTRICTED|TESTABEND| TESTMSGS|TESTOUTLOOP|TESTPARSE|TESTREAD|

TESTSYNTAX1

Example CONTROL DSNAME(lib.ctrl(mema)) OLD

Aliases C, CO, CON, CONT, CONTR, CONTRO

Defaults Always: ALIASINFO, LKEDDATE, TRANSLATOR, RETAIN(9),

> INFO, PUTLINE, COMMAND TSO: PROMPT, RECOVER

Background: NOPROMPT, NORECOVER

Required None

Data Set List Commands

Syntax LISTC [somename] [RESET] [PROMPT]

LISTF [somename] [RESET] [PROMPT]

Example LISTC
Aliases LC, LF
Defaults None
Required None

LISTC/LISTF Primary Commands

Primary Command	Alias	Function & Syntax
ALTERNAT	ALT	Displays alternate view of table for current function.
APPLY	APP	Applies line command to all table entries & executes. Syntax: APPLY <i>linecmd</i>
COMPRESS	COMPR	Compresses data sets using IEBCOPY. Syntax: COMPRESS [LIST NOLIST SUMMARY]
DUAL	DUA	Switches to multiline view of current table.
EDITTBL	EDITT	Edits table data for current function.
ERASE	ER	Deletes the LISTC/LISTF table.
EXPRESS	EXPR	Executes all entered line commands without pauses between individual commands.
F	F	Finds a string in current table entries. Syntax: F 'anystring' [ASIS] [FIRST LAST PREV] [PREFIX SUFFIX WORD] [ANY DSNAME VOLUME DO RECFM CDATE RDATE]
FIND	FI	Finds a string in data set members (PDS only). Syntax: FIND memgroup 'anystring' [NUM SNUM NONUM LBLOCK BLOCK LDUMP DUMP] [CAPS ASIS IGNORE] [WORD PREFIX SUFFIX]
GLOBAL	GL	Apply subcommand globally to all members in table. Syntax: GLOBAL anysubcommand [anyoperands]
ID		Changes table ID. Syntax: ID <i>name</i>
LEFT	LE	Rotates left (back) through alternate views of table.
LISTC	LC	Searches for more data sets from a catalog. Syntax: LISTC [name] [RESET]
LISTF	LF	Searches for more data sets from a volume (VTOC). Syntax: LISTF [name] [RESET]
LOAD	LO	Loads data set names from z/OS control blocks. Syntax: LOAD APFLST LNKLST LPALST [RESET]

Primary		
Command	Alias	Function & Syntax
		Positions to line in sorted table based on search
		string.
LOCATE	L	Syntax: LOCATE data
		TRKFREE EXTENTS BLKSIZE DSORG ALLOC
MFRGF	MER	Merges saved LISTC/LISTF table into current table.
MERGE	MEK	Syntax: MERGE name [GROUP SAMPLE] [RESET]
MODEL		Creates model data set & parameters for use with MCOPY, CREATE, or IDCAMS subcommands.
NORMAL	NOR	Displays default view of current table.
NOSAVE	NOS	Don't save current LISTC/LISTF table to disk.
OPTIONS	0	Prompts for subcommand options.
OUTPUT	OUT	Outputs current table to printer or data set. Syntax: OUTPUT [=c F(ddname)]
		Refreshes data for all entries in LISTC/LISTF table.
REFRESH	REF	Also corrects volume name entries for cataloged data
		sets.
		Trims the LISTC/LISTF table based on string match.
		Syntax: REMOVE 'anystring' [PREFIX SUFFIX WORD]
REMOVE	REM	[NOT]
		[ANYNAME DSNAME VOLUME DO RECFM
		CDATE RDATE]
		Replaces a search string in data set members (PDS).
		Syntax: REPLACE memgroup 'fromstring' 'tostring'
DEDI ACE	DEDI	[NUM SNUM NONUM LBLOCK BLOCK
REPLACE	REPL	LDUMP DUMP
		[CAPS ASIS IGNORE]
		[WORD PREFIX SUFFIX] [WRITE NOWRITE]
RESET	RESET	Clears the DATA/MSG field in all table entries.
RFIND	RF	Repeats previous FIND command.
RIGHT	RI	Rotates right (forward) through alternate views of
RIGITI	N	table.
SAVE	SAVE	Saves copy of table for another FDM session. Syntax: SAVE [name] [REPLACE NOREPL]
SEEK		Searches for member in concatenated data sets.
SEEK		Syntax: SEEK member
		Sorts table by field name.
SORT	SO	Syntax: SORT [ASCEND DESCEND]
JOKI	30	[DSNAME VOLUME CDATE RDATE SIZE FREE
		EXTENTS BLKSIZE TYPE ALLOC]
TAG		Creates member group of MEMLIST entries marked
		with *TAG* in DATA/MSG field. Otherwise, applies a
		line command to all table entries so marked. Syntax: TAG <i>linecmd</i>
UT	UT	Displays extended user tool panel.
WHOHAS	WH	Lists allocated users of a data set.

