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# NASA Contractor Report 159064

MAIL LOG - PROGRAM THEORY  
VOLUME II

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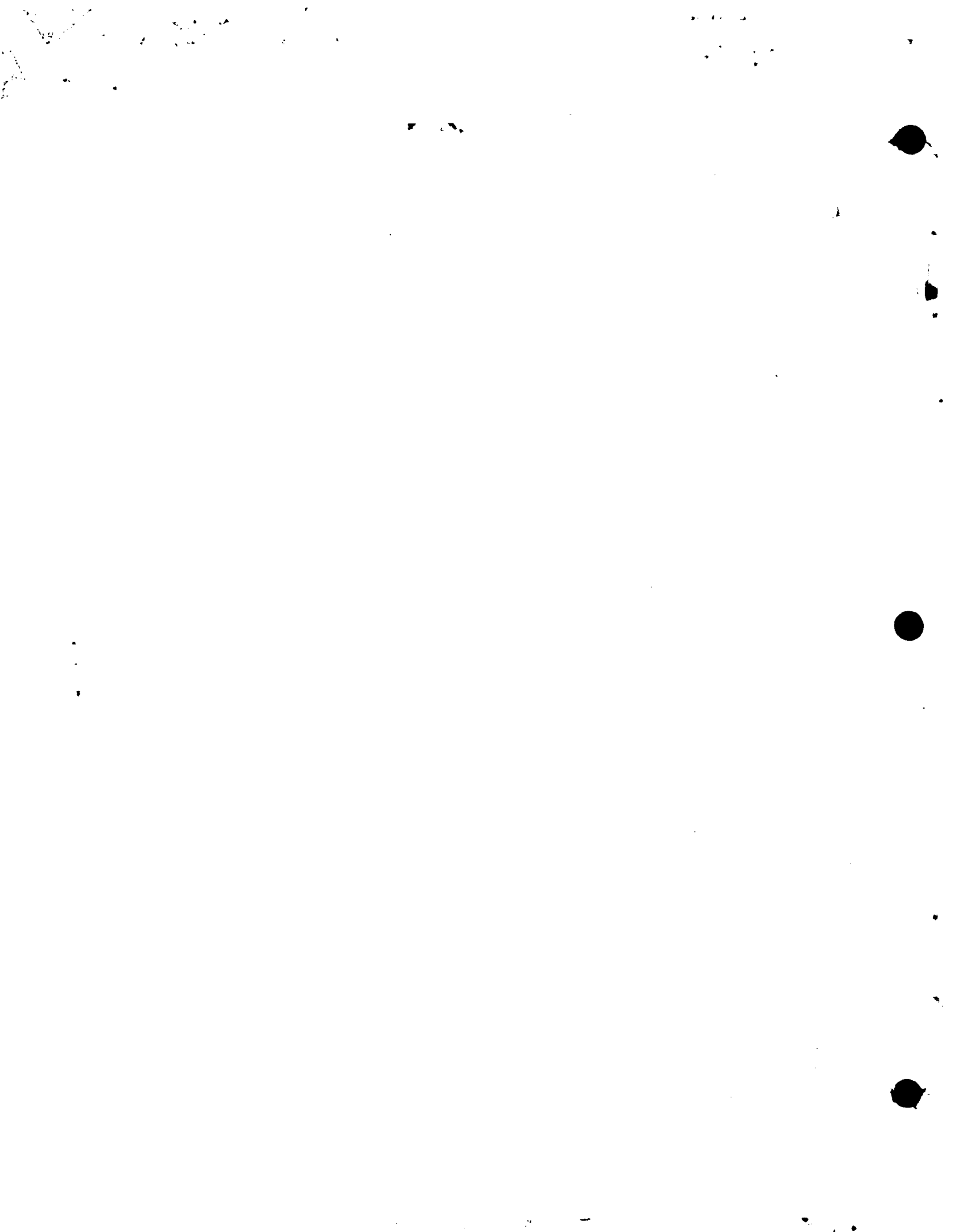


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M A I L L O G

PROGRAM THEORY

VOL. II

NASA CONTRACTOR REPORT

DANNY K. HARRIS

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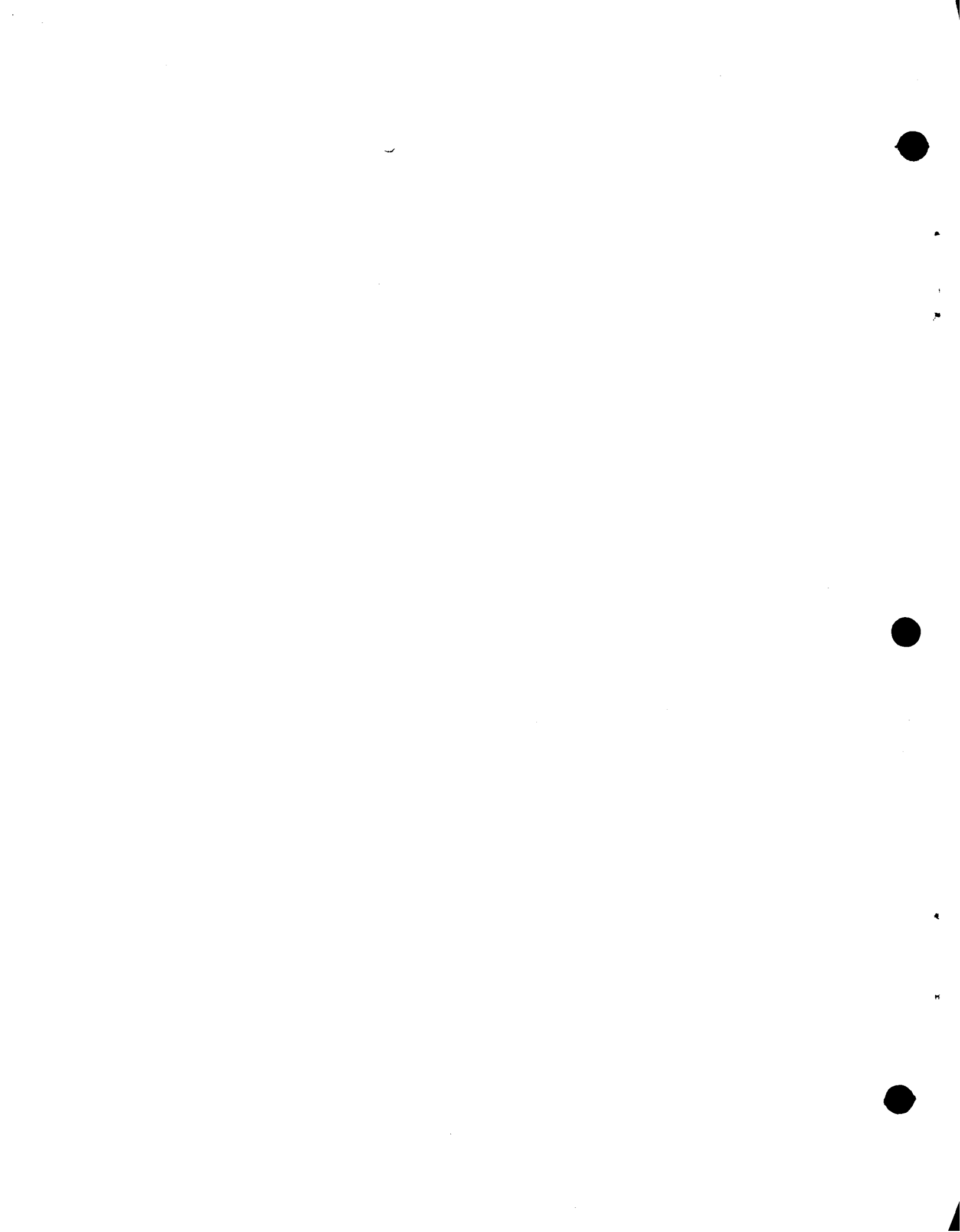


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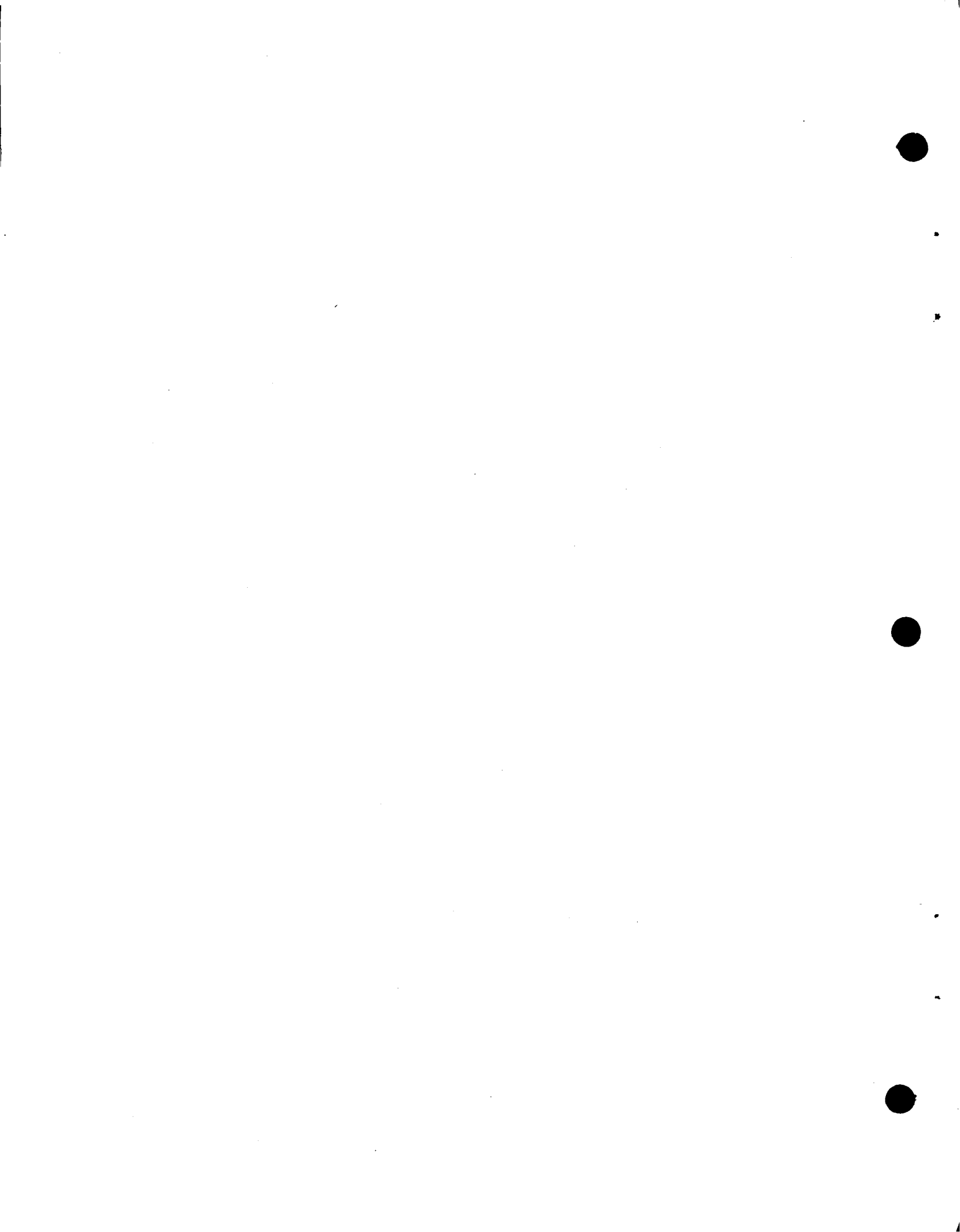


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APPENDIX A

GLOSSARY OF TERMS

ARCHIVE (1) To transfer from disk to magnetic tape.  
(2) To save or put away data where direct access is no longer needed.

DATA BASE A collection or set of data files; records.

DATA ITEM A subdivision of a data record; for example, author and contract number are data items or fields of a memo record.

DIR Design Information Release

EGS Electrical ground support equipment

ELEC Electrical

E.O. Engineering Order

FIELDS See Data Item

FILE Storage area on disk to place and keep a collection of data records for later access.

FORTRAN Special language used to give instructions to the computer.

FUNIT PRIMOS file unit number

GSE Ground support equipment

GUID Guidance

HOUSEKEEPING	Process by which the computer performs program instructions in order to permit smooth operation - for example, opening, closing, and deleting files.
H/S	Heatshield
ID	Identification
INPUT	To place data into a file.
LOGIN	User process of being identified to the computer for further operation.
MECH	Mechanical
MESSAGE	A special note displayed on the terminal to the user by the computer program.
MFD	Master File Directory
MGS	Mechanical ground support equipment
MODE	A type of task for a specific job.
OUTPUT	To show or display data.
PERF	Performance.
PRINTOUT	A special listing of data provided to the user by the computer for later reference or use.
PROP	Propulsion

PUNIT Fortran file unit number

RECORD A subdivision of a file consisting of a set of data items from a document.

REVISE To change or modify data.

RF Radio frequency for telemetry system

SEARCH To find or locate a specific set of data; records.

SOFTWARE A group or set of fixed computer instructions designed to perform special tasks.

SOP Standard operating procedure

SPADS Scout Project Automatic Data System

SPO Scout Project Office

SPOOLED Process by which the computer transfers a special output file to the printer for a printout.

SUBFILE A part or subdivision of a file.

TERMINAL A device with typewriter keys used to communicate with the computer.

UFD User File Directory

USER Any person initiating interaction with the computer.

W.A. Work authorization

APPENDIX B

L\_FILE FOR MAIL CORRESPONDENCE

---





(0001) C  
(0002) C MAIL LOG FILE  
(0003) C WRITTEN FOR NASA/LRC/SPO BY D.K.HARRIS  
(0004) C HAMPTON SCOUT OFFICE  
(0005) C VOUGHT CORP.  
(0006) C  
(0007) C COMMON /CDAT/CD  
(0008) C FILES FOR READING AND WRITING  
(0009) C  
(0010) C FILE FUNIT PUNIT DESCRIPTION  
(0011) C TTY 1 1 USERS TERMINAL  
(0012) C TRAN 6 2 DATA SUBFILE FOR TRANSMITTAL AND SPECIFICATION  
(0013) C OUT 7 3 TEMPORARY OUTPUT FILE  
(0014) C REVS 8 4 TEMPORARY REVISION DATA FILE  
(0015) C INACTL 9 5 INACTIVE FILE FOR ARCHIVE RUN OF TRAN SUBFILE  
(0016) C INACTS 9 5 INACTIVE FILE FOR ARCHIVE RUN  
(0017) C ACTD 9 5 ACTION DUE FILE  
(0018) C DATE 10 6 TLMPORARY DATE FILE  
(0019) C MEMO 11 7 DATA SUBFILE FOR MEMOS AND LETTERS  
(0020) C TWFX 12 8 DATA SUBFILE FOR TWXS,MAGNAFAX,& RAPIFAX  
(0021) C ANN 13 9 DATA SUBFILE FOR ANNOUNCEMENTS  
(0022) C PR 14 10 DATA SUBFILE FOR PURCHASE REQUESTS  
(0023) C MIS 15 11 DATA SUBFILE FOR MISCELLANEOUS AND REPORTS  
(0024) C  
(0025) C NOTE ONLY FILES TTY,REVS, AND DATE (FUNITS 1,8,10) ARE OPENED HERE  
(0026) C  
(0027) C DOUBLE PRECISION CD  
(0028) C INTEGER\*2 DEFA,IPAS(3),IC  
(0029) C  
(0030) C  
(0031) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
(0031) C NOLIST  
(0032) C CALL BREAKS(.FALSE.)  
(0033) C CALL CLEAR  
(0034) C CALL COMISS(\*TTY\*,3,12,IC)  
(0035) C WRITE(1,100)  
(0036) 100 FORMAT(\* WELCOME TO SPADS\*//////,  
(0037) 1\* MAIL LOG FILE \*./)

```

(0038) 200 WRITE(1,250)
(0039) 250 FORMAT(2X,' /,' DO YOU WISH TO WORK WITH THE DIR/REPORT DATA ',
(0040) 1 '--- ENTER DIR',/,26X,'OR DRAWING DATA',5X,'--- ENTER DRAW',/,26X
(0041) 1 ',OR DAILY CORRESPONDENCE --- COR',/,26X,'OR QUIT',
(0042) 118X,'--- DU')
(0043) READ(1,11)IOPT
(0044) IF(IOPT.EQ.'QU') GOTO 1200
(0045) IF(IOPT.EQ.'CO') GOTO 800
(0046) IPAS(1)=' '
(0047) IPAS(2)=' '
(0048) IPAS(3)=' '
(0049) IF(IOPT.EQ.'DR') GOTO 700
(0050) IF(IOPT.NE.'DI') GOTO 200
(0051) CALL ATCH$$('F_DIR',5,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
(0052) CALL RESU$$('*DIR',4)
(0053) CALL EXIT
(0054) 700 CALL ATCH$$('F_DRAW',6,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
(0055) CALL RESU$$('*DRAW',5)
(0056) CALL EXIT
(0057) 800 CONTINUE
(0058) CALL SPCH$$('K$RDWR+K$NDAM,'REVS '*,6,4,1,IC)
(0059) IF(IC.NE.0) GOTO 1000
(0060) CALL SRCH$$('K$RDWR+K$NDAM,'DATE '*,6,6,1,IC)
(0061) IF(IC.NE.0) GOTO 1000
(0062) C
(0063) C 1000 IS THE ERROR HANDLER
(0064) C
(0065) C IF THE PROGRAM REACHES THIS FAR THE FILES ARE OPEN AND USABLE
(0066) C
(0067) 889 CALL CLEAR
(0068) CALL IDENT
(0069) 10 WRITE(1,2)
(0070) 2 FORMAT(' PLEASE CHOSE ONE OF THE FOLLOWING ',/,
(0071) 1' MODE KEY',/,
(0072) 1' INPUT INP',/,
(0073) 1' REVISE RFV',/,
(0074) 1' SEARCH SEA',/,
(0075) 1' ARCHIVE ARC',/

```

R-4

(0076) 1\* QUIT QUIT\*,//)  
(0077) REWIND 8  
(0078) REWIND 10  
(0079) READ(1,11)IOPT  
(0080) 11 FORMAT(1A2)  
(0081) IF(IOPT.EQ.\*IN\*) CALL INPTC  
(0082) IF(IOPT.EQ.\*RE\*) CALL REVSC  
(0083) IF(IOPT.EQ.\*SE\*) CALL SEAC  
(0084) IF(IOPT.EQ.\*AR\*) CALL ARCC  
(0085) IF(IOPT.EQ.\*GU\*) GO TO 1100  
(0086) GO TO 10  
(0087) 1000 WRITE(1,1001)  
(0088) 1001 FORMAT(\* SORRY - THE MAIL LOG FILE IS CURRENTLY IN USE\*,//)  
(0089) 1\* PLEASE TRY AGAIN LATER\*,//)  
(0090) 1100 CALL SRCH\$\$ (K\$CLOS,\*REVS \*,6,0,0,0)  
(0091) CALL SRCH\$\$ (K\$CLOS,\*DATE \*,6,0,0,0)  
(0092) GO TO 200  
(0093) 1200 CALL EXIT  
(0094) END

