

ADDRESS LENGTH BINARY CONTROL CARDS.

ADDRESS	LENGTH	IDENT	HELPERA
0	0	END	

ENTRY POINTS.

RWF	-	0	MYCODE	-	1	FILCL	-	7	WRITCAP	-	15
RW	-	0	MYSCRF	-	2	SCRCL	-	10	DSKLOCK	-	16
RO	-	1	MYEVCH	-	3	SLEEP	-	11	CTEMP	-	17
DENTRY	-	2	MYRESP	-	4	RESP	-	12	FILECAP	-	20
HENTRY	-	3	MAINCL	-	5	BEADC	-	13			
MYSUBP	-	0	OPERCL	-	6	READCAP	-	14			

EXTERNAL SYMBOLS.

RWL	TEMP0	TOTBUF	SW.SW	FRW	M.CLOSE	M.TWAIT	FR.WRIT
ROF	TEMP1	PROCADR	SW.DDS	MAKEMAP	M.TVRES	M.CLTIM	FR.SIZE
ROL	TEMP2	FRRADDR	PG.PG	LOADBUF	M.HELP	M.10SEC	FR.SHAP
COMMROF	TEMP3	FRRPACK	PG.DDS	AUDIT	M.SWAB	GF.LEN	FR.FUND
COMMROL	TEMP4	STKBUF	PG.DTY	NOQLOCK	M.ABFCH	GF.SUSF	FR.FLAG
COMMRWF	TEMP5	SETPCNT	PTR.PTR	PROBE	M.ABFIL	GF.SUSL	FR.ROOT
COMMRWL	TEMP6	DISKENT	PTR.DDS	RETCLK	M.ACREQ	GF.IOTF	FR.CLAM
HOLDBLK	TEMP7	DISKERR	PTR.CM	SYSERR	M.ACRES	GF.IOTL	FR.MEMB
LOCIAB	TEMP8	DISKINT	PTR.DTY	FRETURN	M.USRCC	GF.DDSF	FHRADDR
LOCTABF	TEMP9	FRWENT	PTR.NUM	RETURN	M.FRWCC	GF.DDSL	FILEADR
LOCTABL	TEMP10	FRWERR	CREATE	RETPAR	M.TRMCC	GF.DATF	LEFTFREE
LFT	TEMP11	FRWINT	CREBLK	FRRPARM	M.CLOCC	GF.DATL	LFHADDR
FLDLN	TEMPA	ENTER	DELBLK	ERRFILE	M.ACTCC	GF.APTF	DARADDR
USERRWF	TEMPB	CLKBUF	OPEN	FRRALOC	M.TRYCC	GF.APTL	PAGESW
USERRWL	TEMPC	DSYSTIM	ATTACH	ERRMAP	M.OFILT	GF.HSHF	MAPBUF
DATIAP	TEMPD	DSWPTIM	DETACH	CALBEAD	M.DOBJS	FHRHASH	SIZES
TERMRWL	TEMPE	DUSRTIM	CONVERT	REGS	NOBJS	DARHASH	SIZE
TERMRWF	TEMPF	SAVEREG	SETUP	D.ENTRY	M.BFILE	GF.HSHL	NUMRESP
TERMRWL	TEMPG	RESTREG	DECODE	D.FNAME	M.DDREQ	GF.TRVF	CREATER
CLOSRWF	TEMPH	GFILE	CRELFH	DBG1	M.DDRSP	FHB	CREBLKR
CLOSRWL	TEMPV	HFILE	OPENDAR	DBG2	M.RBUFS	FR.LEN	DELBLKR
CLOSROF	TEMPW	UDSKSCR	PRVOPEN	M.AUTH	M.WBUFS	FR.NAME	OPENR
READRWF	TEMPX	RFILE	MKPTR	M.MKCAP	M.SLOTS	FR.WD3	ATTACHR
READRWL	TEMPY	DDRSP	DSPTR	REDSHP	M.LOCKS	FR.SHAP	DETACHR
READONF	TEMPZ	RBUFS	CLOSE	GDSKHDR	NLOCKS	FR.FUND	ZROMAPR
READONL	MYIDENT	RETRY	ECLOSE	FDSKHDR	M.DDSCT	FHR	CHMAPR
ORGADDR	MYDAR	SLOTS	DARSPA	GDSKPTR	M.FHRL	FR.LEN	CHMAPB1
ORGFLST	MYUNIT	HBR	ZEROMAP	FDSKPTR	M.DARL	FR.NAME	SETUPR
ORGMAP	MYSWOC	HBW	CHMAP	GDSKDAT	M.HASHL	FR.WD1	CREATB1
INTDAT	DDSIPL	PBR	CLODAR	FDSKDAT	M.ADDS	FR.WD2	CLOSER
AP0	IOTIPL	PBW	HASH	GETDSK	M.ASUSP	FR.WD3	MOVBLKR
AP1	HASHIPL	DBR	DELHASH	FREEDSK	M.ADISK	FR.SUSP	CREPTRR
AP2	SUSPIPL	DBW	EXCLAIM	BUSYDSK	M.SDISK	FR.LOCK	DORESPR
AP3	DATIPL	GETRESP	SHCLAIM	L.MNCL	M.FDISK	FR.DAR	ERRNUM
AP4	APTIPL	TR.DRIV	LOCK	M.GFILE	M.FCLEV	FR.OPEN	ERRCLAS