Primary Command	Alias	Function & Syntax
X		Clears table entries relative to cursor position. Syntax: X [ABOVE BELOW ALL]
XALL	XA	Clears all entries in current table.

LISTC/LISTF Line Commands

Command Function + Provide an extension panel for command entry 6 Switch to data set & execute MEMLIST ALL A AA Change to data set & execute an alternate (user-defined) subcommand from the UT panel ACAT Catalog non-VSAM data set using an alternate user catalog from the UT panel AUNC Uncatalog a non-VSAM data set using an alternate user catalog from the UT panel B BB Browse data set C CC Change to data set CAT Catalog data set. COPY Change to data set invoke COPY DEL DDEL Delete data set DUP Change to data set using GO processing HBAC HBBACK DFHSM command to back up data set HBDE HBBACK DFHSM command for data set HBDE HBDEL DFHSM command for data set HMIG HMIG DFHSM command for data set HMIG HMIG DFHSM command for data set HSM Display DFHSM prompt screen for data set HSM Display DFHSM prompt screen for data set IDC Display DFHSM prompt screen for data set IDC	Line	Block Line		
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RACF Request prompt screen for RACF functions REFR Refresh statistics for data set	. –			
REFR Refresh statistics for data set				
			Request prompt screen for RACF functions	
REN Rename data set			Refresh statistics for data set	
	REN		Rename data set	

Line	Block Line	
Command	Command	Function
S	SS	Select line (customized by SETSEL; default is C)
SEEK		Change to data set & search for a member
TAG		Mark entry with * TAG * in DATA/MSG field
U	UU	Display disk usage statistics
UNC		Uncatalog data set (invalid for SMS data sets)
UT		Request extended user line command panel
VSAM		Invoke VSAM services
W		Add data set name to WORKPAD
WHO		Check for users of data set with WHOHAS
X	XX	Drop the table line
XMIT		Transmit data set to another user
Z	ZZ	Edit records in load module & zap to disk

Note: DFHSM commands are supported from the UT panel.

FIND Command¹

Syntax

```
FIND memgroup 'search_string'
[NUM| SNUM| NONUM | LBLOCK | LDUMP | BLOCK | DUMP]
[CAPS|ASIS|IGNORE|PICTURE]
[WORD|PREFIX|SUFFIX]
[OFFSET(hexnum) MODULE({*|fullname|part*})]
[AFTER(num) DO(num) MAXMEMBERS(num)
    COLS (from: to)]
[AND('string2') ACOLS(from: to)
   {ACAPS|AASIS|AIGNORE|APICTURE}1
[OR('string3') OCOLS(from: to)
   {OCAPS|OASIS|OIGNORE|OPICTURE}]
[ORn('string_n') OCOLS(from: to)
    CAPS | OASIS | OIGNORE | OPICTURE } ]
[FORMAT(from: to {, from: to, ... | null}]
[SKIPREC(num) MAXIN(num) MAXOUT(num)
    MAXFIND(num)]
[SKIPCOL(num) MAXLEN(num) {FIRST|NOFIRST}]
[DISPLAY]
[THEN({ATTRIB|BROWSE|DIRENTRY|DELETE|EDIT|
    EXCLUDE | FSE | HISTORY | LIST | MAP | MEMBERS | MEMLIST |
    NEWML|PRINT|REVIEW|SUBMIT|SUBLIST|TSOEDIT|
    TSOLIST|VERIFY|VIEW})]
[ELSE({ATTRIB|BROWSE|DIRENTRY|DELETE|EDIT|
    EXCLUDE | FSE | HISTORY | LIST | MAP | MEMBERS | MEMLIST |
    NEWML|PRINT|REVIEW|SUBMIT|SUBLIST|TSOEDIT|
    TSOLIST|VERIFY|VIEW})]
```

```
[FROMKEY(key)|FROMADDRESS(address)|
FROMNUMBER(num)]<sup>2</sup>
[TOKEY(key)|TOADDRESS(address)|TONUMBER(num)]<sup>2</sup>
```

Example FIND mema: memb 'search_string'

Aliases FI, FIN

Defaults *memgroup*, NUM, IGNORE, or most recently used LIST/FIND/

REPLACE parameters

Required None

Example

Notes

1 In LISTC/LISTF tables, non-partitioned data sets are skipped.
In other tables, do not attempt to search mixed partitioned

and non-partitioned data sets concurrently.

