

ADDRESS	LENGTH
0	1116
1116	

BINARY CONTROL CARDS.

IDENT	CREBLK
END	

BLOCKS	TYPE	ADDRESS	LENGTH
ABSOLUTE*	ABSOLUTE	0	57
PROGRAM*	LOCAL	0	1114

ENTRY POINTS.

CREBLK = 0 DELBLK = 515

EXTERNAL SYMBOLS.

OPFRCL	TEMP1	ERRPACK	DBR	UNLOCK	M.FILCL	M.IOCTR	FR.SIZE
IPLIST	TEMP2	STKBUF	DBW	UNLOCKW	M.EMPTY	M.TWAIT	FR.SHAP
COMMROF	TEMP3	SFTPCTN	GETRESB	RELCLAM	M.RETRY	M.CLTIM	FR.FUND
COMMRL	TEMP4	DISKENT	TR.DRIV	RELEASE	M.CLOSE	M.10SEC	FR.FLAG
COMMRFW	TEMP5	DISKERR	TR.LPVL	FRW	M.TVRES	GF.LEN	FR.ROOT
COMMRLW	TEMP6	DISKINT	BLK.SIZ	MAKEMAP	M.HELP	GF.SUSE	FR.CLAM
HOLDBLK	TEMP7	FRKENT	BLK.DTY	LOADRUF	M.SWAB	GF.SUSL	FR.MEMB
LOCTAR	TEMP8	FRWERR	BLK.FLR	AUDIT	M.ABFCH	GF.IOTF	FHRADDR
LOCTARF	TEMP9	FRWINT	SW.SW	NOLOCK	M.ABFIL	GF.IOTL	FILEADR
LOCTARL	TEMP10	ENTER	SW.DDS	PROBE	M.ACREQ	GF.DDSF	LFTFREE
LFT	TEMP11	CLKBUF	PG.PG	RETCLK	M.ACRES	GF.DDSL	LFHADDR
FLDLEN	TEMPA	DSYSTIM	PG.DDS	SYSERR	M.USERCC	GF.DATE	DARADDR
USERRWF	TEMPB	DSKPTIM	PG.DTY	FRETURN	M.PRWCC	GF.DATL	PAGESK
USERRWL	TEMPC	DISRTIM	PTA.PTR	RETURN	M.TRMCC	GF.APTF	MAPBUFI
DATMAD	TEMPD	MYSCRF	PTR.DOA	RETPAR	M.GLOCC	GF.APTL	SIZES
TERMOWL	TEMPE	MYCODE	PTR.64	ERRPARM	M.ACTCC	GF.HSHF	SIZE
TERMRWF	TEMPF	MYSUBP	PTR.DTY	ERRFILE	M.TRYCC	FHRHASH	NUMRESP
TERMRWL	TEMPG	MYEVCH	PTR.NUM	ERRALOC	M.OFILT	DARHASH	CREATER
CLOSURWF	TEMPH	READCAP	CREATE	ERRMAP	M.OOBJS	GF.HSHL	CREBLKR
CLOSURL	TEMPV	WRITCAP	OPEN	CALBEAD	NOBJS	GF.TRVF	DELBLKR
CLOSROF	TEMPW	SAVEREG	ATTACH	REGS	M.BFILE	FHB	OPENR
READRWF	TEMPX	RESTREG	DETACH	D ENTRY	M.DDREQ	FB.LEN	ATTACHR
READRWL	TEMPY	MAINCL	CONVERT	D FNAME	M.DDRSP	FB.NAME	DETACHR
READONF	TEMPZ	FILCL	SETUP	DEBUG1	M.RRUFFS	FB.WD3	ZROMAPP
READONL	MYIDENT	SLEEP	DECODE	DSKLCK	M.WBUFS	FB.SHAP	CHMAPR
HENTRY	MYDAR	MYRESP	CRELFH	DEBUG2	M.SLOTS	FB.FUND	CHMAPBI
DENTRY	MYUNIT	RESP	OPENBAR	M.AUTH	M.LOCKS	EHR	SETUPR
ORGADDR	MYSHOCC	GFILE	PRVOPEN	M.MKCAP	NLOCKS	FR.LEN	CREATBI
ORGCLST	DDSIPL	HFILE	MKPTR	REDSHP	M.DDSCT	FR.NAME	CLOSER
ORGMAP	IOTIPL	FILECAP	DSPTR	GDSKHDR	M.FHRL	FR.WD1	MOVBLKR
INTDAT	HASHIPL	CTEMP	CLOSE	FDSKHDR	M.DARL	FR.WD2	CREPTRR
API	SUSIPL	UDSKSCR	ECLOSE	GDSKPTR	M.HASHL	FR.WD3	DORESPR
API	DATIPL	BFIL	DARSPA	FDSKPTR	M.ADDS	FR.SUSP	ERRNUM
API	APTIP	DDRSP	ZEROMAP	GDSKDAT	M.ASUSP	FR.Lock	ERRCLAS

CREATE / DELETE FILE BLOCKS
STORAGE ALLOCATION.

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AP3	RETPARM	RRAUFS	CHMAP	FDSKDAT	M. ADISK	FR.DAR	TABADDR
AP4	RETERR	RETRY	CLODAR	GETDSK	M. SDISK	FR.OPEN	EC:IMBLK
AP5	PASSERR	SLOTS	HASH	FREEDSK	M. FDISK	FR.CAPX	EC:MCAP
AP6	USRPACK	HRR	DELHASH	BUSYDSK	M. FCLEV	FR.DBSZ	EC:DBLK
APT	IOTBUF	HRW	EXCLAIM	L.MNCL	M. UNAME	FR.ONEL	EC:WRIT
APP	PROCADR	PRR	SHCLAIM	M.GFILE	M.USCTR	FR.FROZ	EC:ICBLK
TEMPO	ERRADDR	PRW	LOCK	M.HFILE	M.OPCL	FR.WRIT	EC:IDSCP

IDENT CREBLK

PARAMS	XTEXT	
MACROS	XTEXT	
SYSCALL	XTEXT	
*		
READTST	EXT MACSET	OPERCL,IPLIST OPERCL,IPLIST,ECS
ERRORS	XTEXT	
TYPES	XTEXT	
ORBITS	XTEXT	
*		

*PAGE

CREBLK...CREBLK...CREBLK

CREATE DATA BLOCK(S) ON DISK FILE

NOTES:

- A) A FROZEN FILE CAUSES AN F-RETURN
- B) ON A ZERO LEVEL FILE AN ERROR IS RETURNED
- C) SUFFICIENT DISK SPACE, TEMP DISK SPACE AND SWAPPED ECS SPACE IS ACCOUNTED FOR PRIOR TO CREATING ANY DATA BLOCKS. A NON-EXISTANT POINTER BLOCK REQUIRES A SUPPLEMENTARY ACCOUNTING FOR THE NECESSARY DISK SPACE. UN-USED SPACE IS RETURNED IN CASE OF AN ABNORMAL TERMINATION.
- D) IN CASE OF ABNORMAL TERMINATION, THE BLOCKS UP TO THE FILE ADDR CAUSING ABNORMAL TERMINATION ARE ALREADY CREATED AND ATTACHED
- E) NEWLY CREATED FILE BLOCKS ARE ATTACHED TO THE PROCESS AND BILLED ACCORDINGLY

ON ENTRY: X1 = STARTING FILE ADDRESS

X2 = WORD COUNT

X3 = INDEX OF USER'S CAPABILITY (OPTIONS
ALREADY CHECKED)

B7 = RETURN LINK

ON EXIT: FILE IS UNLOCKED

REGISTERS USED: ALL

ROUTINES CALLED: #SETUP#, #LOCK#, #UNLOCK#,
#UNLOCKRW#, #PBRX#, #DARSPAD#, #MKPTR#,
#DECODE#

TEMPORARIES USED: TEMP1, TEMP2, TEMP3, TEMP4,
TEMP5, CREBLKR

ERRORS:

- #E.ISBLK# = BLOCK ALREADY EXISTS
- #E.Nodsk# = INSUFFICIENT DISK SPACE
- #E.Noswps# = INSUFFICIENT SWAPPED ECS
- #E.Nab# = NO ATTACHED BLOCK RECORDS
- #E.DtorR# = I/O ERROR ON DISK

CREATE / DELETE FILE BLOCKS
CREATE FILE BLOCK(S)

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0	76677		CREBLK	SX6	B7	SAVE RETURN LINK
1	5160000000 X			SB7	CREBLK1	
	6170000010 +			SA6	CREBLKR	
6	0200000000 X		DISPCAP	JP	X7	X7 = ECS FILE UNIQUE NAME
7	0200000166 +				CONVERT	
T0	6170000015 +		CREBLK1	SB7	CREBLK29	NO SUCH DISK FILE LOCALLY OPEN
	0200000000 X			JP	CREBLK2	SET UP FOR PROCESSING SECTION
					SETUP	OF THE FILE
T1	0200000162 +				CREBLK27	RETURN VECTOR FOR #SETUP*
T2	0200000160 +					FILE ADDRESS ERROR
T3	0200000157 +					(B7 = ERROR NUM)
T4	0200000157 +				CREBLK26	ZERO LEVEL FILE (FILE UNLOCKED)
T5	1065E		CREBLK2	JP	CREBLK25	FILE LOCALLY FROZEN
	5160000000 X			RX6	CREBLK25	FILE GLOBALLY FROZEN
					X5	X5 = SIZE CONSTANTS FROM
						#SETUP*
T6	37776	73450	CREBLK2	SA6	TEMP1	TEMP1 = NUM SECTORS//NUM WDS
	9337000020 +					
	26665			SX4	X5	DATA BLOCK SIZE
T7	0200000016 +			IX7	X7=X4	ACCUMULATE SPACE NEEDS
				NG	X7,CREBLK4	
				IX6	X6+X5	
				JP	CREBLK3	
T8	5160000000 X		CREBLK4	SA6	TEMP3	ACCOUNT FOR ALL NECESSARY SPACE
	6160000022 +					TEMP3 = PERM DISK//
				CALLX	UNLOCK,B6	UNLOCK WHILE GETTING DISK SPACE
22	5150000000 X					
	21522			SAS	TEMP3	
	63550			AX5	18	
				SB5	X5	
23	5130000000 X			SAS		
	20330			UX3	FR,DAR	
	63330			SB3	6+18	
24	6140000002			SB4	X3	
	6160000026 +			CALLX	DARSPA,B6	
					CREBLK5	
25	0200000164 +			JP	CREBLK28	INSUFFICIENT FUNDS
27	5140000000 X			SA4	FHRADDR	GOT DISK SPACE OK, RELOCK FILE
	6160000031 +			CALLX	LOCK,B6	
31	5150000000 X			SA5	TEMP3	
	63550			SB5	X5	
	66400			SB4		
32	5150000000 X		CREBLK5	SA5	R.SWEC5	SWAPPED ECS TO ACCOUNT
	6160000035 +			SB6	RD	INDICATE SWAPPED ECS SPACE
					MYDAR	USE LOCAL ACCOUNTING RECORD

