

TITLE SYSTEM-CALLING MACROS

OPENRO MACRO FILE,FRFT,ECSFI
LOCAL AUTH
CAPAB 0,=XCL.OP\$,:=XDF:OPRO
CAPAB 1,FILE
SYSCALL IPLIST,FRFT,AUTH
USE AUTHS
AUTH RPAUTH (0,0),(ECSFI,1)
USE *
ENDM

OPENRW MACRO FILE,FRFT,ECSFI
LOCAL AUTH
CAPAB 0,=XCL.OP\$,:=XDF:OPRW
CAPAB 1,FILE
SYSCALL IPLIST,FRFT,AUTH
USE AUTHS
AUTH RPAUTH (0,0),(ECSFI,1)
USE *
ENDM

XOPEN MACRO FILE,FRFT,ECSFI
LOCAL AUTH
CAPAB 0,=XCL.OP\$,:=XDF:XOPN
CAPAB 1,FILE
SYSCALL IPLIST,FRFT,AUTH
USE AUTHS
AUTH RPAUTH (0,0),(ECSFI,1)
USE *
ENDM

CLOSE MACRO ECSFI
CAPAB 0,=XCL.OP\$,:=XDF:CLOSE
CAPAB 1,ECSFI
SYSCALL IPLIST
ENDM

PCLOSE MACRO FILE
CAPAB 0,=XCL.OP\$,:=XDF:PCLS
CAPAB 1,FILE
SYSCALL IPLIST
ENDM

DFIL MACRO FILE
CAPAB 0,=XCL.OP\$,:=XDF:DFIL
CAPAB 1,FILE
SYSCALL IPLIST
ENDM

EXCLIM MACRO FILE
CAPAB 0,=XCL.OP\$,:=XDF:ECLM
CAPAB 1,FILE
SYSCALL IPLIST
ENDM

RELEASE MACRO FILE

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|---------|---|
| CAPAB | 0,=XCL:OPC,=XDF:RSE |
| CAPAB | 1,FILE |
| SYSCALL | IPLIST |
| ENDM | |
| DSPDF | MACRO UNIONNM,DAUTH LOCAL AUTH CAPAB 0,=XCL:OPC,=XDF:DSE DATUM 1,UNIQNM SYSCALL IPLIST,,AITH USE AUTH RPAUTH (DAUTH).(0:0) USE * ENDM |
| INMAPRO | MACRO SUBP,MINDX,FILE:FADDR,CMADDR,WC CAPAB 0,=XCL:OPC,=XDF:MMRO CAPAB 1,SURP DATUM 2,MINDX CAPAB 3,FILE DATUM 4,FADDR DATUM 5,CMADDR DATUM 6,WC SYSCALL IPLIST ENDM |
| ZEROMAP | MACRO SUBP,MINDX,FILE CAPAB 0,=XCL:OPC,=XDF:ZRM CAPAB 1,SUBP DATUM 2,MINDX CAPAB 3,FILE SYSCALL IPLIST ENDM |
| INMAPRW | MACRO SUBP,MINDX,FILE:FADDR,CMADDR,WC CAPAB 0,=XCL:OPC,=XDF:MMRW CAPAB 1,SUBP DATUM 2,MINDX CAPAB 3,FILE DATUM 4,FADDR DATUM 5,CMADDR DATUM 6,WC SYSCALL IPLIST ENDM |
| CRCAP | MACRO WCINDEX,AUTH,DAT CAPAB 0,=XCL:OPC,=XEC:CCAP DATUM 1,WCINDEX CAPAB 2,AUTH DATUM 3,DAT SYSCALL IPLIST ENDM |
| COPYCAP | MACRO FROM,TO,MASK CAPAB 0,=XCL:OPC,=XEC:MCAP DATUM 1,FROM DATUM 2,TO |

DATUM 3,MASK
SYSCALL IPLIST
ENDM

CAPOUT MACRO CLIST,INDX,WCINDX
CAPAB 0,=XCL,OP\$,=XEC,COUT
CAPAB 1,CLIST
DATUM 2,INDX
DATUM 3,WCINDX
SYSCALL IPLIST
ENDM

CAPIN MACRO CLIST,INDX,WCINDX
CAPAB 0,=XCL,OP\$,=XEC,CIN
CAPAB 1,CLIST
DATUM 2,INDX
DATUM 3,WCINDX
SYSCALL IPLIST
ENDM

CHGMAPRO MACRO SUBP,MINDX,FILE,FADDR,CMADDR,WC,OLDFILE
CAPAB 0,=XCL,OP\$,=XDF,CMR0
CAPAB 1,SUBP
DATUM 2,MINDX
CAPAB 3,FILE
DATUM 4,FADDR
DATUM 5,CMADDR
DATUM 6,WC
CAPAB 7,OLDFILE
SYSCALL IPLIST
ENDM

CHGMAPRW MACRO SUBP,MINDX,FILE,FADDR,CMADDR,WC,OLDFILE
CAPAB 0,=XCL,OP\$,=XDF,CMRW
CAPAB 1,SUBP
DATUM 2,MINDX
CAPAB 3,FILE
DATUM 4,FADDR
DATUM 5,CMADDR
DATUM 6,WC
CAPAB 7,OLDFILE
SYSCALL IPLIST
ENDM

CFIL MACRO ACCPNT,SHAPES,UNDA,ECSFILE
LOCAL AUTH
CAPAB 0,=XCL,OP\$,=XDF,CFIL
DATUM 1,ACCPNT
BLKDAT 2,SHAPES
SYSCALL IPLIST,AUTH
AUTH USE RPAUTH
USE (UNDA,T),(ECSFILE,T)
*
ENDM