DISK SYSTEM HELPER SUBPROCESS
STORAGE ALLOCATION.

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AP5	RETPARM	TR.LEVL	UNLOCK	M.HFILE	M.UNAME	FR.CAPX	TABADDR
AP6	RETERR	BLK.SIZ	UNLOCKW	M.FILCL	M.USCTR	FR.DRSZ	
AP7	PASSERR	BLK.DTY	RELCLAM	M.EMPTY	M.OPCL	FR.ONEL	
AP8	USRPACK	BLK.FLG	RELEASE	M.PETRY	M.IOCTR	FR.FROZ	

		IDENT EXT ENTRY	HELPERA RWL,ROF,ROL RWF
0	PARAMS	XTEXT	
0	MACROS	XTEXT	
0	* SYSSUBP	XTEXT	
0	*		
0	ORG		0
0	RWF BSS		0
			START OF LOCAL READ/WRITE AREA
	* SUBPROCESS HEADER		
0	000000000000000000001	TYPE	1
	*		
2	03035710051420052200	NAMES	CC.HELPER,ROOT,DO,HLINIT,CL.HELPER,SF.HELPER
	*		
7	000000000000000000004	INTEGERS	20,FLOLEN,ENTER,RWL
	*		
	* MAP DESCRIPTION		
	*		
	0 RW	EQU	1
	1 RO	EQU	1
	*		
15	23065710051420052200	MAP	SF.HELPER,RWF,RWF,RWL,RW
20	03015710051420052200	MAP	CF.HELPER,ROF,ROF,ROL,RO
	DENTRY	MAPBSS	1
	HENTRY	MAPBSS	1
23	77777777777777777777	MAPEND	
	*		
	* C-LIST DESCRIPTION		
	*		
24	03035710051420052200	MYSUBP	CC.HELPER
25	03065710051420052200	MYCQDF	CF.HELPER
26	23065710051420052200	MYSCRF	SF.HELPER
27		MYEVCH	1
30		MYRESP	1
	*		
31	03145715011116000000	MAINCL	CL.MAIN
32	03145717200522230000	OPERCL	CL.OPSERS
33	03145706111405230000	FILCL	CL.FILES
34	03145723032206111423	SCRCL	CL.SCRFILS
35	03145723140505200000	SLEEP	CL.SLEEP (MYEVCH)
36	03145722052320000000	RESP	CL.RESP (MYRESP)
37	02050104000000000000	BEADC	BEAD
40	11572205010400000000	READCAP	I.READ
41	11572722112405000000	WRITCAP	I.WRITE
42	02570423131403130000	DSKLCK	R.DSKLCK
43		CTEMP	1

```
44      FILECAP  CAPBSS  1
45      77777777777777777777
      *
      *
46      SYMBOLS  XTEXT
      *
      *
      0              END
```