Change (x)



insert lane

DAR ADDRESS
INDICATE DISK SPACE

CREBLK28

INSUFFICIENT FUNDS

FHRADDR

GOT DISK SPACE OK, RELOCK FILE

LOCK,B6

TEMP3

X5

RD

MYDAR

CREBLK6

SWAPPED ECS TO ACCOUNT

INDICATE SWAPPED ECS SPACE

USE LOCAL ACCOUNTING RECORD

J
(also over)

CREATE / DELETE FILE BLOCKS
CREATE FILE BLOCK(S)

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33 6335⁷
0200000000 X

34 02000000170 +

35 51500000000 X
6170000045 +

36 6315⁷
02000000000 X

37 0200000153 +
40 0200000152 +
41 0200000141 +
42 0200000146 +
43 0200000046 +
44 0200000153 +
45 0200000153 +

46 51500000000 X
02000000177 +

47 10244
6170000052 +
50 5140000000 X
21422
51 0200000000 X

52 43714
15457
7170001401

53 20762
12774
5170000000 X
54 716000000 X

55 5140000000 X
5150000000 X

SB3 JP X5 DARSPA

JP CREBLK30

INSUFFICIENT SWAPPED ECS SPACE

MAIN LOOP

DECODE NEXT BLOCK ADDR

X1 = FILE ADDRESS

RETURN VECTOR FROM #DECODE

I/O ERROR ON DISK
BUSY POINTER
NON-EXISTANT PTR BLOCK
PTR BLOCK NOT IN ECS
NON-EXISTANT DATA BLOCK
DATA BLOCK NOT IN ECS
DATA BLOCK IN ECS

DATA BLOCK NON-EXISTANT
(X4 = NON-EXISTANT POINTER)

CHECK FOR AVAILABLE ATTACHED
BLOCK RECORD (ABR)

RESERVE SWAPPED SPACE ON DISK

NUM SECTORS IN DATA BLOCK
GET DISK DATA BLOCK

COMPLETE DDS POINTER FOR DATA BLOCK

CLEAR JUNK
X4 = DDS POINTER
SET AINT AND ATTACH & 1

NEW PTR FOR DDS
WRITE OUT

TEMP1 = SIZES OF THINGS
ACCOUNTING RESERVES

SA4 SAS TEMP1
TEMP3

CREATE / DELETE FILE BLOCKS
CREATE FILE BLOCK(S)

67 37654
54650

75 7160000000 X
7160000000 X

116 5150000000 X
7140000001

117 20448
5255000001
36554

118 73751
5140000000 X
13557

119 12657
53340
20722
54650

120 10639
54640
76650
12776

121 43507
23545
12757
53740

122 10617
5264000001

123 5140000000 X
10644

124 5150000000 X
73680
43701

125 20745
12667
36665
54650

126 5150000000 X
73440
36114

127 37657
54650
0326000035 +

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I_X6 X₅-X₄
SA6 A₅

DECREMENT RESERVES

CRBLK CREATE BLOCK ON ECS FILE
FILECAP, (,X₁)
FILECAP, (+X₁), A0.B0+CREBLK40 MAKE BLOCK DIRTY

CONSTRUCT ATTACHED BLOCK RECORD (ABR)
LFHADDR ADDR OF LFH (LOCAL FILE HEADER)
NUM WDS SWAP ECS SPA PER BLK

S_A5 LX4
SX4 S_A5
I_X6 X₅+1
SX7 X₅+X₄
SA4 LFTFREE
BX5 X₅-X₇
BX6 X₅+X₄
SA3 X₄
LX7 I_B
SA6 A₅
BX6 X₃
SA6 A₄
SX6 B₅
BX7 X₇+X₆
MX5 I
LX5 I+36
SX7 X₆+X₇
SA7 X₄
BX6 X₁
SA6 X₄+1

INCR NUM BLKS ATTACHED
OLD ATTACHED BLK LIST HEAD
ADDR OF NEW ATTACHED BLK RECORD

ADDR OF NEXT FREE RECORD
SHIFT ATTACHED BLK LINK
LFH WORDS

FREE LIST HEAD
DDS ADDR OF POINTER FOR BLK

1ST WD OF NEW ABR
FILE ADDRESS
2ND WD OF NEW ABR

UPDATE FILE HEADER RECORD (FHR)

SA4 TEMP1
BX6 X₄
AX6 I_A
SA5 FR.SIZE
SX6 X₆
MX7 I
LX7 I+36
BX6 X₆+X₇
IX6 X₆+X₅
SA6 A₅

NUMBER SECTORS PER DATA BLOCK

INCR NUM OF EXISTING BLKS AND
AND NUM OF SECTORS IN FILE

INCREMENT FILE ADDRESS
SCALED WORD COUNT
DATA BLOCK SIZE

S_A5 TEMP2
SX4 X₄
IX1 X₁+X₄
IX6 X₅-X₄
SA6 A₅
PL X₆,CREBLK6

JP IF NOT DONE YET

CREATE / DELETE FILE BLOCKS
CREATE FILE BLOCK(S)

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*
*
*
*
*
*
*
*

T41 10617 5160000000 X
T42 6170000145 +
 0200001043 +

T43 5110000000 X
 0200000200 +

T44 5110000000 X
 0200000201 +

T45 5110000000 X
 0200000035 +

*
*
*
*
*
*
*
*

CREBLK15 BX6 X1
 SAI FILEADR
 SB7 CREBLK19
 JP CREPTRB

*
*
*
*
*
*
*
*

CREBLK19 SAI X1
 SAI FILEADR
 JP CREBLK34

*
*
*
*
*
*
*
*

CREBLK19 SAI X1
 SAI FILEADR
 JP CREBLK35

*
*
*
*
*
*
*
*

CREBLK19 SAI X1
 SAI FILEADR
 JP CREBLK6

NON-EXISTANT POINTER BLOCK

B5 = ADDR OF POINTER
B4 = 0 IF MISSING PTR BLK
POINTS TO DATA BLOCKS
X4 = POINTER BLOCK POINTER
X2 = LOG2(POINTER BLOCK SIZE)
SAVE FILE ADDRESS

CREATE POINTER BLOCK

OUT OF DDS

INSUFFICIENT FUNDS

TRY AGAIN W/ SAME FILE ADDRESS

~~CREATE / DELETE FILE BLOCKS~~

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146	7655°	
		63520
147	6640°	6170000150 *
		02000000000 X
148	0326800035 +	
		7276000003
151	0307800271 *	
		0200000205 +

SX5	B5
SB5	X2
S87	CREBLK21
S84	BO
JP	PRR
PL	
SX7	X6+CREBLK6
ZR	X6+3
JP	X7+CREBLK41
	CREBLK37

POINTER BLOCK NOT IN ECS
(X4 = POINTER BLOCK POINTER)
(X2 = LOG2(PTR BLK SIZE))

CALL FOR POINTER BLOCK READ
LOG2 (PTR BLK SIZE)

B4 → 0 FOR ↑PBR↑
(ASSUME x_1 SURVIVES ↑PBR↑)

30 is OK

JP IF OUT OF DDS
I/O ERROR

BUSY PAINTER

152 6160000035 +
02600000000

*
CREBLK22 SBF
JP
*
#DAD22

**CREBLK6
UNLOCKW**

UNLOCK FHR AND WAIT ON SUSPENSE
AND THEN TRY AGAIN WITH SAME
FILE ADDRESS

153 7160000001
0200000154 *CREBLK23 SX6
JPE.ISBLK
CREBLKB

DATA BLOCK EXISTS ALREADY

154 20125
12676
5160000000 X
155 7160000000 X
5160000000 X
156 0200000122 *CREBLKB LX1
BX6
SA6
SX6
SA6
JP18
X1+X6
ERRNUM
ERRFILE
CREBLKR
CREBLK11

PACK FILE ADDR IN W/ ERR NUM

BUGGER RETURN LINK

DO TERMINATION ACTION

157 6160000000 X
0200000000 XCREBLK25 SR6
JPFRETURN
UNLOCKFROZEN FILE...F=RETURN TIME
UNLOCK FILE HEADER RECORD AND
DO F_RETURN160 7160000033
5160000000 X
161 0200000000 XCRERLK26 SX6
SA6
JPE.ZLEV
ERRNUM
ERRFILE

ONE-LEVEL FILE (FILE IS UNLOCKED)

162 76675
5160000000 X
163 0200000000 XCREBLK27 SX6
SA6
JPE7
ERRNUM
ERRPARMERROR EXIT
FILE ADDRESS ERROR164 716000004
5160000000 X
165 0200000000 XCREBLK28 SX6
SA6
JPE.NODSK
ERRNUM
ERRALOC

INSUFFICIENT DISK SPACE

RETURN ERROR

166 716000005
5160000000 X
167 0200000000 XCREBLK29 SX6
SA6
JPE.NODFIL
ERRNUM
ERRFILE

NO SUCH DISK FILE LOCALLY OPEN

170 5150000000 X
6160000175 *CREBLK30 SA5
SB6TEMP3
CREBLK32INSUFFICIENT SWAPPED ECS SPACE
MUST RETURN DISK SPACE
RETURN LINK FOR ↑DARSPA↑171 21525
63550
172 5130000000 X
67505
20330AX5
SB5
SB5
SA3
Lx318
X5
-B5
FR.DAR
6+18

AMT SPACE TO RETURN

CREATE / DELETE FILE BLOCKS

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CREATE 6 DELETE FILE BLOCKS
DELETE DISK FILE BLOCK(S)

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*PAGE

DELBLK...DELBLK...DELBLK

DELETE DATA BLOCK(S) FROM DISK FILE

NOTES: A) THE DATA BLOCK(S) MUST NOT BE ATTACHED
TO ANY PROCESS OTHERWISE F-RETURN
B) THE DATA BLOCK POINTER IN DDS IS
UPDATED TO SHOW A NON-EXISTANT DATA
DATA BLOCK. OLD DISK SPACE IS NOT
RELEASED
C) THE ACTION F-RETURNS ON A FROZEN FILE
D) THE ACTION RETURNS ERROR ON A
ONE LEVEL FILE

ON ENTRY: X1 = STARTING FILE ADDRESS
X2 = WORD COUNT
X3 = INDEX OF USER SUPPLIED CAPABILITY
(OPTIONS ALREADY CHECKED)
B7 = RETURN LINK

ON EXIT: NORMAL RETURN (B7)
F-FRETURN (*FRETURN*)
ERROR RETURN (*ERROR*)
FILE IS UNLOCKED

REGISTERS USED: ALL

ROUTINES CALLED: *PBR*, *UNLOCK*, *UNLOCKW*, *LOCK*,
SETUP, *DARSPX*, *DECODE*, *FREEDSK*

TEMPORARIES USED: TEMP1, TEMP2, TEMP3,
TEMP4, DELBLKR

ERRORS: *E.IOERR* I/O ERROR FROM DISK

212 7667*
6176000222 +
213 5160000000 X

7160000000 X
220 6200000000 X

221 020000327 +

222 5140000000 X
20436

43655

DELBLK	SX6 SR7 SA6	R7 DELBLK1 DELBLKR	SAVE RETURN LINK
	DISPCAP	X3 CONVERT	X7 = ECS FILE UNIQUE NAME
	JP	DELBLK18	JP IF NO SUCH FILE LOCALLY OPEN
DELBLK1	SA4 LX4 MX6	FR.OPEN 60-30 60-15	CHECK FOR TOO MANY OPENS