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14

ARCC	R	EXTERNAL	000000	0084																		
ATCHSS	R	EXTERNAL	000000	0051	0054																	
BREAKS	R	EXTERNAL	000000	0032																		
CD	D	/CDAT/	000000	0007S	0027S																	
CLEAR	R	EXTERNAL	000000	0033	0067																	
COMISS	R	EXTERNAL	000000	0034																		
DRFA	I		000000	0028S																		
EXIT	R	EXTERNAL	000000	0053	0056	0093																
IC	I		000674	0028S	0034A	0051A	0054A	0058A	0059	0060A												
				0061																		
IDENT	I	EXTERNAL	000000	0068																		
INPTC	I	EXTERNAL	000000	0081																		
IOPT	I		000675	0043M	0044	0045	0049	0050	0079M	0081												
				0082	0083	0084	0085															
IPAS	I		000002	0028S	0046M	0047M	0048M	0051A	0054A													
K\$ALLO	I	PARAMETER		0031S	0051	0054																
K\$CACC	I	PARAMETER		0031S																		
K\$CLOS	I	PARAMETER		0031S	0090	0091																
K\$CONV	I	PARAMETER		0031S																		
K\$CURR	I	PARAMETER		0031S																		
K\$DELE	I	PARAMETER		0031S																		
K\$DMPB	I	PARAMETER		0031S																		
K\$DTIM	I	PARAMETER		0031S																		
K\$ENTR	I		000000	0031S																		
K\$EXST	I	PARAMETER		0031S																		
K\$GOND	I	PARAMETER		0031S																		
K\$GPOS	I	PARAMETER		0031S																		
K\$HOME	I	PARAMETER		0031S																		
K\$ICUR	I	PARAMETER		0031S																		
K\$IMFD	I	PARAMETER		0031S	0051	0054																
K\$IRTN	I	PARAMETER		0031S																		
K\$ISEG	I	PARAMETER		0031S																		
K\$IUFD	I	PARAMETER		0031S																		
K\$MENT	I		000000	0031S																		
K\$NSIZ	I	PARAMETER		0031S																		
K\$MVNT	I	PARAMETER		0031S																		
K\$NDAM	I	PARAMETER		0031S	0058	0060																
K\$NRTN	I	PARAMETER		0031S																		

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15

K\$NSAM	I	PARAMETER	0031S				
K\$NSGD	I	PARAMETER	0031S				
K\$NSGS	I	PARAMETER	0031S				
K\$POSA	I	PARAMETER	0031S				
K\$POSN	I	PARAMETER	0031S				
K\$POSR	I	PARAMETER	0031S				
K\$PREA	I	PARAMETER	0031S				
K\$PRER	I	PARAMETER	0031S				
K\$PROT	I	PARAMETER	0031S				
K\$RDWR	I	PARAMETER	0031S	0058	0060		
K\$READ	I	PARAMETER	0031S				
K\$RPOS	I	PARAMETER	0031S				
K\$RSUB	I	PARAMETER	0031S				
K\$RWLK	I	PARAMETER	0031S				
K\$SENT	I	000000	0031S				
K\$SETC	I	PARAMETER	0031S				
K\$SETH	I	PARAMETER	0031S	0051	0054		
K\$SPOS	I	PARAMETER	0031S				
K\$SRTN	I	PARAMETER	0031S				
K\$TRNC	I	PARAMETER	0031S				
K\$UFOS	I	PARAMETER	0031S				
K\$WRIT	I	PARAMETER	0031S				
RESU\$\$	R	EXTERNAL 000000	0052	0055			
REVSC	R	EXTERNAL 000000	0082				
SEAC	R	EXTERNAL 000000	0083				
SRCH\$\$	R	EXTERNAL 000000	0058	0060	0090	0091	
_10		000342	0069D	0086			
_100		000023	0035	00360			
_1000		000574	0059	0061	0087D		
_1001		000600	0087	00880			
_11		000537	0043	0079	0080D		
_1100		000652	0085	00900			
_1200		000673	0044	00930			
_2		000346	0069	00700			
_200		000054	0038D	0050	0092		
_250		000660	0038	00390			
_700		000274	0049	00540			

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110

C

800            000311   0045   0057D  
889            000340   0067D

0000 ERRORS [<.MAIN.>FTN-REV14.2]

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7

```

(0095) SUBROUTINE IDENT
(0096) C
(0097) C THIS ROUTINE KEEPS TRACK OF WHO ACCESSED THE CALLING
(0098) C PROGRAM LAST
(0099) C
(0100) INTEGER*2 ARRAY(15)
(0101) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0101) NOLIST
(0102) CALL BREAKS(.TRUE.)
(0103) CALL TIMDAT(ARRAY,15)
(0104) C
(0105) C OPEN TEMP FILE (FUNIT 16)
(0106) C
(0107) CALL SRCH$$ (K$NDAM+K$RDWR,'USER',5,16,1,IC)
(0108) C
(0109) C OPEN USER FILE (FUNIT 15)
(0110) C
(0111) CALL SRCH$$ (K$NDAM+K$RDWR,'USER',4,15,1,IC)
(0112) C
(0113) C NOW WRITE USERS LOGIN ID, DATE (MMDDY), TIME, AND USER NUMBER
(0114) C
(0115) AMIN=ARRAY(4)
(0116) AH=AMIN/60.0
(0117) IH=AH
(0118) IMM=IH*60
(0119) IMIN=AMIN
(0120) IDM=IMIN-IMM
(0121) 25 WRITE(20,1) (ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(0122) 1 (ARRAY(I),I=1,3),ARRAY(12)
(0123) 1 FORMAT(3A2,2(I3,'*'),I3,1X,2(A2,'/'),A2,I3)
(0124) 2 FORMAT(3A2,2(I3,1X),I3,1X,2(A2,1X),A2,I3)
(0125) C
(0126) C NOW COPY THE CONTENTS OF USFR TO TUSER
(0127) C
(0128) READ(19,2,END=50) (ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(0129) 1 (ARRAY(I),I=1,3),ARRAY(12)
(0130) GO TO 25
(0131) 50 CALL SRCH$$ (K$CLOS,'USFR',4,0,0,0)

```

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15

(0132) CALL SRCH\$\$ (K\$CLOS, \*TUSER\*, 5, 0, 0, 0)  
(0133) CALL SRCH\$\$ (K\$DELE, \*USER\*, 4, 0, 0, 0)  
(0134) CALL CNAM\$\$ (\*TUSER\*, 5, \*USER\*, 4, IC)  
(0135) CALL BREAK\$ (.FALSE.)  
(0136) RETURN  
(0137) END

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19



AH	R	000347	0116M	0117			
AMIN	R	000351	0115M	0116	0119		
ARRAY	I	000002	0100S	0103A	0115	0121	0128M
BREAKS	R EXTERNAL	000000	0102	0135			
CNAMSS	R EXTERNAL	000000	0134				
I	I	000353	0121M	0128M			
IC	I	000354	0107A	0111A	0134A		
IDENT	I	000000	0095S				
IDM	I	000355	0120M	0121	0128M		
IH	I	000356	0117M	0118	0121	0128M	
IMIN	I	000357	0119M	0120			
IMM	I	000360	0118M	0120			
K\$ALLD	I PARAMETER		0101S				
K\$CACC	I PARAMETER		0101S				
K\$CLOS	I PARAMETER		0101S	0131	0132		
K\$CONV	I PARAMETER		0101S				
K\$CURR	I PARAMETER		0101S				
K\$DELE	I PARAMETER		0101S	0133			
K\$DMPB	I PARAMETER		0101S				
K\$DTIM	I PARAMETER		0101S				
K\$ENTR	I	000000	0101S				
K\$EXST	I PARAMETER		0101S				
K\$GOND	I PARAMETER		0101S				
K\$OPCS	I PARAMETER		0101S				
K\$HOME	I PARAMETER		0101S				
K\$ICUR	I PARAMETER		0101S				
K\$IMFD	I PARAMETER		0101S				
K\$IRTN	I PARAMETER		0101S				
K\$ISEG	I PARAMETER		0101S				
K\$IUFD	I PARAMETER		0101S				
K\$MENT	I	000000	0101S				
K\$MSIZ	I PARAMETER		0101S				
K\$MVNT	I PARAMETER		0101S				
K\$NDAM	I PARAMETER		0101S	0107	0111		
K\$NRTN	I PARAMETER		0101S				
K\$NSAM	I PARAMETER		0101S				
K\$NSGD	I PARAMETER		0101S				
K\$NSGS	I PARAMETER		0101S				

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K\$PCSA	I	PARAMETER		0101S				
K\$PO\$N	I	PARAMETER		0101S				
K\$PO\$R	I	PARAMETER		0101S				
K\$PREA	I	PARAMETER		0101S				
K\$PRER	I	PARAMETER		0101S				
K\$PROT	I	PARAMETER		0101S				
K\$RDWR	I	PARAMETER		0101S	0107	0111		
K\$READ	I	PARAMETER		0101S				
K\$RPOS	I	PARAMETER		0101S				
K\$RSUB	I	PARAMETER		0101S				
K\$RWLK	I	PARAMETER		0101S				
K\$SENT	I		000000	0101S				
K\$SETC	I	PARAMETER		0101S				
K\$SETH	I	PARAMETER		0101S				
K\$SPOS	I	PARAMETER		0101S				
K\$SRTN	I	PARAMETER		0101S				
K\$TRNG	I	PARAMETER		0101S				
K\$UPOS	I	PARAMETER		0101S				
K\$WRIT	I	PARAMETER		0101S				
SRCH\$\$	R	EXTERNAL	000000	0107	0111	0131	0132	0133
TIMDAT	R	EXTERNAL	000000	0103				

_1	000157	0121	01230
_2	000203	01240	0128
_25	000077	01210	0130
_56	000304	0128	01310

0000 ERRORS [&lt;IDENT &gt;FTN-REV14.2]

B-12

(0138) SUBROUTINE TINPUT(ITI,LEN)  
(0139) C  
(0140) C TITLE PACK ROUTINE  
(0141) C  
(0142) C  
(0142) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0142) C  
(0142) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0142) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(0142) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,OW,DT,DRE  
(0142) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0142) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0142) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0142) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(0142) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(0142) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0142) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0142) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0142) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0142) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(0143) COMMON /X/PEDL  
(0144) INTEGER\*4 ARRAY(4),BLNK  
(0145) INTEGER\*4 ITI(21)  
(0146) INTEGER\*2 PEDL, BUF(76),BUFF(76)  
(0147) CALL RDCOM(BUF)  
(0148) DO 5 I=1,76  
(0149) BUFF(I)=BUF(I)  
(0150) 5 CONTINUE  
(0151) BLNK=''  
(0152) DO 1 I=1,24  
(0153) 1 TIT(I)=BLNK  
(0154) DO 11 I=1,20  
(0155) ARRAY(1)=BLNK  
(0156) ARRAY(2)=BLNK  
(0157) ARRAY(3)=BLNK  
(0158) ARRAY(4)=BLNK  
(0159) CALL GFTWRD(BUF,ARRAY,LEN)  
(0160) TIT(I)=ARRAY(1)

```
(0161)      TIT(I+1)=ARRAY(2)
(0162)      TIT(I+2)=ARRAY(3)
(0163)      TIT(I+3)=ARRAY(4)
(0164)      I=I+2
(0165)  12   CONTINUE
(0166)  11   CONTINUE
(0167)      PEDL=1
(0168)      DO 100 I=1,21
(0169)      ITI(I)=TIT(I)
(0170)  100  CONTINUE
(0171)      DO 200 I=1,19
(0172)  200  PTIT(I)=BLNK
(0173)      CALL GETWD(BUFF,PTIT)
(0174)  211  CONTINUE
(0175)      RETURN
(0176)      END
```

ADD	I	/BLK/	000163	0142S															
ARRAY	J		000006	0144S	0155M	0156M	0157M	0158M	0159A	0160									
				0161	0162	0163													
ATHR	J	/FLK/	000001	0142S															
BLNK	J		000601	0144S	0151M	0153	0155	0156	0157	0158									
				0172															
BUF	I		000016	0146S	0147A	0149	0159A												
BUFF	I		000132	0146S	0149M	0173A													
CON	J	/BLK/	002731	0142S															
CONT	J	/BLK/	000151	0142S															
COUNT	J	/BLK/	002727	0142S															
CWA	I	/BLK/	000145	0142S															
D	I	/SRC/	000136	0142S															
DA	J	/SRC/	000003	0142S															
DD	I	/BLK/	000017	0142S															
DDD	I	/SRC/	000021	0142S															
DDT	J	/BLK/	000304	0142S															
DL	J	/SRC/	000044	0142S															
DLN	J	/BLK/	000042	0142S															
DM	I	/SRC/	000002	0142S															
DRE	J	/SRC/	000171	0142S															
DT	J	/SRC/	000157	0142S															
DTJ	D		000000	0142S															
DTO	J	/SRC/	000024	0142S															
DW	J	/SRC/	000145	0142S															
FSC	J	/BLK/	000262	0142S															
FVD	I	/SRC/	000203	0142S															
GETWD	R	EXTERNAL	000000	0173															
GETWRD	R	EXTERNAL	000000	0159															
I	I		000603	0148M	0149	0152M	0153	0154M	0160	0161									
				0162	0163	0164M	0168M	0169	0171M	0172									
IANN	I	/FLA/	000003	0142S															
ICD	I	/BLK/	000142	0142S															
IEX	J	/SRC/	000211	0142S															
IMELE	I	/FLA/	000001	0142S															
IMIS	I	/FLA/	000005	0142S															
IFR	I	/FLA/	000004	0142S															
IREAD	I	/FLA/	000006	0142S															

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IT	J	/SRC/	000056	0142S															
ITI	J	ARGUMENT	000003	0138S	0145S	0169M													
ITRSP	I	/FLA/	000000	0142S															
ITWFX	I	/FLA/	000002	0142S															
KNT	J	/SRC/	000000	0142S															
LEN	I	ARGUMENT	000004	0138S	0159A														
LVD	I	/SRC/	000206	0142S															
MS	I	/BLK/	000000	0142S															
NRE	J	/BLK/	000276	0142S															
PEDL	I	/X/	000000	0143S	0146S	0167M													
PTIT	J	/BLK/	002661	0142S	0172M	0173A													
R	I	/BLK/	002660	0142S															
RDCOM	K	EXTERNAL	000000	0147															
RGUT	J	/FLK/	000126	0142S															
SUB	J	/BLK/	000054	0142S															
T	J		000246	0142S															
TF	D		000000	0142S															
TFVD	D	/SRC/	000173	0142S															
TIM	D		000000	0142S															
TINPUT	R		000000	0138S															
TIT	J		000320	0142S	0153M	0160M	0161M	0162M	0163M	0169									
TJ	D		000000	0142S															
TJUL	D		000000	0142S															
TL	D		000000	0142S															
TLVD	D	/SRC/	000177	0142S															
TO	J	/BLK/	000022	0142S															
TWX	J	/BLK/	000166	0142S															
WA	I	/SRC/	000141	0142S															

_1		000430	0152	0153D															
_100		000543	0168	0170D															
_11		000514	0154	0166D															
_12		000514	0165D																
_200		000554	0171	0172D															
_211		000577	0174D																
_5		000411	0148	0150D															

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(0177) C READ ONE LINE FROM CONSOLE OR COMMAND FILE  
(0178) C  
(0179) C  
(0180) SUBROUTINE RDCOM(BUF)  
(0181) C  
(0182) COMMON /X/ PEDL  
(0183) C  
(0184) INTEGER BUF(1),PEDL,CHAR,ANL,AKILL,AERASE  
(0185) C  
(0186) C ANL, AKILL, AERASE ARE OCTAL 212, 277, 242  
(0187) DATA ANL,AKILL,AERASE/138,191,136/  
(0188) C  
(0189) PEDL=1  
(0190) 90 N=1  
(0191) 100 CALL C1IN(CHAR)  
(0192) BUF(N)=CHAR  
(0193) IF(CHAR.EQ.ANL) RETURN  
(0194) IF(CHAR.EQ.AKILL) GOTO 90  
(0195) IF(CHAR.EQ.AERASE) GOTO 200  
(0196) N=N+1  
(0197) IF(N.GT.77) GOTO999  
(0198) GOTO 100  
(0199) C  
(0200) 200 IF(N.LE.2) GOTO 90  
(0201) N=N-1  
(0202) GOTO 100  
(0203) C  
(0204) C  
(0205) C LINE LONGER THAN 77 CHAR  
(0206) C  
(0207) 999 ILF=:212  
(0208) CALL T10U(ILF)  
(0209) RETURN  
(0210) END

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AERASE	I	000007	0184S	0187I	0195			
AKILL	I	000006	0184S	0187I	0194			
ANL	I	000005	0184S	0187I	0193			
BUF	I ARGUMENT	000003	0180S	0184S	0192M			
CIIN	R EXTERNAL	000000	0191					
CHAR	I	000071	0184S	0191A	0192	0193	0194	0195
ILF	I	000072	0207M	0208A				
N	I	000073	0190M	0192	0196M	0197	0200	0201M
PEDL	I /x/	000000	0182S	0184S	0189M			
RDCOM	R	000000	0180S					
TIOU	R EXTERNAL	000000	0206					
_100		000016	0191D	0198	0202			
_200		000051	0195	0200D				
_90		000013	0190D	0194	0200			
_999		000062	0197	0207D				

0000 ERRORS [ &lt;RDCOM &gt;FTN-REV14.2 ]



(0211) C      FETCH ONE \*WORD\* FROM BUFFER FILLED BY RDCOM  
(0212) C  
(0213) C  
(0214)      SUBROUTINE GETWRD(BUF,NAME,LEN)  
(0215) C  
(0216)      COMMON /X/ PEDL  
(0217) C  
(0218)      INTEGER BUF(1),PEDL,NAME(1),CHAR,  
(0219) +      ANL,ACOMMA,ASCOL,ASP,ASPSP  
(0220) C  
(0221) C      ANL,ACOMMA,ASCOL,ASP,ASPSP  
(0222) C      ARE OCTAL  
(0223) C      212,254,273,240,120240  
(0224) C  
(0225)      DATA ANL,ACOMMA,ASCOL/138,172,187/,  
(0226) +      ASP,ASPSP/160,2H /  
(0227) C  
(0228)      DO 100 I=1,3  
(0229) 100      NAME(I)=ASPSP  
(0230) C  
(0231)      N=1  
(0232)      IF(BUF(1).NE.ASP) GO TO 200  
(0233)      DO 999 I=2,77  
(0234)      II=I-1  
(0235)      BUF(II)=BUF(I)  
(0236) 999      CONTINUE  
(0237) 200      CHAR=BUF(PEDL)  
(0238)      PEDL=PEDL+1  
(0239)      IF(PEDL.GT.77) RETURN  
(0240)      IF(CHAR.EQ.ANL) GO TO 400  
(0241)      IF(CHAR.EQ.ASP.OR.CHAR.EQ.ACOMMA.OR.CHAR.EQ.ASCOL) GO TO 300  
(0242)      IF(N.GT.LEN) GO TO 200  
(0243)      I=(N+1)/2  
(0244)      J=N-2\*(N/2)  
(0245)      N=N+1  
(0246)      IF(J.EQ.1) GO TO 250  
(0247)      NAME(I)=LT(NAME(I),8) + CHAR  
(0248)      GO TO 200