² VSAM data sets only.

FIXPDS Command

```
Syntax
            FIXPDS
             [NEWDSNAME(new.data.set.name)]
            [MODDSNMAME(data.set.to.modify)
                {MODVOLUME(volume)}]<sup>1</sup>
             [ORDER]
             [EXPANDDIR(num add)|FREEDIR(num unused)|
                 DIRFREE(percent) | INITDIR(rblks) | RESET(tblks) |
                 RESET<sup>1</sup> {CHECK | NOCHECK}<sup>1</sup>1
            [RELEASE<sup>1</sup>|RELEXTENT|RELSAVE(trks)|
                 RELFREE(percent) | MAXSPACE]
            [DSCB(offset, verify hex data, replace hex data)]<sup>1</sup>
            [ADDTRK(trks)|ADDCYL(cyls)|ADDFREE(percent)]
             [TRK SPACE(trks)|CYL SPACE(cyls)|
                 BLK SPACE(blks) {ROUND}]<sup>1</sup>
            [LRECL({L1|nnnnn})]
             [BLKSIZE(\{L2|nnnnn\})]^1
             [DSORG({PS|PSU|DA|DAU|PO|POU|IS|ISU|VS|VSU})]
            [RECFM({F|FB|FA|FM|FBA|FBM|V|VB|VA|VM|VBA|VBM|
                 U|UA|UM})]
            [\mathbf{OPTCD}(\{W | WC | WCZ | C | CZ | Z\}) | NOOPTCD]^1
             [ASM|CLIST|CNTL|LOAD|OBJECT]
             [EXPDT(yyyyddd)|RETPD(retain days)]1
            [MGMTCLAS(sms mgmt class)]<sup>1</sup>
            [STORCLAS(sms storage class)]<sup>1</sup>
```

Ouick Reference 15

FIXPDS RELEASE RECFM(FBA)

Aliases FIX, FIXP, FIXPD

Defaults BLKSIZE(previous_value), LRECL(previous_value),

NOCHECK, OPTCD(previous_value),

RECFM(previous value)

Required None

Notes ¹ PDSE data sets only.

Member List Command

```
Syntax
            MEMLIST memgroup
            [SINCE|BEFORE]
            [TODAY|YESTERDAY|WEEK|CURRENT|BIWEEK|MONTH|
                 QUARTER | HALFYEAR | YEAR | BIYEAR | LAST (numdays) |
                 DATE(vvvv/mm/dd)]
            [CHANGED(yyyy/mm/dd:yyyy/mm/dd)]
            [CREATED (yyyy/mm/dd:yyyy/mm/dd)]
            [ABOVE ( count 1) ]
            [BELOW(count2)]
            [RESET| NORESET]
            [ALIAS|NOALIAS]
            [AMODE24|AMODE31|AMODE64|AMODEANY|NOAMODE24|
                 NOAMODE31|NOAMODE64|NOAMODEANY11
            [AUTH|NOAUTH] 1
            [DC|NODC]<sup>1</sup>
            [EDITINOEDIT11
            [EXEC|NOEXEC]<sup>1</sup>
            [FLEVEL|NOFLEVEL]1
            [HASALIAS|NOHASALIAS]
            [ID(puid)|NOID|NOTID(puid)]
            [LKED(partl)]^{1}
            [LKEDDATE | NOLKEDDATE] 1
            [LOADONLY | NOLOADONLY 1 1
            [MODULE(*|fullname|part*)]<sup>1</sup>
            [NULL | NONULL1
            [ORPHAN | NOORPHAN]
            [OVERLAY|NOOVERLAY]1
            [PAGE | NOPAGE 1 1
            [REFR|NOREFR]<sup>1</sup>
            [RENT|NORENT]1
            [REUS|NOREUS11
            [RMODE24|RMODEANY|NORMODE24|NORMODEANY] 1
            [SCTR|NOSCTR]<sup>1</sup>
            [SSI(hexdata)|SSI|NOSSI|PARTSSI(hexdata)]
```

