

CLNPRF

GET ↓BCPLGD,S↓
 EXTERNAL JOP // OPERATIONS TO GET OUT OF OPERCL

DRUACC = ↓DR:UACC↓
 LCASCI = ↓LC:ASCI↓
 ECMCAP = ↓EC:MCAP↓
 ECCOUT = ↓EC:COUT↓
 ECSEV = ↓EC:SEV↓
 ECGEVH = ↓EC:GEVH↓
 DFOPRW = ↓DF:OPRW↓
 DFHAZ = ↓DF:HAZ↓
 DFPROB = ↓DF:PROB↓
 DFREAD = ↓DF:READ↓
 DFWRIT = ↓DF:WRIT↓
 DFCLS = ↓DF:PCLS↓
 DFCLO = ↓DF:CLO↓

JOP

EXTERNAL ICAPS // CAPABILITIES DECLAIRED IN HEAD

DAYFILE
 DAYF
 PROFILE
 OPERCL
 CLASSCD
 CODFILE

ICAPS:

MANIFEST IJDX // INDEXES IN VARIOUS PLACES TO LINK WITH BEADS

PHFRPE = 0
 PHEND = 1
 PHACT = 2
 PHADESC = 3

 CMMDSF = 0

 CSROOTD = 0
 CSNULLAK = 1
 CSNULAK = 1
 CSPROP = 15B
 CSDAYF = 16B
 CSDFEC = 17B

 ATWORDS = 1
 ATBLKS = 2
 ATDSTRD = 3

 PLOGCT = 4
 PFATHER = 4
 PSPENT = 6
 PLINK = 0
 PINUSE = 7

IJDX

MANIFEST I // VARIOUS CONSTANTS

DFBLKSZ = 256 // DAYFILE BLOCK SIZE
 PFBLKSZ = 256 // PROFILE BLOCK SIZE
 DFSIZE = 16 // DAYFILE ENTRY SIZE

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PFSIZE      = 32      // PROFILE ENTRY SIZE
LOGCTMSK    = 7777B
LOW30       = 77777777B
MINACT      = -2^AMASK
]

LET START() BE [STRT
LET CS(X) = 1 ^ 59 ≤ X^30 ≤ CMMDSF
LET OPER(X) = 1 ^ 59 ≤ X^30 ≤ OPERCL
LET ENDF = DFBLKSZ
LET HDBUF = VEC 2*PFSIZE
// GET CAPS FOR DAYFILE AND PROFILE
XJR(0,1^30$PROFILE,OPER(DRUACC),CS(CSROOTD),1^30$PROFILE ↓,CS(CSNULAK))
XJR(0,1^30$DAYFILE,OPER(DRUACC),CS(CSROOTD),1^30$DAYFILE ↓,CS(CSNULAK))
// PUT THESE CAPS IN CMMDSF
XJ(OPER(ECCOUT),CMMDSF,CSPROF,PROFILE)
XJ(OPER(ECCOUT),CMMDSF,CSDAYF,DAYFILE)
// OPEN THE FILES
XJR(0,1^30$PROFILE,OPER(DFOPRW),PROFILE)
XJR(0,1^30$DAYFILE,OPER(DFOPRW),DAYFILE)

// IF THE DATUM IS NEGATIVE SHAZAM THE DAYFILE TO BE DUMPED
IF RV 6 DO [6
  //GET THE BACKUP AND BE SURE IT IS NULL
  XJR(0,1^30$DAYF,OPER(DRUACC),CS(CSROOTD),1^30$DAYF ↓,CS(CSNULAK))
  XJR(0,1^30$DAYF,OPER(DFOPRW),DAYF)
  TEST XJ(OPER(DFPROB),DAYF,0) = 0 DO [
    XJ(OPER(DFSHAZ),DAYFILE,DAYF)
    XJ(OPER(DFCLO),DAYFILE)
    XJ(OPER(ECMCAP),DAYF,DAYFILE,-0) ]
  ELSE [ // COMPLAIN ABOUT FILE BEING THERE
    XJ(OPER(DFCLO),DAYF)
    XJ(OPER(LCASCII),2,6^30 ≤ (TABLE 80,
      #DAYFILE ≠,
      #WAS NOT ≠,
      #DUMPED A≠,
      #FTER LAS≠,
      #T SAVE#N ≠)) ]6

