

OPERATION CREATING MACROS

TO CREATE OPERATION GIVE

- 1) INDEX IN LOCAL C-LIST FOR COMPLETED OPER
- 2) NUMBER OF PARAMETERS
- 3) C-LIST INDEX (MAY BE INDIRECT) FOR SUBPROCESS
- 4) SEQUENCE OF PARAMETER SPECIFICATIONS
 - ↑U↑DAT↑ ..USER DATUM
 - (↑F↑DAT↑,VALUE) ..FIXED DATUM
 - (↑I↑CAP↑,TYPE,OPTIONS) ..USER CAP
 - OPTIONS GOES IN A ↑V↑ED 42/OPTIONS,19/0↑
 - (↑B↑LKD↑,MAX) ..BLOCK DATA

NOTE: ↑OPERATE↑ DESTROYS A5/X5, A6/X6, A7/X7

U↑DAT	MACRO USRDAT ENDM	OPER, INDEX OPER, INDEX	USER DATUM
F↑DAT	MACRO USRDAT FIXDAT ENDM	OPER, INDEX, VALUE OPER, INDEX OPER, INDEX, VALUE	FIXED DATUM
INDEX	SET ENDM	INDEX-1	FIXED PARAM DISAPPEARS
I↑CAP L1 L2	MACRO LOCAL JP V↑ED SAS USRCAP ENDM	OPER, INDEX, TYPE, OPTIONS L1:L2 L2 42/OPTIONS, 18/0 L1 OPER, INDEX, (TYPE), (,X5)	USER CAPABILITY
B↑LKD	MACRO BLKDAT ENDM	OPER, INDEX, MAX OPER, INDEX, MAX	BLOCK DATA

Handwritten annotations:
 An arrow points from the text "60/options" (circled) to the line "42/OPTIONS, 18/0".
 The word "ANY" is written vertically near the arrow.

PROCESS ONE PARAMETER (CALL PROPER MACRO)

PARAM	MACRO SPEC ENDM	OPER, INDEX, SPEC, P1, P2, P3 OPER, INDEX, (P1), (P2), (P3)
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PROCESS ALL PARAMETERS (UP TO NULL PARAM)

S↑PEC CT	MACRO IFC PARAM SET P↑SPEC	CT, OPER, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10 NE, /P1// OPER, CT, P1 CT+1 CT, OPER, (P2), (P3), (P4), (P5), (P6), (P7), (P8), (P9), (P10)
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ENDIF
ENDM

CONSTRUCT AN OPERATION

OPERATE MACRO CX,NUMPAR,SUBP,P1,P2,P3,P4,P5,P6,P7,P8,P9,P10
LOCAL CT
SET U
CREOPER ALLOC,CX,BU,(SUBP),NUMPAR
PSPEC CT,CX,(P1),(P2),(P3),(P4),(P5),(P6),(P7),(P8),(P9),(P10)
ENDM

ADD ORDER TO EXISTING OPERATION

EXTOPER MACRO OLDC,NOLDP,NEW,NNEWP,SUBP,P1,P2,P3,P4,P5,P6,P7,P8,P9,P10
LOCAL CT
SET NOLDP
ADDORD (ALLOC),NEW,(OLDC),(SUBP),NNEWP
PSPEC CT,NEW,(P1),(P2),(P3),(P4),(P5),(P6),(P7),(P8),(P9),(P10)
ENDM

CREATE A DISK SYSTEM CALL OPERATION

DSKOPER MACRO NAME,SUBP,NUMPAR,PS1,PS2,PS3,PS4,PS5,PS6,PS7,PS8,PS9
OPERATE CTEMP,NUMPAR+1,(SUBP),(FDAT,N,NAME),(PS1),(PS2),(P
,PS3),(PS4),(PS5),(PS6),(PS7),(PS8),(PS9)
CAPOUT OPERCL,=XDO,NAME,CTEMP
ENDM

EXTEND AN ECS CALL OPERATION TO A DISK CALL

XDSKOPER MACRO OLD,NOLDP,NEW,SUBP,NNEWP,P1,P2,P3,P4,P5,P6,P7,P8,P9
EXTOPER (OPERCL,=XEO,OLD),NOLDP,CTEMP,NNEWP+1,(SUBP),(FDAT,N
,NEW),(P1),(P2),(P3),(P4),(P5),(P6),(P7),(P8),(P9)
CAPOUT OPERCL,=XDO,NEW,CTEMP
ENDM

INITIALIZATION OPERATIONS

IDSKOPER MACRO NAME,SUBP,NUMPAR,PS1,PS2,PS3,PS4,PS5,PS6,PS7,PS8,PS9
OPERATE =X,NAME,NUMPAR+1,(SUBP),(FDAT,N,NAME),(PS1),(PS2),(P
,PS3),(PS4),(PS5),(PS6),(PS7),(PS8),(PS9)

ENDM

END OF FILE