WRITE MACRO FILE,FADDR,CMADDR,WC,FRET

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|---------|---|
| CAPAB | 0,=XCL,OP\$,=XDF!WRIT |
| CAPAB | 1,FILE |
| DATUM | 2,FADDR |
| DATUM | 3,CMADDR |
| DATUM | 4,WC |
| SYSCALL | IPLIST,FRET |
| ENDM | |
| READ | MACRO FILE,FADDR,CMADDR,WC,FRET |
| CAPAB | 0,=XCL,OP\$,=XDF!READ |
| CAPAB | 1,FILE |
| DATUM | 2,FADDR |
| DATUM | 3,CMADDR |
| DATUM | 4,WC |
| SYSCALL | IPLIST,FRET |
| ENDM | |
| ABSV | MACRO SERVICE,PAR1,PAR2,PAR3,DAUTH,FRET |
| LOCAL | AUTH |
| CAPAB | 0,=XCL,OP\$,=XDF!ABSV |
| DATUM | 1,SERVICE |
| DATUM | 2,PAR1 |
| DATUM | 3,PAR2 |
| DATUM | 4,PAR3 |
| AAA | IFC EQ\$/DAUTH// |
| AAA | ELSE SYSCALL IPLIST,FRET |
| AUTH | USE SYSCALL IPLIST,FRET,AUTH |
| AUTH | AUTH\$ (DAUTH), (n,0) |
| AAA | USE ENDIF |
| AAA | ENDM |

* ACCOUNTING BLOCK SERVICES

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|--------------|---|-----------------------------|
| ABSV.CRE EQU | 0 | .. CREATE |
| ABSV.ACT EQU | 1 | .. ACTIVATE |
| ABSV.DES EQU | 2 | .. DESTROY |
| ABSV.DSP EQU | 3 | .. DISPLAY |
| ABSV.MFS EQU | 4 | .. MOVE SPACE FATHER-TO-SON |
| ABSV.MSF EQU | 5 | .. SON-TO-FATHER |
| ABSV.ICM EQU | 6 | .. INCREMENT CHARGE METER |
| ABSV.STG EQU | 7 | .. SET ACCOUNTING TAG |

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|---------------|------------------------|
| SETPCNT MACRO | SUBP,SKIP,PCNT,FRET |
| CAPAB | 0,=XCL,OP\$,=EXEC!SETP |
| CAPAB | 1,SURP |
| DATUM | 2,SKIP |
| DATUM | 3,PCNT |
| SYSCALL | IPLIST,FRET |
| ENDM | |

| | |
|--------------|------------------------|
| RETERR MACRO | CLASS,NUMBER |
| CAPAB | 0,=XCL,OP\$,=EXEC!RERR |
| DATUM | 1,CLASS |

DATUM 2,NUMBER
SYSCALL IPLIST
ENDM

DISPCAP MACRO CAP
CAPAB 0,=XCL.0P6,=XEC:DSCP
CAPAB 1,CAP
SYSCALL IPLIST
ENDM

SENDEV MACRO CHANNEL,EVENT
CAPAB 0,=XCL.0P6,=XEC:SEV
CAPAB 1,CHANNEL
DATUM 2,EVENT
SYSCALL IPLIST
ENDM

GEVH MACRO CHANNEL
CAPAB 0,=XCL.0P6,=XEC:GEVH
CAPAB 1,CHANNEL
SYSCALL IPLIST
ENDM

CAPAB MACRO IPNO,P1,P2
XX IFC NE*/P1/*/
SX6 P1
YY IFC NE*/P2//
SX7 P2
LX7 30
BX6 X7*X6
MX7 1
YY BX6 X7*X6
ENDIF
SA6 IPLIST+IPNO
XX ENDIF
ENDM

DATUM MACRO IPNO,P1,P2
XX IFC NE*/P1/*/
YY IFC NE*/P2//
YY BX6 P2
ELSE SX6 P1
YY ENDIF
SA6 IPLIST+IPNO
XX ENDIF
ENDM

BLKDAT MACRO IPNO,P1,P2
IFC NE*/P1/*/
SX6 P2
SX7 P1
LX6 30
BX6 X6*X7
SA6 IPLIST+IPNO
ENDIF

ENDM

* MACRO TO ASSEMBLE A [POSSIBLY INDIRECT] CAPABILITY PARAMETER

C: MACRO P1,P2
IFC NE,P2//
VFD 1/1,29/=X,P2,30/=X,P1
ELSE
VFD 60/=X,P1
ENDIF
ENDM

* MACRO TO ASSEMBLE A [POSSIBLY TWO-PART] DATUM PARAMETER

D: MACRO P1,P2
IFC NE,P2//
VFD 30/P2,30/=X,P1
ELSE
VFD 60/P1
ENDIF
ENDM

NAME MACRO IP0,NAME,ACTION
ENTRY NAME
NAME CI CL,OPS,ACTION
ENDM

SYSCALL MACRO ADDR,FRET,AUTH
XJ =X,ADDR
IFC EQ, /FRET,AUTH//
VFD 30/0
ELSE
IFC NE, /FRET//
IFC EG, /AUTH//
VFD 12/0,IR/1
JP FRET
ELSE
VFD 12/1,IR/1
JP FRET
VFD 30/AUTH
ENDIF
ELSE
VFD 12/1,IR/1
JP *+1
VFD 30/AUTH
ENDIF
ENDIF
ENDM

RPAUTH MACRO DATA,CAPS
SPECIFY DATA
SPECIFY CAPS
ENDM

SPECIFY MACRO LOCATION,NUMBER
VFD 15/0,15/NUMBER,12/0,18/LOCATION

ENDM

ON•ERR MACRO ROUTINE
SX6 ROUTINE
SA6 =XERRLOC
ENDM

OFF•ERR MACRO
BX6 X6=X6
SA6 =XERRLOC
ENDM