CREATE / DELETE FILE BLOCKS
DELETE DISK FILE BLOCK(S)

223 15644
7266777776
224 0316000402 *

6170000232 *
225 0200000000 X

226 0200000373 *

227 0200000371 *

230 0200000363 *

231 0200000363 *

232 10754

13666

5160000000 X
233 5170000000 X

234 5150000000 X

6170000244 *

235 63158
0200000000 X

236 0200000323 *

237 0200000321 *

238 0200000322 *

239 0200000315 *

240 0200000322 *

241 0200000315 *

242 0200000322 *

243 0200000245 *

244 0200000330 *

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BX6 -X6*X4
SX6 X6-1
NZ X6,DELBLK32

SB7 JP DELBLK2
SETUP

OF DISK FILE

RETURN VECTOR FOR #SETUP#
FILE ADDRESS ERROR
(B7 = ERROR NUM)
ONE LEVEL FILE (FILE UNLOCKED)

LOCALLY OR GLOBALLY FROZEN
FILE

X5 = NUM SECTORS//NUM WDS PER
DATA BLOCK
ACCUMULATION OF SECTORS AND BLKS
DELETED

MAIN LOOP

DELBLK3 SAE FHRADDR
SB7 DELBLK4
SB1 X5
JP DECODE

DECODE NEXT BLOCK ADDR

RETURN VECTOR FOR #DECODE#

DELBLK4 JP DELBLKA
JP DELBLK15
JP DELBLK16
JP DELBLK13
JP DELBLK16
JP DELBLKS
JP DELBLK19

I/O ERROR ON DISK
BUSY POINTER
NON-EXISTANT PTR BLOCK
PTR BLK NOT IN ECS
NON-EXISTANT DATA BLOCK
DATA BLOCK NOT IN ECS
DATA BLOCK IN ECS

DATA BLOCK NOT IN ECS

DELBLK5 MX7 60-24
LX7 24
BX5 -X7*X4
AX5 24
BX4 X4*X7
MX6 12
BX4 -X6*X4

X4 = DATA BLK PTR
POSSIBLE NEW DISK ADDR
CLEAR NEW ADDR

CLEAR JUNK

245 43744
20730
15547
21530
246 11467
43674
15446

CREATE / DELETE FILE BLOCKS
DELETE DISK FILE BLOCK(S)

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247	7160002400		SX6	2400B	SET PTR NON-EXISTANT
	20660		LX6	60-12	
		12646	BX6	X4+X6	
250	5160000000 X		SA6	TEMP5	
	7160000000 X	*	WRDOS	B5+TEMP5,1	WRITE PTR TO DDS
263	10617		BX6	X1	
	5160000000 X		SA6	FILEADR	
264	0305800270 *		ZR	X5,DELBLK8	SKIP IF NO NEW DISK ADDR
	5140000000 X		SA4	TEMP1	FREEE DISK SPACE
265	21425		AX4	18	
	73440		SX4	X4	NUM SECTORS
	6170000270 *		SB7	DELBLK8	
266	0200500000 X		JP	FDSKDAT	(X5 = ADDR OF 1ST SECTOR)
267	0100500000 X		RJ	SYSERR	TROUBLE
270	5150000000 X		DELBLK8	SA5	UPDATE THINGS
	5110000000 X			SA1	UPDATE FILE HEADER RECORD
271	43607			MX6	
	20645			LX6	1+36
	5140000000 X			SA4	TEMP1
272	73347			SX3	NUM SECTORS//NUM WDS PER BLK
	21422			AX4	NUM WDS PER DATA BLOCK
	73440			SX4	
	12646			BX6	NUM SECTORS PER DATA BLOCK
273	37654			IX6	DECRL NUM SECTORS AND NUM BLOCKS
	54650			SA6	
	36113		IX1	X1+X3	INCREMENT FILE ADDRESS
274	5150500000 X		SA5	TEMP3	INCR DISK SPACE TO ACCOUNT
	36654		IX6	X5+X4	
275	5150600000 X		SA6	AS	SCALED WORD COUNT
	54650		SAS	TEMP2	DECREMENT WORD COUNT
	37653		IX6	X5-X3	
	54650		SA6	AS	
276	0325800234 *		PL	X6,DELBLK3	LOOP TILL LAST BLOCK

277 5150000000 X
6160000301 *DELBLK9 S45
SB6FHRAADDR
DELBLK10

WRITE OUT FILE HEADER RECORD

300 0200000000 X

JP

UNLOCK

UNLOCK FILE

301 5150000000 X
63550DELBLK10 S45
SB5TEMP3
X5
=B5AMT OF PERM SPACE TO RETURN
SKIP IF NONE TO RETURN
ALLOCATION RECORD OWNED FILE302 0405000306 *
5140000000 XSB5
EQ
SA4FR.DAR
6+18
X4303 20438
63340
6140000002LX4
SB3
SB42
DELBLK11
DARSPA

INDICATE DISK SPACE

304 6160000306 *
0200000000 XSB6
JPSYSERR
REFUND SWAPPED ECS SPACE305 0100000000 X
21522DELBLK11 S45
AX5TEMP3
18
X5

JP IF NO SPACE TO REFUND

306 5150000000 X
63550SB5
EQ

B5.B0,DELBLK12

AMT OF SPACE TO RETURN

307 0450000313 *
5140000000 XSA4
SB5MYDAR
=B5308 67505
63340SB3
SB4X4
B0

INDICATE SWAPPED ECS

309 6160000313 *
0200000000 XSB6
JPDELBLK12
DARSPA

310 0100000000 X

RJ

SYSERR

CONSISTANCY CHECK

311 5150000000 X
63650DELBLK12 S45
SB6DELBLKR
X5
B6RETURN LYNK MAY BE BUGGERED TO
ERROR OR FRETURN

312 0260000000

JP

POINTER BLOCK NOT IN ECS
(X4 = POINTER BLOCK POINTER)
(X2 = LOG2 (PTR BLK SIZE))313 76558
63526DELBLK13 SX5
SB5B5
X2

CALL FOR POINTER BLOCK READ

314 6170000317 *

SB7
SB4DELBLK14
B0
PBRB4 = 0 FOR ↑PBR†
(ASSUME X1 UNCHANGED BY ↑PBR†)

CREATE / DELETE FILE BLOCKS
DELETE DISK FILE BLOCK(S)

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317 0326000234 +
7276000003
320 0307000377 +
0200000364 +

* DELBLK14 PL
SX7
ZR
JP

X6,DELBLK3
X6+3
X7,DELBLK31
DELBLK26

JP IF READ OK
JP IF OUT OF DDS
I/O ERROR

321 6160000234 +
0200000000 X

* DELBLK15 S86
JP

DELBLK3
UNLOCKW

BUSY POINTER
UNLOCK FILE AND WAIT ON
SUSPENSE LIST AND TRY AGAIN

322 7150000003
0200000324 +

* DELBLK16 SX5
JP

E,NOBLK
DELBLKB

323 0326000245 +
7150000027

* DELBLKA PL
SX5

X4,DELBLKS
E,DIOERR

JP IF BROKEN DATA BLOCK
I/O ERROR ON DISK

324 20120
12675

* DELBLKB LX1
BX6

18
X1+X6

ADD FILE ADDR TO ERROR NUM

325 7160000000 X
5160000000 X

* DELBLKA PL
SX6

ERRNUM
ERRFILE

BUGGER RETURN LINK
DO TERMINATION ACTION

326 0200000277 +

* DELBLKB LX1
BX6

DELBLKR
DELBLK9

327 6170000025
0200000373 +

* DELBLK18 S87
JP

E,NODEFI
DELBLK28

NO SUCH DISK FILE LOCALLY OPEN

DATA BLOCK IN ECS (I.E. ATTACHED)					
330	5120000000 X 66200	DELBLK19	SA2 SB2 SX3 SA2	LPHADDR B0 B0 X2+1	MAKE SURE LOCALLY ATTACHED DOS ADDR OF POINTER
331	5222500001	DELBLK20	SA2 SX5 BX5 ZR	X2 X2 X5-X3 X5,DELBLK22	DDS ADDR FROM ABR JP IF LOCALLY ATTACHED
332	53225 73520 13553	DELBLK20	AX2 SX2	10 X2	DDS ADDR FROM ABR JP IF LOCALLY ATTACHED
333	0305800337 *	21222	SB2 NZ	A2 X2,DELBLK20	SAVE PRECEDING ABR ADDRESS LOOP TO END OF ABR LIST
334	64225 0312000332 *	73220	SX6 JP	E,TMGA DLBLK26A	DO ERROR - NO LOCALLY ATTACHED
335	7160800042 0200000366 *	DELBLK21	SX6 JP	E,INMAPS DLBLK26A	BLOCK IN MAP
336	7160800062 0200000366 *	DELBLK21A	SX6 JP		
DELETE ABR					
337	43614 11662 0316000336 *	DELBLK22	Mx6 BX6 NZ	12 X6*X2 X6,DLBLK21A	B2 = 0 IF 1ST ABR OTHERWISE ADDR OF PRECEDING ABR X2 = 1ST WD OF DEL ABR A2 = ADDR OF PRECEDING ABR CHECK FOR BLK IN LOCAL MAP JP IF IN MAP
340	5150800060 X 10655	DELBLK23	SAS BX6 SA6 SX6 SA6 AX2 SX2	LPTFREE X5 A2 A2 A5 10 X2	CHAIN DEL ABR TO FREE LIST
341	74625 54650 21222 73220	DELBLK23	EQ SA5 LX5 SX6	86,82,DELBLK23 B2 6n-18 X5	NEW HEAD OF FREE LIST
342	0402800345 *	56520 20552	SA5 LX5 SX6	86,82,DELBLK23 B2 6n-18 X5	JP IF 1ST ABR IS DEL ABR 1ST WD PRECEDING ABR
343	73655 13556 12652 20622	DELBLK24	BX5 BX6 LX6 SA6 JP	X5-X6 X5+X2 10 A5 DELBLK24	CLEAR OLD LINK SET NEW LINK
344	54655 0200000347 *	DELBLK23	SAS SA5 SX6	LPHADDR X5+1 X5	FIX UP HEAD OF ABR LIST
345	5150800060 X 5255000001	DELBLK23	SAS SA5 SX6		
346	73655	DELBLK23	SAS SA5 SX6		