// FIND THE END OF THE DAY FILE AND PUT THE EVENT IN THE EVENT CHANNEL
[DF LET BUF = VEC DFBLKSZ
  TEST XJ(OPER(DFPROB),DAYFILE,0) = 0 DO
    ENDF = 0 // THERE NO BLOCKS ON THE FILE
  ELSE [FE //FIND THE END OF THE DAY FILE
    WHILE XJ(OPER(DFPROB),DAYFILE,ENDF) = 0 DO ENDF = ENDF+.DFBLKSZ
    ENDF = ENDF -. DFBLKSZ
    XJ(OPER(DFREAD),DAYFILE,ENDF*BUF,DFBLKSZ)
    FOR I = 0 TO DFBLKSZ/DFSIZE -1 DO [
      IF BUF.(I*DFSIZE) = 0 BREAK
    ENDF = ENDF +. DFSIZE ]FE
    XJ(OPER(ECSEV),CS(CSDFEC),ENDF) ]DF
//READ IN THE HEAD FORM PROFILE
XJ(OPER(DFREAD),PROFILE,0,HDBUF,2*PFSIZE)
// TEST FOR THERE BEING AN UNFINISHED ACT TO COMPLETE
SWITCHON HDBUF.PHACT ^ LOW30 INTO [CA

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CASE ATWORDS:
  FOR I = 0 TO HDBUF.PHACT ^ -31 DO
    XJ(OPER(DFWRITE),PROFILE,HDBUF.(PHADESC+2*I),HDBUF+PHADESC+2*I+1
      ,1)
    XJ(OPER(DFPCLS),CS(CSPROF))
  GOTO ACTCLEAR

CASE ATBLKS: IB // BLOCKS MAY BE IN DAYFILE OR PROFILE
  LET PT = HDBUF + PHADESC
  LET ENDF = (HDBUF.PHACT ^ -30) + PT
  UNTIL PT GE 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(DFWRITE),FILE,DESCALOW30,PT+1,BSZ)
    PT ^ PT + 1 + BSZ ]1
  XJ(OPER(DFPCLS),CS(CSPROF))
  XJ(OPER(DFPCLS),CS(CSDAYF))
  GOTO ACTCLEAR IB

ACTCLEAR: // CLEAR OUT THE ACT AS SPECIFIED IN THE HEAD
  HDBUF.PHACT ^ 0
  XJ(OPER(DFWRITE),PROFILE,PHACT,HDBUF.PHACT,1)
  JCA
// CYCLE THROUGH THE PROFILE DELETING LOGON COUNTS AND INUSE
// ALSO ZERO THE SPENTS FIELD OF ANY PROFILE WITH NO FATHER
ICP LET POS = PFBLKSZ // NOTE THAT THIS STARTS ON THE SECOND BLOCK
// AND NO PROFILES ARE ALLOWED ON THE FIRST BLOCK
LET BUF = VEC PFBLKSZ
UNTIL POS GE HDBUF.PHEND DO [NB // NEST BLOCK
  LET CHNG = FALSE
  XJ(OPER(DFREAD),PROFILE,POS,BUF,PFBLKSZ)
  FOR I = 0 TO PFBLKSZ/PFSIZE - 1 DO [NP
    LET PF = BUF + I *PFSIZE
    UNLESS (PF.PLOGCT ^ -18 ^ LOGCTMSK) = 0 DO [1
      PF.PLOGCT ^ PF.PLOGCT ^ -LOGCTMSK ^ 18
      CHNG ^ TRUE ]1
    UNLESS (PF.PINUSE ^ LOW30) = 0 DO [2
      PF.PINUSE ^ PF.PINUSE ^ -LOW30
      CHNG ^ TRUE ]2
    IF (PF.PFATHER ^ AMASK) = 0 DO [3
      PF.PSPENT ^ PF.PSPENT ^ -LOW30
      CHNG ^ TRUE ]3
    // CHECK FOR INACTIVE TO BE PUT ON THE FREECHAIN
    IF (PF.PLINK ^ AMASK) = MINACT DO [IA
      //MAKE AN ACT IN THE HEAD
      HDBUF.PHADESC ^ POS+I*PFSIZE+PLINK
      HDBUF.(PHADESC+1) ^ (PF.PLINK ^ -AMASK) ^
        (HDBUF.PHFREE ^ AMASK)
      HDBUF.PHFREE ^ HDBUF.PHADESC
      HDBUF.PHACT ^ 2+30 ^ ATWORDS
      // PUT IT ON THE DISK

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XJ(OPER(DFWRIT),PROFILE,0,HDBUF,PHADESC+2)
XJ(OPER(DFPCLS),CS(CSPROF))
// PUT THE FIXES ON THE PROFILE
PF,PLINK → HDBUF,(PHADESC+1)
XJ(OPER(DFWRIT),PROFILE,POS,BUF,PFBLKSZ)
XJ(OPER(DFPCLS),CS(CSPROF))
CHNG → FALSE
HDBUF,PHACT → 0
XJ(OPER(DFWRIT),PROFILE,PHACT,HDBUF,PHACT,1) INP
IF CHNG DO XJ(OPER(DFWRIT),PROFILE,POS,BUF,PFBLKSZ)
POS → POS + PFBLKSZ INB
]CP
// CLOSE THE FILES
XJ(OPER(DFCLO),PROFILE)
XJ(OPER(DFCLO),DAYFILE)
]SIRT
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