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C

FETCH ONE 'WORD' FROM BUFFER FILLED BY RDCOM

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```
(0249) 250 NAME(I)= RT(NAME(I),8) + LS(CHAR,8)
(0250)      GOTO 200
(0251)      C
(0252) 300 CHAR=BUF(PEDL)
(0253)      IF(CHAR.EQ.ANL) GOTO 400
(0254)      IF(CHAR.NE.ASP.AND.CHAR.NE.ACONMA.AND.CHAR.NE.ASCOL) RETURN
(0255)      PEDL=PEDL+1
(0256)      GOTO 300
(0257)      C
(0258) 400 PEDL=77
(0259)      RETURN
(0260)      C
(0261)      END
```

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ACOMMA	I	000010	0218S	0225I	0241	0254			
ANL	I	000007	0218S	0225I	0240	0253			
ASCOL	I	000011	0218S	0225I	0241	0254			
ASP	I	000012	0218S	0225I	0232	0241	0254		
ASPSP	I	000013	0218S	0225I	0229				
BUF	I	ARGUMENT	000003	0214S	0218S	0232	0235M	0237	0252
CHAR	I	000243	0218S	0237M	0240	0241	0247	0249	0252M
			0253	0254					
GETWRD	R	000000	0214S						
1	I	000244	0228M	0229	0233M	0234	0235	0243M	0247
			0249						
II	I	000246	0234M	0235					
J	I	000247	0244M	0246					
LEM	I	ARGUMENT	000005	0214S	0242				
LS	I	EXTERNAL	000000	0249					
LT	I	EXTERNAL	000000	0247					
N	I	000252	0231M	0242	0243	0244	0245M		
NAME	I	ARGUMENT	000004	0214S	0218S	0229M	0247M	0249M	
PEDL	I	/X/	000000	0216S	0218S	0237	0238M	0239	0252    0255M
			0258M						
RT	R	EXTERNAL	000000	0249					
_100		000017	0228	0229D					
_200		000070	0232	0237D	0242	0248	0250		
_25J		000174	0246	0249D					
_300		000207	0241	0252D	0256				
_400		000240	0240	0253	0258D				
_999		000061	0233	0236D					

0000 ERRORS [ <GETWRD>FTN-REV14.2 ]

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(0262) SUBROUTINE GETWD(BUFF,NAME)  
(0263) C  
(0264) COMMON /X/ PEDL  
(0265) C  
(0266) INTEGER BUFF(1),PEDL,NAME(1),CHAR,  
(0267) + ANL,ACOMMA,ASCOL,ASP,ASPSP  
(0268) C  
(0269) C ANL,ACOMMA,ASCOL,ASP,ASPSP  
(0270) C ARE OCTAL  
(0271) C 212,254,273,240,120240  
(0272) C  
(0273) DATA ANL,ACOMMA,ASCOL/138,172,187/,  
(0274) + ASP,ASPSP/160,2H /  
(0275) C  
(0276) DO 100 I=1,19  
(0277) 100 NAME(I)=ASPSP  
(0278) C  
(0279) N=1  
(0280) IF(BUFF(1).NE.ASP) GO TO 200  
(0281) DO 999 I=2,77  
(0282) II=I-1  
(0283) BUFF(II)=BUFF(I)  
(0284) 999 CONTINUE  
(0285) 200 CHAR=BUFF(PEDL)  
(0286) PEDL=PEDL+1  
(0287) IF(PEDL.GT.77) RETURN  
(0288) IF(CHAR.EQ.ANL) GOTO 400  
(0289) I=(N+1)/2  
(0290) J=N-2\*(N/2)  
(0291) N=N+1  
(0292) IF(J.EQ.1) GOTO 250  
(0293) NAME(I)=LT(NAME(I),8) + CHAR  
(0294) GOTO 200  
(0295) 250 NAME(I)= RT(NAME(I),8) + LS(CHAR,8)  
(0296) GOTO 200  
(0297) C  
(0298) C  
(0299) 400 PEDL=77

(0300) RETURN  
(0301) END

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ACOMMA	I	000007	0266S	0273I					
ANL	I	000006	0266S	0273I	0288				
ASCOL	I	000010	0266S	0273I					
ASP	I	000011	0266S	0273I	0280				
ASPSP	I	000012	0266S	0273I	0277				
BJFF	I ARGUMENT	000003	0262S	0266S	0280	0283M	0285		
CHAR	I	000164	0266S	0285M	0288	0293	0295		
GETWD	R	000000	0262S						
I	I	000165	0276M	0277	0281M	0282	0283	0289M	0293
			0295						
II	I	000167	0282M	0283					
J	I	000170	0290M	0292					
LS	I EXTERNAL	000000	0295						
LT	I EXTERNAL	000000	0293						
N	I	000171	0279M	0289	0290	0291M			
NAME	I ARGUMENT	000004	0262S	0266S	0277M	0293M	0295M		
PEOL	I /x/	000000	0264S	0266S	0285	0286M	0287	0299M	
RT	R EXTERNAL	000000	0295						
100		000016	0276	0277D					
200		000067	0280	0285D	0294	0296			
250		000146	0292	0295D					
400		000161	0288	0299D					
995		000060	0281	0284D					

0000 ERRORS [ &lt;GETWD &gt;FTN-REV14.2 ]

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(0302) SUBROUTINE SCRNDH(ITEM)
(0303) C THIS SUBROUTINE PERFORMS THE DISPLAY ON USER TERMINAL OF
(0304) C THE APPROPRIATE HEADER FOR MAIL LOG SEARCHES
(0305) C
(0305) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE
(0305) C
(0305) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,
(0305) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON
(0305) COMMON/SRC/ KNT,DM,DA,DDD,OTO,DL,IT,D,WA,DW,DT,DRE
(0305) 1 ,TFVD,TLVD,FVD,LVD,IEX
(0305) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IRFAD
(0305) INTEGER*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),
(0305) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)
(0305) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)
(0305) INTEGER*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)
(0305) INTEGER*2 ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IRFAD
(0305) INTEGER*2 FVD(3),LVD(3),D(3),DM,DDD(3)
(0305) INTEGER*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),OTO(8),KNT
(0305) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ
(0306) INTEGER*2 ITEM
(0307) C CLEAR SCREEN FOR DISPLAY
(0308) CALL CLEAR
(0309) WRITE(1,10)
(0310) 10 FORMAT(2X,78(***))
(0311) C DETERMINE THE ITEM OF SEARCH FOR SPECIFIC HEADER
(0312) IF(ITEM.EQ.1) WRITE(1,20)DM
(0313) IF(ITEM.EQ.2) WRITE(1,30)DA
(0314) IF(ITEM.EQ.3) WRITE(1,40)DDD
(0315) IF(ITEM.EQ.4) WRITE(1,45)OTO
(0316) IF(ITEM.EQ.5) WRITE(1,50)DL
(0317) IF(ITEM.EQ.6) WRITE(1,60)((IEX(I,J),J=1,3),I=1,4)
(0318) IF(ITEM.EQ.8) WRITE(1,70)D
(0319) IF(ITEM.EQ.9) WRITE(1,80)WA
(0320) IF(ITEM.EQ.10) WRITE(1,90)DW
(0321) IF(ITEM.EQ.11) WRITE(1,100)
(0322) IF(ITEM.EQ.14) WRITE(1,120)DRE
(0323) IF(ITEM.EQ.50) WRITE(1,15)
(0324) C DISPLAY ITEM NAME AND ENTRY TO MATCH

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(0325) 15 FORMAT(2X,\*\*\*,38X,\*PRINT ALL\*,29X,\*\*\*)  
(0326) 20 FORMAT(2X,\*\*\*,32X,\*MAIL STATUS: \*,A2,28X,\*\*\*)  
(0327) 30 FORMAT(2X,\*\*\*,15X,\*AUTHOR/SOURCE: \*,7A4,17X,\*\*\*)  
(0328) 40 FORMAT(2X,\*\*\*,30X,\*DOCUMENT DATE: \*,2(I2,\*-\*),I2,22X,\*\*\*)  
(0329) 45 FORMAT(2X,\*\*\*,20X,\*WHO TO: \*,RA4,15X,\*\*\*)  
(0330) 50 FORMAT(2X,\*\*\*,20X,\*DOCUMENT/LETTER NUMBER: \*,4A4,A2,13X,\*\*\*)  
(0331) 60 FORMAT(2X,\*\*\*,20X,\*SUBJECT: \*,4(2A4,A2,1X),2X,\*\*\*)  
(0332) 70 FORMAT(2X,\*\*\*,30X,\*INPUT DATE: \*,2(I2,\*-\*),I2,25X,\*\*\*)  
(0333) 80 FORMAT(2X,\*\*\*,25X,\*W.A. NUMBER/ID CODE: \*,4A2,21X,\*\*\*)  
(0334) 90 FORMAT(2X,\*\*\*,25X,\*CONTRACT NUMBER: \*,5A4,13X,\*\*\*)  
(0335) 100 FORMAT(2X,\*\*\*,32X,\*ACTION DUE DATE\*,29X,\*\*\*)  
(0336) 120 FORMAT(2X,\*\*\*,22X,\*NASA RESPONSIBLE ENGINEER: \*,A3,23X,\*\*\*)  
(0337) C DISPLAY THE DISPLAY FORMAT LINE ONE  
(0338) WRITE(1,125)  
(0339) 125 FORMAT(2X,\*\* SUBJECT\*,68X,\*\*\*)  
(0340) C DISPLAY THE DISPLAY FORMAT LINE TWO  
(0341) WRITE(1,130)  
(0342) 130 FORMAT(2X,\*\* TYPE/LETTER NUMBER\*,5X,\*FILE SYSTEM CODE\*,8X,  
(0343) 1 \*INPUT DATE-CODE\*,13X,\*\*\*)  
(0344) IF(ITEM.EQ.11) WRITE(1,600)  
(0345) E00 FORMAT(2X,\*\* AUTHOR / SOURCE\*,2X,\*RESPONSIBLE ENGINEER\*,4X,  
(0346) 1 \*DUE DATE\*,20X,\*\*\*)  
(0347) IF(ITEM.EQ.11.OR.ITEM.EQ.50) GOTO 650  
(0348) WRITE(1,625)  
(0349) 625 FORMAT(2X,\*\* REFERENCED DOCUMENTS\*,55X,\*\*\*)  
(0350) 650 WRITE(1,10)  
(0351) RETURN  
(0352) END



ADD	I /BLK/	000163	0305S							
ATHK	J /BLK/	000001	0305S							
CLEAR	R EXTERNAL	000000	0308							
CON	J /BLK/	002731	0305S							
CONT	J /BLK/	000151	0305S							
CCUNT	J /BLK/	002727	0305S							
CWA	I /BLK/	000145	0305S							
D	I /SRC/	000136	0305S	0318						
DA	J /SRC/	000003	0305S	0313						
DD	I /BLK/	000017	0305S							
DDO	I /SRC/	000021	0305S	0314						
DDT	J /BLK/	000304	0305S							
DL	J /SRC/	000044	0305S	0316						
DLN	J /BLK/	000042	0305S							
DM	I /SRC/	000002	0305S	0312						
DRE	J /SRC/	000171	0305S	0322						
DT	J /SRC/	000157	0305S							
DTJ	D	000000	0305S							
DTO	J /SRC/	000024	0305S	0315						
DK	J /SRC/	000145	0305S	0320						
FSC	J /BLK/	000262	0305S							
FVD	I /SRC/	000203	0305S							
I	I	001304	0317M							
IANN	I /FLA/	000003	0305S							
IDD	I /BLK/	000142	0305S							
IEX	J /SRC/	000211	0305S	0317						
IMELE	I /FLA/	000001	0305S							
IMIS	I /FLA/	000005	0305S							
IPR	I /FLA/	000004	0305S							
IPREAD	I /FLA/	000006	0305S							
IT	J /SRC/	000056	0305S							
ITEM	I ARGUMENT	000003	0302S	0306S	0312	0313	0314	0315	0316	
			0317	0318	0319	0320	0321	0322	0323	
			0344	0347						
ITRSP	I /FLA/	000000	0305S							
IYFX	I /FLA/	000002	0305S							
J	I	001305	0317M							
JNT	J /SRC/	000000	0305S							

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LVD	I /SRC/	000206	0305S	
MS	I /BLK/	000000	0305S	
NRE	J /ELK/	000276	0305S	
PTIT	J /ELK/	002661	0305S	
R	I /BLK/	002660	0305S	
ROUT	J /ELK/	000126	0305S	
SCRINH	R	000000	0302S	
SUB	J /BLK/	000054	0305S	
T	J	000005	0305S	
TF	D	000000	0305S	
TFVD	D /SRC/	000173	0305S	
TIM	D	000000	0305S	
TIT	J	000057	0305S	
TJ	D	000000	0305S	
TJUL	D	000000	0305S	
TL	D	000000	0305S	
TLVD	D /SRC/	000177	0305S	
TO	J /BLK/	000022	0305S	
TWX	J /ELK/	000166	0305S	
WA	I /SRC/	000141	0305S	0319
10		000145	0309	0310D 0350
100		000772	0321	0335D
120		001016	0322	0336D
125		001057	0338	0339D
130		001100	0341	0342D
15		000416	0323	0325D
20		000437	0312	0326D
30		000464	0313	0327D
40		000513	0314	0328D
45		000546	0315	0329D
50		000571	0316	0330D
60		000626	0317	0331D
600		001162	0344	0345D
625		001252	0348	0349D
650		001275	0347	0350D
70		000656	0318	0332D
80		000710	0319	0333D

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\_90 000742 0320 03340

0000 ERRORS [<SCRINHDI>FTN-REV14.2]

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(0353) SUBROUTINE SCRPT (ITEM)  
(0354) C THIS SUBROUTINE DISPLAYS THE DOCUMENT FOUND VIA  
(0355) C SEARCH IN A TWO (2) LINE FORMAT:  
(0356) C LINE ONE (1) SUBJECT  
(0357) C LINE TWO (2) DOCUMENT/LETTER NUMBER FILE CODE INPUT DATE  
(0358) C  
(0358) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0358) C  
(0358) C COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0358) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(0358) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,OW,DT,DRE  
(0358) 1 ,TFVD,TLVD,FVD,LVD,IFX  
(0358) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0358) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0358) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(0358) 1 ,TIT(24),COUNT,CONT(5),IFX(4,3)  
(0358) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),P,CWA(4),WA(4)  
(0358) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0358) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0358) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0358) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(0359) INTEGER\*2 ITEM  
(0360) C DISPLAY DOCUMENT ON USER TERMINAL  
(0361) WRITE(1,5)  
(0362) 5 FORMAT(\* /\*)  
(0363) WRITE(1,10)PTIT,DLN,FSC,IDD,COUNT  
(0364) 10 FORMAT(3X,19A4,/,3X,4A4,A2,5X,2A4,A2,\*/\*,2A4,A2,5X,  
(0365) 1 2(I2,\*-\*),I2,2X,I3//  
(0366) IF(ITEM.EQ.11.OR.ITEM.EQ.50) GOTO 650  
(0367) IF(TWX(1,1).NE.\* \*) GOTO 175  
(0368) WRITE(1,17?)  
(0369) 172 FORMAT(3X,\*NONE\*)  
(0370) GOTO 650  
(0371) 175 WRITE(1,180)((TWX(I,J),J=1,5),I=1,3)  
(0372) 180 FORMAT(3X,3(4A4,A2,2X))  
(0373) IF(TWX(4,1).EQ.\* \*) GOTO 650  
(0374) WRITE(1,180)((TWX(I,J),J=1,5),I=4,6)  
(0375) C INCREMENT FOUND COUNTER

```
(0376) 650 KNT=KNT+1
(0377)      CALL PAUS
(0378)      CALL RECYCL
(0379)      RETURN
(0380)      END
```

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ADD	I /BLK/	000163	0358S	
ATHR	J /BLK/	000001	0358S	
CON	J /BLK/	002731	0358S	
CONT	J /BLK/	000151	0358S	
COUNT	J /BLK/	002727	0358S	0363
CWA	I /BLK/	000145	0358S	
D	I /SRC/	000136	0358S	
DA	J /SRC/	000003	0358S	
DD	I /BLK/	000017	0358S	
DDD	I /SRC/	000021	0358S	
DDT	J /BLK/	000304	0358S	
DL	J /SRC/	000044	0358S	
DLN	J /BLK/	000042	0358S	0363
DM	I /SRC/	000002	0358S	
GRE	J /SRC/	000171	0358S	
DT	J /SRC/	000157	0358S	
DTJ	D	000000	0358S	
DTO	J /SRC/	000024	0358S	
DW	J /SRC/	000145	0358S	
FSC	J /BLK/	000262	0358S	0363
FVD	I /SRC/	000203	0358S	
I	I	000441	0371M	0374M
IANN	I /FLA/	000003	0358S	
IDD	I /BLK/	000142	0358S	0363
IEX	J /SRC/	000211	0358S	
IMELE	I /FLA/	000001	0358S	
IMIS	I /FLA/	000005	0358S	
IPR	I /FLA/	000004	0358S	
IREAD	I /FLA/	000006	0358S	
IT	J /SRC/	000056	0358S	
ITFM	I ARGUMENT	000003	0353S	0359S 0366
ITRSP	I /FLA/	000000	0358S	
ITWFX	I /FLA/	000002	0358S	
J	I	000442	0371M	0374M
KNT	J /SRC/	000000	0358S	0376M
LVD	I /SRC/	000206	0358S	
MS	I /BLK/	000000	0358S	
NRE	J /BLK/	000276	0358S	

PAUS	R	EXTERNAL	000000	0377				
PTIT	J	/BLK/	002661	0358S	0363			
R	I	/BLK/	002660	0358S				
RECYCL	R	EXTERNAL	000000	0378				
ROUT	J	/BLK/	000126	0358S				
SCRNPT	R		000000	0353S				
SUB	J	/BLK/	000054	0358S				
T	J		000005	0358S				
TF	C		000000	0358S				
TFVD	D	/SRC/	000173	0358S				
TIM	D		000000	0358S				
TIT	J		000057	0358S				
TJ	D		000000	0358S				
TJUL	D		000000	0358S				
TL	D		000000	0358S				
TLVD	D	/SRC/	000177	0358S				
TO	J	/BLK/	000022	0358S				
TEX	J	/BLK/	000166	0358S	0367	0371	0373	0374
WA	I	/SRC/	000141	0358S				
10			000174	0363	0364D			
172			000271	0368	0369D			
175			000301	0367	0371D			
1E0			000344	0371	0372D	0374		
E			000144	0361	0362D			
650			000424	0366	0370	0373	0376D	

0000 ERRORS [ &lt;SCRNPT&gt;FTN-REV14.2 ]

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4A

(0381) SUBROUTINE HARDHD(ITEM)  
(0382) C THIS SUBROUTINE PERFORMS THE WRITING TO TEMPORARY FILE (7)  
(0383) C OF THE APPROPRIATE HEADING FOR MAIL LOG SEARCHES TO BE  
(0384) C SPOOLED TO THE PRINTER FOR OUTPUT IF DESIRED  
(0385) C  
(0385) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0385) C  
(0385) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0385) 1 ADD,TWX,FSC,NRF,DCT,R,PTIT,COUNT,CON  
(0385) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
(0385) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0385) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0385) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0385) 1 CON(5),TWX(6,5),FSC(4),NRF(1,3),DDT(30,21),T(21)  
(0385) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(0385) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0385) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0385) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0385) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0385) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIN,TJ  
(0386) INTEGER\*2 ITEM,ARRAY(15)  
(0387) C FETCH AND WRITE TIME AND DATE TO OUTPUT FILE  
(0388) CALL TIMDAT(ARRAY,15)  
(0389) AMIN=ARRAY(4)  
(0390) AH=AMIN/60.0  
(0391) IH=AH  
(0392) IMM=IH\*60  
(0393) IMIN=AMIN  
(0394) IDM=IMIN-IMM  
(0395) WRITE(7,1000)IH,IDM,(ARRAY(I),I=1,3)  
(0396) 1000 FORMAT('1',100X,I3,'\*',I3,4X,2(A2,'/'),A2)  
(0397) WRITE(7,700)  
(0398) C DETERMINE THE ITEM OF SEARCH FOR SPECIFIC HEADER  
(0399) IF(ITEM.EQ.50) WRITE(7,15)  
(0400) IF(ITEM.EQ.1) WRITE(7,20)DM  
(0401) IF(ITEM.EQ.2) WRITE(7,30)DA  
(0402) IF(ITEM.EQ.3) WRITE(7,40)DDD  
(0403) IF(ITEM.EQ.4) WRITE(7,45)DIO



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(0404) IF(ITEM.EQ.5) WRITE(7,50)DL
(0405) IF(ITEM.EQ.6) WRITE(7,60)((IEX(I,J),J=1,3),I=1,4)
(0406) IF(ITEM.EQ.8) WRITE(7,70)D
(0407) IF(ITEM.EQ.9) WRITE(7,80)WA
(0408) IF(ITEM.EQ.10) WRITE(7,90)DW
(0409) IF(ITEM.EQ.11) WRITE(7,100)
(0410) IF(ITEM.EQ.14) WRITE(7,120)DRE
(0411) C WRITE ITEM NAME AND ENTRY OF MATCH
(0412) 15 FORMAT(70X,'PRINT ALL')
(0413) 20 FORMAT(62X,'MAIL STATUS:',4X,A2)
(0414) 30 FORMAT(52X,'AUTHOR/SOURCE:',4X,7A4)
(0415) 40 FORMAT(60X,'DOCUMENT DATE:',4X,2(I2,'-'),I2)
(0416) 45 FORMAT(50X,'WHO TO:',4X,8A4)
(0417) 50 FORMAT(50X,'DOCUMENT/LETTER NUMBER:',4X,4A4,A2)
(0418) 60 FORMAT(50X,'SUBJECT:',3X,4(1X,2A4,A2))
(0419) 70 FORMAT(60X,'INPUT DATE:',4X,2(I2,'-'),I2)
(0420) 80 FORMAT(55X,'W.A. NUMBER/ID CODE:',4X,4A2)
(0421) 90 FORMAT(55X,'CONTRACT NUMBER:',4X,5A4)
(0422) 100 FORMAT(62X,'ACTION DUE DATE')
(0423) 120 FORMAT(52X,'NASA RESPONSIBLE ENGINEER:',4X,A3)
(0424) C WRITE PRINT FORMAT LINE ONE HEADER
(0425) WRITE(7,130)
(0426) 130 FORMAT(5X,'SUBJECT',69X,'TYPE/LETTER NUMBER FILE SYSTEM CODE',
(0427) 1 6X,'DATE-CODE')
(0428) IF(ITEM.EQ.11) WRITE(7,500)
(0429) 500 FORMAT(5X,'AUTHOR / SOURCE',61X,'RESPONSIBLE ENGINEER',
(0430) 1 22X,'DATE-DUE')
(0431) IF(ITEM.EQ.11.OR.ITEM.EQ.50) GOTO 650
(0432) WRITE(7,600)
(0433) 600 FORMAT(5X,'REFERENCED DOCUMENTS')
(0434) 650 WRITE(7,700)
(0435) 700 FORMAT(5X,127('**'))
(0436) RETURN
(0437) END
```