13556		BX6	X6-X6		
12652		BX6	X6+X2		
54650	*	SA6	A6		
	*				
347	5150000000 X	DELBLK24	SAS	TEMP1	
	73750		SX7	X6	INCREMENT SWAPPED ECS TO
			LX7	18	TO REFUND
350	5150000000 X		SAS	TEMP3	
	20722		I6	X6+X7	
	36657		SAS	A6	DECR NUMBER OF
	54650	*			ATTACHED BLOCKS
351	5150000000 X		SAS	LPHADDR	
	5255000001		SAS	X6+1	DECRL NUMBER OF
352	7160000001		SX6	1	ATTACHED BLOCKS
	20644		LX6	36	
			I6	X6-X6	
353	54657		SAS	A6	
	*				
	7160000000 X	DSBLK		DELETE BLK FROM ECS FILE	
	*		FILECAP, (,X1), DELBLK30		
362	0200000245 *		JP	DELBLK5	
	*				
363	6160000000 X	DELBLK25	SB6	FILE IS FROZEN	
	0200000000 X		JP	FRETURN	UNLOCK FILE AND F-RETURN
	*			UNLOCK	
364	7266000001	DELBLK26	SX6	ERROR ON POINTER BLOCK READ	
	0336000375 *		NG	X6+1	
365	7160000027		SX6	X6, DELBLK29	JP IF REAL TROUBLE
366	20122	DLBLK26A	LX1	E.DIOERR	
	12661		SX6	18	
			SA6	X6+X1	ADD FILE ADDRESS
367	5160000000 X		SX6	ERRNUM	
	5160000000 X		SA6	ERRFILE	
370	0200000277 *		SA6	DELBLKR	FIX RETURN LINK
	*		JP	DELBLK9	DO TERMINATION ACTION
	*				
371	7160000033	DELBLK27	SX6	ONE LEVEL FILE (FILE IS UNLOCKED)	
	5160000000 X		SA6	E.ZLEV	
372	0200000000 X		JP	ERRNUM	
	*			ERRFILE	
373	76675	DELBLK28	SX6	B7	FILE ADDRESS ERROR
	5160000000 X		SA6	ERRNUM	
374	0200000000 X		JP	ERRPARM	
	*				
375	0100000000 X	DELBLK29	RJ	SYSERR	MEMBERSHIP CHECKWORDS
376	0100000000 X	DELBLK30	RJ	SYSERR	BLOCK IN MAP
	*				

CREATE / DELETE FILE BLOCKS
DELETE DISK FILE BLOCK(S)

377 7160000025
20122
12616
400 5160000000 X
7160000000 X
401 5160000000 X
0200000277 +
402 - 7160000034
5160000000 X
403 6160000000 X

* DELBLK31 SX6
LX1
BX6
SA6
SX6
SA6
JP
* DELBLK32 SX6
SA6
CALLX

E.NODDS
18
X1+X6
ERRNUM
ERRALOC
DELBLKR
DELBLK9

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OUT OF DDS ON PTR BLK READ

BUGGER RETURN LINK
DO TERMINATION

TOO MANY GLOBAL OPENS
E.TMOPN
ERRNUM
UNLOCK,B6,ERRFILE

END DELBLK...END DELBLK...END DELBLK

MOVE A SINGLE BLOCK BETWEEN TWO DISK FILES

- NOTES:
- 1) THE SINK FILE IS CHECKED OUT FIRST IF THE BLOCK EXISTS OR NOT ENOUGH FUNDS ARE AVAILABLE TO FUND A NEW BLOCK AND ERROR IS INITIATED
 - 2) IF THE SINK FILE IS OK, THE DATE BLK POINTER IS SET BUSY IN DDS AND THE SINK IS UNLOCKED
 - 3) THE SOURCE FILE IS LOCKED AND CHECKED OUT. INCOMPATABLE BLOCK SIZES, A NON-ATTACHED BLOCK, OR FILE ADDRESS ERROR MAKES IT NECESSARY TO RESTORE THE SINK FILE TO ITS ORIG STATE BEFORE INITIATING AN ERROR
 - 4) IF BOTH FILE ARE OK THEN THE SOURCE ABR IS RELEASED AND A NEW ABR CONSTRUCTED FOR THE SINK. THE BLOCK IS MOVED IN ECS, AND A REFUND IS MADE TO THE SOURCE FILE
 - 5) FINALLY THE SOURCE FILE IS UN-LOCKED THE SINK FILE IS LOCKED AND THE DDS POINTER IN THE SINK IS FIXED UP

ON ENTRY AP1: INDEX OF SOURCE FILE CAP
 AP2: SOURCE FILE ADDR
 AP3: INDEX OF SINK FILE CAP
 AP4: SINK FILE ADDR

ROUTINES CALLED: \uparrow CONVERT \downarrow , \uparrow SETUP \downarrow , \uparrow DECODE \downarrow ,
 \uparrow DARSPAT \downarrow , \uparrow GDSKDATT \downarrow , \uparrow FDSKDATT \downarrow ,
 \uparrow LOCK \downarrow , \uparrow UNLOCK \downarrow , \uparrow UNLOCKW \downarrow ,
 \uparrow PBR \downarrow , \uparrow CREPTRB \downarrow

TEMPORARIES USED: (TEMP2, TEMP4, TEMP5)

ISAMEFIL	EQU	TEMP0
ISINKFHR	EQU	TEMP1
ISINKLFR	EQU	TEMP3
ISINKBTR	EQU	TEMP6
ISINKDDS	EQU	TEMP7
ISINKADR	EQU	TEMP8
ISOURBTR	EQU	TEMP10
ISOURDDS	EQU	TEMP11

454 7667^{*}
 5150000000 X

MOVBLK SX6 B7
 * SA6 MOVBLKR

SAVE RETURN LINK

455 5110000000 X
 5150000000 X
 456 5140000000 X

SA1 AP4
 SA5 AP3
 SA4 AP1

SINK FILE ADDR
 INDEX OF SINK FILE CAP
 INDEX OF SOURCE FILE CAP

	7160000000 X			
473	10479	DISPCAP	X4	
	7160000000 X	BX4	X7	X7 = SINK FILE ECS UNIQUE NAME
420	13647	DISPCAP	X5	
	5160000000 X	BX6	X4-X7	SAMEFILE FLAG
421	6170000423 +	SA6	SAMEFILE	
	0200000000 X	SB7	MOVBLK1	
	*	JP	CONVERT	RETURN VECTOR FOR *CONVERT*
422	0200000003 +	*	JP	MOVBLK40 SINK NOT OPEN DISK FILE
423	13229	MOVBLK1	BX2	WD COUNT FOR *SETUP*
	6170000431 +	SB7	X2-X2	
424	0200000000 X	JP	MOVBLK2	
	*	*	SETUP	
425	02000001000 +	*	JP	MOVBLK39 ERROR (B7 = ERROR NUM) (FILE UNLOCKED)
426	02000001005 +	*	JP	MOVBLK41 ZERO LEVEL FILE
427	02000000776 +	*	JP	MOVBLK37 FILE LOCALLY FROZEN
428	02000000776 +	*	JP	MOVBLK37 FILE GLOBALLY FROZEN
431	10656	MOVBLK2	BX6	
	76770	SX7	X5	
	5160000000 X	SA6	B1	
432	5170000000 X	SA7	SIZE	SIZE = 18/NUM SECTOR, 18/NUM WDS
	76620	SX6	SINKFHR	SINKFHR = SINK FILE *FHRAADDR*
	10711	BX7	B2	
433	5170000000 X	SAT	X1	
	5160000000 X	SA6	SINKADR	SINK FILE ADDR
434	43555	MX5	SINKLFH	SINKLFH = SINK FILE LFT ADDR
	7160000000 X	COPYCAP	42	FILECAP, CTEMP, (, X5) CTEMP = SINK FILE FILE CAPABILITY
	*	*	*	DECODE SINK FILE ADDRESS
443	5150000000 X	MOVBLK3	SAS	
	6170000452 +	SB7	FHRAADDR	
444	63159	JP	MOVBLK4	
	0200000000 X	S81	X5	
	*	JP	DECODE	
	*	*	*	RETURN VECTOR FOR *DECODE*
445	02000000770 +	*	JP	BUSY POINTER
446	020000007700 +	*	JP	POINTER BLK NON-EXISTANT
447	020000007704 +	*	JP	POINTER BLOCK NOT IN ECS
450	020000004E3 +	*	JP	DATA BLOCK NON-EXISTANT
451	0200001007 +	*	JP	DATA BLOCK NOT IN ECS
452	0200001007 +	MOVBLK4	JP	DATA BLOCK IN ECS
	*	*	*	NON-EXISTANT DATA BLOCK (JUST WHAT WE WANT)
	*	*	*	B5 = DDS POINTER ADDR
	*	*	*	X5 = NON-EXISTANT POINTER
453	10656	MOVBLK5	BX6	
	76750	SX7	X5	
	5160000000 X	SA6	SINKPTR	
454	5170000000 X	SA7	SINKDDS	DDS ADDR OF SINK POINTER

5140000000 X
455 0304800462 *

5150000000 X
456 21525

63550 5140000000 X
457 20432 63340

6140000002
460 6160800462 * 0200000000 X

0200800101 *

5140800000 X 6170080465 *

21425 0200000000 X
464 0100800000 X

5140800000 X 5110000000 X
465

43716 15447 7170083001
467 20762 12747 20628 12776

54742 5140000000 X
471 7160800000 X

5140000000 X
SA4 ZR SAMEFIL X4,MOVBLK6 IF SOURCE = SINK SKIP ACCOUNTING
SAS AX5 SIZE 18 SKIP OF SAME FILE
SB5 SA4 FR,DAR NUM SECTORS PER DATA BLOCK
LX4 SB3 6+18
SB4 SB6 2 INDICATE DISK SPACE
JP DARSPA ACCOUNT DISK SPACE
MOVBLK43 JP IF INSUFFICIENT FUNDS
RESERVE SWAPPED SPACE ON DISK
MOVBLK4 SA4 SIZE
SB7 MOVBLK7 1A
AX4 JP GNSKDAT
RJ SYSERR OUT OF DISK SPACE
SET SINK POINTER BUSY IN DDS
(X6 = SNAP DISK ADDR)
MOVBLK7 SA4 SINKPTR
SA1 SINKADR
MX7 12 CLEAR CURRENT STATUS
BX4 LX7 SET STATUS=1COME IN ↑,ATTACH=1
SX7 3501B
LX7 60-12
BX7 X4,X7 POSITION SWAPPED DISK ADDR
LX6 24
BX7 X7,X6
SAT A4 SINKDDS DOS ADDR OF SINK POINTER
SA4 WRDDS X4,SINKPTR,1 WRITE SINK POINTER
SWITCH ATTENTION TO SOURCE FILE
(EVERYTHING COOL IN SINK)

5150000000 X
503 13554

0305800526 +
504

6160000506 +
505 0200000000 X

5110000000 X 5150000000 X
506

SAS BX5 SAMEFIL X5-X4 X5,MOVBLK11 IF SOURCE = SINK SKIP SWITCH
ZR JP IF SAME FILE
SB6 JP MOVBLKB UNLOCK UNLOCK SINK
MOVBLK8 UNLOCK
SA1 AP2 FIX UP SOURCE FILE FOR MOVBLOCK
SAS AP1 SOURCE FILE ADDRESS
INDEX OF CAP FOR SOURCE FILE