40716

```
STORAGE USED
6600 ASSEMBLY
```

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1848 STATEMENTS
10.929 SECONDS
```

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424 SYMBOLS
109 REFERENCES
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DISK SYSTEM HELPER SUBPROCESS
SYMBOLIC REFERENCE TABLE.

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APTIPL	0	EXTERNAL*
AP0	0	EXTERNAL*
AP1	0	EXTERNAL*
AP2	0	EXTERNAL*
AP3	0	EXTERNAL*
AP4	0	EXTERNAL*
AP5	0	EXTERNAL*
AP6	0	EXTERNAL*
AP7	0	EXTERNAL*
AP8	0	EXTERNAL*
ATTACH	0	EXTERNAL*
ATTACHR	0	EXTERNAL*
AUDIT	0	EXTERNAL*
BEADC	13	
RFILE	0	EXTERNAL*
RLK.DTY	0	EXTERNAL*
RLK.FLG	0	EXTERNAL*
RLK.SIZ	0	EXTERNAL*
BUSYDSK	0	EXTERNAL*
CALBEAD	0	EXTERNAL*
CAPX	21	

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3/21 D	3/40	3/42 D	3/45	3/48	3/50 D	3/52	4/02
3/38	3/40 D	3/42	3/46	3/48 D	3/50	3/53	4/02 D
3/38 D	3/40	3/44	3/46 D	3/48	3/51	3/53 D	4/02
3/38	3/41	3/44 D	3/46	3/49	3/51 D	3/53	
3/39	3/41 D	3/44	3/47	3/49 D	3/51	4/01	
3/39 D	3/41	3/45	3/47 D	3/49	3/52	4/01 D	
3/39	3/42	3/45 D	3/47	3/50	3/52 D	4/01	

CHMAP	0	EXTERNAL*
CHMAPB1	0	EXTERNAL*
CHMAPR	0	EXTERNAL*
CLKBUF	0	EXTERNAL*
CLODAR	0	EXTERNAL*
CLOSE	0	EXTERNAL*
CLOSER	0	EXTERNAL*
CLOSROF	0	EXTERNAL*
CLOSROWF	0	EXTERNAL*
CLOSROWL	0	EXTERNAL*
COMMROF	0	EXTERNAL*
COMMROL	0	EXTERNAL*
COMMRWF	0	EXTERNAL*
COMMRWL	0	EXTERNAL*
CONVERT	0	EXTERNAL*
CREATB1	0	EXTERNAL*
CREATE	0	EXTERNAL*
CREATER	0	EXTERNAL*
CREBLK	0	EXTERNAL*
CREBLKR	0	EXTERNAL*
CRELFH	0	EXTERNAL*
CREPTRR	0	EXTERNAL*
CTEMP	17	
DARADDR	0	EXTERNAL*
DAPHASH	0	EXTERNAL*
DARSPA	0	EXTERNAL*

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SYMBOLIC REFERENCE TABLE.

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DAT IPL	0	EXTERNAL*	
DAT MAP	0	EXTERNAL*	
DBR	0	EXTERNAL*	
DEBUG1	0	EXTERNAL*	
DEBUG2	0	EXTERNAL*	
DRW	0	EXTERNAL*	
DDRSP	0	EXTERNAL*	
DDSIPL	0	EXTERNAL*	
DECODE	0	EXTERNAL*	
DELBLK	0	EXTERNAL*	
DELBLKR	0	EXTERNAL*	
DEHASH	0	EXTERNAL*	
DENTRY	2		3/30 D
DETACH	0	EXTERNAL*	
DETACHR	0	EXTERNAL*	
DISKENT	0	EXTERNAL*	
DISKERR	0	EXTERNAL*	
DISKINT	0	EXTERNAL*	
DORESpr	0	EXTERNAL*	
DSKLCK	16		3/53 D
DSPTR	0	EXTERNAL*	
DSWPTIM	0	EXTERNAL*	
DSYSTIM	0	EXTERNAL*	
DUSRTIM	0	EXTERNAL*	
D.ENTRY	0	EXTERNAL*	
