

* DISK SYSTEM ASSEMBLY PARAMETERS (XTEXT FILE = PARAMS)

* SYSTEM SIZE PARAMETERS

* MACRO TO DECLARE A TYPE OF DISK SYSTEM PROCESS

	MACRO	PROCS,TYPE,NUMBER
TYPE=F	EQU	PROCTR
PROCTR	SET	PROCTR+NUMBER
N,TYPE=S	EQU	NUMBER
TYPE=L	EQU	PROCTR-1
	ENDM	

* DEFINE ALL PROCESS TYPES. ANY CHANGES HERE AFFECT:
DISK1,DISK5,OPFILE,HELPER,OPNCLO

PROCTR ~~EQU SET~~ *Done* 1 INITIALIZE PROCESS COUNTER

TERM PROCS 5 DEFINE TERMINATORS

HELP PROCS 5 DEFINE HELPERS

ACCT PROCS 1 DEFINE ACCOUNTANT

USER PROCS 50 DEFINE USERS

NPROCS EQU PROCTR TOTAL NUMBER OF PROCESSES

NFILES EQU 200 MAX NO. OF OPEN FILES

NRECS EQU 2000 NO. OF DDS RECORDS

DDSLOP EQU 50 SLOP IN DDS ALLOCATION

NSLOTS EQU 256 NO. OF DISK DRIVER REQ SLOTS

N6638S EQU 1 NO. OF 6638 DISK UNITS (DRIVERS)

DAT6638 EQU 2*32*32 SIZE OF ALLOCATION TABLE FOR ONE 6638 UNIT

SIZE6638 EQU 100*32*32 NO. OF SECTORS ON ONE 6638 UNIT

TOTSECTS EQU *0* N6638S*SIZE6638 TOTAL SECTORS IN SYSTEM

NARMPS EQU *24* ARM POSITIONS FOR HOWARD

N,ARMPS EQU 32-NARMPS ARM POSITIONS FOR US

N,SWHDGP EQU 8 AT EACH ARM POS, 8 OF 32 HD GPS ARE SWAPPED

N,FXHDGP EQU 32-N,SWHDGP (THE REST ARE FIXED)

N,FXDSK EQU N,ARMPS*N,FXHDGP*100 TOTAL FIXED SECTORS

N,SWDSK EQU N,ARMPS*N,SWHDGP*100 TOTAL SWAPPED DISK

*N,SWECS EQU 100000B DONT THINK THIS IS USED ANYWHERE

EVCHSZ EQU 8 SIZE OF RESPONSE EVENT CHANNELS

NUMLEV EQU 11 MAX NUM OF LEVELS ON DISK FILE

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* COMEND EQU 100a UPPER LIMIT ON SUBP HEADER
* AND LOWER LIMIT ON UNINITIALIZED
* SCRATCH IN ANY SUBP. REFERENCED
* IN SUBPA AND COMCORE
* (FOR BRUCE...NOT REFERENCED YET...DAVE)

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* LOCAL DISK SYSTEM STATUS CODES

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* 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)

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* FLAGS FIELD IN POINTER BLOCKS

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* L.FLAGS EQU 4
* L.ATTCH EQU 12-L.FLAGS
* T.DATA EQU 00B TYPE = DATA BLOCK POINTER
* T.PTR EQU 10B TYPE = POINTER BLOCK POINTER
* S.OUT EQU 0 STATUS = OUT ON DISK
* S.FOO 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.GOING EQU 4 STATUS = GOING OUT TO DISK
* S.NONEXT 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

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* DISK I/O REQUEST TYPES

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* R.HBR EQU 1
* R.HBW EQU 2
* R.PBR EQU 3
* R.PBW EQU 4
* R.DBR EQU 5
* R.DBW EQU 6
* R.ZAP EQU 7

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* HELPER PROCESS REQUEST CODES

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* R.CLOS EQU 0 CLOSE REQUEST CODE
* R.PCLOS EQU 1 PSEUDO-CLOSE REQUEST CODE
* R.DSTRY EQU 2 DESTROY REQUEST CODE
* R.AUDIT 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)

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* ACCOUNTANT PROCESS REQUEST CODES

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R.START EQU 0 START UP THIS ACCOUNTANT PROCESS
R.SCAN EQU 1 SCAN THE ACCOUNTING FILE
R.DONE EQU 2 LOAD/RECOVER DONE
R.SHUT EQU 3 SHUT DOWN THIS ACCOUNTANT PROCESS
R.CRAB EQU 4 CREATE AN ACCOUNTING BLOCK
R.ACTAB EQU 5 ACTIVATE ACCOUNTING BLOCK
R.DSAB EQU 6 DESTROY AN ACCOUNTING BLOCK
R.OPEN EQU 7 OPEN AN ACCOUNTING BLOCK
R.CLOSE EQU 8 CLOSE AN ACCOUNTING BLOCK

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* DARSBA REQUEST REQUEST CODES (PUT IN B4 ON CALL)

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R.SWEDS EQU 0 ACCOUNT SWAPPED ECS
R.FXECS EQU 1 ACCOUNT FIXED ACS
R.DISK EQU 2 ACCOUNT DISK SPACE
R.FILE EQU 3 ACCOUNT FOR A FILE
R.DDS EQU 4 ACCOUNT FOR DDS RECORDS (OH BOY)

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* ACCOUNTING RECORD SERVICES REQUEST CODE

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R.GETDAB EQU 0
R.PUTDAB EQU 1

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* SOME BIT POSITIONS IN FR.FLAG IN FILE HEADER

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FR.IFLG EQU 0
FR.SZFG EQU 1
FR.RWFG EQU 3
FR.FRZE EQU 4
FR.XOPF EQU 5

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* HELPER ERROR CODES FOR AUDIT

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ERR.MPD EQU 1 MULTIPLE PTRS TO DATA BLK
ERR.MPP EQU 2 MULTIPLE PTRS TO PTR BLK
ERR.FHR EQU 3 FILE HEADER INCONSISTENT
ERR.NOF EQU 4 NO SUCH OPEN DISK FILE
ERR.FOO EQU 5 PTR BLK CANNOT BE RECOVERED
ERR.FAA EQU 6 FILE ALREADY AUDITED IDIOT

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*and reassemble FRWA-FRWC
USERA-USERC
ENTRY-FRWENT*

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LOCAL PROCESS TABLES
LOCAL FILE HEADERS AND
ATTACHED BLOCK RECORDS
L.ILFH EQU 25 INITIAL NUMBER OF LOCAL FILE HHEADERS
L.IABR EQU 100 INITIAL NUMBER OF ATTACHED BLOCK RECORDS
L.ITAB EQU 2*L.ILFH+2+2*L.IABR INITIAL LOCAL TABLE
L.MTAB EQU L.ITAB+0 MAX LOCAL TABLE SIZE
L.HBLK EQU 512 MAX SIZE OF HOLDING BLOCK IN MAP

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* LOCAL FILE HEADER BIT POSITIONS (2ND WORD)

LH.FROZ	EQU	0	(BIT 59) FROZEN FLAG
LH.EX	EQU	1	(BIT 58) EXCLUSIVE CLAIM FLAG
LH.SH	EQU	2	(BIT 57) SHARED CLAIM FLAG
LH.CLO	EQU	3	(BIT 56) CLOSE ALL OPEN OVER RIDE
LH.IFRZ	EQU	4	(BIT 55) I-FROZE-IT FLAG

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BK.MAX EQU 5 MAX NUMBER OF DYNAMIC BKPTS
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