CREATE / DELETE FILE BLOCKS
MOVE BLOCK BETWEEN DISK FILES

517 6170000516 +
7160000000 X
514 0200000000 X

515 0200001013 +
516 13225
6170000524 +
517 0200000000 X

518 0200001017 +
519 0200001015 +
520 0200000777 +
521 0200000777 +

524 5140000000 X
13545
525 0315001021 *

526 5120000000 X
43330
66200

527 5222000001
528 73225
0302001023 +
53220

529 5042500001
20252
37641

530 15664
03060000534 +
64220

531 0200000530 *

534 43614
20222
11662

535 0316001025 +
63320

536 7160000000 X

537 5150000000 X
0335001035 +

538 20507
0335000711 +
20501

539 0325001036 +
20502

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SB7 MOVBLK9
DISPCAP X5
JP CONVERT
* MOVBLK9 JP
BX2 X2-X2
SB7 MOVBLK10
JP SETUP

MOVBLK46 JP
MOVBLK45 JP
MOVBLK38 JP
MOVBLK38 JP
MOVBLK10 SA4
BX5 SIZE
NZ X4-X5
X5,MOVBLK47 JP

RETURN VECTOR FOR *SETUP*
ERROR (107=ERROR NUM) (FILE UNLOCKED)
ZERO LEVEL FILE
LOCALLY FROZEN
GLOBALLY FROZEN

COMPARE BLOCK SIZES
JP IF INCOMPATABLE

SEARCH ABR LIST FOR SOURCE BLOCK

MOVBLK11 SA2 LFHADDR
MX3 6n-36
SB2 BH
SA2 X2+1
SX2 X2
ZR X2,MOVBLK48
SA2 X2
SA4 A2+1
LX2 60-18
IX6 X4-X1
BX6 =X3*X6
ZR X6,MOVBLK12
SB2 A2
JP MOVBLK12 JP

DESIRED BLOCK IS LOCALLY ATTACHED
(SO FAR SO GOOD)
CHECK MAP ATTACH
RESTORE 1ST WD OF ABR

MOVBLK13 MX6 12
LX2 12
BX6 X4*X2
NZ X6,MOVBLK49 JP

SBS REDDS X2
B3,SOURPTR,1 B3>SOURCE PTR ADDR IN DOS
READ SOURCE POINTER

SAB NG SOURPTR
NG X5,MOVBLK52 1
LX5 NG X5,MOVBLK27 1
LX5 PL X5,MOVBLK53 2
LX5

*CONSISTANCY (DATA BLOCK)

JP IF BUSY

*CONSISTANCY (IN)

CREATE / DELETE FILE BLOCKS
MOVE BLOCK BETWEEN DISK FILES

5150000000 X
572 43607
20645
12665
54620
573 5150000000 X
10655
574 5066500000 X

5150000000 X
575 43612
15526
7160002400
576 20665
12656

43730
20460
577 11574
13645
21530
54650
600 5140000000 X
21422
601 5170000000 +
76630
602 5160000000 X
6200000000 X

603 0100000000 X
604 5150000000 X
7160000000 X

5110000000 X
5120000000 X
620 7160000000 X
631 7160000000 X

5150000000 X
0365000660 +

5150000000 X
43601
20645
575 37656
5145000000 X

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SAS
BX5
MX6
LX6
SX6
SA6
SAS
BX6
SA6

SINKDDS
X4+X5
1

1+36
X6+X5

A2

SINKADR

X5

A6+1

REG ATTACH = 1
1ST WORD OF NEW SINK ABR

2ND WD OF NEW SINK ABR

SET SOURCE POINTER NON-EXISTANT

SAS
MX6
BX5
SX6
LX6
BX6

SOURPTR

12

-X6+X5

2400B

66+12

X6+X6

SOURCE POINTER

CLEAR CURRENT STATUS

NEW STATUS (NON-EXISTANT)

RELEASE SWAPPED DISK SPACE

MX7
LX4
BX5
SX6
AX5
SAS
SA4
AX4
SB7
SX6
SA6
JP

24

24+24

X7+X6

X6+X5

24

A5

SIZE

1A

MOVBLK16

B3

SOURDDS

FDSKDAT

SAVE SOURCE DDS PTR ADDR

RJ
MOVBLK16
SAS

SYSERR

SOURDDS

WRDOS

X6,SOURPTR,1

WRITE BACK SOURCE POINTER

MOVE BLOCK IN ECS FILE(S)

SAS
SA2
MYBLK
WRITE

AP2

AP4

FILECAP,(+X1),CTEMP,(+X2),MOVBLK56

CTEMP,(+X2),B0,B1,MOVBLK57

SOURCE ADDRESS

SINK ADDRESS

ACCOUNT IN SOURCE FILE

SAS
ZR
MX6
LX6
IX6
SA4

SAMEFIL

X6,MOVBLK20

FR,SIZE

1

1+36

X5-X6

SIZE

IF SOURCE = SINK SKIP
SOURCE ACCOUNTING

DECR NUM OF EXISTING SECTORS

	21422	AX4 IX6 SA6	I8 X4-X4 A5	DECR NUM DISK SECTORS	
645	37657	54650	*		
	63540		SB5 SR5 SA4 LX4 SB3 SB4 SB6	REFUND DISK SPACE	
646	51400000000 X	67505	LX4 FR.DAR 6+18 X4 2		
	20430	63340	JP	MOVBLK17	
647	61400000002	6160000652 +		DARSPA	
650	02000000000 X	*			
	*			SWITCH TO SINK FILE	
651	01000000000 X	*	RJ	SYSERR	
652	6160000653 +	MOVBLK17	SB6	MOVBLK18	
	02000000000 X	JP		UNLOCK SOURCE FILE	
653	51400000000 X	MOVBLK18	SA4 SB6	SINKFHR	
	6160000655 +	JP		MOVBLK19	
654	02000000000 X	*		LOCK	
	*				
655	51500000000 X	MOVBLK19	SA5 MX6 LX6 IX6 SA4 AX4 IX6 SA6	FR.SIZE	INCR NUM EXISTING BLOCKS IN SINK
	43601				
	20645				
656	36654	51400000000 X			
	21422			INCR NUM OF SECTORS	
657	36657	54650	*		
	*			FIX UP SINK POINTER	
660	51400000000 X	MOVBLK20	SA4 MX6 BX4 SX6 LX6 RX6 SA6	SINKPTR	CLEAR BUSY STATUS
	43614			NEW STATUS = IN FROM SWAPPED	
661	7160001481	16446			
	20660	*			
662	5464	12664			
	*				
	51300000000 X		SAS	SINKDOS	
663	71600000000 X		WRDOS	X3, SINKPTR, 1	WRITE SINK POINTER
	*				
675	6160000676 +	02000000000 X	SB6 JP	MOVBLK21	UN-LOCK SINK FILE
	*			LOCK	
676	51400000000 X	63740	SA4 SB7 JP	MOVBLKR	EXIT
677	02700000000			X4 B7	

700 6170000703 +
0200001043 +
701 0100000000 X
702 0200000001 +
703 5110000000 X
0200000443 +

MOVBLK22 SR7
JP
RJ
MOVBLK23
CREPTRB
SYSERR
MOVBLK23
SA1
JP

MOVBLK23
CREPTRB
SYSERR
MOVBLK43
STNKADR
MOVBLKS

CREATE MISSING POINTER BLOCK

INSUFF DDS...SHOULD BE A *E.NODDS*

INSUFFICIENT FUNDS
RECOVER FILE ADDRESS
TRY AGAIN

704 6640? 76550
63520
705 6170000706 +
0200000000 X
706 0326000443 +
7276000003
707 0317001031 +
0100000000 X

MOVBLK24 SB4
SX5
SB5
SB7
JP
MOVBLK25
PL
SX7
NZ
RJ

B0
B5
X2
MOVBLK25
PBR
X6,MOVBLK3
X6+3
X7,MOVBLKS1
SYSERR

ADDR OF POINTER
SIZE OF POINTER BLOCK
CALL FOR POINTER BLOCK READ
(ASSUME X1 SURVIVES PBR)
JP IF OK.
JP IF I/O ERROR
INSUF DDS...SHOULD BE A *E.NODDS*

BUSY POINTER (SINK)

710 6160000443 +
0200000000 X

MOVBLK26 SR6
JP

MOVBLK3
UNLOCKW

WAIT ON SUSPENSE LIST W/
FILE UNLOCKED

NON-EXISTANT POINTER BLOCK IN SINK FILE
B5 = DDS ADDR OF POINTER
B4 = 0 IF MISSING PTR BLK POINTS
TO DATA BLOCKS
X4 = POINTER BLOCK POINTER
X2 = LOG2(POINTER BLK SIZE)

CREATE MISSING POINTER BLOCK

INSUFF DDS...SHOULD BE A *E.NODDS*

INSUFFICIENT FUNDS
RECOVER FILE ADDRESS
TRY AGAIN

POINTER BLOCK NOT IN ECS

X4 = POINTER BLK POINTER
B5 = DDS POINTER ADDR
X2 = LOG2(POINTER BLOCK SIZE)

ADDR OF POINTER
SIZE OF POINTER BLOCK
CALL FOR POINTER BLOCK READ
(ASSUME X1 SURVIVES PBR)
JP IF OK.
JP IF I/O ERROR
INSUF DDS...SHOULD BE A *E.NODDS*

BUSY POINTER (SINK)

WAIT ON SUSPENSE LIST W/
FILE UNLOCKED

			BUSY POINTER (SOURCE) MUST UNDO EVERYTHING IN SOURCE BEFORE WAITING ON SUSPENSE LIST (COULD CAUSE DEADLY EMBRACE)
711	5150000000 X 76736	MOVBLK27 S45 SX7 LX7 BX6 SA6 Sx6 JP	FHRADDR B3 18 X6+X7 TEMP2 MOVBLK28 MOVBLK32
712	12667 5160000000 X		
713	7160000714 + 0200000740 +		RETURN LINK RESET SINK FILE
714	5150000000 X 73456	MOVBLK28 S45 SX4 AX5 SB3 SR6 JP	TEMP2 X5 18 X5 MOVBLK29 LOCK
715	63357 6150000717 +		LOCK SOURCE FILE
716	0200000000 X		
717	7160000000 X	MOVBLK29 REDDS	B3, TEMP2, 1
731	5150000000 X 20501	S45 LX5 PL	TEMP2
732	0325000725 + 43703	MX7 BX7	1 X5, MOVBLK30
733	7277777772 0307000735 +	ZR	JP IF NOT BUSY
734	6160000725 + 0200000000 X	SB6 JP	X7-S X7, MOVBLK30
			JP IF NON-EXISTANT NOW
735	6160000736 + 0200000000 X	MOVBLK30 SB6 JP	MOVBLK30 UNLOCK
736	5110000000 X 63720	MOVBLK31 S41 SB7 JP	UNLOCK SOURCE AND START OVER
737	0200000454 +		MOVBLK31 X2 MOVBLK
			START OVER

740	5160000000 X	
	5150000000 X	
741	03050000752 +	
	6160000743 +	
742	02000000000 X	
	743 5140000000 X	
	6160000745 +	
744	02000000000 X	
745	51500000000 X	
	21522	
	63556	
746	67500	
	51400000000 X	
	20430	
747	63342	
	61400000002	
748	6160000752 +	
	02000000000 X	
	751 01000000000 X	
752	51400000000 X	
	43614	
	15646	
753	7170002400	
	20760	
	12667	
754	43732	
	20760	