D.FNAME	0	EXTERNAL*	
ECLOSE	0	EXTERNAL*	
ENTER	0	EXTERNAL*	3/21
ERRADDR	0	EXTERNAL*	
ERRALOC	0	EXTERNAL*	
ERRCLAS	0	EXTERNAL*	
ERRFILE	0	EXTERNAL*	
ERRMAP	0	EXTERNAL*	
ERRNUM	0	EXTERNAL*	
ERRPACK	0	EXTERNAL*	
ERRPARM	0	EXTERNAL*	
EXCLAIM	0	EXTERNAL*	
FB.FUND	0	EXTERNAL*	
FB.LEN	0	EXTERNAL*	
FB.NAME	0	EXTERNAL*	
FB.SHAP	0	EXTERNAL*	
FB.WD3	0	EXTERNAL*	
FDSKDAT	0	EXTERNAL*	
FDSKHDR	0	EXTERNAL*	
FDSKPTR	0	EXTERNAL*	
FHB	0	EXTERNAL*	
FHR	0	EXTERNAL*	
FHRADDR	0	EXTERNAL*	
FHRHASH	0	EXTERNAL*	
FILCL	7		3/46 D
FILEADR	0	EXTERNAL*	
FILECAP	20		4/02 D
FLDLEN	0	EXTERNAL*	3/21

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SYMBOLIC REFERENCE TABLE.

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FREEDSK	0	EXTERNAL*
FRETURN	0	EXTERNAL*
FRW	0	EXTERNAL*
FRWENT	0	EXTERNAL*
FRWERR	0	EXTERNAL*
FRWINT	0	EXTERNAL*
FR.CAPX	0	EXTERNAL*
FR.CLAM	0	EXTERNAL*
FR.DAR	0	EXTERNAL*
FR.DBSZ	0	EXTERNAL*
FR.FLAG	0	EXTERNAL*
FR.FROZ	0	EXTERNAL*
FR.FUND	0	EXTERNAL*
FR.LEN	0	EXTERNAL*
FR.LOCK	0	EXTERNAL*
FR.MEMB	0	EXTERNAL*
FR.NAME	0	EXTERNAL*
FR.ONEL	0	EXTERNAL*
FR.OPEN	0	EXTERNAL*
FR.ROOT	0	EXTERNAL*
FR.SHAP	0	EXTERNAL*
FR.SIZE	0	EXTERNAL*
FR.SUSP	0	EXTERNAL*
FR.WD1	0	EXTERNAL*
FR.WD2	0	EXTERNAL*
FR.WD3	0	EXTERNAL*
FR.WRIT	0	EXTERNAL*
GDSKDAT	0	EXTERNAL*
GDSKHDR	0	EXTERNAL*
GDSKPTR	0	EXTERNAL*
GETDSK	0	EXTERNAL*
GETRESP	0	EXTERNAL*
GFILE	0	EXTERNAL*
GF.APTF	0	EXTERNAL*
GF.APTL	0	EXTERNAL*
GF.DATF	0	EXTERNAL*
GF.DATL	0	EXTERNAL*
GF.DDSF	0	EXTERNAL*
GF.DDSL	0	EXTERNAL*
GF.HSHF	0	EXTERNAL*
GF.HSHL	0	EXTERNAL*
GF.IOTF	0	EXTERNAL*
GF.IOTL	0	EXTERNAL*
GF.LEN	0	EXTERNAL*
GF.SUSF	0	EXTERNAL*
GF.SUSL	0	EXTERNAL*
GF.TRVF	0	EXTERNAL*
HASH	0	EXTERNAL*
HASHIPL	0	EXTERNAL*
HBR	0	EXTERNAL*
HRW	0	EXTERNAL*
HENTFY	3	
HFILE	0	EXTERNAL*

HOLDBLK	0	EXTERNAL*																
INTDAT	0	EXTERNAL*																
IOTBUF	0	EXTERNAL*																
IOTIPL	0	EXTERNAL*																
LFHADDR	0	EXTERNAL*																
LFT	0	EXTERNAL*																
LFTFREE	0	EXTERNAL*																
LOADBUF	0	EXTERNAL*																
LOCK	0	EXTERNAL*																
LOCTAB	0	EXTERNAL*																
LOCTABF	0	EXTERNAL*																
LOCTABL	0	EXTERNAL*																
L.MNCL	0	EXTERNAL*																
L:CLIST	1		3/21		4/02	D												
L:LMAP	4		3/20		3/32	D												