ADD I /BLK/ 000163 0385S  
 AH R 001257 0390M 0391  
 AMIN R 001261 0389M 0390 0393  
 ARRAY I 000005 0388S 0388A 0389 0395  
 ATHR J /ELK/ 000001 0385S  
 CON J /ELK/ 002731 0385S  
 CONT J /BLK/ 000151 0385S  
 COUNT J /BLK/ 002727 0385S  
 CWA I /ELK/ 000145 0385S  
 D I /SRC/ 000136 0385S 0406  
 DA J /SRC/ 000003 0385S 0401  
 DD I /FLK/ 000017 0385S  
 DDD I /SRC/ 000021 0385S 0402  
 DDT J /ELK/ 000304 0385S  
 CL J /SRC/ 000044 0385S 0404  
 DLM J /BLK/ 000042 0385S  
 DM I /SRC/ 000002 0385S 0400  
 DRE J /SRC/ 000171 0385S 0410  
 DT J /SRC/ 000157 0385S  
 DTJ D 000000 0385S  
 DTO J /SRC/ 000024 0385S 0403  
 CW J /SRC/ 000145 0385S 0408  
 FSC J /BLK/ 000262 0385S  
 FVD I /SRC/ 000203 0385S  
 HARDHD R 000000 0381S  
 I I 001263 0395M 0405M  
 IANN I /FLA/ 000003 0385S  
 IDD I /ELK/ 000142 0385S  
 IDM I 001264 0394M 0395  
 IEX J /SRC/ 000211 0385S 0405  
 IH I 001265 0391M 0392 0395  
 IMELE I /FLA/ 000001 0385S  
 IMIN I 001266 0393M 0394  
 IMIS I /FLA/ 000005 0385S  
 IMM I 001267 0392M 0394  
 IFR I /FLA/ 000004 0385S  
 IREAD I /FLA/ 000006 0385S  
 IT J /SRC/ 000056 0385S

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ITEM	I	ARGUMENT	000003	0381S	03P6S	0399	0400	0401	0402	0403
				0404	0405	0406	0407	0408	0409	0410
				0428	0431					
ITPSP	I	/FLA/	000000	0385S						
ITWFX	I	/FLA/	000002	0385S						
J	I		001270	0405M						
KNT	J	/SRC/	000000	0385S						
LVD	I	/SRC/	000206	0385S						
MS	I	/ELK/	000000	0385S						
NRE	J	/BLK/	000276	0385S						
PTIT	J	/BLK/	002661	0385S						
R	I	/BLK/	002660	0385S						
ROUT	J	/BLK/	000126	0385S						
SUB	J	/BLK/	000054	0385S						
T	J		000024	0385S						
TF	D		000000	0385S						
TFVD	D	/SRC/	000173	0385S						
TIM	D		000000	0385S						
TIMDAT	R	EXTERNAL	000000	0388						
TIT	J		000076	0385S						
TJ	D		000000	0385S						
TJUL	D		000000	0385S						
TL	D		000000	0385S						
TLVD	D	/SRC/	000177	0385S						
TO	J	/ELK/	000022	0385S						
TWX	J	/BLK/	000166	0385S						
WA	I	/SRC/	000141	0385S	0407					
_100			001006	0409	04220					
_1000			000245	0395	03960					
_120			001023	0410	04230					
_130			001055	0425	04260					
_15			000540	0399	04120					
_20			000552	0400	04130					
_30			000570	0401	04140					
_40			000610	0402	04150					
_45			000634	0403	04160					
_50			000650	0404	04170					

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500	001134	0428	0429D	
60	000676	0405	0418D	
600	001220	0432	0433D	
650	001237	0431	0434D	
70	000717	0406	0419D	
700	001243	0397	0434	0435D
80	000742	0407	0420D	
90	000765	0408	0421D	

0000 ERRORS [ <HARDHD>FTN-REV14.2 ]

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(0438) SUBROUTINE HARDPT (ITEM)  
 (0439) C THIS SUBROUTINE PERFORMS THE WRITE TO TEMPORARY FILE (7)  
 (0440) C FOR OUTPUT IF DESIRED OF A ONE (1) LINE FORMAT:  
 (0441) C SUBJECT TYPE/LETTER NUMBER FILE CODE DATE  
 (0442) C  
 (0442) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (0442) C  
 (0442) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (0442) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (0442) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (0442) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (0442) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0442) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (0442) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (0442) 1 ,IT(24),COUNT,CONT(5),IFX(4,3)  
 (0442) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (0442) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0442) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (0442) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (0442) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (0443) INTEGER\*2 ITEM  
 (0444) C WRITE COUNTER AND DOCUMENT RECORDS ON TEMPORARY FILE 7  
 (0445) WRITE(7,10)KNT,PTIT,DLN,FSC,IDD,COUNT  
 (0446) 10 FORMAT('0',I4,'\*',15A4,4A4,A2,1X,2A4,A2,'/',\*,2A4,A2,1X,3I2,I3)  
 (0447) IF(ITEM.EQ.11.OR.ITEM.EQ.50) GOTO 650  
 (0448) IF(TWX(1,1).NE.' ') GOTO 175  
 (0449) WRITE(7,172)  
 (0450) 172 FORMAT(6X,'NONE')  
 (0451) GO TO 190  
 (0452) 175 WRITE(7,180)((TWX(I,J),J=1,5),I=1,6)  
 (0453) 180 FORMAT(4X,6(2X,4A4,A2))  
 (0454) 190 CONTINUE  
 (0455) 650 RETURN  
 (0456) END

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ADD	I /BLK/	000163	0442S	
ATHR	J /BLK/	000001	0442S	
CON	J /BLK/	002731	0442S	
CONT	J /BLK/	000151	0442S	
COUNT	J /BLK/	002727	0442S	0445
CWA	I /BLK/	000145	0442S	
D	I /SRC/	000136	0442S	
DA	J /SRC/	000003	0442S	
DD	I /BLK/	000017	0442S	
DDD	I /SRC/	000021	0442S	
DDT	J /BLK/	000304	0442S	
DL	J /SRC/	000044	0442S	
DLN	J /BLK/	000042	0442S	0445
DM	I /SRC/	000002	0442S	
DRE	J /SRC/	000171	0442S	
DT	J /SRC/	000157	0442S	
DTJ	D	000000	0442S	
OTO	J /SRC/	000024	0442S	
DW	J /SRC/	000145	0442S	
FSC	J /BLK/	000262	0442S	0445
FVD	I /SRC/	000203	0442S	
HARDPT	R	000000	0438S	
I	I	000344	0452M	
IANN	I /FLA/	000003	0442S	
IDD	I /BLK/	000142	0442S	0445
IEX	J /SRC/	000211	0442S	
IMELE	I /FLA/	000001	0442S	
IMIS	I /FLA/	000005	0442S	
IPR	I /FLA/	000004	0442S	
IREAD	I /FLA/	000006	0442S	
IT	J /SRC/	000056	0442S	
ITEX	I ARGUMENT	000003	0438S	0443S 0447
ITRSP	I /FLA/	000000	0442S	
ITWFX	I /FLA/	000002	0442S	
J	I	000345	0452M	
KNT	J /SRC/	000000	0442S	0445
LVD	I /SRC/	000206	0442S	
MS	I /BLK/	000000	0442S	

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NRE	J /BLK/	000276	0442S		
PTIT	J /ELK/	002661	0442S	0445	
R	I /BLK/	002660	0442S		
ROUT	J /ELK/	000126	0442S		
SUB	J /ELK/	000054	0442S		
T	J	000005	0442S		
TF	D	000000	0442S		
TFVC	D /SRC/	000173	0442S		
TIM	D	000000	0442S		
TIT	J	000057	0442S		
TJ	D	000000	0442S		
TJUL	D	000000	0442S		
TL	D	000000	0442S		
TLVD	D /SRC/	000177	0442S		
TO	J /ELK/	000022	0442S		
TWX	J /ELK/	000166	0442S	0448	0452
WA	I /SRC/	000141	0442S		

10		000166	0445	0446D
172		000256	0449	0450D
175		000266	0448	0452D
180		000330	0452	0453D
190		000342	0451	0454D
650		000342	0447	0455D

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(0457) SUBROUTINE BRACKET  
(0458) C THIS SUBROUTINE PERFORMS THE DEFINING OF THE TIME  
(0459) C FRAME TO BE SEARCHED DURING THE SEARCH MODE, IF DESIRED  
(0460) C  
(0460) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0460) C  
(0460) C COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0460) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(0460) C COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
(0460) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0460) C COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0460) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0460) 1 COP(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(0460) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(0460) C INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0460) C INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0460) C INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0460) C INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0460) C DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TJM,TJ  
(0461) C DETERMINE THE FIRST DATE  
(0462) 880 WRITE(1,881)  
(0463) 881 FORMAT(' WHAT IS THE FIRST VALID DATE',/, 'MMDDYY')  
(0464) READ(1,882,ERR=P80)FVD  
(0465) 882 FORMAT(3I2)  
(0466) C CHECK FOR VALID DATE ENTRY  
(0467) IF(FVD(1).GT.12.OR.FVD(2).GT.31) GOTO 880  
(0468) C STORE LFGAL ENTRY BY MONTH, DAY, YEAR  
(0469) IM=FVD(1)  
(0470) ID=FVD(2)  
(0471) IY=FVD(3)  
(0472) C CONVERT THE FIRST DATE TO JULIAN TIME  
(0473) CALL JTIME(IY,IM,ID,0,0,0,TJ)  
(0474) C STORE JULIAN (FIRST) TIME  
(0475) TFVD=TJ  
(0476) C DETERMINE THE LAST DATE OF TIME FRAME  
(0477) 885 WRITE(1,884)  
(0478) 884 FORMAT(' WHAT IS THE LAST VALID DATE',/, 'MMDDYY')  
(0479) READ(1,882,ERR=885)LVD

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(0480) C CHECK FOR VALID ENTRY  
(0481) IF(LVD(1).GT.12.OR.LVD(2).GT.31) GOTO 885  
(0482) C IF NO LAST ENTRY SPECIFIED, SET TO MAXIMUM DATE  
(0483) C DEC. 31, 1999  
(0484) IF(LVD(1).EQ.0) LVD(1)=12  
(0485) IF(LVD(2).EQ.0) LVD(2)=31  
(0486) IF(LVD(3).EQ.0) LVD(3)=99  
(0487) C STORE LAST DATE BY MONTH, DAY, YEAR  
(0488) IM=LVD(1)  
(0489) ID=LVD(2)  
(0490) IY=LVD(3)  
(0491) C CONVERT THE LAST DATE TO JULIAN TIME  
(0492) CALL JTIME(IY,IM,ID,0,0,0,TJ)  
(0493) C STORE JULIAN (LAST) TIME  
(0494) TLVD=TJ  
(0495) C ARE THE DATES ENTERED COMPATIBLE, YES RETURN  
(0496) C ELSE DISPLAY ERROR MESSAGE  
(0497) IF(TLVD.GE.TFVD) GO TO 886  
(0498) WRITE(1,887)  
(0499) 887 FORMAT(' GGLERROR IN DATES - PLEASE TRY AGAIN\*//)  
(0500) GO TO 880  
(0501) 886 CONTINUE  
(0502) RETURN  
(0503) END

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ADD	I /BLK/	000163	0460S						
ATHR	J /BLK/	000001	0460S						
BRAKET	R	000000	0457S						
CON	J /BLK/	002731	0460S						
CONT	J /BLK/	000151	0460S						
COUNT	J /BLK/	002727	0460S						
CWA	I /BLK/	000145	0460S						
D	I /SRC/	000136	0460S						
DA	J /SRC/	000003	0460S						
DD	I /ELK/	000017	0460S						
GDD	I /SRC/	000021	0460S						
DDT	J /BLK/	000304	0460S						
DL	J /SRC/	000044	0460S						
DLN	J /BLK/	000042	0460S						
DM	I /SRC/	000002	0460S						
DRE	J /SRC/	000171	0460S						
DT	J /SRC/	000157	0460S						
DTJ	D	000000	0460S						
DTO	J /SRC/	000024	0460S						
DW	J /SRC/	000145	0460S						
FSC	J /BLK/	000262	0460S						
FVD	I /SRC/	000203	0460S	0464M	0467	0469	0470	0471	
IANN	I /FLA/	000003	0460S						
ID	I	000442	0470M	0473A	0489M	0492A			
IDD	I /BLK/	000142	0460S						
IEX	J /SRC/	000211	0460S						
IM	I	000443	0469M	0473A	0488M	0492A			
IMELE	I /FLA/	000001	0460S						
IMIS	I /FLA/	000005	0460S						
IPR	I /FLA/	000004	0460S						
IREAD	I /FLA/	000006	0460S						
IT	J /SRC/	000056	0460S						
ITRSP	I /FLA/	000000	0460S						
ITWFX	I /FLA/	000002	0460S						
IY	I	000444	0471M	0473A	0490M	0492A			
JTIME	I EXTERNAL	000000	0473	0492					
KNT	J /SRC/	000000	0460S						
LVD	I /SRC/	000206	0460S	0479M	0481	0484M	0485M	0486M	0488

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			0489	0490					
MS	I /BLK/	000000	0460S						
NRE	J /BLK/	000276	0460S						
PTIT	J /BLK/	002661	0460S						
R	I /BLK/	002660	0460S						
ROUT	J /BLK/	000126	0460S						
SUB	J /BLK/	000054	0460S						
T	J	000002	0460S						
TF	D	000000	0460S						
TFVD	D /SRC/	000173	0460S	0475M	0497				
FIM	D	000000	0460S						
TIT	J	000054	0460S						
TJ	D	000446	0460S	0473A	0475	0492A	0494		
TJUL	D	000000	0460S						
TL	D	000000	0460S						
TLVD	D /SRC/	000177	0460S	0494M	0497				
TO	J /BLK/	000022	0460S						
TWX	J /BLK/	000166	0460S						
WA	I /SRC/	000141	0460S						
880		000134	0462D	0464	0467	0500			
881		000141	0462	0463D					
882		000201	0464	0465D	0479				
884		000260	0477	0478D					
885		000254	0477D	0479	0481				
886		000440	0497	0501D					
887		000411	0498	0499D					

0000 ERRORS [ &lt;BRAKET&gt;FTN-REV14.2 ]

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(0504) C  
(0505) SUBROUTINE RDSUB  
(0506) C THIS SUBROUTINE PERFORMS A READ FUNCTION FOR SELECTED  
(0507) C SUB-FILES DURING SEARCH SUBROUTINES  
(0508) C  
(0509) C  
(0509) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0509) C  
(0509) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0509) 1 ADD,TWX,FSC,NRF,DDT,R,PTIT,COUNT,CON  
(0509) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
(0509) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0509) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0509) INTEGER\*4 ATHR(7),TO(9),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0509) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(0509) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(0509) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0509) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0509) INTEGER\*2 FVD(3),LVD(3),D(3),D%,DDD(3)  
(0509) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0509) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(0510) C  
(0511) C IS THIS A TRANSMITTAL/SPECIFICATION SUBFILE READ REQUEST  
(0512) C YES, PERFORM READ  
(0513) C  
(0514) IF(ITRSP.EQ.0) GOTO 100  
(0515) 51 READ(6,END=100)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0516) 1 CWA,CONT,ADD,TWX,FSC,NRE,DDT  
(0517) RETURN  
(0518) C  
(0519) C IS THIS A MEMO/LETTER SUBFILE READ REQUEST  
(0520) C YES, PERFORM READ  
(0521) C  
(0522) 100 IF(IMELE.EQ.0) GOTO 200  
(0523) 101 READ(11,END=200)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0524) 1 CWA,CONT,ADD,TWX,FSC,NRE  
(0525) RETURN  
(0526) C

(0527) C IS THIS A TWX/MAGNAFAX/RAPIFAX SUBFILE READ REQUEST  
(0528) C YES, PERFORM READ  
(0529) C  
(0530) 200 IF(ITWFX.EQ.0) GOTO 300  
(0531) 201 READ(12,END=300)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0532) 1 CWA,CONT,ADD,TWX,FSC,NRE  
(0533) RETURN  
(0534) C  
(0535) C IS THIS AN ANNOUNCEMENT SUBFILE READ REQUEST  
(0536) C YES, PERFORM READ  
(0537) C  
(0538) 300 IF(IANN.EQ.0) GOTO 400  
(0539) 301 READ(13,END=400)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0540) 1 CWA,CONT,ADD,TWX,FSC,NRE  
(0541) RETURN  
(0542) C  
(0543) C IS THIS A PURCHASE REQUEST SUBFILE READ REQUEST  
(0544) C YES, PERFORM READ  
(0545) C  
(0546) 400 IF(IPR.EQ.0) GOTO 500  
(0547) 401 READ(14,END=500)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0548) 1 CWA,CONT,ADD,TWX,FSC,NRE  
(0549) RETURN  
(0550) C  
(0551) C IS THIS A MISCELLANEOUS SUBFILE READ REQUEST  
(0552) C YES, PERFORM READ  
(0553) C  
(0554) 500 IF(IMIS.EQ.0) GOTO 600  
(0555) 501 READ(15,END=600)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(0556) 1 CWA,CONT,ADD,TWX,FSC,NRE  
(0557) RETURN  
(0558) C  
(0559) C FINISHED ALL SUBFILES  
(0560) C  
(0561) 600 IREAD=1  
(0562) RETURN  
(0563) END

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ADD	I /BLK/	000163	0509S	0515M	0523M	0531M	0539M	0547M	0555M
ATHR	J /ELK/	000001	0509S	0515M	0523M	0531M	0539M	0547M	0555M
CON	J /BLK/	002731	0509S						
CONT	J /BLK/	000151	0509S	0515M	0523M	0531M	0539M	0547M	0555M
COUNT	J /BLK/	002727	0509S	0515M	0523M	0531M	0539M	0547M	0555M
CWA	I /BLK/	000145	0509S	0515M	0523M	0531M	0539M	0547M	0555M
D	I /SRC/	000136	0509S						
DA	J /SRC/	000003	0509S						
DD	I /BLK/	000017	0509S	0515M	0523M	0531M	0539M	0547M	0555M
DDO	I /SRC/	000021	0509S						
DDT	J /BLK/	000304	0509S	0515M					
DL	J /SRC/	000044	0509S						
DLW	J /ELK/	000042	0509S	0515M	0523M	0531M	0539M	0547M	0555M
DM	I /SRC/	000002	0509S						
DRE	J /SRC/	000171	0509S						
DT	J /SRC/	000157	0509S						
DTJ	O	000000	0509S						
DTO	J /SRC/	000024	0509S						
DW	J /SRC/	000145	0509S						
FSC	J /BLK/	000262	0509S	0515M	0523M	0531M	0539M	0547M	0555M
FVD	I /SRC/	000203	0509S						
IANN	I /FLA/	000003	0509S	0538					
ICD	I /BLK/	000142	0509S	0515M	0523M	0531M	0539M	0547M	0555M
IEX	J /SRC/	000211	0509S						
IMELE	I /FLA/	000001	0509S	0522					
IMIS	I /FLA/	000005	0509S	0554					
IPR	I /FLA/	000004	0509S	0546					
IREAD	I /FLA/	000006	0509S	0561M					
IT	J /SRC/	000056	0509S						
ITRSP	I /FLA/	000000	0509S	0514					
ITWFX	I /FLA/	000002	0509S	0530					
KNT	J /SRC/	000000	0509S						
LVD	I /SRC/	000206	0509S						
MS	I /BLK/	000000	0509S	0515M	0523M	0531M	0539M	0547M	0555M
NRE	J /BLK/	000276	0509S	0515M	0523M	0531M	0539M	0547M	0555M
PTIT	J /BLK/	002661	0509S	0515M	0523M	0531M	0539M	0547M	0555M
R	I /BLK/	002660	0509S						
RDSUB	R	000000	0509S						