MOVBLK32	SA6	TEMP4
	*	
SAS	ZR	SAMEFIL
		X5,MOVBLK35
SB6	JP	UNLOCK SOURCE FILE
		MOVBLK33
		UNLOCK
MOVBLK33	SA4	SPECIAL ENTRY POINT.....
	SB6	SINKFHR
	JP	LOCK SINK
MOVBLK34	SA5	MOVBLK34
	AX5	LOCK
	SBS	SIZE
	SBS	18
	SA4	X5
	LX4	SB5
	SB3	FR,DAR
	SB4	6+18
	SB6	X4
	JP	2
MOVBLK35	RJ	INDICATE DISK SPACE
	SA4	DARSRA
	MX6	RESET SINK POINTER
MOVBLK35	BX6	SYSERR
	SX7	SINKPTR
	LX7	12
	BX6	-X6*X4
	MX7	2400B
	LX7	60-12
		X6*X7
		24
		24+24

SUBROUTINE TO RESET SOURCE FILE
ACTION IS
1) UNLOCK SOURCE
2) LOCK SINK
3) REFUND SINK SPACE
4) RESET SINK POINTER
5) UNLOCK SINK

ON ENTRY

SOURCE IS LOCKED

SIZE = BLOCK SIZE
SINKFHR = SINK FHR ADDR
SINKLFH = SINK LFH ADDR
SINKPTR = COPY OF SINK POINTER
SINKDDS = ADDR SINK PTR IN DDS
X6 = RETURN LINK

SAVE RETURN LINK

CHECK FOR SOURCE = SINK
SKIP IF SAME FILE

UNLOCK SOURCE FILE

MOVBLK33

UNLOCK

SPECIAL ENTRY POINT.....

SINKFHR

LOCK SINK

MOVBLK34

LOCK

SIZE

18

X5

SB5

FR,DAR

6+18

X4

2

MOVBLK35

DARSRA

REFUND DISK SPACE

NUM SECTORS

INDICATE DISK SPACE

RESET SINK POINTER

COPY OF SINK POINTER (BUSY)

CLEAR BUSY STATUS
SET NONEXISTANT

CREATE / DELETE FILE BLOCKS
MOVE BLOCK BETWEEN DISK FILES

11576
13665
755 2153⁵
54640
5140000000 X
756 21429
6170000761 *
757 0200000000 X

760 0100000000 X
761 5150000000 X
7160000000 X

774 5150000000 X
63650
63650
775 0200000000 X

BX5
BX6
AX5
SA6
SA4
AX4
SB7
JP

RJ
MOVBLK36
WRDDS

SA5
SB6
SB6
JP

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FREE SWAPPED DISK ADDR

NUM SECTORS

FREEING ALREADY FREE SECTORS
WRITE RESET SINK POINTER

RECOVER RETURN LINK

UNLOCK SINK AND RETURN

776 6160000000 X
0200000000 XMOVBLK37 SB6
JP

FROZEN SINK FILE

FRETURN
UNLOCK

UNLOCK SINK FILE AND DO FRETURN

777 7160000000 X
0200000740 +MOVBLK38 SX6
JP

FROZEN SOURCE FILE

FRETURN
MOVBLK32

RESET SINK FILE AND DO FRETURN

T000 76678
7176000004MOVBLK39 SX6
SX7

ERROR CONDITIONS

FILE ADDRESS ERROR..SINK FILE
R7
4
PARAM NUMT001 12667
5160000000 X
T002 0200000000 XMOVBLK40 SX6
SA6
JPLX7
BX6
SA6
JPERRNUM
ERRPARM

SINK FILE NOT OPEN DISK FILE

E.NOFIL
ERRNUM
ERRFILET003 7160000000
5160000000 X
T004 0200000000 XMOVBLK41 SX6
SA6
JPE.ZLEV
ERRNUM
ERRFILE

SINK ZERO LEVEL FILE

T005 7160000023
5160000000 X
T006 0200000000 XMOVBLK42 SX6
SA6
JPE.ZLEV
ERRNUM
ERRFILE

DATA BLOCK EXISTS IN SINK

T007 7160000001
5160000000 X
T010 6160000000 X
0200000000 XMOVBLK43 SX6
SA6
JPE.ISBLK
ERRNUM
ERRFILE
UNLOCKINSUFFICIENT DISK SPACE IN SINK DIR
E.NOOSK
ERRNUMT011 7160000004
5160000000 X

7012	6160000000 X 0200000000 X	*	SB6 JP	ERRALOC UNLOCK
7013	7160000000 — 5160000000 X	*	MOVBLK44 SX6 SA6 SX6 JP	SOURCE NOT OPEN DISK FILE E.NOFIL SOURCE UNLOCKED ERRNUM ERRFILE MOVBLK33 SPECIAL ENTRY TO RESET SINK
7014	7160000000 X 0200000743 +	*		
7015	7150000033 — 5160000000 X	*	MOVBLK45 SX5 SA6 SX6 JP	ZERO LEVEL SOURCE FILE E.ZLEV ERRNUM ERRFILE MOVBLK33 RESET SINK AND DO ERROR SPECIAL ENTRY TO RESET SINK
7016	7160000000 X 0200000743 +	*		
7017	76675 5160000000 X	*	MOVBLK46 SX6 SA6 SX6 JP	FILE ADDRESS ERROR IN SINK FILE B7 SINK UNLOCKED ERRNUM ERRPARM MOVBLK33 SPECIAL ENTRY TO RESET SINK
7018	7160000000 X 0200000743 +	*		
7019	7160000044 — 5160000000 X	*	MOVBLK47 SX6 SA6 SX6 JP	INCOMPATABLE BLOCK SIZES E.MISMCH ERRNUM ERRFILE MOVBLK32 RESET SINK
7020	7160000000 X 0200000740 +	*		
7021	7160000032 — 5160000000 X	*	MOVBLK48 SX6 SA6 SX6 JP	SOURCE BLOCK NOT ATTACHED E.NATH ERRNUM ERRFILE MOVBLK32
7022	7160000000 X 0200000740 +	*		
7023	7160000032 — 5160000000 X	*		
7024	7160000000 X 0200000740 +	*		
7025	7160000042 — 5160000000 X	*	MOVBLK49 SX6 SA6 SX6 JP	SOURCE BLOCK IN A MAP E.INMAPS ERRNUM ERRFILE MOVBLK32
7026	7160000000 X 0200000740 +	*		
7027	7160000042 — 5160000000 X	*	MOVBLK50 SX6 SA6 SX6 JP	SOURCE GLOBAL ATTACH .GT. 1 E.TMGA ERRNUM ERRFILE MOVBLK32
7028	7160000000 X 0200000740 +	*		
7029	7266000011 — 0336001040 +	*	MOVBLK51 SX6 NG	TROUBLK ON POINTER BLOCK READ X6+1
7030	20122 12676	*	LX1	X6,MOVBLK55 JP IF REAL TROUBLE
7031	7160000000 X 6160000000 X	*	BX6	18 X1+X6 E.IOERR
7032	7160000013	*	SX6	ERRNUM
7033	7160000000 X 6160000000 X	*	SA6	ERRFILE

T034 0200000000 X

JP

UNLOCK

UNLOCK SINK AND DO ERROR

*

*

*

CONSISTANCY CHECKS

T035 01000000000 X
T036 01000000000 X
T037 01000000000 X
T040 01000000000 X
T041 01000000000 X
T042 01000000000 X

MOVBLK52 RJ
MOVBLK53 RJ
MOVBLK54 RJ
MOVBLK55 RJ
MOVBLK56 RJ
MOVBLK57 RJ

SYSERR PTR NOT FOR DATA BLOCK
SYSERR DATA BLOCK NOT IN BUT IN ABR
SYSERR ATTACH COUNT = n BUT BLOCK IN ECS
SYSERR ERR ON PBR (MEMBERSHIP)
SYSERR F-RETURN ON MOVBLOCK OPER
SYSERR F-RETURN ON WRITE

NON-EXISTANT POINTER BLOCK
MUST CREATE IT (FILE LOCKED)

B5 = DDS ADDR OF POINTER
B4 = 0 IF MISSING PTR BLK POINTS
TO DATA BLOCKS
X4 = POINTER BLOCK POINTER
X2 = LOG2(POINTER BLK SIZE)
B7 = RETURN LINK

RETURN IS TO B7-1 IF INSUFFICIENT
FUNDS FOR NEW PTR BLK ON DISK
RETURN IS TO B7-2 IF INSUFFICIENT
DDS SPACE

TEMPORARIES : ↑CREPTRR↑, ↑TEMP4↑, (↑TEMP5↑)
ROUTINES CALLED : ↑MKPTR↑, ↑DARSPA↑, ↑GDSKPTR↑

T043	7667*	
		5160000000 X
T044	6372*	49573
		22575
		14555
T045	20625	76650
		12665
		20622
		76740
T046	12667	
		5160000000 X
T047	5140000000 X	
		20436
T050	5150000000 X	63340
		43673
		37656
T051	5465*	
		6140000002
T052	6150000001	
		6160001055 +
T053	0200000000 X	
T054	0200001153 +	
T055	6170001057 *	0200000000 X
T056	0200000000 X	
T057	5150000000 X	63450

CREPTRR	SX6	B7	SAVE RETURN LINK
	SA6	CREPTRR	
	MX5	S9	CONVERT LOG2 TO POINTER BLK SIZE
	SB7	X2	
	LX5	X5, B7	
	BX5	=X5	
	SX6	RS	
	LX6	I8	
	BX6	X8+X5	
	SA6	I9	
		R4	PTR BLK/DATA BLK FLAG
		X6+X7	
		TEMP4	
		FR.DAR	ACCOUNT ONE MORE DISK SECTOR
		LX4	
		S80	
		SAB	UPDATE FILE HEADER RECORD
		MX6	
		IIX6	
		SA6	
		SB4	INDICATE DISK SPACE
		SBS	
		SB6	ONE SECTOR
		JP	
		CREPTRB1	
		DARSPA	
		JP	
CREPTRR1	JP	CREPTRB5	INSUFFICIENT FUNDS
	SB7	CREPTRB2	RESERVE POINTER BLOCK ON DISK
	JP	GDSKPTR	
		SYSERR	DISK FULL
			FIX UP POINTER BLOCK POINTER
CREPTRR2	SA5	TEMP4	
	SB4	X5	PTR BLK/ DATA BLK FLAG

**CREATE / DELETE FILE BLOCKS
CREATE POINTER BLOCK**

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CREATE / DELETE FILE BLOCKS
CREATE POINTER BLOCK

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0 X SINKFHR EQU	TEMP1
0 X SINKLFH EQU	TEMP3
0 X SINKPTR EQU	TEMP6
0 X SINKDDS EQU	TEMP7
0 X SINKADR EQU	TEMP8
0 X SOURPTR EQU	TEMP10
0 X SOURDDS EQU	TEMP11
*	

1176

END

44661	STORAGE USED	4633 STATEMENTS	948 SYMBOLS	000024 INVENTED SYMBOLS
	6600 ASSEMBLY	29.769 SECONDS	822 REFERENCES	

CREATE / DELETE FILE BLOCKS SYMBOLIC REFERENCE TABLE.