[SYSMOD(partu)|USERDATA(partu)]

[TEST|NOTEST]¹
[TRANS(partt)]¹
[TTR(lttr:httr)]
[USERDATA(partu)|SYSMODE(partu)]¹
[USERID(puid)|NOUSERID|NOTUSERID(puid)]
[VSLKED|NOVSLKED]¹
[ZAP(partz)]¹

Example MEMLIST mema: memb

Aliases ML, MEML, MEMLI, MEMLIS

Defaults *memgroup*, NORESET, LKEDDATE, SINCE

Required None

Notes ¹ Load modules only.

PEDIT Command

Syntax PEDIT member | memgroup

[LOAD¹|NOLOAD²|BLOCK²]

[COPYBOOK³] [SELECT] [VIEW] [AUDIT] [BACKUP⁴]

[FROMKEY(*key*)|FROMADDRESS(*address*)|

FROMNUMBER(rrn)]⁵

 $[TOKEY(key)|TOADDRESS(address)|TONUMBER(rrn)]^5$

Example PEDIT

Aliases PE, PED, PEDI

Defaults LOAD (NOLOAD for non-KSDS VSAM data sets)

Required None

Notes ¹ LOAD and REUSE are synonymous.

² NOLOAD and BLOCK do not allow insertions or deletions.

³ COPYBOOK and CB are synonymous.

⁴ BACKUP edits a copy of the data set.

⁵ Applies to VSAM data sets only.

Interactive PEDIT Parameter Prompts (Options 1, 2, 4)

Screen Prompt	Allowed Values
Type of data set access	LOAD, REUSE, NOLOAD, BLOCK, BACKUP
Prompt for a copybook	YES, NO
View mode	YES, NO (YES disables SAVE subcommand)
Record selection	YES, NO (Use NO with LOAD or BLOCK)
Audit selection	YES, NO
Allowed shared access	YES, NO
REUSE option	YES, NO (YES requires VSAM REUS)

PEDIT Subcommands (PEDIT Command Line)

Subcommand	Alias	Function	
ACTIVATE	А	If COPYBOOK view is toggled ON, activate extended copybook processing and restart edit session.	
BOUNDS	BNDS, BOU	Sets column number boundaries for subsequent FIND, CHANGE, and SHIFT subcommands. Syntax: BOUNDS {col1 col1 col2 LIST1 OFF} Defaults: OFF Notes: 1 LIST shows current boundary columns.	
CANCEL	CAN	Exits PEDIT without saving changes.	
CAPS		Forces typed alphabetic characters to upper case. Syntax: CAPS {0N 0FF N0TKEY¹} Defaults: 0N Notes: ¹N0TKEY turns on CAPS for all fields except key fields.	
СВМАР	СВМ	Sets default copybook data set and member name for COPYBOOK command and displays that copybook without data. COBOL, PL/I, or Assembler supported. See also: COPYBOOK, HIDE, SCREEN, SHOW, VERTICAL	
CHANGE	С	Find and replace character or hexadecimal string. Syntax: CHANGE old_string^1 new_string^1 [col1 col2] [NEXT PREV FIRST LAST ALL] [PREFIX^2 SUFFIX^3 WORD^4] [ASIS]^5 Defaults: NEXT Notes: 1 Replacement string must be same length as search string. 2 PREFIX finds old_string immediately preceding an alphanumeric (A-Z, a-z, 0-9). 3 SUFFIX finds old_string immediately following an alphanumeric (A-Z, a-z, 0-9). 4 WORD finds old_string delimited by spaces and/or punctuation. 5 ASIS specifies case-sensitive search. See also: FIND, RCHANGE	
CLOSE		Exits PEDIT and saves changes. (Same as END.)	