ROUT	J /BLK/	000126	0509S	0515M	0523M	0531M	0539M	0547M	0555M
SUB	J /BLK/	000054	0509S	0515M	0523M	0531M	0539M	0547M	0555M
T	J	000002	0509S						
TF	D	000000	0509S						
TFVD	D /SRC/	000173	0509S						
TIM	D	000000	0509S						
TIT	J	000054	0509S						
TJ	D	000000	0509S						
TJUL	D	000000	0509S						
TL	D	000000	0509S						
TLVD	D /SRC/	000177	0509S						
TO	J /BLK/	000022	0509S	0515M	0523M	0531M	0539M	0547M	0555M
TWX	J /BLK/	000166	0509S	0515M	0523M	0531M	0539M	0547M	0555M
WA	I /SRC/	000141	0509S						

_100	000232	0514	0515	05220
_101	000236	05230		
_200	000325	0522	0523	05300
_201	000331	05310		
_300	000420	0530	0531	05380
_301	000424	05390		
_400	000513	0538	0539	05460
_401	000517	05470		
_500	000606	0546	0547	05540
_501	000612	05550		
_51	000140	05150		
_600	000701	0554	0555	05610

0000 ERRORS [ <RDSUB >FTN-REV14.2 ]

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(0564) SUBROUTINE RESEA  
(0565) C THIS SUBROUTINE PERFORMS THE NASA RESPONSIBLE ENGINEER  
(0566) C SEARCH AND FORMATS THE FINDINGS FOR OUTPUT  
(0567) C  
(0567) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0567) C  
(0567) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0567) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(0567) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
(0567) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0567) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0567) INTEGER\*4 ATHR(7),TC(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0567) 1 CON(5),TWX(6,5),FSC(6),NRF(1,3),DDT(30,21),T(21)  
(0567) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(0567) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0567) INTEGER\*2 IT&SP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(0567) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0567) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(0567) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(0568) INTEGER\*2 IPAGE,IPRINT,ITEM  
(0569) C INITIALIZE COUNTER  
(0570) KNT=0  
(0571) C INITIALIZE TOP OF PRINTER PAGE FLAG  
(0572) IPRINT=0  
(0573) C INITIALIZE FIRST FOUND FLAG  
(0574) IPAGE=0  
(0575) 3 WRITE(1,1)  
(0576) 1 FORMAT(\* RESPONSIBLE ENGINEER SEARCH\*,/,  
(0577) 1 \* WHO IS THE NASA RESPONSIBLE ENGINEER (INITIALS ONLY)\*//)  
(0578) READ(1,2,ERR=3)DRE  
(0579) 2 FORMAT(A3)  
(0580) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE.  
(0581) 100 CALL RDSUB  
(0582) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
(0583) IF(IREAD.EC.1) GOTO 200  
(0584) IM=IDD(1)  
(0585) ID=IDD(2)  
(0586) IY=IDD(3)



(0587) CALL JTIME(IY,IM,1D,0,0,0,TIM)  
(0588) IF(TFVD.LE.TIM.AND.TIM.LE.TLVD) GO TO 890  
(0589) GO TO 100  
(0590) 890 CONTINUE  
(0591) DO 11 J=1,3  
(0592) IF(DRE.EQ.NRE(1,J)) GO TO 150  
(0593) 11 CONTINUE  
(0594) GO TO 100  
(0595) C ENGINEER FOUND  
(0596) C IS THIS THE FIRST ENGINEER FOUND  
(0597) 150 IF(IPAGE.NE.0) GOTG 160  
(0598) C SET FOR FIRST ENGINEER DISPLAY  
(0599) IPAGE=1  
(0600) ITEM=14  
(0601) C DISPLAY HEADING ON TERMINAL FOR RESPONSIBLE ENGINEER  
(0602) CALL SCRNDH(ITEM)  
(0603) C DISPLAY RECORD OF ENGINEER FOUND  
(0604) 160 CALL SCRNDP(ITEM)  
(0605) C IS THIS A NEW PAGE ON THE PRINTER  
(0606) IF(IPRINT.NE.0) GOTO 170  
(0607) C PRINT HEADING ON PRINTER FOR RESPONSIBLE ENGINEER  
(0608) CALL HARDHD(ITEM)  
(0609) IPRINT=1  
(0610) C PRINT RECORD OF ENGINEER FOUND  
(0611) 170 CALL HARDPT(ITEM)  
(0612) C IS THIS THE BOTTOM OF THE PRINTER PAGE, YES SET TOP OF PAGE FLAG  
(0613) 190 IF(KNT/14.EQ.KNT/14.) IPRINT=0  
(0614) GO TO 100  
(0615) C DISPLAY HOW MANY WERE FOUND  
(0616) 200 WRITE(1,300)  
(0617) 300 FORMAT(\* /\*)  
(0618) WRITE(1,250)KNT,DRE  
(0619) 250 FORMAT(\* THERE ARE \*I9\* DOCUMENTS WITH A RESPONSIBLE\*,  
(0620) 11X,\*ENGINEER OF \*A?\*)  
(0621) RETURN  
(0622) END

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ADD	I	/BLK/	000163	0567S				
ATHR	J	/BLK/	000001	0567S				
CON	J	/BLK/	002731	0567S				
CONT	J	/BLK/	000151	0567S				
COUNT	J	/BLK/	002727	0567S				
CWA	I	/BLK/	000145	0567S				
D	I	/SRC/	000136	0567S				
DA	J	/SRC/	000003	0567S				
DD	I	/ELK/	000017	0567S				
DDD	I	/SRC/	000021	0567S				
DDT	J	/ELK/	000304	0567S				
DL	J	/SRC/	000044	0567S				
DLN	J	/BLK/	000042	0567S				
DM	I	/SRC/	000002	0567S				
CRE	J	/SRC/	000171	0567S	0578M	0592	0618	
CT	J	/SRC/	000157	0567S				
DTJ	D		000000	0567S				
DTO	J	/SRC/	000024	0567S				
DW	J	/SRC/	000145	0567S				
FSC	J	/BLK/	000262	0567S				
FVD	I	/SRC/	000203	0567S				
HARDHD	R	EXTERNAL	000000	0608				
HARDPT	R	EXTERNAL	000000	0611				
IANN	I	/FLA/	000003	0567S				
ID	I		000515	0585M	0587A			
IDD	I	/BLK/	000142	0567S	0584	0585	0586	
IEX	J	/SRC/	000211	0567S				
IM	I		000516	0584M	0587A			
IMELE	I	/FLA/	000001	0567S				
IMIS	I	/FLA/	000005	0567S				
IPAGE	I		000517	0568S	0574M	0597	0599M	
IPR	I	/FLA/	000004	0567S				
IFRINT	I		000520	0568S	0572M	0606	0609M	0613M
IREAD	I	/FLA/	000006	0567S	0583			
IT	J	/SRC/	000056	0567S				
ITEM	I		000521	0568S	0600M	0602A	0604A	0608A 0611A
ITRSP	I	/FLA/	000000	0567S				
ITWFX	I	/FLA/	000002	0567S				

IY	I	000522	0586M	0587A		
J	I	000523	0591M	0592		
JTIME	I EXTERNAL	000000	0587			
KNT	J /SRC/	000000	0567S	0570M	0613	0618
LVD	I /SRC/	000206	0567S			
MS	I /BLK/	000000	0567S			
NRE	J /BLK/	000276	0567S	0592		
PTIT	J /BLK/	002661	0567S			
R	I /BLK/	002660	0567S			
RDSUB	R EXTERNAL	000000	0581			
RESEA	R	000000	0564S			
ROUT	J /BLK/	000126	0567S			
SCRNHD	R EXTERNAL	000000	0602			
SCRNPT	R EXTERNAL	000000	0604			
SUB	J /BLK/	000054	0567S			
T	J	000002	0567S			
TF	D	000000	0567S			
TFVD	D /SRC/	000173	0567S	0588		
TIM	D	000527	0567S	0587A	0588	
TIT	J	000054	0567S			
TJ	D	000000	0567S			
TJUL	D	000000	0567S			
TL	D	000000	0567S			
TLVD	D /SRC/	000177	0567S	0588		
TO	J /BLK/	000022	0567S			
TWX	J /BLK/	000166	0567S			
WA	I /SRC/	000141	0567S			
_1		000153	0575	0576D		
_100		000246	0581D	0589	0594	0614
_11		000342	0591	0593D		
_150		000351	0592	0597D		
_160		000364	0597	0604D		
_170		000375	0606	0611D		
_190		000377	0613D			
_2		000243	0578	0579D		
_200		000425	0583	0616D		
_250		000447	0618	0619D		

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SUBROUTINE RESEA

PAGE 0052

3	000146	0575D	0578
300	000431	0616	0617D
890	000323	0588	0590D

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(0623)  
 (0624) SUBROUTINE CNUM  
 (0625) C  
 (0625) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (0625) C  
 (0625) COMMON/BLK/ MS,ATHR,DD,TC,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (0625) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (0625) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (0625) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (0625) COMMON/FLA/ ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0625) INTFGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (0625) 1 CON(5),TWX(6,5),FSC(C),NRE(1,3),DDT(30,21),T(21)  
 (0625) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (0625) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),VA(4)  
 (0625) INTEGER\*2 ITRSP,IMFLF,ITWFX,IANN,IPR,IMIS,IREAD  
 (0625) INTFGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (0625) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (0625) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (0626) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0626) NOLIST  
 (0627) INTEGER\*2 IPAGE,IPRINT  
 (0628) KNT=0  
 (0629) IPAGE=0  
 (0630) IPRINT=0  
 (0631) 3 WRITE(1,1)  
 (0632) 1 FORMAT(\* CONTRACT NUMBER SEARCH\*,/,  
 (0633) 1 \* WHAT IS THE DESIRED CONTRACT\*/)  
 (0634) READ(1,2,ERR=3)DW  
 (0635) 2 FORMAT(5A4)  
 (0636) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
 (0637) 100 CALL ROSUB  
 (0638) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
 (0639) IF(IREAD.EQ.1) GOTO 190  
 (0640) IM=IDD(1)  
 (0641) ID=IDD(2)  
 (0642) IY=IDD(3)  
 (0643) CALL JTIME(IY,IM,IC,0,0,0,TIM)  
 (0644) IF((TFVD.LT.TIM.AND.TIM.LE.TLVD)GO TO 890

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A7

(0645) GO TO 100  
(0646) 890 CONTINUE  
(0647) DO 660 I=1,5  
(0648) IF(DW(I).NE.CONT(I)) GOTO 100  
(0649) 660 CONTINUE  
(0650) 150 IF(IPAGE.NE.0) GOTO 160  
(0651) ITEM=10  
(0652) IPAGE=1  
(0653) CALL SCRNDH(ITEM)  
(0654) 160 CALL SCRNP(ITEM)  
(0655) IF(IPRINT.NE.0) GOTO 170  
(0656) CALL HARDHD(ITEM)  
(0657) IPRINT=1  
(0658) 170 CALL HAROPT(ITEM)  
(0659) IF(KNT/14.EQ.KNT/14.) IPRINT=0  
(0660) GO TO 100  
(0661) 190 WRITE(1,300)  
(0662) 300 FORMAT(\* \*)  
(0663) WRITE(1,250)KNT,DW  
(0664) 250 FORMAT(\* THERE ARE \*I9\* DOCUMENTS WITH A CONTRACT\*  
(0665) 11X,\*NUMBER OF \*5A4)  
(0666) RETURN  
(0667) END

ADD	I	/BLK/	000163	0625S				
ATHR	J	/BLK/	000001	0625S				
CNUM	R		000000	0624S				
CCN	J	/BLK/	002731	0625S				
CONT	J	/BLK/	000151	0625S	0648			
COUNT	J	/BLK/	002727	0625S				
CWA	I	/BLK/	000145	0625S				
D	I	/SRC/	000136	0625S				
DA	J	/SRC/	000003	0625S				
DD	I	/BLK/	000017	0625S				
DDD	I	/SRC/	000021	0625S				
DDT	J	/BLK/	000304	0625S				
DL	J	/SRC/	000044	0625S				
DLN	J	/BLK/	000042	0625S				
DM	I	/SRC/	000002	0625S				
DRE	J	/SRC/	000171	0625S				
DT	J	/SRC/	000157	0625S				
DTJ	D		000000	0625S				
DTO	J	/SRC/	000024	0625S				
DW	J	/SRC/	000145	0625S	0634M	0648	0663	
FSC	J	/BLK/	000262	0625S				
FVD	I	/SRC/	000203	0625S				
HARDHD	R	EXTERNAL	000000	0656				
HARDPT	R	EXTERNAL	000000	0658				
I	I		000501	0647M	0648			
IANN	I	/FLA/	000003	0625S				
IC	I		000503	0641M	0643A			
IDD	I	/BLK/	000142	0625S	0640	0641	0642	
IEX	J	/SRC/	000211	0625S				
IM	I		000504	0640M	0643A			
IMELE	I	/FLA/	000001	0625S				
IMIS	I	/FLA/	000005	0625S				
IPAGE	I		000505	0627S	0629M	0650	0652M	
IPR	I	/FLA/	000004	0625S				
IPRINT	I		000506	0627S	0630M	0655	0657M	0659M
IREAD	I	/FLA/	000006	0625S	0639			
IT	J	/SRC/	000056	0625S				
ITEM	I		000507	0651M	0653A	0654A	0656A	0658A

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ITRSP	I	/FLA/	000000	0625S	
ITWFX	I	/FLA/	000002	0625S	
IY	I		000510	0642M	0643A
JTIME	I	EXTERNAL	000000	0643	
K\$ALLD	I	PARAMETER		0626S	
K\$CACC	I	PARAMETER		0626S	
K\$CLOS	I	PARAMETER		0626S	
K\$CONV	I	PARAMETER		0626S	
K\$CURR	I	PARAMETER		0626S	
K\$DELE	I	PARAMETER		0626S	
K\$DMPB	I	PARAMETER		0626S	
K\$DTIM	I	PARAMETER		0626S	
K\$ENTR	I		000000	0626S	
K\$EXST	I	PARAMETER		0626S	
K\$GOND	I	PARAMETER		0626S	
K\$GPOS	I	PARAMETER		0626S	
K\$HOME	I	PARAMETER		0626S	
K\$ICUR	I	PARAMETER		0626S	
K\$IMFD	I	PARAMETER		0626S	
K\$IRTN	I	PARAMETER		0626S	
K\$ISEG	I	PARAMETER		0626S	
K\$IUFD	I	PARAMETER		0626S	
K\$MENT	I		000000	0626S	
K\$MSIZ	I	PARAMETER		0626S	
K\$MVNT	I	PARAMETER		0626S	
K\$NDAM	I	PARAMETER		0626S	
K\$NRTN	I	PARAMETER		0626S	
K\$NSAM	I	PARAMETER		0626S	
K\$NSGD	I	PARAMETER		0626S	
K\$NSGS	I	PARAMETER		0626S	
K\$POSA	I	PARAMETER		0626S	
K\$POSN	I	PARAMETER		0626S	
K\$POSH	I	PARAMETER		0626S	
K\$PREA	I	PARAMETER		0626S	
K\$PRER	I	PARAMETER		0626S	
K\$PROT	I	PARAMETER		0626S	
K\$RDWR	I	PARAMETER		0626S	
K\$READ	I	PARAMETER		0626S	



KSRPOS	I	PARAMETER	0626S			
KRSUB	I	PARAMETER	0626S			
KRWLK	I	PARAMETER	0626S			
KSCNT	I	000000	0626S			
KSETC	I	PARAMETER	0626S			
KSETH	I	PARAMETER	0626S			
KSPOS	I	PARAMETER	0626S			
KSRTN	I	PARAMETER	0626S			
KTRNC	I	PARAMETER	0626S			
KUPGS	I	PARAMETER	0626S			
KLRIT	I	PARAMETER	0626S			
KNT	J	/SRC/	000000	0625S	0628M	0659 0663
LVD	I	/SRC/	000206	0625S		
MS	I	/BLK/	000000	0625S		
NRC	J	/BLK/	000276	0625S		
PTII	J	/BLK/	002661	0625S		
R	I	/BLK/	002660	0625S		
RDSUB	R	EXTERNAL	000000	0637		
ROUT	J	/BLK/	000126	0625S		
SCRNHD	R	EXTERNAL	000000	0653		
SCRNPT	R	EXTERNAL	000000	0654		
SUB	J	/BLK/	000054	0625S		
T	J		000002	0625S		
TF	D		000000	0625S		
TFVD	D	/SRC/	000173	0625S	0644	
TIM	D		000514	0625S	0643A	0644
TIT	J		000054	0625S		
TJ	D		000000	0625S		
TJUL	D		000000	0625S		
TL	D		000000	0625S		
TLVD	D	/SRC/	000177	0625S	0644	
TO	J	/BLK/	000022	0625S		
TIX	J	/BLK/	000166	0625S		
VA	I	/SRC/	000141	0625S		
1			000153	0631	0632D	
100			000230	0637D	0645	0648 0660
150			000337	0650D		

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160	000352	0650	06540
170	000363	0655	06580
190	000413	0639	06610
2	000224	0634	06350
250	000435	0663	06640
3	000146	06310	0634
700	000417	0661	06620
660	000330	0647	06490
890	000305	0644	06460

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(0660) SUBROUTINE CWAID  
 (0669) C THIS SUBROUTINE PERFORMS THE WA NUMBER/ID CODE SEARCH  
 (0670) C  
 (0670) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (0670) C  
 (0670) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (0670) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (0670) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (0670) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (0670) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0670) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (0670) 1 CON(5),TWX(6,5),FSC(6),NRL(1,3),DDT(30,21),T(21)  
 (0670) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (0670) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (0670) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0670) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (0670) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (0670) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (0671) INTEGER\*2 IPAGE,IPRINT  
 (0672) C INITIALIZE COUNTER  
 (0673) KNT=0  
 (0674) C INITIALIZE FIRST FOUND FLAG  
 (0675) IPAGE=0  
 (0676) C INITIALIZE TOP OF PRINTER PAGE FLAG  
 (0677) IPRINT=0  
 (0678) 3 WRITE(1,1)  
 (0679) 1 FORMAT(' V.A. NUMBER/ID. CODE SEARCH',/,  
 (0680) 1 ' \* WHAT IS THE DESIRED CODE?/')  
 (0681) READ(1,2,ERR=3)WA  
 (0682) 2 FORMAT(4A2)  
 (0683) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
 (0684) 100 CALL RDSUB  
 (0685) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
 (0686) IF(IREAD.EQ.1) GOTO 200  
 (0687) IM=IDD(1)  
 (0688) ID=IDD(2)  
 (0689) IY=IDD(3)  
 (0690) CALL JTIME(IY,IM,ID,0,0,0,TIM)