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SCHECHTER & CO., INC., NEW YORK, N.Y.

22/07		22/63
12/14		12/33
11/13 S		12/26
12/27		
8/27 L		
6/31		8/42
6/25		17/65
11/20 L		

CREATE / DELETE FILE BLOCKS
SYMBOLIC REFERENCE TABLE.

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CREBLK26	766	PROGRAMS	5/16	11/25 L				
CREBLK27	762	PROGRAMS	5/14	11/32				
CREBLK28	764	PROGRAMS	5/45	11/37				
CREBLK29	766	PROGRAMS	5/29	11/42	L			
CREBLK30	768	PROGRAMS	5/24 L	5/27				
CREBLK32	770	PROGRAMS	6/24	11/47	L			
CREBLK33	772	PROGRAMS	11/48	12/07	L			
CREBLK34	774	PROGRAMS	6/32	12/13	L			
CREBLK35	776	PROGRAMS	9/16	12/17	L			
CREBLK36	778	PROGRAMS	9/19	12/21	L			
CREBLK37	780	PROGRAMS	12/18	12/22	L			
CREBLK39	782	PROGRAMS	10/16	12/30	L			
CREBLK41	784	PROGRAMS	12/21	12/35	L			
CREBLK42	786	PROGRAMS	5/25	5/31	L			
CREBLK43	788	PROGRAMS	7/07	12/36	L			
CREBLK44	790	PROGRAMS	10/15	12/39	L			
CREBLK45	792	PROGRAMS	5/53	6/11	L			
CREBLK46	794	PROGRAMS	6/12	6/25	L			
CREBLK47	796	PROGRAMS	6/23	6/31	L			
CREBLK48	798	PROGRAMS	6/37	6/44	L			
CREBLK49	800	EXTERNAL*	9/13	28/10	35/19 L			
CREBLK50	802	PROGRAMS	35/42	35/46				
CREBLK51	804	PROGRAMS	35/46	35/52				
CREBLK52	806	PROGRAMS	36/69	36/12				
CREBLK53	808	PROGRAMS	36/68	36/16				
CREBLK54	810	PROGRAMS	35/45	36/24				
CREBLK55	812	PROGRAMS	36/15	36/29				
CREBLK56	814	PROGRAMS	36/41	36/44				
CREBLK57	816	EXTERNAL*	35/20	36/20	36/24	34/64		
CREBLK58	818	EXTERNAL*	22/30	26/42	26/43			
CREBLK59	820	EXTERNAL*	5/44	8/23	12/03	14/23	27/12	35/43
CREBLK60	822	EXTERNAL*	6/52	8/35	16/20	24/76	36/41	36/42
CREBLK61	824	EXTERNAL*	6/51	6/56	15/06 S	23/38 S	24/46 S	26/36 S
CREBLK62	826	EXTERNAL*	6/51	6/56	15/06 S	23/38 S	24/46 S	27/45 S
CREBLK63	828	EXTERNAL*	6/51	6/56	15/06 S	23/38 S	24/46 S	27/45 S
CREBLK64	830	EXTERNAL*	6/51	6/56	15/06 S	24/46 S	26/36 S	27/45 S
CREBLK65	832	EXTERNAL*	6/51	6/56	23/38 S	24/46 S	26/36 S	27/45 S
CREBLK66	834	EXTERNAL*	6/51	6/56	23/38 S	24/46 S	26/36 S	27/45 S
CREBLK67	836	EXTERNAL*	6/51	6/56	14/30	22/36	24/36 S	26/36 S
CREBLK68	838	PROGRAMS	13/42 L	13/42				
CREBLK69	840	PROGRAMS	14/35	17/20 L				
CREBLK70	842	PROGRAMS	17/18	17/22 L				
CREBLK71	844	EXTERNAL*	13/44 S	16/38	17/26 S	19/38 S	20/07 S	

CREATE / DELETE FILE BLOCKS SYMBOLIC REFERENCE TABLE.

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DEI:BLK7	222	PROGRAM*	13/43	13/51 L
DEI:BLK10	221	PROGRAM*	16/66	16/11 L
DEI:BLK11	206	PROGRAM*	16/14	16/19 L
DEI:BLK12	213	PROGRAM*	16/27	16/32 L
DEI:BLK13	215	PROGRAM*	14/38	16/49 L
DEI:BLK14	217	PROGRAM*	16/51	17/02 L
DEI:BLK15	221	PROGRAM*	14/36	17/11 L
DEI:BLK16	222	PROGRAM*	14/37	14/39 L
DEI:BLK18	227	PROGRAM*	13/49	17/31 L
DEI:BLK19	230	PROGRAM*	14/41	18/05 L
DEI:BLK2	232	PROGRAM*	14/05	14/17 L
DEI:BLK20	232	PROGRAMS*	18/10 L	18/17
DEI:BLK21	236	PROGRAM*	18/19 L	
DEI:BLK22	237	PROGRAM*	18/13	18/30 L
DEI:BLK23	245	PROGRAM*	18/41	18/51 L
DEI:BLK24	247	PROGRAM*	18/49	19/06 L
DEI:BLK25	253	PROGRAM*	14/14	14/15
DEI:BLK26	264	PROGRAM*	17/05	19/31 L
DEI:BLK27	271	PROGRAM*	14/12	19/43 L
DEI:BLK28	272	PROGRAM*	14/10	17/32
DEI:BLK29	275	PROGRAM*	19/32	19/51 L
DEI:BLK3	284	PROGRAM*	14/27 L	15/41
DEI:BLK30	276	PROGRAM*	19/22	19/52 L
DEI:BLK31	277	PROGRAM*	17/04	20/02 L
DEI:BLK32	282	PROGRAM*	14/03	20/11 L
DEI:BLK33	284	PROGRAM*	14/28	14/41 L
DEI:BLK34	285	PROGRAM*	14/40	14/47 L
DEI:BLK35	287	PROGRAM*	15/09	15/13
DEI:BLK36	277	PROGRAM*	16/05 L	17/27
DEI:HDSH		EXTERNAL*		17/20 19/54
IDENTRY		EXTERNAL*		15/20 L
DETACH		EXTERNAL*		19/39 20/08
HETACHR		EXTERNAL*		
HAKENT		EXTERNAL*		
HAKERR		EXTERNAL*		
HAKINT		EXTERNAL*		
LBLK21A	336	PROGRAM*	18/22 L	18/32
LBLK26A	356	PROGRAM*	18/20	18/23
JOBFSPR		EXTERNAL*		19/34 L
DSKLOCK		EXTERNAL*		
JSSDTB		EXTERNAL*		
SUPPTM		EXTERNAL*		
SYSTIM		EXTERNAL*		
UARTIM		EXTERNAL*		
ENTRY		EXTERNAL*		
NAME		EXTERNAL*		
FCT:CSSE		EXTERNAL*		
FCT:CRBLK		EXTERNAL*		
FCT:DRBLK		EXTERNAL*		
FCT:DSCB		EXTERNAL*		
FCT:MLRK		EXTERNAL*		
FCT:MCAP		EXTERNAL*		
FCT:WPRIT		EXTERNAL*		
		7/06		
		19/22		
		5/07		
		26/42		
		22/30		
		7/07		
		26/43		

~~CREATE / DELETE FILE BLOCKS SYMBOLIC REFERENCE TABLE.~~

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CREATE / DELETE FILE BLOCKS
SYMBOLIC REFERENCE TABLE

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FR.CAPX	EXTERNAL*	5/39	11/52	23/09	36/36	36/36
FR.DLM	EXTERNAL*	8/17	16/15	27/07	36/33	
FR.DAR	EXTERNAL*					
FR.DRSZ	EXTERNAL*					
FR.FLAG	EXTERNAL*					
FR.FROZ	EXTERNAL*					
FR.SUND	EXTERNAL*					
FR.TEN	EXTERNAL*					
FR.TLOCK	EXTERNAL*					
FR.MEMR	EXTERNAL*					
FR.NAME	EXTERNAL*					
FR.ONEL	EXTERNAL*					
FR.OPEN	EXTERNAL*					
FR.ROOT	EXTERNAL*					
FR.SHAD	EXTERNAL*					
FR.SIZE	EXTERNAL*					
FR.SUSP	EXTERNAL*					
FR.WD1	EXTERNAL*					
FR.WD2	EXTERNAL*					
FR.WD3	EXTERNAL*					
FR.WRITE	EXTERNAL*					
FR.DEKDAT	EXTERNAL*					
FR.DEKHOR	EXTERNAL*					
FR.DEKPTR	EXTERNAL*					
FR.EFDISK	EXTERNAL*					
FR.FITLE	EXTERNAL*					
FR.APTF	EXTERNAL*					
FR.APTL	EXTERNAL*					
FR.DATF	EXTERNAL*					
FR.DATL	EXTERNAL*					
FR.DNSF	EXTERNAL*					
FR.DOSL	EXTERNAL*	6/31	15/20	26/49	27/54	35/36
FR.HSHF	EXTERNAL*	6/40	23/21			36/31
FR.HSHL	EXTERNAL*					
FR.IOTF	EXTERNAL*					
FR.IOTL	EXTERNAL*					
FR.SUSE	EXTERNAL*					
FR.SUSL	EXTERNAL*					
FR.TBVF	EXTERNAL*					
FR.TAFA	EXTERNAL*					
FR.TJPL	EXTERNAL*					
FR.BRW	EXTERNAL*					
FR.ENTRY	EXTERNAL*					
FR.FITLE	EXTERNAL*					
FR.DBLK	EXTERNAL*					
FR.DAT	EXTERNAL*					
FR.TRIUP	EXTERNAL*					

CREATE / DELETE FILE BLOCKS
SYMBOLIC REFERENCE TABLE.