MAINCL	5		3/44	D														
MAKEMAP	0	EXTERNAL*																
MAPBUF	0	EXTERNAL*																
MAPX	4		3/21	D	3/29		3/29		3/30		3/30		3/30		3/31	D	3/32	
			3/29		3/29	D	3/30		3/30	D	3/30	D	3/31		3/31			
MKPTR	0	EXTERNAL*																
MOVBLKR	0	EXTERNAL*																
MYCODEF	1		3/39	D														
MYDAR	0	EXTERNAL*																
MYEVCH	3		3/41	D														
MYIDENT	0	EXTERNAL*																
MYRESP	4		3/42	D														
MYSCEF	2		3/40	D														
MYSUBP	0		3/38	D														
MYSWOC	0	EXTERNAL*																
MYUNIT	0	EXTERNAL*																
M.ABFCH	0	EXTERNAL*																
M.ABFIL	0	EXTERNAL*																
M.ACKEQ	0	EXTERNAL*																
M.ACRES	0	EXTERNAL*																
M.ACTCC	0	EXTERNAL*																
M.ADDS	0	EXTERNAL*																
M.ADISK	0	EXTERNAL*																
M.ASUSP	0	EXTERNAL*																
M.AUTH	0	EXTERNAL*																
M.BFILE	0	EXTERNAL*																
M.CLOCC	0	EXTERNAL*																
M.CLOSE	0	EXTERNAL*																
M.CLTIM	0	EXTERNAL*																
M.DARL	0	EXTERNAL*																
M.DDREQ	0	EXTERNAL*																
M.DDRSP	0	EXTERNAL*																
M.DDSCT	0	EXTERNAL*																
M.DFILT	0	EXTERNAL*																
M.DOBJS	1	EXTERNAL*																
M.EMPTY	0	EXTERNAL*																
M.FCLEV	0	EXTERNAL*																
M.FDISK	0	EXTERNAL*																

DISK SYSTEM HELPER SUBPROCESS
SYMBOLIC REFERENCE TABLE.

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M.FHRL	0	EXTERNAL*
M.FILCL	0	EXTERNAL*
M.FRWCC	0	EXTERNAL*
M.GFILE	0	EXTERNAL*
M.HASHL	0	EXTERNAL*
M.HELP	0	EXTERNAL*
M.HFILE	0	EXTERNAL*
M.IOCTR	0	EXTERNAL*
M.LOCKS	0	EXTERNAL*
M.MKCAP	0	EXTERNAL*
M.OPCL	0	EXTERNAL*
M.RBUFS	0	EXTERNAL*
M.RETRY	0	EXTERNAL*
M.SDISK	0	EXTERNAL*
M.SLOTS	0	EXTERNAL*
M.SWAB	0	EXTERNAL*
M.TRMCC	0	EXTERNAL*
M.TRYCC	0	EXTERNAL*
M.TVRES	0	EXTERNAL*
M.TWAIT	0	EXTERNAL*
M.UNAME	0	EXTERNAL*
M.USCTR	0	EXTERNAL*
M.USRCC	0	EXTERNAL*
M.WBUFS	0	EXTERNAL*
M.10SEC	0	EXTERNAL*
NLOCKS	0	EXTERNAL*
NOBJS	0	EXTERNAL*
NOQLOCK	0	EXTERNAL*
NUMRESP	0	EXTERNAL*
OPEN	0	EXTERNAL*
OPENDAR	0	EXTERNAL*
OPENR	0	EXTERNAL*
OPERCL	0	EXTERNAL*
ORGADDR	0	EXTERNAL*
ORGCLST	0	EXTERNAL*
ORGMAP	0	EXTERNAL*
PAGESW	0	EXTERNAL*
PASSERR	0	EXTERNAL*