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(0691)      IF(TFVD.LT.TIM.AND.TIM.LE.TLVD)GO TO 890
(0692)      GO TO 100
(0693)  890  CONTINUE
(0694)      IF(WA(4).NE.* *) GOTO 5
(0695)      IF(WA(3).NE.* *) GOTO 40
(0696)      DO 30 I=1,2
(0697)      IF(WA(I).NE.CWA(I)) GO TO 100
(0698)  30   CONTINUE
(0699)      GO TO 150
(0700)  40   DO 50 I=1,3
(0701)      IF(WA(I).NE.CWA(I)) GOTO 100
(0702)  50   CONTINUE
(0703)      GO TO 150
(0704)  5    DO 10 I=1,4
(0705)      IF(WA(I).NE.CWA(I)) GOTO 100
(0706)  10   CONTINUE
(0707)  C    WA NUMBER / ID CODE FOUND
(0708)  C    IS THIS THE FIRST RECORD FOUND
(0709)  150  IF(IPAGE.NE.0) GOTO 160
(0710)  C    SET UP FOR DISPLAY ON TERMINAL
(0711)      ITEM=9
(0712)      IPAGE=1
(0713)  C    DISPLAY HEADING ON TERMINAL FOR WA NUMBER/ID CODE
(0714)      CALL SCRNDH(ITEM)
(0715)  C    DISPLAY RECORD OF DOCUMENT FOUND
(0716)  160  CALL SCRNP(ITEM)
(0717)  C    IS THIS THE TOP OF PRINTER PAGE
(0718)      IF(IPRINT.NE.0) GOTO 170
(0719)  C    PRINT HEADING ON PRINTER FOR WA NUMBER/ID CODE
(0720)      CALL HARDHD(ITEM)
(0721)      IPRINT=1
(0722)  C    PRINT RECORD OF DOCUMENT ON PRINTER
(0723)  170  CALL HARDPT(ITEM)
(0724)  C    IS THIS THE BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(0725)  190  IF(KNT/14.EC.KNI/14.) IPRINT=0
(0726)      GO TO 100
(0727)  C    DISPLAY THE NUMBER OF DOCUMENTS FOUND
(0728)  200  WRITE(1,300)
```

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(0729) 300  FORMAT(* '/')
(0730)      WRITE(1,250)KNT,WA
(0731) 250  FORMAT(* THERE ARE *I9* DOCUMENTS WITH A W.A. NUMBER*,
(0732)      1 13H/ID. CODE OF ,4A2)
(0733)      RETURN
(0734)      END
```

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ADD	I	/BLK/	000163	0670S					
ATHP	J	/BLK/	000001	0670S					
CON	J	/BLK/	002731	0670S					
COJT	J	/BLK/	000151	0670S					
CCUNT	J	/BLK/	002727	0670S					
CWA	I	/BLK/	000145	0670S	0697	0701	0705		
CWAID	R		000000	0668S					
D	I	/SRC/	000136	0670S					
DA	J	/SRC/	000003	0670S					
DU	I	/BLK/	000017	0670S					
DD	I	/SRC/	000021	0670S					
DDT	J	/BLK/	000304	0670S					
DL	J	/SRC/	000044	0670S					
DLN	J	/BLK/	000042	0670S					
CM	I	/SRC/	000002	0670S					
DRE	J	/SRC/	000171	0670S					
DT	J	/SRC/	000157	0670S					
DTJ	D		000000	0670S					
DFO	J	/SRC/	000024	0670S					
DW	J	/SRC/	000145	0670S					
FSC	J	/BLK/	000262	0670S					
FVD	I	/SRC/	000203	0670S					
HARDPD	R	EXTERNAL	000000	0720					
HARDPT	R	EXTERNAL	000000	0723					
I	I		000542	0696M	0697	0700M	0701	0704M	0705
IANN	I	/FLA/	000003	0670S					
ID	I		000543	0688M	0690A				
IDD	I	/BLK/	000142	0670S	0687	0688	0689		
IEX	J	/SRC/	000211	0670S					
IM	I		000544	0687M	0690A				
IMELE	I	/FLA/	000001	0670S					
IMIS	I	/FLA/	000005	0670S					
IPACE	I		000545	0671S	0675M	0709	0712M		
IPR	I	/FLA/	000004	0670S					
IPRINT	I		000546	0671S	0677M	0718	0721M	0725M	
IPEAU	I	/FLA/	000006	0670S	0686				
II	J	/SRC/	000056	0670S					
IYEM	I		000547	0711M	0714A	0716A	0720A	0723A	

ITKSP	I	/FLA/	000000	0670S							
ITWFX	I	/FLA/	000002	0670S							
IV	I		000550	0689M	0690A						
JTIME	I	EXTERNAL	000000	0690							
KNT	J	/SRC/	000000	0670S	0673M	0725	0730				
LVD	I	/SRC/	000206	0670S							
MS	I	/BLK/	000000	0670S							
PRE	J	/BLK/	000276	0670S							
PTLT	J	/PLK/	002661	0670S							
R	I	/BLK/	002660	0670S							
RDSUB	R	EXTERNAL	000000	0684							
ROUT	J	/BLK/	000126	0670S							
SCRNHD	R	EXTERNAL	000000	0714							
SCHNPT	R	EXTERNAL	000000	0716							
SUP	J	/PLK/	000054	0670S							
T	J		000002	0670S							
TF	D		000000	0670S							
TFVD	D	/SRC/	000173	0670S	0691						
TIM	D		000554	0670S	0690A	0691					
TIT	J		000054	0670S							
TJ	D		000000	0670S							
TJHL	D		000000	0670S							
TL	D		000000	0670S							
TLVD	D	/SRC/	000177	0670S	0691						
TO	J	/BLK/	000022	0670S							
TWX	J	/PLK/	000166	0670S							
WA	I	/SRC/	000141	0670S	0681M	0694	0695	0697	0701	0705	
				0730							

1	000153	0678	0679D								
10	000367	0704	0706D								
100	000231	0684D	0692	0697	0701	0705	0726				
150	000376	0699	0703	0709D							
160	000411	0709	0716D								
170	000422	0718	0723D								
190	000424	0725D									
2	000225	0681	0682D								
2.0	000452	0686	0728D								

_250	000474	0730	07310
_3	000146	06780	0681
_30	000333	0696	06980
_300	000456	0728	07290
_40	000342	0695	07000
_5	000360	0694	07040
_50	000351	0700	07020
_800	000306	0691	06930

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(0735) SUBROUTINE DLSEA  
 (0736) C THIS SUBROUTINE PERFORMS THE DOCUMENT/LETTER NUMBER SEARCH.  
 (0737) C  
 (0737) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (0737) C  
 (0737) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (0737) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (0737) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (0737) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (0737) COMMON/FLA/ ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0737) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (0737) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (0737) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (0737) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (0737) INTEGER\*2 ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD  
 (0737) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (0737) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (0737) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (0738) INTEGER\*2 IPAGE,IPRINT  
 (0739) C INITIALIZE FOUND COUNTER  
 (0740) KNT=0  
 (0741) C INITIALIZE FIRST FOUND FLAG  
 (0742) IPAGE=0  
 (0743) C INITIALIZE TOP OF PRINTER PAGE FLAG  
 (0744) IPRINT=0  
 (0745) 3 WRITE(1,1)  
 (0746) 1 FORMAT(\* DOCUMENT/LETTER NUMBER SEARCH\*,/,  
 (0747) 1 \* WHAT IS THE DESIRED DOCUMENT NUMBER\*/)  
 (0748) READ(1,2,ERR=3)DL  
 (0749) 2 FORMAT(4A4,A2)  
 (0750) WRITE(1,2)DL  
 (0751) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
 (0752) 100 CALL PDSUB  
 (0753) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
 (0754) IF(IREAD.EQ.1) GOTO 200  
 (0755) IM=IDD(1)  
 (0756) ID=IDD(2)  
 (0757) IY=IDD(3)

