GET +BCRLGDS+S+
EXTERNAL TOP // OPERATIONS TO GET OUT OF OPERCL
  DRIACC = +DRIUACC+
  LCASSI = +LCIASCY+
  ECMCAP = +ECIWCAP+
  ECOOUT = +ECIWOOUT+
  ECSEV = +ECIWSERV+
  ECGEVH = +ECIWGEVH+
  DFPQHW = +DFQPHW+
  DFBIRZ = +DFBIRZ+
  DFPQBA = +DFIPQBA+
  DFRQSD = +DFIRQSD+
  DFWRIT = +DFIWRIT+
  DFPCLS = +DFIPCLS+
  DFCLO = +DFICLO+

IOP
EXTERNAL ICAPS // CAPABILITIES DECLARED IN HEAD
  DAYFILE
  DAYF
  PROFILE
  OPERCL
  CLASSCD
  CODFILE
  ICAPS

MANIFEST IDX // INDEXES IN VARIOUS PLACES TO LINK WITH BEADS
  PHPRF = + PHPRF
  PHEND = + PHEND
  PHACT = + PHACT
  PHADESC = + PHADESC

CMMOSTF = + CMMOSTF

CSQROTD = + CSQROTD
CSMLTAK = + CSMLTAK
CSMLTAK = + CSMLTAK
CSNRDF = + CSNRDF
CSPOAY = + CSPOAY
CSDFPP = + CSDFPP

ATWOSD = + ATWOSD
ATRSL = + ATRSL
ATDSTRO = + ATDSTRO

PLOGCT = + PLOGCT
PFATHER = + PFATHER
PSDEVT = + PSDEVT
PLINK = + PLINK
PMINUS = + PMINUS

IDX

MANIFEST // VARIOUS CONSTANTS
  DFHLSZ = 256 // DAYFILE BLOCK SIZE
  PFIHLSZ = 256 // PROFILE BLOCK SIZE
  DFSIZE = 16 // DAYFILE ENTRY SIZE
**CLNPRF**

\[ \text{FSIZE} = 32 \]  // PROFILE ENTRY SIZE
\[ \text{LOGCIMSK} = 77778 \]
\[ \text{LOWN} = 7777777778 \]
\[ \text{MINACT} = 2^8 \text{AMASK} \]

LET \( \text{START}() \) BE [START]
LET \( \text{CAS}(x) = 1 + 50 \leq x \leq 85 \)
LET \( \text{OPR}(x) = 1 + 50 \leq x \leq 85 \)
LET \( \text{ENDF} = \text{DFBLKS} \)
LET \( \text{HDRF} = \text{VEC} 2^8 \text{FSIZE} \)

**// GET CAPS FOR DAYFILE AND PROFILE**
\[ \text{XJ}(0+1+30 \text{PROFILE}+\text{OPER}(\text{DFRPROB})+\text{CS}(\text{CSFORD}), 1+30 \text{S} + \text{DAYFILE} + \text{CS}(\text{CSNULAK})) \]
\[ \text{XJ}(0+1+30 \text{S} + \text{DAYFILE} + \text{OPER}(\text{DFRPROB})+\text{CS}(\text{CSFORD}), 1+30 \text{S} + \text{DAYFILE} + \text{CS}(\text{CSNULAK})) \]

**// PUT THESE CAPS IN CMDSTF**
\[ \text{XJ}(\text{OPER}(\text{FCOUT}) + \text{CMDSTF} + \text{CSFORD} + \text{PROFILE}) \]
\[ \text{XJ}(\text{OPER}(\text{FCOUT}) + \text{CMDSTF} + \text{CSFORD} + \text{PROFILE}) \]

**// OPEN THE FILES**
\[ \text{XJ}(0+1+30 \text{PROFILE} + \text{OPER}(\text{DFRPROB}) + \text{PROFILE}) \]
\[ \text{XJ}(0+1+30 \text{S} + \text{DAYFILE} + \text{OPER}(\text{DFRPROB}) + \text{DAYFILE}) \]

**// IF THE DATUM IS NEGATIVE SHAZAM THE DAYFILE TO BE DUMPED**
\[ \text{IF} \: \text{RV} \: 6 \: \text{DO} \: \{ \]
\[ \text{// GET THE BACKUP AND BE SURE IT IS NULL} \]
\[ \text{XJ}(0+1+30 \text{S} + \text{DAYFILE} + \text{OPER}(\text{DFRPROB}) + \text{CS}(\text{CSFORD}), 1+30 \text{S} + \text{DAYFILE} + \text{CS}(\text{CSNULAK})) \]
\[ \text{XJ}(0+1+30 \text{S} + \text{DAYFILE} + \text{OPER}(\text{DFRPROB}) + \text{DAYFILE}) \]
\[ \text{TEST} \: \text{XJ}(\text{OPER}(\text{DFRPROB}) + \text{DAYFILE}) + \text{ENDF} = 0 \: \text{DO} \: \{ \]
\[ \text{XJ}(\text{OPER}(\text{DFCLO}) + \text{DAYFILE}) \]
\[ \text{XJ}(\text{OPER}(\text{DFCLO}) + \text{DAYFILE} + \text{ENDF} = 0 \: \} \]
\[ \text{ELSE} \: \{ \]
\[ \text{// COMPLAIN ABOUT FILE BEING THERE} \]
\[ \text{XJ}(\text{OPR}(\text{DFCLO}) + \text{DAYFILE}) \]
\[ \text{XJ}(\text{OPR}(\text{DFCLO}) + \text{DAYFILE} + \text{ENDF} = 0 \: \} \]

