STORAGE ALLOCATION.

ADDRESS	LENGTH	BINARY CONTROL CARDS.
0	134	IDENT CONSTR
134		END

ENTRY POINTS.

CRFLFH - 0 DSPTR - 26

EXTERNAL SYMBOLS.

OPERCL	LFMADDR	LFTFREE	WRITCAP	SYSERR	M.ADDS	FR.DDS	EC:DSCP
IPLIST	FILECAP	PAGESW	MAINCL	DDSIPL	GF.DDSF	EC:SEV	
FMRADDR	LFT	READCAP	TEMPA	FR.FLAG	GF.DDSL	EC:GEVH	

IDENT CONSTR

*
*

```
                                *
      0                         PARAMS    XTEXT
      0                         MACROS    XTEXT
      0                         SYSCALL   XTEXT
                                *
                                          EXT       QPERCL.IPLIST
                                          MACSET    QPERCL.IPLIST.ECS
                                *
                                *
                                          EXT       FHRADDR.LFHADDR.FILECAP.LFT.LFTFREE
                                          EXT       PAGESW.READCAP.WRITCAP.MAINCL.TEMPA
                                          EXT       SYSERR.DDSIPL.FR.FLAG.M.ADDS.GF.DDSF.GF.DDSL
                                          EXT       FR.DDS
                                *PAGE               CRELFH...CRELFH..CRFLFH
                                *
                                *
                                *                   CONSTRUCT LOCAL FILE TABLE HEADER
                                *
                                *
                                *                   NOTES:    A) FIRST FIND FREE SPACE IN LFT
                                *                             B) *CRELFH* FAILS (SYSERR) IF LFT
                                *                                IS FULL
                                *                             C) IF FILE IS FROZEN GLOBALLY THEN SET
                                *                                LOCAL FROZEN FLAG
                                *
                                *                   ON ENTRY: *FHRADDR* = ADDRESS IN DDS OF FILE HEADER
                                *                                         RECORD
                                *                             *FILECAP* = CAPABILITY FOR ECS FILE
                                *                             *FHR* = FILE HEADER RECORD COPY
                                *                             B6 = RETURN LINK
                                *
                                *
                                *                   ON EXIT:  LFH COMPLETED
                                *                             *LFHADDR* = ADDR OF NEW LFT ENTRY
                                *
                                *
                                *                   REGISTERS USED: A3/X3, A4/X4, A5/X5, A6/X6, A7/X7
                                *
                                *
                                *
                                *
                                          ENTRY     CRELFH
                                *
      0  5150000000 X                    CRELFH    SA5       LFT                 SEARCH FOR FREE LFT ENTRY
                   0335000003 +                   NG        X5,CRELFH2          JP IF FOUND FREE SPACE
      1  5055000002                       CRFLFH1   SA5       A5+2
                   0335000003 +                   NG        X5,CRELFH2
      2  0315000001 +                             NZ        X5,CRELFH1          LOOP TO END OF TABLE
                                *
                   0100000000 X                   RJ        SYSERR              COULDN*T FIND LFT SPACE
                                *
                                *
```