	A 11	
Subcommand	Alias	Function
СОРУВООК	СВ	Toggles between unformatted and copybook- formatted views of data. Optionally invokes extended copybook processing. Syntax: COPYBOOK [ON OFF]
CREATE		Creates new partitioned data set (PDS) member and populates it with marked records from PEDIT session. Syntax: CREATE [member] See also: REPLACE
CUT		Copies selected records to clipboard or table. Syntax: CUT [xx] ¹ [ADD REPLACE DEFAULTS] Notes: ¹ Two-byte table name in user profile may be specified to store copied records. See also: PASTE
DISPLAY	DIS	Displays menu of copybook commands.
END		Exits PEDIT and saves changes. (Same as CLOSE.)
FIND	F	Finds character or hexadecimal string. Syntax: FIND string [col1 col2] [NEXT PREV FIRST LAST ALL] [PREFIX ¹ SUFFIX ² WORD ³] [ASIS] ⁴ [CHECK] ⁵ [NAME] ⁶ Defaults: NEXT Notes: ¹ PREFIX finds string immediately preceding an alphanumeric (A-Z, a-z, 0-9). ² SUFFIX finds string immediately following an alphanumeric (A-Z, a-z, 0-9). ³ WORD finds string delimited by spaces and/or punctuation. ⁴ ASIS specifies case-sensitive search. ⁵ CHECK validates packed decimal fields. ⁶ NAME finds copybook field name string rather than data value string. See also: CHANGE, RFIND
HEX		Toggles hexadecimal data display format.

Subcommand	Alias	Function
		Hides all or selected fields while in copybook or
		vertical copybook display mode.
		Syntax: HIDE [ALL field_name field_pattern
		<pre>field_num field_num1 TO field_num2]</pre>
HIDE		[GROUP] ¹
		Defaults: ALL Notes: ¹ GROUP hides all selected fields at a given
		level number (COBOL).
		See also: CBMAP, COPYBOOK, SCREEN, SHOW,
		VERTICAL
KEY		Positions display at record containing specified key.
KLI		Syntax: KEY 'key_value' x'hex_key_value'
LOCATE	L	Positions display at specified record number.
	_	Syntax: LOCATE record_number
		Positions display at next <i>n</i> th record. Syntax: NEXT [<i>n</i> SET ¹ MAX]
		Syntax: NEXT [n SET ¹ MAX] Defaults: 1 SET
		Notes: ¹ n SET sets default ordinal value of next
NEXT	N	record displayed. For n=1, the "next"
		record is the first subsequent record;
		for n=2, the "next" record is the second
		subsequent record; etc.
		See also: PREVIOUS
		Outputs the current record in the currently selected display mode (character, hexadecimal, or copybook)
OUTPUT	OUT	to the printer or a data set.
		Syntax: OUTPUT [=c F(ddname)]
		Changes the default pad character and sets the
PAD		column number where padding terminates.
		Syntax: PAD {char c' x'nn'} column
		Pastes previously CUT records from clipboard or table into active edit session.
		Syntax: PASTE $[xx]^1$ [ZERO KEEP DEFAULTS]
PASTE		Notes: ¹ Two-byte table name in user profile may
		be specified as source of copied records.
		See also: CUT
		Positions display at previous <i>n</i> th record.
		Syntax: NEXT [n SET1 MAX]
		Defaults: 1 SET Notes: ¹ n SET sets the default ordinal value of the
PREVIOUS	P	previous record displayed. For n=1, the
I NEVIOUS		previous record displayed. For fi-1, the
		record; for n=2, the previous record is
		the second prior record; etc.
		See also: NEXT
RCHANGE	RCH	Repeat previous CHANGE command.
		Replaces existing partitioned data set (PDS) member
REPLACE	RFPI	and populates it with selected records from active PEDIT session.
KLYLACE	KEPL	Syntax: REPLACE [member]
		See also: CREATE
RESET		Clears all pending line commands without executing.
RFIND	RF	Repeat previous FIND command.

Subcommand	Alias	Function
SAVE		Saves changes and continues current session.
SCREEN		Changes data formatting and column headers displayed in copybook view. Syntax: SCREEN [TYPE PICTURE OFFSET COLUMN NUMBER] 1 [DATA NODATA HEX] 2 [KEY LENGTH] 3 [LEAD NOLEAD] [LEV88 NOLEV88] Defaults: TYPE, DATA Notes: 1 Defines how data type is described and sets header accordingly. TYPE Length & type, eg 2 PAC 4 PICTURE COBOL PICTURE, eg S99V9 OFFSET Byte offset to field, eg 60 COLUMN Starting column of field, eg 61 NUMBER . Field number, eg 4 2 Sets data value display to alphanumeric decimal, hexadecimal, or none. If NODATA selected, data type is COLUMN. 3 LENGTH shows physical record length after record number. KEY shows key value after record number (for VSAM KSDS data sets). 4 See copybook data type codes, page 23. See also: CBMAP, COPYBOOK, HIDE, SHOW, VERTICAL
SHOW		Shows all or selected fields while in copybook or vertical copybook display mode. Syntax: SHOW [ALL field_name field_pattern field_num field_num1 TO field_num2] [GROUP] [ONLY] Defaults: ALL Notes: 1GROUP hides all selected fields at a given level number (COBOL). 2ONLY restricts displayed values to only those specified in SHOW command. See also: CBMAP, COPYBOOK, SCREEN, HIDE, VERTICAL
SORT		Sorts VSAM KSDS data set in ascending order by key. Syntax: SORT
SUBMIT	SUB	Submits JCL member(s) to JES for background execution. Syntax: SUBMIT memgroup [TSO_SUBMIT_operands]