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!TOTPL	5	EXTERNAL*								
!PFILE	6	EXTERNAL*								
!PTPLIST	6	EXTERNAL*								
			3/10							
			3/10 D	7/06 S	7/07 S	19/22 S	22/04 S	22/30 S	26/42 S	26/43 S
			5/27 S	7/06	7/07	19/22 S	22/04 S	22/30	26/42 S	26/43 S
			5/27 S	7/07 S	13/47 S	19/22	22/04	24/03 S	26/42 S	26/43 S
			5/27	7/07 S	13/47 S	22/22 S	22/30 S	24/03 S	26/42 S	26/43 S
			7/06 S	7/07 S	13/47	22/22 S	22/30 S	24/03 S	26/42 S	26/43 S
			7/06 S	7/07 S	19/22 S	22/22	22/30 S	26/42 S	26/43 S	26/43
			7/10	18/05	18/51	19/22	22/22	22/30 S	26/42 S	26/43 S
						19/23	24/22	25/25	25/25	25/33
!FHANDR	5	EXTERNAL*								
!FT	5	EXTERNAL*								
!FFREE	5	EXTERNAL*								
!NADRUF	5	EXTERNAL*								
!ÖÖK	5	EXTERNAL*								
!ÖÖTÄB	5	EXTERNAL*								
!ÖÖTÄBF	5	EXTERNAL*								
!ÖÖTÄBL	5	EXTERNAL*								
!VNCL	5	EXTERNAL*								
MAVNCL	5	EXTERNAL*								
MAKEMAP	5	EXTERNAL*								
MABRIIF	5	EXTERNAL*								
MKBTR	5	EXTERNAL*								
MOVRLK	604	PROGRAM*								
MOVRLK0	604	PROGRAM*	36/12							
MOVRLK1	623	PROGRAM*	21/48 L	29/42						
MOVRLK10	624	PROGRAM*	21/49 S	27/50		29/40				
MOVRLK11	626	PROGRAM*	22/56	22/11 L						
MOVRLK12	635	PROGRAM*	24/57	24/16						
MOVRLK13	634	PROGRAM*	23/45	24/22						
MOVRLK14	661	PROGRAM*	24/26 L	24/35						
MOVRLK15	663	PROGRAM*	24/33	24/39						
MOVRLK16	674	PROGRAM*	25/15	25/25						
MOVRLK17	675	PROGRAM*	25/23	25/33						
MOVRLK18	676	PROGRAM*	26/28	26/34						
MOVRLK19	677	PROGRAM*	27/11	27/16						
MOVRLK2	678	PROGRAM*	27/16	27/19						
MOVRLK20	686	PROGRAM*	27/20	27/24						
MOVRLK21	691	PROGRAM*	22/12	22/20						
MOVRLK22	692	PROGRAM*	26/47	27/35						
MOVRLK23	693	PROGRAM*	27/47	27/50						
MOVRLK24	694	PROGRAM*	22/40	28/09						
MOVRLK25	696	PROGRAM*	28/69	28/14						
MOVRLK26	701	PROGRAM*	22/39	28/27						
MOVRLK27	711	PROGRAM*	22/39	28/33						
MOVRLK28	714	PROGRAM*	24/50	28/46						
MOVRLK29	717	PROGRAM*	29/13	29/17						
MOVRLK3	743	PROGRAM*	29/21	29/24						
MOVRLK30	745	PROGRAM*	22/33 L	28/15		28/33		28/46		
MOVRLK31	736	PROGRAM*	29/27	29/31		29/33		28/37 L		
MOVRLK32	746	PROGRAM*	29/37	29/40						
MOVRLK33	748	PROGRAM*	29/54	30/18	L	32/15	33/26	33/32	33/38	33/44
MOVRLK34	745	PROGRAM*	30/24	30/28	L	33/08	33/14	33/20		
MOVRLK35	752	PROGRAM*	30/29	30/32	L					
MOVRLK36	761	PROGRAM*	30/21	30/40		30/46 L				
			31/07	31/12	L					

CREATE / DELETE FILE BLOCKS
SYMBOLIC REFERENCE TABLE.

MOVBLK37	776	PROGRAM*	22/17	22/18	32/04 L
MOVBLK38	577	PROGRAM*	24/13	24/14	32/14 L
MOVBLK39	1500	PROGRAM*	22/15	32/26	L
MOVBLK40	1503	PROGRAM*	22/34	22/44	L
MOVBLK41	1505	PROGRAM*	22/59	32/36	L
MOVBLK42	1507	PROGRAM*	22/16	32/41	L
MOVBLK43	1517	PROGRAM*	22/43	22/44	L
MOVBLK44	1518	PROGRAM*	23/16	28/13	L
MOVBLK45	1519	PROGRAM*	24/05	33/05	L
MOVBLK46	1520	PROGRAM*	24/12	33/11	L
MOVBLK47	1521	PROGRAM*	24/11	33/17	L
MOVBLK48	1523	PROGRAM*	24/18	33/23	L
MOVBLK49	1525	PROGRAM*	24/27	33/29	L
MOVBLK50	1527	PROGRAM*	24/42	33/35	L
MOVBLK51	1529	PROGRAM*	22/42	22/50	L
MOVBLK52	1531	PROGRAM*	25/06	33/41	L
MOVBLK53	1536	PROGRAM*	28/35	33/47	L
MOVBLK54	1537	PROGRAM*	24/48	34/12	L
MOVBLK55	1541	PROGRAM*	24/52	34/13	L
MOVBLK56	1541	PROGRAM*	25/03	34/14	L
MOVBLK57	1542	PROGRAM*	33/48	34/15	L
MOVBLK58	1542	PROGRAM*	26/42	34/16	L
MOVBLK59	1543	PROGRAM*	26/43	34/17	L
MOVBLK60	1546	PROGRAM*	23/04	23/13	L
MOVBLK61	1546	PROGRAM*	23/19	23/25	L
MOVBLK62	1546	PROGRAM*	23/48	23/52	L
MOVBLK63	1547	PROGRAM*	23/51	24/06	L
MYCOPP		EXTERNAL*			
MYDAR		EXTERNAL*			
MYEVCH		EXTERNAL*			
MYIDENT		EXTERNAL*			
MYDESB		EXTERNAL*			
MYSCRF		EXTERNAL*			
MYSLIBR		EXTERNAL*			
MYXWOC		EXTERNAL*			
MYUNIT		EXTERNAL*			
M.1BRECH		EXTERNAL*			
M.1BBRIL		EXTERNAL*			
M.1BCRREL		EXTERNAL*			
M.1ACTOC		EXTERNAL*			
M.1ADDSSR		EXTERNAL*			
M.1AUSPD		EXTERNAL*			
M.1AUSPH		EXTERNAL*			
M.1BRITL		EXTERNAL*			
M.1CLDCC		EXTERNAL*			
M.1CLOSE		EXTERNAL*			
M.1CLTMM		EXTERNAL*			
M.1DARL		EXTERNAL*			
M.1DREO		EXTERNAL*			
M.1DRSP		EXTERNAL*			
M.1DSCT		EXTERNAL*			

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CREATE / DELETE FILE BLOCKS
SYMBOLIC REFERENCE TABLE.

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M.REFILT	EXTERNAL*						
M.REFORJS	EXTERNAL*						
M.REFEMPTY	EXTERNAL*						
M.REFCLEV	EXTERNAL*						
M.REFDISK	EXTERNAL*						
M.REFHRL	EXTERNAL*						
M.REFILCL	EXTERNAL*						
M.REFRWCC	EXTERNAL*						
M.REFFILE	EXTERNAL*						
M.REFHASHL	EXTERNAL*						
M.REFHELD	EXTERNAL*						
M.REFFILE	EXTERNAL*						
M.REFLOCKR	EXTERNAL*						
M.REFLOCKA	EXTERNAL*						
M.REFCOL	EXTERNAL*						
M.REFBUFS	EXTERNAL*						
M.REFTRY	EXTERNAL*						
M.REFDISK	EXTERNAL*						
M.REFSLOTS	EXTERNAL*						
M.REFSWAB	EXTERNAL*						
M.REFRMCC	EXTERNAL*						
M.REFRYCC	EXTERNAL*						
M.REFVRES	EXTERNAL*						
M.REFWAIT	EXTERNAL*						
M.REFNAME	EXTERNAL*						
M.REFSCTR	EXTERNAL*						
M.REFUSRCC	EXTERNAL*						
M.REFWRITERS	EXTERNAL*						
M.REFTSECO	EXTERNAL*						
M.REFLOCKS	EXTERNAL*						
M.REFDJS	EXTERNAL*						
M.REFDLOCK	EXTERNAL*						
M.REFMURK	EXTERNAL*						
M.REFPEN	EXTERNAL*						
M.REFENDAR	EXTERNAL*						
M.REFROL	EXTERNAL*						
M.REFCL	EXTERNAL*						
M.REFADR	EXTERNAL*						
M.REFADRLST	EXTERNAL*						
M.REFADRLST	EXTERNAL*						
M.REFSUS	EXTERNAL*						
M.REFGTY	EXTERNAL*						
M.REFRG	EXTERNAL*						
M.REFREF	EXTERNAL*						
M.REFPROCADR	EXTERNAL*						
M.REFVOPEN	EXTERNAL*						
	5/16 0	7/05	13/46	22/21	22/29	26/41	
	5/16 0	7/06	19/21	22/23	24/02	26/42	
	10/11	16/53	26/31				

CREATE / DELETE FILE BLOCKS SYMBOLIC REFERENCE TABLE.

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CREATE / DELETE FILE BLOCKS SYMBOLIC REFERENCE TABLE.

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08.08.22. 00/00/00 FSS SCOPE 3.0
08.08.22. CPU = 000 SEC : CM = 014000
08.08.22. •FILE•XTEXT
08.08.22. •FILE•50000
08.08.22. •CPU = 000 SEC : CM = 050000
08.08.22. •TEXT•OUTPUT
08.08.22. •GET•SYSSUBB•MACROS,,RO
08.08.22. •GET•MACROS•DISKSYS,,RO
08.08.22. •GET•SYMBOLS•DISKSYS,,RO
08.08.22. •GET•PARAMS•DISKSYS,,RO
08.08.22. •GET•DSKOPS•OPERS,,RO
08.08.22. •GET•OBBITS•DISKSYS,,RO
08.08.22. •GET•TYPES•DISKSYS,,RO
08.08.22. •GET•ERRORS•DISKSYS,,RO
08.08.22. •GET•DSKOPR•DISKSYS,,RO
08.08.22. •GET•SYSCALI•MACROS,,RO
08.08.22. •GET•CRERLK•DISKSYS
08.08.22. •ASSEMBLING CRERLK
08.08.22. •ASSEMBLING CRERLK
08.08.22. •ASSEMBLY COMPLETE.
08.08.22. •END
08.08.22. •FIN
08.08.22. CPU TIME: 033.196 SECONDS
08.08.22. SYS TIME: 007.212 SECONDS
08.08.22. SYSTEXT : 2295 LINES



08.10.66. 00/00/00 FSS SCOPE 3.0
08.10.67. CPU = 000 SEC : CM = 014000
08.10.68. FILE,UPDATE
08.10.69. PFL,20000
08.10.70. CPU = 000 SEC : CM = 020000
08.10.71. TEXT,OUTPUT
08.10.72. GET,BINARY,DISKSYS
08.10.73. REWIND,LGO
08.10.74. END
08.10.75. REWIND,BINARY
08.10.76. END
08.10.77. REWIND,TRIN
08.10.78. END
08.10.79. COPYL,BINARY,LGO,TRIN
08.10.80. CPERLK UPDATED
08.10.81. COPYL DONE
08.10.82. END
08.10.83. REWIND,TRIN
08.10.84. END
08.10.85. REWIND,BINARY
08.10.86. END
08.10.87. COPYF,TRIN,BINARY
08.10.88. END
08.10.89. REWIND,LGO
08.10.90. END
08.10.91. END
08.10.92. CPU TIME: 001.004 SECONDS
08.10.93. SYS TIME: 010.704 SECONDS
08.10.94. SYSTEXT: 028 LINES

END OF FILE