CONSTRUCT LOCAL FILE HEADER

```
      3  74650                    CRFLFH2   SX6     A5                STORE LFT ADDR
                5160000000 X                SA6     LFHADDR
                                  *
      4  7160000000 X                       DISPCAP FILECAP   DISPLAY FCS FILE CAPABILITY
                                  *
     11  73370                               SX3     X7
               13773                          BX7     X7=X3             FCS FILE UNIQUE NAME
                     5140000000 X             SA4     FHRADDR           X4=DDS ADDR OF FILE HEADER REC
     12  12774                               BX7     X7+X4
               43601                          MX6     1
                     5130000000 X             SA3     FR.FLAG
     13  54750                               SA7     A5                STORE 1ST WD OF LFT ENTRY
               21304                          LX3     FR.FRZF
                     11763                    BX7     X6*X3             FROZEN FLAG
                          20623               LX6     1+18              LOCAL OPEN = 1
     14  12767                               BX7     X6+X7
               5077000001                     SA7     A7+1
                                  *
     15  5130000000 X                        SA3     FR.FLAG           ON ONE LEVEL FILE WE MUST
                     0333000017 +             NG      X3,CRELFH3        MAKE AN ABR
                                  *
     16  0260000000                          JP      B6                OTHERWISE EXIT
                                  *
                                  *
                                  *          MAKE ABR FOR NEW ONE LEVEL FILE
                                  *
     17  5140000000 X             CRELFH3    SA4     LFTFREE
                     0304000025 +             ZR      X4,CRELFH4        * CONSISTANCY
     20  5150000000 X                        SA5     LFHADDR
                     5255000001               SA5     X5+1
     21  12645                               BX6     X4+X5             ADD ABR PTR TO LFH
               54652                          SA6     A5
                                  *
                     43601                    MX6     1
                          20645               LX6     1+36              DEG ATTACH = 1
     22  53340                               SA3     X4
               10733                          BX7     X3
                     54740                    SA7     A4                NEW LFT FREE LINK
                          53640               SA6     X4
     23  13666                               BX6     X5-X5
               5066000001                     SA6     A6+1
                                  *
     24  0260000000                          JP      B6                EXIT
                                  *
                                  *
     25  0100000000 X             CRELFH4    RJ      SYSERR            NO ABR SPACE AVAILABLE
                                  *
                                  *
                                  *          END CRELFH...END CRELFH...END CRELFH
```

```
                                *
                                * DESTROY A POINTER BLOCK IN DDS
                                *
                                *       ON ENTRY...X5 = DDS ADDRESS OF PAGE SWITCH
                                *                  B6 = RETURN LINK
                                *
                                *       ON EXIT....PAGE SWITCH AND POINTERS ARE ON DDS FREE CHAIN
                                *
                                *       USES...X2 THRU X7,PAGESW,TEMPA
                                *
                                *       NOTE.. UPDATES COUNT OF AVAILABLE DDS RECORDS
                                *
                                        ENTRY   DSPTR
                                *
 26  7160000000 X               DSPTR   READDS  X5,PAGESW,B     READ IN PAGE SWITCH
 40  5130000000 X                       SA3     PAGESW
                73430                   SX4     X3
                    10644               BX6     X4
 41  5160000000 X                       SA6     PAGESW          CLEAR TOP OF LINK WORD IN PG SW
                7160000000 X            WRDDS   *,*,1           UPDATE IN DDS
 46  10255                               BX2     X5              SAVE PAGE SWITCH ADDR
         21222                          LX2     18
                43673                   MX6     59              USE X2 TO COUNT RECORDS
                    37226               IX2     X2-X6           RELEASED
 47  0200000077 +                       JP      DSPTR2          JUMP INTO LOOP
                                *
 50  10655                      DSPTR1   BX6     X5
            5160000000 X                SA6     TEMPA
 51  7160000000 X                       WRDDS   X4,TEMPA,1      UPDATE EVEN PAGE
 63  43673                               MX6     59
         37226                          IX2     X2-X6           INCR RECORD COUNT
             5033000001                 SA3     A3+1            NEXT WORD IN PAGE SWITCH
 64  73430                              SX4     X3              EVEN PAGE ADDR
         0304000101 +                   ZR      X4,DSPTR3       NO MORE PAGES
                    10644               BX6     X4
 65  5160000000 X                       SA6     TEMPA           STORE LINK TO EVEN PAGE
                7160000000 X            WRDDS   X5,*,*          UPDATE ODD PAGE
 76  43673                              MX6     59
         37225                          IX2     X2-X6           INCR RECORD COUNT
 77  20336                      DSPTR2  LX3     30              POSITION ODD PAGE ADDR
         73530                          SX5     X3
             0315000050 +               NZ      X5,DSPTR1
100  73540                              SX5     X4              NO MORE PAGES
                                *
101  5150000000 X               DSPTR3  SA5     FR,DDS          INCREASE RESERVED AVAIL IN FHP
                20555                   LX5     60-15
                    73620               SX6     X2              NUM RECORDS FREED
102  36656                              IX6     X5+X6
         20617                          LX6     15
             54650                      SA6     A5
                                *
                    21222               AX2     18              RESTORE PAGE SW ADDR
                                *
```

```
103  7160000000 X                    GETEVH   (MAINCL.M.ADDS)
111  5170000000 X                    SA7      TEMPA              OLD HEAD OF CHAIN
                7160000000 X         WRDDS    X5,TEMPA,1         CONNECT TO LAST PTR PAGE
124  7160000000 X                    SENDEV   **,X2              PAGE SWITCH IS NEW HEAD OF CHAIN
133  0260000000                      JP       B6                 RETURN
                              *
                              *
134                                  END

                    43636  STORAGE USED          450 STATEMENTS      126 SYMBOLS      000009 INVENTER SYMBOLS
                           6600 ASSEMBLY       8.032 SECONDS         108 REFERENCES
```