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```
(0758) CALL JTIME(IY,IM,JD,0,0,0,TIM)
(0759) IF(TFVD.LT.TIM.AND.TIM.LE.TLVD)GO TO 890
(0760) GO TO 100
(0761) 890 CONTINUE
(0762) DO 101 I=1,5
(0763) IF(DL(I).NE.DLN(I)) GO TO 100
(0764) 101 CONTINUE
(0765) C DOCUMENT /LETTER NUMBER FOUND
(0766) C IS THIS THE FIRST DOCUMENT FOUND
(0767) 150 IF(IPAGE.NE.0) GOTO 160
(0768) C SET UP FOR DISPLAY OF DOCUMENT
(0769) ITEM=5
(0770) IPAGE=1
(0771) C DISPLAY HEADING ON TERMINAL FOR DOCUMENT NUMBER
(0772) C CALL SCRNDH(ITEM)
(0773) C DISPLAY RECORD OF DOCUMENT FOUND
(0774) 160 CALL SCRNP(ITEM)
(0775) C IS THIS A NEW PAGE ON PRINTER?
(0776) IF(IPRINT.NE.0) GOTO 170
(0777) C PRINT HEADING ON PRINTER FOR DOCUMENT/LETTER NUMBER
(0778) CALL HARDHD(ITEM)
(0779) IPRINT=1
(0780) C PRINT RECORD OF DOCUMENT/LETTER NUMBER
(0781) 170 CALL HARDPT(ITEM)
(0782) C IS THIS THE BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(0783) 190 IF(KNT/14.EQ.KNT/14.) IPRINT=0
(0784) GO TO 100
(0785) C DISPLAY THE NUMBER OF DOCUMENTS FOUND
(0786) 200 WRITE(1,300)
(0787) 300 FORMAT(* *)
(0788) WRITE(1,250)KNT,DL
(0789) 250 FORMAT(* THERE ARE *I9* DOCUMENTS WITH DOCUMENT / LETTER NUMBER*.
(0790) 11X,*OF *4A4,A2)
(0791) RETURN
(0792) END
```

ADD	I	/BLK/	000163	0737S				
ATHR	J	/BLK/	000001	0737S				
CCN	J	/BLK/	002731	0737S				
CONT	J	/BLK/	000151	0737S				
CO'INT	J	/BLK/	002727	0737S				
CWA	I	/ELK/	000145	0737S				
D	I	/SRC/	000136	0737S				
DA	J	/SRC/	000003	0737S				
DD	I	/PLK/	000017	0737S				
DDJ	I	/SRC/	000021	0737S				
JDT	J	/BLK/	000304	0737S				
DL	J	/SRC/	000044	0737S	0748M	0750	0763	0788
DLN	J	/ELK/	000042	0737S	0763			
DLSEA	R		000000	0735S				
DM	I	/SRC/	000002	0737S				
DRE	J	/SRC/	000171	0737S				
DT	J	/SRC/	000157	0737S				
DTJ	D		000000	0737S				
DTL	J	/SRC/	000024	0737S				
DW	J	/SRC/	000145	0737S				
FSC	J	/BLK/	000262	0737S				
FVD	I	/SRC/	000203	0737S				
HARCHD	R	EXTERNAL	000000	0778				
HARCPT	R	EXTERNAL	000000	0781				
I	I		000524	0762M	0763			
JANN	I	/FLA/	000003	0737S				
ID	I		000526	0756M	0758A			
IDD	I	/BLK/	000142	0737S	0755	0756	0757	
IEX	J	/SRC/	000211	0737S				
IM	I		000527	0755M	0758A			
IMELE	I	/FLA/	000001	0737S				
IMIS	I	/FLA/	000005	0737S				
IPAGE	I		000530	0738S	0742M	0767	0770M	
IPR	I	/FLA/	000004	0737S				
I'PRINT	I		000531	0738S	0744M	0776	0779M	0783M
I'READ	I	/FLA/	000006	0737S	0754			
II	J	/SRC/	000056	0737S				
ITEM	I		000532	0769M	0772A	0774A	0778A	0781A

ITRSP	I /FLA/	000000	0737S			
ITWFX	I /FLA/	000002	0737S			
IY	I	000533	0757M	0758A		
JTIME	I EXTERNAL	000000	0758			
KNT	J /SRC/	000000	0737S	0740M	0783	0788
LVI	I /SRC/	000206	0737S			
MS	I /ELK/	000000	0737S			
NRE	J /BLK/	000276	0737S			
FTIT	J /BLK/	002661	0737S			
R	I /ELK/	002660	0737S			
RDSUB	P EXTERNAL	000000	0752			
ROUT	J /BLK/	000126	0737S			
SCRNHD	R EXTERNAL	000000	0772			
SCRNPT	R EXTERNAL	000000	0774			
SUB	J /ELK/	000054	0737S			
T	J	000002	0737S			
TF	D	000000	0737S			
TFVD	D /SRC/	000173	0737S	0759		
TIM	D	000537	0737S	0758A	0759	
TIT	J	000054	0737S			
TJ	D	000000	0737S			
TJUL	D	000000	0737S			
TL	D	000000	0737S			
TLVD	D /SRC/	000177	0737S	0759		
TO	J /BLK/	000022	0737S			
TWX	J /ELK/	000166	0737S			
WA	I /SRC/	000141	0737S			
_1		000153	0745	0746D		
_100		000247	0752D	0760	0763	0784
_101		000347	0762	0764D		
_150		000356	0767D			
_160		000370	0767	0774D		
_170		000401	0776	0781D		
_190		000403	07A3D			
_2		000233	0748	0749D	0750	
_201		000431	0754	0786D		
_250		000453	0788	0789D		

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3	000146	0745D	0748
300	000435	0786	0787D
89C	000324	0759	0761D

0000 ERRORS [ <DLSEA >FTN-REV14.2 ]

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(0793) SUBROUTINE AUSEA  
(0794) C THIS SUBROUTINE PERFORMS THE AUTHOR SEARCH FOR MAIL LOG  
(0795) C  
(0795) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(0795) C  
(0795) COMMON/BLK/ MS,ATHP,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(0795) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(0795) COMMON/SRC/ KNT,DM,DA,DDD,DTO,OL,IT,D,WA,DW,DT,DRE  
(0795) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(0795) COMMON/FLA/ ITRSP,IMLEI,ITWFX,IANN,IPR,IMIS,IRFAD  
(0795) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(0795) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(0795) 1 ,TIT(24),COUNT,CONT(5),IFX(4,3)  
(0795) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(0795) INTEGER\*2 ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD  
(0795) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(0795) INTEGER\*4 DRE,DT(5),DW(5),OL(5),DA(7),IT(24),DTO(8),KNT  
(0795) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(0796) INTEGER\*2 IPAGE,IPRINT  
(0797) C INITIALIZE THE FOUND COUNTER  
(0798) KNT=0  
(0799) C INITIALIZE THE FIRST FOUND FLAG  
(0800) IPAGE=0  
(0801) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
(0802) IPRINT=0  
(0803) 3 WRITE(1,1)  
(0804) 1 FORMAT(' THIS IS THE DOCUMENT AUTHOR/SOURCE SEARCH',/,  
(0805) 1 ' WHAT IS THE DESIRED AUTHOR/SOURCE',/)  
(0806) READ(1,2,ERR=3)DA  
(0807) 2 FORMAT(7A4)  
(0808) WRITE(1,2)DA  
(0809) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
(0810) 100 CALL RDSUB  
(0811) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
(0812) IF(IREAD.EQ.1) GOTO 200  
(0813) IM=IDD(1)  
(0814) ID=IDD(2)  
(0815) IY=IDD(3)

0810) CALL JTIME(IY,IM,ID,0,0,0,TIM)  
0817) IF(IFVD.LE.TIM.AND.TIM.LE.TLVD)GO TO 890  
0818) GO TO 100  
0819) 890 CONTINUE  
0820) DO 101 I=1,7  
0821) IF(ATHR(I).NE.DA(I)) GO TO 100  
0822) 101 CONTINUE  
0823) C AN AUTHOR WAS FOUND AND MATCHED  
0824) C IS THIS THE FIRST DOCUMENT FOUND WITH THE AUTHOR  
0825) 150 IF(IPAGE.NE.0) GOTO 160  
0826) C SET UP FOR DISPLAY OF DOCUMENT  
0827) ITEM=2  
0828) IPAGE=1  
0829) C DISPLAY HEADING ON TERMINAL FOR AUTHOR  
0830) CALL SCRHD(ITEM)  
0831) C DISPLAY RECORD OR DOCUMENT FOUND WITH AUTHOR  
0832) 160 CALL SCRPT(ITEM)  
0833) C IS THIS A NEW PAGE ON PRINTER  
0834) IF(IPRINT.NE.0) GOTO 170  
0835) C PRINT HEADING ON PRINTER FOR AUTHOR SEARCH  
0836) CALL HARDHD(ITEM)  
0837) IPRINT=1  
0838) C PRINT RECORD OF DOCUMENT FOUND FOR AUTHOR  
0839) 170 CALL HARDPT(ITEM)  
0840) C IS THIS THE BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG  
0841) 190 IF(KNT/14.EG.KNT/14.) IPRINT=0  
0842) GO TO 100  
0843) C DISPLAY THE NUMBER OF DOCUMENTS FOUND  
0844) 200 WRITE(1,300)  
0845) 300 FORMAT(\* \*/)  
0846) WRITE(1,250)KNT,DA  
0847) 250 FORMAT(\* THERE ARE\*15\* DOCUMENTS WITH A AUTHOR/SOURCE OF\*,/  
0848) 1 7A4)  
0849) RETURN  
0850) END

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ADD	I	/BLK/	000163	0795S				
ATHR	J	/BLK/	000001	0795S	0821			
AUSEA	R		000000	0793S				
CON	J	/BLK/	002731	0795S				
CONT	J	/BLK/	000151	0795S				
CGUNT	J	/BLK/	002727	0795S				
CWA	I	/BLK/	000145	0795S				
D	I	/SRC/	000136	0795S				
DA	J	/SRC/	000003	0795S	0806M	0808	0821	0846
DD	I	/BLK/	000017	0795S				
DDD	I	/SRC/	000021	0795S				
DDT	J	/BLK/	000304	0795S				
DL	J	/SRC/	000044	0795S				
DLN	J	/BLK/	000042	0795S				
DM	I	/SRC/	000002	0795S				
DRE	J	/SRC/	000171	0795S				
DT	J	/SRC/	000157	0795S				
DTJ	D		000000	0795S				
DTO	J	/SRC/	000024	0795S				
DW	J	/SRC/	000145	0795S				
FSC	J	/BLK/	000262	0795S				
FVD	I	/SRC/	000203	0795S				
HARDHD	R	EXTERNAL	000000	0836				
HAROPT	R	EXTERNAL	000000	0839				
I	I		000522	0820M	0821			
IANN	I	/FLA/	000003	0795S				
ID	I		000524	0814M	0816A			
IDD	I	/BLK/	000142	0795S	0813	0814	0815	
IEX	J	/SRC/	000211	0795S				
IM	I		000525	0813M	0816A			
IMELE	I	/FLA/	000001	0795S				
IMIS	I	/FLA/	000005	0795S				
IPAGE	I		000526	0796S	0800M	0825	0828M	
IPR	I	/FLA/	000004	0795S				
IPRINT	I		000527	0796S	0802M	0834	0837M	0841M
IREAD	I	/FLA/	000006	0795S	0812			
IT	J	/SRC/	000056	0795S				
ITEM	I		000530	0827M	0830A	0832A	0836A	0839A

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A3



ITRSP	I /FLA/	000000	0795S			
ITJFX	I /FLA/	000002	0795S			
IY	I	000531	0815M	0816A		
JT.ME	I EXTERNAL	000000	0816			
KNT	J /SRC/	000000	0795S	0798M	0841	0846
LVD	I /SRC/	000206	0795S			
MS	I /ELK/	000000	0795S			
NRE	J /BLK/	000276	0795S			
PTIT	J /BLK/	002661	0795S			
R	I /PLK/	002660	0795S			
RDSUB	R EXTERNAL	000000	0810			
ROUT	J /PLK/	000126	0795S			
SCRNHD	R EXTERNAL	000000	0830			
SCRNPT	R EXTERNAL	000000	0832			
SUB	J /BLK/	000054	0795S			
T	J	000002	0795S			
TF	D	000000	0795S			
TFVD	D /SRC/	000173	0795S	0817		
TIM	D	000535	0795S	0816A	0817	
TIT	J	000054	0795S			
TJ	D	000000	0795S			
TJUL	D	000000	0795S			
YL	D	000000	0795S			
TLVD	D /SRC/	000177	0795S	0817		
TO	J /BLK/	000022	0795S			
TWX	J /BLK/	000166	0795S			
WA	I /SRC/	000141	0795S			
..1		000153	0803	0804D		
..100		000254	0810D	0818	0821	0842
..101		000354	0820	0822D		
..150		000363	0825D			
..140		000376	0825	0832D		
..170		000407	0834	0839D		
..150		000411	0841D			
..2		000241	0806	0807D	0808	
..200		000437	0812	0844D		
..250		000461	0846	0847D		

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SUBROUTINE AUSEA

PAGE 0074

_3	000146	0803D	0806
_300	000443	0844	0845D
_890	000331	0817	0819D

0000 ERRORS [CAUSEA >FTN-REV14.2]

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(0851) SUBROUTINE MSTAT
(0852) C THIS SUBROUTINE PERFORMS THE MAIL STATUS SEARCH
(0853) C
(0854) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE
(0855) C
(0856) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,
(0857) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON
(0858) COMMON/SRC/ KNT,DM,DA,DDD,DTO,PL,IT,D,WA,DW,DT,DRE
(0859) 1 ,TFVD,TLVD,FVD,LVD,IEX
(0860) COMMON/FLA/ ITRSP,IMELF,ITWFX,IANN,IPR,IMIS,IREAD
(0861) INTEGER*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),
(0862) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)
(0863) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)
(0864) INTEGER*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)
(0865) INTEGER*2 ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD
(0866) INTEGER*2 FVC(3),LVD(3),D(3),DM,DDD(3)
(0867) INTEGER*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT
(0868) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ
(0869) INTEGER*2 FD(3),LD(3)
(0870) INTEGER*2 IPAGE,IPRINT
(0871) C INITIALIZE THE FIRST FOUND FLAG
(0872) IPAGE=0
(0873) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(0874) IPRINT=0
(0875) C INITIALIZE THE FOUND COUNTER
(0876) KNT=0
(0877) 10 WRITE(1,1)
(0878) 1 FORMAT(' THIS IS THE MAIL STATUS SEARCH ROUTINE ',/,
(0879) 1 ' PLEASE INPUT THE DESIRED MAIL STATUS (VC,IM,OM)',/)
(0880) READ(1,3,ERR=10)DM
(0881) 3 FORMAT(A2)
(0882) C IS THIS ENTRY A VALID MAIL STATUS, YES CONTINUE
(0883) IF(DM.EQ.'IM') GO TO 11
(0884) IF(DM.EQ.'OM') GO TO 11
(0885) IF(DM.EQ.'VC') GO TO 11
(0886) C NOT A VALID ENTRY, DISPLAY ERROR MESSAGE
(0887) WRITE(1,4)DM
(0888) 4 FORMAT('GERROR IN MAIL STATUS 'A2' NOT ALLOWABLE'//

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R10

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(0874)      1* TRY AGAIN*,/)
(0875)      GO TO 10
(0876)      11  CONTINUE
(0877)      C   READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE
(0878)      100 CALL RDSUB
(0879)      C   IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES
(0880)      IF(IREAD.EQ.1) GOTO 200
(0881)      C   CLEAR TIME FRAME FLAG
(0882)      IM=IDD(1)
(0883)      ID=IDD(2)
(0884)      IY=IDD(3)
(0885)      CALL JTIME(IY,IM,ID,0,0,0,TJUL)
(0886)      IF(TJUL.LT.TFVD.OR.TJUL.GT.TLVD) GOTO 100
(0887)      IF(NS.NE.DM) GO TO 100
(0888)      C   A MAIL STATUS WAS FOUND AND MATCHED
(0889)      C   IS THIS THE FIRST DOCUMENT FOUND WITH THE SELECTED MAIL STATUS
(0890)      150 IF(IPAGE.NE.0) GOTO 160
(0891)      C   SET UP FOR DISPLAY OF DOCUMENT
(0892)      ITEM=1
(0893)      IPAGE=1
(0894)      C   DISPLAY HEADING ON TERMINAL FOR MAIL STATUS
(0895)      CALL SCRINH(DITEM)
(0896)      C   DISPLAY RECORD OF DOCUMENT FOUND WITH SELECTED MAIL STATUS
(0897)      160 CALL SCRNP(DITEM)
(0898)      C   IS THIS A NEW PAGE ON PRINTER
(0899)      IF(IPRINT.NE.0) GOTO 170
(0900)      C   PRINT HEADING ON PRINTER FOR MAIL STATUS
(0901)      CALL HARDHD(DITEM)
(0902)      IPRINT=1
(0903)      C   PRINT RECORD OF DOCUMENT FOUND FOR MAIL STATUS
(0904)      170 CALL HARDPT(DITEM)
(0905)      C   IS THIS THE BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(0906)      190 IF(KNT/14.EQ.KNT/14.) IPRINT=0
(0907)      GO TO 100
(0908)      C   DISPLAY THE NUMBER OF DOCUMENTS FOUND
(0909)      200 WRITE(1,300)
(0910)      300 FORMAT(*,/)
(0911)      WRITE(1,201) KNT,DM
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(0912) 201 FORMAT(\* THERE ARE\*110\* DOCUMENTS WITH A MAIL STATUS OF \*  
(0913) 1 A2/)  
(0914) RETURN  
(0915) END

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ADD	I /BLK/	000163	0853S							
ATIR	J /BLK/	000001	0853S							
CON	J /BLK/	002731	0853S							
CONT	J /BLK/	000151	0853S							
CGUNT	J /BLK/	002727	0853S							
CWA	I /BLK/	000145	0853S							
D	I /SRC/	000136	0853S							
DA	J /SRC/	000003	0853S							
DD	I /FLK/	000017	0853S							
DDD	I /SRC/	000021	0853S							
DDT	J /BLK/	000304	0853S							
DL	J /SRC/	000044	0853S							
DLN	J /BLK/	000042	0853S							
DM	I /SRC/	000002	0853S	0865M	0868	0869	0870	0872	0887	
			(911							
DRE	J /SRC/	000171	0853S							
DT	J /SRC/	000157	0853S							
DTJ	D	000000	0853S							
CTO	J /SRC/	000024	0853S							
DW	J /SRC/	000145	0853S							
FC	I	000002	0854S							
FSC	J /BLK/	000262	0853S							
FVD	I /SRC/	000203	0853S							
HARDHD	R EXTERNAL	000000	0901							
HARDPT	R EXTERNAL	000000	0904							
IANN	I /FLA/	000003	0853S							
ID	I	000562	0883M	0885A						
IGD	I /BLK/	000142	0853S	0882	0883	0884				
IEX	J /SRC/	000211	0853S							
IM	I	000563	0882M	0885A						
IMELE	I /FLA/	000001	0853S							
FMIS	I /FLA/	000005	0853S							
IPAGE	I	000564	0855S	0857M	0890	0893M				
IPR	I /FLA/	000004	0853S							
IPRINT	I	000565	0855S	0859M	0899	0902M	0906M			
IREAD	I /FLA/	000006	0853S	0880						
IT	J /SRC/	000056	0853S							
ITEM	I	000566	0892M	0895A	0897A	0901A	0904A			

ITRSP	I	/FLA/	000000	0853S			
ITWFX	I	/FLA/	000002	0853S			
IY	I		000567	0884M	0885A		
JTIME	I	EXTERNAL	000000	0885			
KNT	J	/SRC/	000000	0853S	0861M	0906	0911
LD	I		000005	0854S			
LVJ	I	/SRC/	000206	0853S			
MS	I	/BLK/	000000	0853S	0887		
MSTAT	I		000000	0851S			
NRE	J	/BLK/	000276	0853S			
PTI1	J	/BLK/	002661	0853S			
R	I	/BLK/	002660	0853S			
RDSUB	R	EXTERNAL	000000	087P			
ROUT	J	/BLK/	000126	0853S			
SCRNH0	R	EXTERNAL	000000	0895			
SCRNPT	R	EXTERNAL	000000	0857			
SUB	J	/BLK/	000054	0853S			
T	J		000010	0853S			
TF	D		000000	0853S			
TFVD	D	/SRC/	000173	0853S	0886		
TIM	D		000000	0853S			
TIT	J		000062	0853S			
TJ	D		000000	0853S			
TJUL	D		000573	0853S	0885A	0886	
TL	D		000000	0853S			
TLVD	D	/SRC/	000177	0853S	0886		
TO	J	/BLK/	000022	0853S			
TWX	J	/BLK/	000166	0853S			
WA	I	/SRC/	000141	0853S			
_1			000161	0862	0863D		
_10			000154	0862D	0865	0875	
_100			000345	0878D	0886	0887	0907
_11			000345	086P	0869	0870	0876D
_150			000427	0896D			
_160			000440	0890	0897D		
_170			000451	0899	0904D		
_150			000453	0906D			

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SUBROUTINE MSTAT

PAGE 0080

200	000501	0880	09090
201	000523	0911	09120
3	000255	0865	08660
300	000505	0905	09100
4	000305	0872	08730

0000 ERRORS [MSTAT >FTN-REV14.2]

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(0916)      SUBROUTINE SUBJ
(0917)  C
(0917)  C      DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE
(0917)  C
(0917)      COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,
(0917)  1      ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON
(0917)      COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE
(0917)  1      ,TFVD,TLVD,FVD,LVD,IEX
(0917)      COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD
(0917)      INTEGER*4  ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),
(0917)  1      CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)
(0917)  1      ,TIT(24),COUNT,CONT(5),IEX(4,3)
(0917)      INTEGER*2  MS,DD(3),IDD(3),AGD(3),R,CWA(4),WA(4)
(0917)      INTEGER*2  ITRSP,IMLE,ITWFX,IANN,IPR,IMIS,IREAD
(0917)      INTEGER*2  FVD(3),LVD(3),D(3),DM,DDD(3)
(0917)      INTEGER*4  DRE,DT(5),DW(5),DL(5),DA(7),IT(24),UTO(8),KNT
(0917)      DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ
(0918)      INTEGER*2  DCC,T1,IN,ICON,IO
(0919)      INTEGER*4  BLNK
(0920)      INTEGER*2  IPAGE,IPRINT,IOPT
(0921)  C SYSCOM>KEYS.F      MNEMONIC KEYS FOR FILE SYSTEM (FTN)      31 MAY, 1977
(0921)      NOLIST
(0922)  C      INITIALIZE THE TEMPORARY FILE INDICATOR
(0923)      T1=0
(0924)  G      INITIALIZE THE FIRST FOUND FLAG
(0925)      IPAGE=0
(0926)  C      INITIALIZE THE TOP OF PRINTER PAGE FLAG
(0927)      IPRINT=0
(0928)  C      INITIALIZE THE FOUND FLAG
(0929)      KNT=0
(0930)  C      SET EXTRA WORD FOR SEARCH TO BLANKS
(0931)      DO 8000 I=1,4
(0932)      DO 8001 J=1,3
(0933)      IEX(I,J)=*
(0934)  8001      CONTINUE
(0935)  8000      CONTINUE
(0936)  C      CLEAR THE USER TERMINAL SCREEN FOR DISPLAY
(0937)      CALL CLEAR

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(0938) 1001 WRITE(1,2)
(0939) 2   FORMAT(* HOW MANY WORDS DO YOU WISH TO MATCH (MAX OF 4)*, /
(0940)     1/)
(0941)     READ(1,8,ERR=1001)ICON
(0942) 8   FORMAT(I2)
(0943) C   MAKE VALIDITY CHECKS ON NUMBER OF WORDS TO SEARCH
(0944)     IF(ICON.LT.1) GO TO 1001
(0945)     IF(ICON.GT.4) GO TO 1001
(0946)     DO 1000 LOOP=1,ICON
(0947)     WRITE(1,1)
(0948) 1   FORMAT(* WHAT IS THE DESIRED WORD*,//)
(0949) C   FETCH THE WORD TO BE SEARCHED
(0950)     LEN=10
(0951)     CALL TINPUT(IT,LEN)
(0952) C   IS THE WORD QUIT, YES RETURN
(0953)     IF(IT(1).EQ.*QUIT*) GO TO 1002
(0954) C   SAVE SEARCH WORD
(0955)     DO 8003 I=1,3
(0956)     IEX(LOOP,I)=IT(I)
(0957) 8003 CONTINUE
(0958) C
(0959) C   OPEN TEMPORARY FILES FOR SEARCH
(0960) C
(0961)     CALL SRCH$$ (K$RDWR+K$NDAM,*T1*,2,15,1,IC)
(0962)     CALL SRCH$$ (K$RDWR+K$NDAM,*T2*,2,16,1,IC)
(0963) C   REWIND ALL NEEDED SUBFILES
(0964)     IF(ITRSP.EQ.1) REWIND 6
(0965)     IF(IMELE.EQ.1) REWIND 11
(0966)     IF(ITWFX.EQ.1) REWIND 12
(0967)     IF(IANN .EQ.1) REWIND 13
(0968)     IF(IPR .EQ.1) REWIND 14
(0969)     IF(IMIS .EQ.1) REWIND 15
(0970) C
(0971) C   DETERMINE TEMPORARY FILE FOR INPUT AND OUTPUT
(0972) C
(0973)     IF(T1.EQ.0) IN=20
(0974)     IF(T1.EQ.0) IO=19
(0975)     IF(T1.EQ.1) IN=19
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(0976)      IF(T1.EQ.1) IO=20
(0977)      IF(T1.EQ.2) IN=20
(0978)      IF(T1.EQ.2) IO=19
(0979)      IF(T1.EQ.3) IN=19
(0980)      IF(T1.EQ.3) IO=20
(0981)      IF(T1.EQ.4) IN=20
(0982)      IF(T1.EQ.4) IO=19
(0983)      C      INITIALIZE TEMPORARY FILE DOCUMENT COUNTER
(0984)      DOC=0
(0985)      C      SET INPUT FILE TO TOP OF FILE
(0986)      REWIND IN
(0987)      C      SET OUTPUT FILE TO TOP OF FILE
(0988)      REWIND IO
(0989)      C      IS THIS THE FIRST WORD SEARCH
(0990)      S      IF(T1.NE.0) GOTO 50
(0991)      C      READ SUBFILE SELECTED FOR SEARCH
(0992)      CALL RDSUB
(0993)      C      IS THE SEARCH COMPLETED ON ALL SELECTED SUBFILES
(0994)      IF(IREAD.EQ.1) GOTO 100
(0995)      GO TO 55
(0996)      C      READ TEMPORARY SEARCH FILE
(0997)      50     READ(IN,END=100)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(0998)      1     ROUT,ICD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE
(0999)      C      STORE THE INPUT DATE
(1000)      55     IM=IDD(1)
(1001)      IO=IDD(2)
(1002)      IY=IDD(3)
(1003)      C      CONVERT INPUT DATE TO JULIAN TIME
(1004)      CALL JTIME(IY,IM,IO,0,0,0,TIM)
(1005)      C      IS THE DATE WITHIN THE TIME FRAME OF SEARCH
(1006)      IF(TFYD.LT.TIM.AND.TIM.LE.TLVD)GO TO 890
(1007)      GO TO 5
(1008)      890    CONTINUE
(1009)      C      IS THE SUBJECT DESIRED FOUND
(1010)      BLNK=' '
(1011)      DO 3 I=1,21
(1012)      IF(SUB(I).EQ.BLNK) GO TO 3
(1013)      IF(SUB(I).NE.IT(1)) GO TO 3
```

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```
(1014) IF(SUB(I+1).EQ.BLNK) GO TO 4
(1015) IF(IT(2).EQ.BLNK) GO TO 4
(1016) IF(SUB(I+1).EQ.IT(2)) GO TO 4
(1017) 3 CONTINUE
(1018) GO TO 5
(1019) C SUBJECT DESIRED FOUND
(1020) C INCREMENT DOCUMENT FOUND COUNTER
(1021) 4 DOC=DOC+1
(1022) C WRITE RECOFD FOUND TO TEMPORARY FILE
(1023) WRITE(10)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(1024) 1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE
(1025) C IS THIS THE LAST WORD SEARCH
(1026) IF(LOOP.EQ.ICON) GOTO 5
(1027) C DISPLAY SUBJECT FOUND ON TERMINAL
(1028) WRITE(1,10)SUB
(1029) 10 FORMAT(7(1X,2A4,A2)//)
(1030) GO TO 5
(1031) C DISPLAY NUMBER OF DOCUMENTS FOUND
(1032) 100 WRITE(1,1030)DOC,(IT(I),I=1,3)
(1033) 1030 FORMAT(' THERE ARE ',I5,' DOCUMENTS CONTAINING THE WORD',/
(1034) 17(1X,2A4,A2)//)
(1035) IF(DOC.EQ.0) GOTO 1020
(1036) C SET OUTPUT FILE TO END OF FILE
(1037) ENDFILE IO
(1038) C CLOSE TEMPORARY SEARCH FILES
(1039) CALL SRCH$$ (K$CLOS,'T1',2,0,0,0)
(1040) CALL SRCH$$ (K$CLOS,'T2',2,0,0,0)
(1041) C DELETE PREVIOUS OUTPUT FILE
(1042) IF(IG.EQ.19) CALL SRCH$$ (K$DELE,'T2',2,0,0,0)
(1043) IF(IG.EQ.20) CALL SRCH$$ (K$DELE,'T1',2,0,0,0)
(1044) C INCREMENT TO NEXT WORD OF SEARCH
(1045) T1=T1+1
(1046) 1000 CONTINUE
(1047) 1002 CALL SRCH$$ (K$RDWR+K$NDAM,'T1',2,15,1,LC)
(1048) CALL SRCH$$ (K$RDWR+K$NDAM,'T2',2,16,1,LC)
(1049) C
(1050) C ARE THERE ANY DOCUMENTS FOUND
(1051) IF(DOC.LT.1) GO TO 1020
```

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```
(1052)      DO 9999 I=1,DOC
(1053) C    READ RECORD FOUND DURING SEARCH
(1054)      READ(IO,END=1020)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(1055)      1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE
(1056) C    IS THIS THE FIRST RECORD FOUND
(1057)      IF(IPAGE.NE.0) GOTO 160
(1058) C    SET UP FOR DISPLAY ON TERMINAL
(1059)      ITEM=6
(1060)      IPAGE=1
(1061) C    DISPLAY HEADING FOR SUBJECT SEARCH ON TERMINAL
(1062)      CALL SCRNDH(ITEM)
(1063) C    DISPLAY DOCUMENT RECORD FOUND ON TERMINAL
(1064) 160  CALL SCRNDH(ITEM)
(1065) C    IS THIS TOP OF PRINTER PAGE
(1066)      IF(IPRINT.NE.0) GOTO 170
(1067) C    PRINT HEADING FOR SUBJECT SEARCH
(1068)      CALL HARDHD(ITEM)
(1069)      IPRINT=1
(1070) C    PRINT DOCUMENT RECORD FOR SUBJECT FOUND
(1071) 170  CALL HARDPT(ITEM)
(1072) C    IS THIS BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(1073) 190  IF(KNT/14.EQ.KNT/14.) IPRINT=0
(1074) 9999 CONTINUE
(1075) 1020 CONTINUE
(1076) C    CLOSE TEMPORARY SEARCH FILES
(1077)      CALL SRCH$(K$CLOS,*T1*,2,0,0,0)
(1078)      CALL SRCH$(K$CLOS,*T2*,2,0,0,0)
(1079) C    DELETE TEMPORARY SEARCH FILES
(1080)      CALL SRCH$(K$DELE,*T1*,2,0,0,0)
(1081)      CALL SRCH$(K$DELE,*T2*,2,0,0,0)
(1082)      T1=0
(1083)      IREAD=0
(1084)      IF(DOC.NE.0) RETURN
(1085) 1999 WRITE(1,20C0)
(1086) 2000 FORMAT(* DO WISH TO TRY THE SUBJECT SEARCH AGAIN (YES OR NO)*)
(1087)      READ(1,2001,ERR=1999)IOPT
(1088) 2001 FORMAT(1A?)
(1089)      IF(IOPT.EQ.'YE') GOTO 1001
```

```
(1090)      IF(IOPT.NE.*NO*) GOTO 1999  
(1091)      RETURN  
(1092)      END
```

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ADD	I /BLK/	000163	0917S	0997M	1023	1054M				
ATHR	J /BLK/	000001	0917S	0997M	1023	1054M				
BLNK	J	001706	0919S	1010M	1012	1014	1015			
CLEAR	R EXTERNAL	000000	0937							
CON	J /BLK/	002731	0917S							
CONT	J /BLK/	000151	0917S	0997M	1023	1054M				
COUNT	J /BLK/	002727	0917S	0997M	1023	1054M				
CHA	I /BLK/	000145	0917S	0997M	1023	1054M				
D	I /SRC/	000136	0917S							
DA	J /SRC/	000003	0917S							
DD	I /BLK/	000017	0917S	0997M	1023	1054M				
DDU	I /SRC/	000021	0917S							
DDT	J /BLK/	000304	0917S							
DL	J /SRC/	000044	0917S							
PLM	J /BLK/	000042	0917S	0997M	1023	1054M				
DM	I /SRC/	000002	0917S							
DOC	I	001710	0918S	0984M	1021M	1032	1035	1051	1052	
			1084							
DRK	J /SRC/	000171	0917S							
DT	J /SRC/	000157	0917S							
DTJ	D	000000	0917S							
DTO	J /SRC/	000024	0917S							
DW	J /SRC/	000145	0917S							
FSC	J /BLK/	000262	0917S	0997M	1023	1054M				
FVD	I /SRC/	000203	0917S							
HARDHD	R EXTERNAL	000000	1068							
HARDPT	R EXTERNAL	000000	1071							
I	I	001711	0931M	0933	0955M	0956	1011M	1012	1013	
			1014	1016	1032M	1052M				
IANM	I /FLA/	000003	0917S	0967						
IC	I	001713	0961A	0962A						
ICON	I	001714	0918S	0941M	0944	0945	0946	1026		
ID	I	001715	1001M	1004A						
IDP	I /BLK/	000142	0917S	0997M	1000	1001	1002	1023	1054M	
IEX	J /SRC/	000211	0917S	0933M	0956M					
IM	I	001716	1000M	1004A						
IMELE	I /FLA/	000001	0917S	0965						
IMIS	I /FLA/	000005	0917S	0969						