Subcommand	Alias	Function
VERTICAL	VERT	In copybook mode, toggles between standard single- line headers and multiline headers with rich data descriptions. Optionally invokes new copybook. Syntax: VERTICAL [ON OFF NEW¹ [member]] [NAME NONAME]² [TYPE NOTYPE]² [PIC NOPIC]² [COL NOCOL]² [NUM NONUM]² [ALL DEFAULT NOHEADER]³ [LEV1 NOLEV1] [LEV88 NOLEV88] [ONLY]⁴ Defaults: ON if currently OFF, OFF if currently ON, NEW if no default copybook set, NAME, TYPE, NOPIC, COL, NUM Notes: ¹NEW sets default copybook to member. If member omitted, prompt panel displays. ²Turns on data description header line. NAME Field name, eg PAY-RATE TYPE Length & type, eg 2 PAC⁵ PICTURE COBOL PICTURE, eg S99V9 COLUMN Column range, eg (61-62) NUMBER . Field number, eg 4 ³ALL displays all five header lines, DEFAULT reverts to default four header lines, and NOHEADER removes all header lines. ⁴ONLY restricts displayed values to those specified in VERTICAL command. ⁵See copybook data type codes, page 23. See also: CBMAP, COPYBOOK, SCREEN, SHOW, HIDE

PEDIT Line Commands

Line Command	Name	Function
?	HELP	Displays list of PEDIT line commands.
=	SAME	Repeats previous line command.
A	AFTER	Marks line as insertion target for COPY or MOVE line command, with new line to be inserted <i>after</i> this marked line.
В	BEFORE	Marks line as insertion target for COPY or MOVE line command, with new line to be inserted <i>before</i> this marked line.
С	COPY	Marks one line to be copied to target A or B.
C <i>n</i>	COPY n	Marks first of <i>n</i> lines to be copied to target A or B.
СС	COPY BLOCK	Delimits first and last lines of a block to be copied in a single operation to target A or B.
COLS	COLUMNS	Displays a column number ruler for line.
D	DELETE	Marks one line to be deleted.

Line Command	Name	Function
D <i>n</i>	DELETE n	Marks first of <i>n</i> lines to be deleted.
DD	DELETE BLOCK	in a single operation.
I	INSERT	Inserts one new line immediately prior to this marked line. (Line is automatically filled with pad character as specified by PAD subcommand.)
In	INSERT n	Inserts <i>n</i> new lines immediately prior to this marked line. (Lines are automatically filled with pad character as specified by PAD subcommand.)
M	MOVE	Marks one line to be moved to target A or B.
M <i>n</i>	MOVE n	Marks first of <i>n</i> lines to be moved to target A or B.
MM	MOVE BLOCK	Delimits first and last lines of a block to be moved in a single operation to target A or B.
R	REPEAT	Marks one line to be repeated once.
R <i>n</i>	REPEAT n	Marks one line to be repeated <i>n</i> times (in <i>n</i> subsequent new lines).
RR	REPEAT BLOCK	Delimits first and last lines of a block to be repeated once (in one block of duplicate new lines).
RR <i>n</i>	REPEAT BLOCK n	Delimits first and last lines of a block to be repeated n times (in n blocks of duplicate new lines).
)	SHIFT RIGHT	Shift line data right one column.
) <i>n</i>	SHIFT RIGHT n	Shift line data right <i>n</i> columns.
))	SHIFT BLOCK RIGHT	Delimits first and last lines of a block to be shifted right one column.
))n	SHIFT BLOCK RIGHT n	Delimits first and last lines of a block to be shifted right n columns.
(SHIFT LEFT	Shift line data left one column.
(n	SHIFT LEFT n	Shift line data left <i>n</i> columns.
((SHIFT BLOCK LEFT	Delimits first and last lines of a block to be shifted left one column.
((n	SHIFT BLOCK LEFT <i>n</i>	Delimits first and last lines of a block to be shifted left <i>n</i> columns.