SYMBOLIC REFERENCE TABLE.

CRELFH	0	PROGRAM*	3/43 E	3/45 L						
CRELFH1	1	PROGRAM*	3/47 L	3/49						
CRELFH2	3	PROGRAM*	3/46	3/48	4/01 L					
CRELFH3	17	PROGRAM*	4/20	4/27 L						
CRELFH4	25	PROGRAM*	4/28	4/46 L						
DDSIPL	0	EXTERNAL*	5/16 S	5/16 S	5/21 S	5/30 S	5/30	5/38	6/04 S	
			5/16 S	5/16	5/21	5/30 S	5/38 S	6/04 S	6/04 S	
			5/16 S	5/21 S	5/30 S	5/30 S	5/38 S	6/04 S	6/04	
DSPTR	26	PROGRAM*	5/13 E	5/15 L						
DSPTR1	50	PROGRAM*	5/27 L	5/42						
DSPTR2	77	PROGRAM*	5/25	5/40 L						
DSPTR3	101	PROGRAM*	5/34	5/45 L						
EC:DSCP	0	EXTERNAL*	4/05							
EC:GEVM	0	EXTERNAL*	6/02							
EC:SEV	0	EXTERNAL*	6/05							
FHRADDR	0	EXTERNAL*	4/08							
FILECAP	0	EXTERNAL*	4/05							
FR.DDS	0	EXTERNAL*	5/45							
FR.FLAG	0	EXTERNAL*	4/11	4/19						
FR.FRZF	4		4/13							
GF.DDSF	0	EXTERNAL*	5/16	5/30	5/38	6/04				
GF.DDSL	0	EXTERNAL*	5/16	5/30	5/38	6/04				
IPLIST	0	EXTERNAL*	3/07							
IP:LIST	0	EXTERNAL*	3/07 D	4/05 S	6/02 S	6/05 S	6/05			
			4/05 S	4/05	6/02 S	6/05 S	6/05			
LFHADDR	0	EXTERNAL*	4/12 S	4/29						
LFT	0	EXTERNAL*	3/45							
LFTFREE	0	EXTERNAL*	4/27							
MAINCL	0	EXTERNAL*	6/02							
M.ADDS	2	EXTERNAL*	6/02							
OPERCL	0	EXTERNAL*	3/07							
OP:::CL	0	EXTERNAL*	3/07 D	4/04	6/01	6/04				
PAGESW	0	EXTERNAL*	5/16	5/16	5/19 S					
READCAP	0	EXTERNAL*	5/15							
SYSERR	0	EXTERNAL*	3/51	5/16	5/16	5/30	5/30	5/38	6/04	6/04
			4/46	5/16	5/21	5/30	5/38	5/38	6/04	6/05
TEMPA	0	EXTERNAL*	5/28 S	5/30	5/36 S	6/02 S	6/04			
WRITCAP	0	EXTERNAL*	5/20	5/29	5/37	6/03				