**// FIND THE END OF THE DAY FILE AND PUT THE EVENT IN THE EVENT CHANNEL**
\[ \text{IF} \: \text{DFBUF} = \text{VEC} \: \text{DFBLKS} \]
\[ \text{TEST} \: \text{XJ}(\text{OPER}(\text{DFRPROB}) + \text{DAYFILE} + \text{ENDF} = 0 \: \} \]
\[ \text{ENDF} = 0 \: \} \]
\[ \text{ELSE} \: \{ \]
\[ \text{// FIND THE END OF THE DAY FILE} \]
\[ \text{WHILE} \: \text{XJ}(\text{OPER}(\text{DFRPROB}) + \text{DAYFILE} + \text{ENDF} = 0 \: \} \]
\[ \text{ENDF} = \text{ENDF} + \text{DFBLKS} \]
\[ \text{ENDF} = \text{ENDF} + \text{DFBLKS} \]
\[ \text{ENDF} = \text{ENDF} + \text{DFBLKS} \]
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\[ \text{ENDF} = \text{ENDF} + \text{DFBLKS} \]
\[ \text{ENDF} = \text{ENDF} + \text{DFBLKS} \]

**// READ IN THE HEAN FORM PROFILE**
\[ \text{XJ}(\text{OPER}(\text{DFPREAD}) + \text{PROFILE} + \text{HDBUF} + \text{DFSEND} = \text{FSIZE}) \]

**// TEST FOR THERE BEING AN UNFINISHED ACT TO COMPLETE**
\[ \text{SWITCHON} \: \text{HDBUF} = \text{HDBUF} + \text{LOWN} = 10 \: \text{INTO} \: \text{ICA} \]
CASE ATWORDS:
FOR I = 0 TO HDBUF*PHACT + 31 DO
XJ(OPER(DFWERIT), PROFILE, HDBUF, (PHADESC+2*I)+HDBUF+[PHADESC+2*I]*1)
XJ(OPER(DFPCL), CS(CSPROF))
GOTO ACTCLEAR

CASE ATBLKES: // BLOCKS MAY BE IN DAYFILE OR PROFILE
LET ST = HDBUF + PHADESC
LET ENDF = (HDBUF + PHACT + 30) * PT
UNTIL PT > ENDF DO [1]
LET DESC = RV PT
LET FILE = DESC -> DAYFILE, PROFILE
LET BSZ = DESC + 30
IF DESC DO DESC, BSZ = DESC, BSZ
XJ(OPER(DFWERIT), FILE, DESC-LOW30 + PT + 1, BSZ)
PT = PT + 1 + BSZ
XJ(OPER(DFPCL), CS(CSPROF))
XJ(OPER(DFPCL), CS(CSPDAYF))
GOTO ACTCLEAR [J]

ACTCLEAR: // CLEAR OUT THE ACT AS SPECIFIED IN THE HEAD
HDBUF = PHACT = 0
XJ(OPER(DFWERIT), PROFILE, PHACT, HDBUF, PHACT, 1)
ICA
// CYCLE THROUGH THE PROFILE DELETING LOGON COUNTS AND INUSE
// ALSO ZERO THE SPENDS FIELD OF ANY PROFILE WITH NO FATHER
[CP LET POS = PFALKSZ // NOTE THAT THIS STARTS ON THE SECOND BLOCK
// AND NO PROFILES ARE ALLOWED ON THE FIRST BLOCK
LET BUF = YES PFALKSZ
UNTIL POS = NO HDBUF PHEND DO [NB // NEXT BLOCK
LET CHNG = FALSE
XJ(OPER(DFREAD), PROFILE, POS, BUF, PFALKSZ)
FOR I = 0 TO PFALKSZ/PFSIZE - 1 DO [NP
LET FF = BUF = I * PFSIZE
UNLESS (PF, PLOGCT <= 16) DO [1
PF = PLOGCT = PF, PLOGCT = LOWCTMSK + 1A
CHNG = TRUE [1
UNLESS (PF, PALLOW = LOW30) DO [1
PF = PALLOW = PF, PALLOW = LOW30
CHNG = TRUE [1
IF (PF, PFAITH = AMASK) = 0 DO [3
PF = PSPEWT = PF, PSPEWT = LOW30
CHNG = TRUE [3
// CHECK FOR INACTIVE TO BE PUT ON THE FREECHAIN
IF (PF, PPEAK = AMASK) = 0 INACT DO [IA
//MAKE AN ACT IN THE HEAD
HDBUF, PHADESC = POS + 1 * PFSIZE + PLINK
HDBUF, (PHADESC+1) * (PF, PPEAK = AMASK) <=
(HDBUF, PHFREE = AMASK)
HDBUF, PHFREE = HDBUF, PHADESC
HDBUF, PHACT = 2*30 <= ATWORDS
// PUT IT ON THE DISK
CLNPRF

XJ(OPER(DFWRIT)+PROFILE+0,HDBUF,PHADESC+2)
XJ(OPER(DFPCOLS)+CS(CS PROF))
// PUT THE FIXES ON THE PROFILE
PF+PLINK + HDBUF+(PHADESC+1)
XJ(OPER(DFWRIT)+PROFILE+POS+BUF+PFLKsz)
XJ(OPER(DFPCOLS)+CS(CS PROF))
CHNG = FALSE
HDBUF, PFACT = 0
XJ(OPER(DFWRIT)+PROFILE+PFACT,HDBUF+PFACT+1) JNP:
IF CHNG NO XJ(OPER(DFWRIT)+PROFILE+POS+BUF+PFLKsz)
POS + POS + PFLKsz JNB

// CLOSE THE FILES
XJ(OPER(DECLO)+PROFILE)
XJ(OPER(DECLO)+DAYFILE)
)STRT