PEDIT Copybook Data Type Codes (Header Line)

Code	Meaning	Code	Meaning
BIN	Binary number	CHR	Alphanumeric character data
BIT	PL/I bit string	GRP	Multifield group item
C-1	floating point number	NUM	Decimal number
C-2	Double precision floating point number	PAC	Packed decimal number

REPLACE Command^{1, 2}

Syntax

REPLACE *memgroup* 'search_string' 'replace_string' [NUM|SNUM|NONUM|LBLOCK|LDUMP|BLOCK|DUMP] [CAPS|ASIS|IGNORE|PICTURE] [STATS|NOSTATS] [WRITE|NOWRITE|UPDATE|NOUPDATE] [WORD|PREFIX|SUFFIX] [OFFSET(hexnum) MODULE({*|fullname|part*})] [AFTER(num) DO(num) MAXMEMBERS(num) COLS (from: to) 1 [AND('string2') ACOLS(from: to) ACAPS|AASIS| AIGNORE | APICTURE | [OR('string3') OCOLS(from: to) OCAPS|OASIS| OIGNORE | OPICTURE 1 [FORMAT(from: to {, from: to, ... }] [SKIPREC(num) MAXIN(num) MAXOUT(num) MAXFIND (num) 1 [SKIPCOL(num) MAXLEN(num) {FIRST|NOFIRST}] [MEMBERS|MEMLIST|ML|NEWML|SUBLIST] [FROMKEY(key)|FROMADDRESS(address)| FROMNUMBER (num) 1³ $[TOKEY(key)|TOADDRESS(address)|TONUMBER(num)1^3]$

Example REPLACE mema: memb 'string1' 'string2'

Aliases REP, REPL, REPLA, REPLAC

Defaults *memgroup*, NUM, IGNORE, NOWRITE, STATS, or most recently

used LIST/FIND/REPLACE parameters

Required None

Notes

In LISTC/LISTF tables, non-partitioned data sets are skipped. In other tables, do not attempt to search mixed partitioned and non-partitioned data sets concurrently.

² In load modules and VSAM files, search string and replacement string must be of equal length.

³ VSAM data sets only.

RESTORE Command

Syntax

RESTORE member
[DISPLAY|NODISPLAY]
[COUNT(#lines_to_display)]

[FIND('search_string') {ASIS|IGNORE}]
[LIKE(member)]
[MODULE({*|fullname|part*)}]
[PROMPT|NOPROMPT]
[REPEAT|NOREPEAT|MEMLIST]
[STATS|NOSTATS]
[TTR(start_address)]

Example RESTORE member FIND('mydata') MEMLIST

Aliases RES, REST, RESTO, RESTOR

Defaults COUNT(5), DISPLAY, PROMPT, STATS, TTR(0)

Required None

StarBat Option

StarBat performs automated StarTool FDM tasks in batch mode. It is a separately licensed option of StarTool FDM.

Sample JCL

```
//STARBAT1 JOB
                 (JOB CARD PARAMETERS)
           EXEC PGM=STARBAT, REGION=2048K
//STFPONE
                DSN=STEPLIB, DATA.SET, DISP=SHR
//STFPLTB
           DD
                DSN=SAMPLE.INPUT.DATA.SET,DISP=SHR
//DD03
           DD
                DSN=SAMPLE.OUTPUT.DATA.SET.DISP=SHR
//DD030
           DD
//SYSPRINT DD
                SYSOUT=*
//SYSLIST
           DD
                SYSOUT=*
//SYSTOTAL DD
                SYSOUT=*
//SYSIN
           DD
DD03
           COPYALL=(1,0,C'PGM=PROGRAMF',C'PGM=STARBAT'),
           PRINTCHR=100
```

