DISK SYSTEM ASSEMBLY PARAMETERS (XTXT FILE = PARAMS)

SYSTEM SIZE PARAMETERS

MACRO TO DECLARE A TYPE OF DISK SYSTEM PROCESS

TYPEDEF MACRO PROC5,TYPE,NUMBER
PROCDEF EQU PROC5
PROCTR SET PROC5+NUMBER
N,TYPES EQU NUMBER
TYPEAL EQU PROC5=1
ENDM

DEFINE ALL PROCESS TYPES. ANY CHANGES HERE AFFECT:
DISK1,DISK2,8FILE,HELPER,OPNCLO

PROC5R CALL SET 1 INITIALIZE PROCESS COUNTER

TERM PROCS 5 DEFINE TERMINATORS
HELP PROCS 5 DEFINE HELPERS
ACCT PROCS 1 DEFINE ACCOUNTANT
USER PROCS 8 DEFINE USERS

NPROCS EQU PROC5R TOTAL NUMBER OF PROCESSES

NFILES EQU 200 MAX NO. OF OPEN FILES
NRECS EQU 265 MAX NO. OF DDS RECORDS
DNSLAP EQU 16 SLOP IN DDS ALLOCATION
NSLOTS EQU 256 NO. OF DISK DRIVER REQ SLOTS

N663BS EQU 1 NO. OF 663B DISK UNITS (DRIVERS)
DAT63BS EQU 2+32+32 SIZE OF ALLOCATION TABLE FOR ONE 663B UNIT
SIZE663BS EQU 160+32+32 NO. OF SECTORS ON ONE 663B UNIT
T0T6S663BS EQU N663BS+SIZE663BS TOTAL SECTORS IN SYSTEM

NARMPS EQU 24 ARM POSITIONS FOR HOWARD
N,ARMPS EQU 32 ARMPS ARM POSITIONS FOR US

N,SWHDG EQU 8 AT EACH ARM POS, 8 OF 32 HD GPS ARE SWAPPED
N,FXHDG EQU 32+5,SWHDG (THE REST ARE FIXED)

N,FXMSK EQU N,ARMPSON,FXHDG=100 TOTAL FIXED SECTORS
N,SWMSK EQU N,ARMPSON,SWHDG=100 TOTAL SWAPPED DISK

N,SWFRA EQU 1000000 DONT THINK THIS IS USED ANYWHERE

EVCHSSZ EQU 8 SIZE OF RESPONSE EVENT CHANNELS
NUMLEV EQU 11 MAX NUM OF LEVELS ON DISK FILE
COMEND EQU 1000

UPPER LIMIT ON SUBP HEADER
AND LOWER LIMIT ON UNINITIALIZED
SCRATCH IN ANY SUBP REFERENCED
IN SURPA AND COMCORE
FOR BRUCE NOT REFERENCED YET...DAVE

LOCAL DISK SYSTEM STATUS CODES

ST_INIT EQU 0 INITIAL STATUS (NOT READY TO RUN)
ST_RUN EQU 1 RUNNING STATUS
ST_SHUT EQU 2 SHUTDOWN STATUS (AFTER CLEANUP CALL)

FLAGS FIELD IN POINTER BLOCKS

L_FLAGS EQU 4
L.Attch EQU 12-L_FLAGS

T_DATA EQU 009 TYPE = DATA BLOCK POINTER
T_PTR EQU 18 TYPE = POINTER BLOCK POINTER

S_OUT EQU 5 STATUS = OUT ON DISK
S_PDG EQU 1 STATUS = CANNOT BE RECOVERED
S_IN_FX EQU 2 STATUS = IN FROM FIXED ADDR
S_IN_SW EQU 3 STATUS = IN FROM SWAPPED ADDR
S_GONG EQU 4 STATUS = GOING OUT TO DISK
S_NONNEXT EQU 5 STATUS = NON-EXISTENT
S_COM_FX EQU 6 STATUS = COMING FROM FIXED DISK ADDR
S_COM_SW EQU 7 STATUS = COMING FROM SWAPPED DISK ADDR

DISK I/O REQUEST TYPES

R_HBR EQU 1
R_HBR EQU 2
R_PBR EQU 3
R_PBR EQU 4
R_DBW EQU 5
R_DBW EQU 6
R_ZAP EQU 7

HELPER PROCESS REQUEST CODES

R_CLS EQU 0 CLOSE REQUEST CODE
R_CLS EQU 1 PSEUDO-CLOSE REQUEST CODE
R_DSTRY EQU 2 DESTROY REQUEST CODE
R_AU1T EQU 3 AUDIT FILE REQUEST CODE
R_FREZ EQU 4 FREEZE FILE REQUEST CODE
R_MELT EQU 5 MELT FILE REQUEST CODE
R_KILLH EQU 6 KILL YOURSELF REQUEST CODE (HELPER)

ACCOUNTANT PROCESS REQUEST CODES
**START** EQU 0
**SCAN** EQU 1
**DONE** EQU 2
**SHUT** EQU 3
**CRAR** EQU 4
**ACTAR** EQU 5
**OSAR** EQU 6
**OPEN** EQU 7
**CLOSE** EQU 8

**DARSSA REQUEST REQUEST CODES (PUT IN BA ON CALL)**
- **SWECS** EQU 0
- **FXECS** EQU 1
- **DISK** EQU 2
- **FILE** EQU 3
- **DDS** EQU 4

**ACCOUNTING RECORD SERVICES REQUEST CODE**
- **SETDIR** EQU 0
- **PUTDIR** EQU 1

**SOME BIT POSITIONS IN FR_FLAG IN FILE HEADER**
- **IFL8** EQU 0
- **SFL9** EQU 1
- **RNFG** EQU 3
- **FRFR7** EQU 4
- **X0PF** EQU 5

**HELPER ERROR CODES FOR AUDIT**
- **MPD** EQU 1
- **MPD** EQU 2
- **FRHR** EQU 3
- **MFR** EQU 4
- **FGR** EQU 5
- **FRAA** EQU 6

**LOCAL PROCESS TABLES**
- **LFLH** EQU 25
- **LARR** EQU 150
- **LITAR** EQU 2^{8}LFLH+2^{8}LARR
- **LTAR** EQU L.LITAR+0
- **MBLK** EQU 512

**LOCAL FILE HEADER BIT POSITIONS (2ND WORD)**
LH_FFROJ EQU 0 (BIT 59) FROZEN_FLAG
LH_EX EQU 1 (BIT 58) EXCLUSIVE CLAIM_FLAG
LH_SSH EQU 2 (BIT 57) SHARED CLAIM_FLAG
LH_CLO EQU 3 (BIT 56) CLOSE ALL OPEN OVER RIDE
LH_IPRM EQU 4 (BIT 55) I=FROZE=IT_FLAG

BKMIX EQU 5 MAX NUMBER OF DYNAMIC BKPTS

END OF FILE