PBR	0	EXTERNAL*
PBW	0	EXTERNAL*
PG.DDS	0	EXTERNAL*
PG.DTY	0	EXTERNAL*
PG.PG	0	EXTERNAL*
PROBE	0	EXTERNAL*
PROCADR	0	EXTERNAL*
PRVOPEN	0	EXTERNAL*
PTR.CM	0	EXTERNAL*
PTR.DDS	0	EXTERNAL*
PTR.DTY	0	EXTERNAL*
PTR.NUM	0	EXTERNAL*
PTR.PTR	0	EXTERNAL*
RBUFS	0	EXTERNAL*
READCAP	14	EXTERNAL*

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PAGE 10

READONF	0	EXTERNAL*				
READONL	0	EXTERNAL*				
READRWF	0	EXTERNAL*				
READRWL	0	EXTERNAL*				
REDSHP	0	EXTERNAL*				
REGS	0	EXTERNAL*				
RELCLAM	0	EXTERNAL*				
RELEASE	0	EXTERNAL*				
RESP	12		3/49 D			
RESTREG	0	EXTERNAL*				
RETCCLK	0	EXTERNAL*				
RETERR	0	EXTERNAL*				
RETPAR	0	EXTERNAL*				
RETPARM	0	EXTERNAL*				
RETRY	0	EXTERNAL*				
RETURN	0	EXTERNAL*				
RO	1		3/26 D	3/30	3/30 D	
ROF	0	EXTERNAL*	3/30	3/30		
ROL	0	EXTERNAL*	3/30			
RW	0		3/25 D	3/29	3/29 D	
RWF	0		3/13 E	3/10 L	3/29	3/29
RWL	0	EXTERNAL*	3/21	3/29		
SAVEREG	0	EXTERNAL*				
SCRCL	10		3/47 D			
SETPCNT	0	EXTERNAL*				
SETUP	0	EXTERNAL*				
SETUPR	0	EXTERNAL*				
SHCLAIM	0	EXTERNAL*				
SIZE	0	EXTERNAL*				
SIZES	0	EXTERNAL*				
SLEEP	11		3/48 D			
SLOTS	0	EXTERNAL*				
STKRUF	0	EXTERNAL*				
SUSPIPL	0	EXTERNAL*				
SW.DDS	0	EXTERNAL*				
SW.SW	0	EXTERNAL*				
SYSERR	0	EXTERNAL*				
TABAUDR	0	EXTERNAL*				
TEMPA	0	EXTERNAL*				
TEMPB	0	EXTERNAL*				
TEMPC	0	EXTERNAL*				
TEMPO	0	EXTERNAL*				
TEMPE	0	EXTERNAL*				
TEMPF	0	EXTERNAL*				
TEMPO	0	EXTERNAL*				
TEMPH	0	EXTERNAL*				
TEMPV	0	EXTERNAL*				
TEMPW	0	EXTERNAL*				
TEMPX	0	EXTERNAL*				
TEMPY	0	EXTERNAL*				
TEMPZ	0	EXTERNAL*				
TEMPO	0	EXTERNAL*				
TEMP1	0	EXTERNAL*				

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SYMBOLIC REFERENCE TABLE.

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TEMP10	0	EXTERNAL*
TEMP11	0	EXTERNAL*
TEMP2	0	EXTERNAL*
TEMP3	0	EXTERNAL*
TEMP4	0	EXTERNAL*
TEMP5	0	EXTERNAL*
TEMP6	0	EXTERNAL*
TEMP7	0	EXTERNAL*
TEMP8	0	EXTERNAL*
TEMP9	0	EXTERNAL*
TERMROF	0	EXTERNAL*
TERMRWF	0	EXTERNAL*
TERMRWL	0	EXTERNAL*
TR.DRIV	0	EXTERNAL*
TR.LEVL	0	EXTERNAL*
UDSKSCR	0	EXTERNAL*
UNLOCK	0	EXTERNAL*
UNLOCKW	0	EXTERNAL*
USERRWF	0	EXTERNAL*
USERRWL	0	EXTERNAL*
USRPACK	0	EXTERNAL*
WRITCAP	15	
ZEROMAP	0	EXTERNAL*
ZROMAPR	0	EXTERNAL*

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END OF FILE