StarBat Functions

Function	Alias	Description
COPYALL	CA	Copy all members from one data set to another, with multiple conditional updates to copied records
COPYMBR	CM	Conditionally copy members based on content
COPYREC	CR	Conditionally copy records based on content
COPYREV	CRR	Copy records from sequential or VSAM data set in reverse order
COPYSOME	CS	Conditionally copy records based on content, with multiple conditional updates to copied records
EXCLUDEREC	XR	Copy all records except those with stated conditions
MULTICOPY	MC	Conditionally copy records to multiple data sets
PRINT	Р	Conditionally print records based on content, in alphanumeric format, with record statistics
PRINTALL	PA	Print all records of a member or data set, with multiple conditional updates to printed records
PRINTCHR	PC	Conditionally print records based on content, in alphanumeric format, without record statistics
PRINTCHRALL	PCA	Print all records in alphanumeric format, with multiple conditional updates to printed records
PRINTCHRMBR	PCM	Conditionally print members based on content, in alphanumeric format, without record statistics
PRINTHEX	PH	Conditionally print records based on content, in vertical hexadecimal format, with record statistics
PRINTHEXALL	PHA	Print all records in vertical hexadecimal format, with multiple conditional updates to printed records
PRINTHEXMBR	PHM	Conditionally print members based on content, in vertical hexadecimal format, with record statistics
PRINTMBR	PM	Conditionally print members based on content, in alphanumeric format, with record statistics
PRINTREV	PRR	Print sequential or VSAM data sets in reverse order

Function	Alias	Description
SKIP	S	Move the current record pointer forward <i>n</i> records
SKIPREV	SKR	Move the current record pointer backward <i>n</i> records
TOTAL	Τ	Calculate data validation totals
UPDATEALL	UA	Update all records in data set, applying multiple conditional updates
UPDATEMBR	UM	Conditionally update members based on content
UPDATEREC	UR	Conditionally update records based on content

StarBat Parameters

Parameter	Alias	Values & Syntax
ABEND	АВ	0 - Issue return code at normal EOJ 1 - Issue U0012 ABEND dump for I/O error (default) 2 - Issue user ABEND at non-zero return code
CHANGE	С	(start, {length 0}, type'search_string', type'new_string') (position, operator, type'value', type'new_string')
CHANGEALL	CA	(start, {length 0}, type'search_string', type'new_string')
COPYOVER	СО	YES - Overwrite existing PDS member NO - Don't overwrite existing PDS member
EXCLUDEREC	XR	1 to 999999999
EXPAND	EX	(start, {B C N P}, old_length, new_length)
IF, AND, OR		(start, {length 0}, type'search_string') (start, {length 0}, {EQN EQP NEN NEP}) (position, operator, type'value')
MAXRECIN	MRI	1 to 99999999, or 0 for all records
MAXRECOUT	MRO	1 to 99999999, or 0 for all records
MEMBER	М	{member_name (member1, member2,)}
MEMBERS	MS	{ALL member_name_mask range_start:range_end}
MOVE	MV	(to_position, {number_repeats null} type'string') (to_position, {length 0}, from_position)
NEWMBR	NM	New member name
NEWMBRS	NMS	Mask applied to old name(s) to create new name(s)
OPTIONS	OP	LONG - print column scale for each record (default) SHORT - print column scale at top of page JCL - invoke JCL processing MULTI - at EOF, another function rereads data set NOMULTI- normal EOF processing
OVERALL	OA	(start, {length 0}, type'search_string', type'new_string') (from_position, {length 0}, type'search_string', to_position, type'new_string')
OVERLAY	OL	 (to_position, {number_repeats null} type'string') (start, {length 0}, type'search_string', type'new_string') (position, operator, type'value', type'new_string') (from_position, {length 0}, type'search_string', to_position, type'new_string') (from_position, operator, type'value', to_position, type'new_string')

Parameter	Alias	Values & Syntax
PADCHAR	PAD	{C'c' X'xx'}
PRINT	Р	1 to 99999999, or 0 for all records
PRINTCHR	PC	1 to 99999999, or 0 for all records
PRINTHEX	PH	1 to 99999999, or 0 for all records
PRINTLPI	PL	{6 8}
RBA		nn - Decimal RBA (VSAM) or RRN (ESDS, KSDS) X'nn' - Hex RBA (VSAM) or RRN (ESDS, KSDS)
RDW		0 - Include RDW in record processing & display (default) 1 - Include RDW in record processing but not display 2 - Omit RDW in record processing but show in display 3 - Omit RDW in both record processing & display
SELECT	S	1 to 999999999 (nth record)
STARTKEY	SK	{C'cc' X'xx'}
STOPIF	ST	(start, {length 0}, type'search_string')
SUM		(start, 'description_of_total') - for packed data (start, length, {C B}, 'description_of_total') - char/ binary
WRITE	W	{ddname (ddname1, ddname2,)}

Note: Braces indicate a choice among alternatives separated by slashes.