IN	I	001717	0918S	0973M	0975M	0977M	0979M	0981M	0986
			0997						
IO	I	001720	0918S	0974M	0976M	0978M	0980M	0982M	0988
			1023	1037	1042	1043	1054		
IOPT	I	001721	0920S	1087M	1089	1090			
IPAGE	I	001722	0920S	0925M	1057	1060M			
IPR	I /FLA/	000004	0917S	0968					
IPRINT	I	001723	0920S	0927M	1066	1069M	1073M		
IREAD	I /FLA/	000006	0917S	0994	1083M				
IT	J /SRC/	000056	0917S	0951A	0953	0956	1013	1015	1016
			1032						
ITCM	I	001724	1059M	1062A	1064A	1068A	1071A		
ITRSP	I /FLA/	000000	0917S	0964					
ITWFX	I /FLA/	000002	0917S	0966					
IY	I	001725	1002M	1004A					
J	I	001726	0932M	0933					
JTIME	I EXTERNAL	000000	1004						
KSALLO	I PARAMETER		0921S						
KSCACC	I PARAMETER		0921S						
KSCLOS	I PARAMETER		0921S	1039	1040	1077	1078		
KSCONV	I PARAMETER		0921S						
KSCURR	I PARAMETER		0921S						
K\$DELE	I PARAMETER		0921S	1042	1043	1080	1081		
K\$DMPB	I PARAMETER		0921S						
K\$DTIM	I PARAMETER		0921S						
K\$ENTR	I	000000	0921S						
K\$EXST	I PARAMETER		0921S						
K\$GCND	I PARAMETER		0921S						
K\$GFOS	I PARAMETER		0921S						
K\$HOME	I PARAMETER		0921S						
K\$ICJR	I PARAMETER		0921S						
K\$IMFD	I PARAMETER		0921S						
K\$IRTN	I PARAMETER		0921S						
K\$ISEG	I PARAMETER		0921S						
K\$IUFD	I PARAMETER		0921S						
K\$MFNT	I	000000	0921S						
K\$MSIZ	I PARAMETER		0921S						
K\$MVNT	I PARAMETER		0921S						

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K\$NDAM	I	PARAMETER	0921S	0961	0962	1047	1048
K\$NRTN	I	PARAMETER	0921S				
K\$NSAM	I	PARAMETER	0921S				
K\$NSGD	I	PARAMETER	0921S				
K\$NSGS	I	PARAMETER	0921S				
K\$POSA	I	PARAMETER	0921S				
K\$POSN	I	PARAMETER	0921S				
K\$POSR	I	PARAMETER	0921S				
K\$PREA	I	PARAMETER	0921S				
K\$PRER	I	PARAMETER	0921S				
K\$PROT	I	PARAMETER	0921S				
K\$RDWR	I	PARAMETER	0921S	0961	0962	1047	1048
K\$READ	I	PARAMETER	0921S				
K\$RPOS	I	PARAMETER	0921S				
K\$RSUB	I	PARAMETER	0921S				
K\$RULK	I	PARAMETER	0921S				
K\$SENT	I	000000	0921S				
K\$SETC	I	PARAMETER	0921S				
K\$SETH	I	PARAMETER	0921S				
K\$SPOS	I	PARAMETER	0921S				
K\$SRTN	I	PARAMETER	0921S				
K\$1RNC	I	PARAMETER	0921S				
K\$UPOS	I	PARAMETER	0921S				
K\$WRIT	I	PARAMETER	0921S				
KNT	J	/SRC/	000000	0917S	0929M	1073	
LC	I		001730	1047A	1048A		
LEN	I		001731	0950M	0951A		
LOOP	I		001732	0946M	0956	1026	
LVC	I	/SRC/	000206	0917S			
MS	I	/BLK/	000000	0917S	0997M	1023	1054M
NRE	J	/BLK/	000276	0917S	0997M	1023	1054M
PTIT	J	/BLK/	002661	0917S	0997M	1023	1054M
R	I	/BLK/	002660	0917S			
RDSUB	R	EXTERNAL	000000	0992			
ROUT	J	/BLK/	000126	0917S	0997M	1023	1054M
SCRNHD	R	EXTERNAL	000000	1062			
SCRNPT	R	EXTERNAL	000000	1064			
SRCH\$\$	R	EXTERNAL	000000	0961	0962	1039	1040 1042 1043 1047

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SUB	J /BLK/	000054	1048 0917S	1077 0997M	1078 1012	1080 1013	1081 1014	1016	1023
SUBJ	R	000000	1028 0916S	1054M					
T	J	000002	0917S						
T1	I	001735	0918S	0923M	0973	0974	0975	0976	0977
			0978	0979	0980	0981	0982	0990	1045M
			1082M						
TF	D	000000	0917S						
TFVD	D /SRC/	000173	0917S	1006					
YIM	D	001736	0917S	1004A	1006				
TINPUT	R EXTERNAL	000000	0951						
TIT	J	000054	0917S						
TJ	D	000000	0917S						
TJUL	D	000000	0917S						
TL	D	000000	0917S						
TLVD	D /SRC/	000177	0917S	1006					
TO	J /BLK/	000022	0917S	0997M	1023	1054M			
TLX	J /BLK/	000166	0917S	0997M	1023	1054M			
WA	I /SRC/	000141	0917S						
_1		000304	0947	0948D					
_10		001145	1028	1029D					
_100		001157	0994	0997	1032D				
_1000		001334	0946	1046D					
_1001		000207	0938D	0941	0944	0945	1089		
_1002		001342	0953	1047D					
_1020		001541	1035	1051	1054	1075D			
_1030		001206	1032	1033D					
_160		001471	1057	1064D					
_170		001503	1066	1071D					
_190		001505	1073D						
_1999		001612	1085D	1087	1090				
_2		000214	0938	0939D					
_2000		001617	1085	1086D					
_2001		001665	1087	1088D					
_3		001034	1011	1012	1013	1017D			
_4		001043	1014	1015	1016	1021D			

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_5	000602	0990D	1007	1018	1026	1030
_50	000615	0990	0997D			
_55	000702	0995	1000D			
_8	000261	0941	0942D			
_8000	000177	0931	0935D			
_8001	000170	0932	0934D			
_8003	000365	0955	0957D			
_890	000751	1006	1008D			
_9999	001533	1052	1074D			

0000 ERRORS [<SUBJ >FTN-REV14.2]

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(1093) SUBROUTINE ADAT  
 (1094) C THIS SUBROUTINE PERFORMS THE ACTION DUE DATE SEARCH  
 (1095) C MATCHES DATES WITHIN 5 DAYS OF THE SELECTED DATE OR PAST DUE  
 (1096) C  
 (1096) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (1096) C  
 (1096) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (1096) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (1096) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (1096) 1 ,TFVD,TLVD,FVD,LVD,IFX  
 (1096) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1096) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (1096) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (1096) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (1096) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (1096) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1096) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (1096) INTEGER\*4 DPE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (1096) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (1097) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1097) NOLIST  
 (1098) INTEGER\*2 IM,ID,IY,M,D,Y,ICURR(3),IACT(3),IDIFF(3)  
 (1099) INTEGER\*2 IPAGE,IPRINT,IOPT  
 (1100) DOUBLE PRECISION DTJ  
 (1101) C INITIALIZE THE FOUND COUNTER  
 (1102) KNT=0  
 (1103) C INITIALIZE THE FIRST FOUND FLAG  
 (1104) IPAGE=0  
 (1105) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
 (1106) IPRINT=0  
 (1107) WRITE(1,1)  
 (1108) 1 FORMAT(' THIS IS THE ACTION ITEM DUE DATE ROUTINE',/),  
 (1109) 1 ' NOTE - THE BREAK KEY HAS BEEN DISABLED FOR THIS RUN',/)  
 (1110) 5 WRITE(1,10)  
 (1111) 10 FORMAT(1X,'THERE ARE TWO (2) OPTIONS FOR THE ACTION DUE SEARCH',/),  
 (1112) 111X,'1. A COMPLETE LISTING OF ALL ACTION DUE (1)'  
 (1113) 1,'/,11X,'2. A NORMAL WITHIN 5 DAYS OR PAST DUE (2)')/  
 (1114) HEAD(1,15,ERR=5) IOPT

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```
(1115) 15  FORMAT(I2)
(1115)      IF(IOPT.LE.0.OR.IOPT.GE.3) GOTO 5
(1117) C    DISABLE THE BREAK KEY
(1118)      CALL BREAK$(.TRUE.)
(1119) C    POSITION THE DATE FILE TO THE BEGINNING OF FILE
(1120)      REWIND 10
(1121)      READ(10,1111)IM, ID, IY
(1122) 1111 FORMAT(1X,3I2)
(1123)      REWIND 10
(1124) C    CONVERT THE CURRENT DATE TO TREK TIME
(1125)      ICURR(1)=IY
(1126)      ICURR(2)=IM
(1127)      ICURR(3)=ID
(1128)      CALL SRCH1$(K$RDWR+K$NDAM,*ACTD  *,6,5,1,IC)
(1129)      REWIND 9
(1130) 100  READ(9,END=200) ATHR,DLN,PTIT,IOD,COUNT,ADD,FSC,NRE
(1131)      IF(IOPT.EQ.1) GOTO 150
(1132) C
(1133) C    STORE THE ACTION DUE DATE
(1134) 99  IM=ADD(1)
(1135)      ID=ADD(2)
(1136)      IY=ADD(3)
(1137) C    IS THIS DATE A LEGAL ACTION DUE DATE
(1138)      IF(IM.EQ.0.AND.ID.EQ.0.AND.IY.EQ.0) GO TO 100
(1139) G    CONVERT THE ACTION DUE DATE TO TREK TIME
(1140)      IACT(1)=IY
(1141)      IACT(2)=IM
(1142)      IACT(3)=ID
(1143) C    CALCULATE THE DIFFERENCE BETWEEN THE SELECTED DATE AND
(1144) C    THE ACTION DUE DATE
(1145)      IDIFF(1)=IACT(1)-ICURR(1)
(1146)      IDIFF(2)=IACT(2)-ICURR(2)
(1147)      IDIFF(3)=IACT(3)-ICURR(3)
(1148) C    IS THIS DIFFERENCE WITHIN THE 5 DAY OR PAST DUE TIME FRAME
(1149)      IF(IDIFF(1).GT.0.OR.IDIFF(2).GT.1) GOTO 100
(1150)      IF(IDIFF(1).EQ.0.AND.IDIFF(2).EQ.0.AND.IDIFF(3).GE.6) GOTO 100
(1151)      IF(IDIFF(1).EQ.0.AND.IDIFF(2).EQ.1.AND.IDIFF(3).GE.0) GOTO 100
(1152)      IF(IDIFF(1).EQ.0.AND.IDIFF(2).EQ.1) GOTO 500
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(1153) C      AN ACTION DUE DATE WAS FOUND AND MATCHED
(1154) C      IS THIS THE FIRST DOCUMENT FOUND WITHIN THE TIME FRAME
(1155) 150    IF(IPAGE.NE.0) COTO 160
(1156) C      SET UP FOR DISPLAY OF DOCUMENT
(1157)       ITEM=11
(1158)       IPAGE=1
(1159) C      DISPLAY HEADING ON TERMINAL FOR ACTION DUE
(1160)       CALL SCRINHDI(ITEM)
(1161) C      DISPLAY THE DOCUMENT RECORD FOUND
(1162) 160    CALL SCRNPDI(ITEM)
(1163)       WRITE(1,2000) ATHR,NRE,ADD
(1164) 2000   FORMAT(3X,7A4,2X,3(A3,1X),7X,2(I2,'-'),I2)
(1165) C      IS THIS A NEW PAGE ON PRINTER
(1166)       IF(IPRINT.NE.0) GOTO 170
(1167) C      PRINT HEADING ON PRINTER FOR ACTION DUE
(1168)       CALL HARHDI(ITEM)
(1169) C      PRINT RECORD OF DOCUMENT FOUND FOR ACTION
(1170)       IPRINT=1
(1171) 170    CALL HARDPDI(ITEM)
(1172)       WRITE(7,2001) ATHR,NRE,ADD
(1173) 2001   FORMAT(6X,7A4,4X,3(A3,1X),29X,3I2)
(1174) C      IS THIS THE BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(1175)       IF(KNT/14.EQ.KNT/14.) IPRINT=0
(1176)       GO TO 100
(1177) C
(1178) C      CHECK FOR VALID ACTION DATE CONTINUED FOR SPECIAL MONTH VALUES
(1179) C      SET FOR A 31 DAY MONTH
(1180) C
(1181) 500    IDIFF(3)=IDIFF(3)+31
(1182) C      IS THIS A 30 DAY MONTH, YES DEDUCT ONE DAY
(1183)       IF(ICURR(2).EQ.4.OR.ICURR(2).EQ.6.OR.ICURR(2).EQ.9.OR.ICURR(2)
(1184) 1       .EQ.11) IDIFF(3)=IDIFF(3)-1
(1185) C      IS THIS THE MONTH OF FEBRUARY
(1186)       IF(ICURR(2).NE.2) GOTO 550
(1187) C      IS THIS A LEAP YEAR, YES DEDUCT TWO (2) DAYS
(1188) C      NO DEDUCT THREE (3) DAYS
(1189)       IF(ICURR(1)/4.NE.ICURR(1)/4.) IDIFF(3)=IDIFF(3)-1
(1190)       IDIFF(3)=IDIFF(3)-2
```

(1192) C IS THIS ACTION DATE WITHIN 5 DAYS DUE  
(1192) 550 IF(IDIFF(3).GE.6) GOTO 100  
(1193) GO TO 150  
(1194) C CLOSE THE ACTION DUE SUBFILE  
(1195) 200 CALL SRCH\$\$ (K\$CLOS,\*ACTD \*.6,0,0,0)  
(1196) C WERE THERE ANY ACTION DUE DOCUMENTS FOUND  
(1197) IF(KNT.EQ.0) GO TO 300  
(1198) WRITE(1,400)  
(1199) 400 FORMAT(\* '/')  
(1200) C DISPLAY THE NUMBER OF DOCUMENTS FOUND  
(1201) WRITE(1,201)KNT  
(1202) 201 FORMAT(\* THERE ARE\*I10\* DOCUMENTS AWAITING ACTION\*//)  
(1203) C CLOSE ALL OPEN WORKING FILES  
(1204) 202 CALL SRCH\$\$ (K\$CLOS,\*OUT \*.6,0,0,0)  
(1205) CALL SRCH\$\$ (K\$CLOS,\*DATE \*.6,0,0,0)  
(1206) CALL SRCH\$\$ (K\$CLOS,\*REVS \*.6,0,0,0)  
(1207) C SPOOL THE OUTPUT FILE TO THE PRINTER FOR HARD COPY  
(1208) CALL COMISS(\*SOUT\*,4,12,IC)  
(1209) CALL EXIT  
(1210) C DISPLAY A NO DOCUMENT FOUND MESSAGE  
(1211) 300 WRITE(1,301)  
(1212) 301 FORMAT(\* THERE ARE NO DOCUMENTS AWAITING ACTION\*//)  
(1213) RETURN  
(1214) END

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ADAT	R	000000	1093S							
ADD	I /BLK/	000163	1096S	1130M	1134	1135	1136	1163	1172	
ATHR	J /ELK/	000001	1096S	1130M	1163	1172				
BREAKS	R EXTERNAL	000000	1118							
COMISS	R EXTERNAL	000000	1208							
CGN	J /BLK/	002731	1096S							
CONT	J /ELK/	000151	1096S							
COUNT	J /FLK/	002727	1096S	1130M						
CWA	I /FLK/	000145	1096S							
D	I /SRC/	000136	1096S	1098S						
DA	J /SPC/	000003	1096S							
DD	I /ELK/	000017	1096S							
DDO	I /SRC/	000021	1096S							
DDT	J /ELK/	000304	1096S							
DL	J /SRC/	000044	1096S							
DLN	J /BLK/	000042	1096S	1130M						
DM	I /SRC/	000002	1096S							
DRE	J /SRC/	000171	1096S							
DT	J /SRC/	000157	1096S							
DTJ	D	000000	1096S	1100S						
DTC	J /SRC/	000024	1096S							
DW	J /SRC/	000145	1096S							
EXIT	R EXTERNAL	000000	1209							
FSC	J /ELK/	000262	1096S	1130M						
FVD	I /SRC/	000203	1096S							
HARDHD	R EXTERNAL	000000	1168							
HARDPT	R EXTERNAL	000000	1171							
IACT	I	000002	1098S	1140M	1141M	1142M	1145	1146	1147	
IANK	I /FLA/	000003	1096S							
IC	I	001340	1128A	1208A						
ICURR	I	000005	1098S	1125M	1126M	1127M	1145	1146	1147	
			1183	1186	1189					
ID	I	001341	1098S	1121M	1127	1135M	1138	1142		
IDD	I /BLK/	000142	1096S	1130M						
IDIFF	I	000010	1098S	1145M	1146M	1147M	1149	1150	1151	
			1152	1181M	1183M	1189M	1190M	1192		
IEX	J /SRC/	000211	1096S							
IM	I	001342	1098S	1121M	1126	1134M	1138	1141		



IMELE	I /FLA/	000001	1096S						
IMIS	I /FLA/	000005	1096S						
IOPT	I	001343	1099S	1114M	1116	1131			
IPAGE	I	001344	1099S	1104M	1155	1158M			
IPR	I /FLA/	000004	1096S						
IPRINT	I	001345	1099S	1106M	1166	1170M	1175M		
IREAD	I /FLA/	000006	1096S						
IT	J /SRC/	000056	1096S						
ITEM	I	001346	1157M	1160A	1162A	1168A	1171A		
ITRSP	I /FLA/	000000	1096S						
ITWFX	I /FLA/	000002	1096S						
IY	I	001347	1098S	1121M	1125	1136M	1138	1140	
KSALLD	I PARAMETER		1097S						
KSACC	I PARAMETER		1097S						
KSCLDS	I PARAMETER		1097S	1195	1204	1205	1206		
KSCONV	I PARAMETER		1097S						
KScurr	I PARAMETER		1097S						
KSDELE	I PARAMETER		1097S						
KSdMPB	I PARAMETER		1097S						
KSOTIM	I PARAMETER		1097S						
KSENTR	I	000000	1097S						
KSXST	I PARAMETER		1097S						
KSgOND	I PARAMETER		1097S						
KSgPOS	I PARAMETER		1097S						
KSHOME	I PARAMETER		1097S						
KSICUR	I PARAMETER		1097S						
KSIMFD	I PARAMETER		1097S						
KSIRTN	I PARAMETER		1097S						
KSISEG	I PARAMETER		1097S						
KSIUFD	I PARAMETER		1097S						
KSMENT	I	000000	1097S						
KSMSIZ	I PARAMETER		1097S						
KSrvNT	I PARAMETER		1097S						
KSNDAM	I PARAMETER		1097S	1128					
KSnrTN	I PARAMETER		1097S						
KSNSAM	I PARAMETER		1097S						
KSNSGC	I PARAMETER		1097S						
KSNSGS	I PARAMETER		1097S						

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KSPUSA	I	PARAMETER	1097S				
KSPUSN	I	PARAMETER	1097S				
KSPOSR	I	PARAMETER	1097S				
KSPREA	I	PARAMETER	1097S				
KSPFRER	I	PARAMETER	1097S				
KSPROT	I	PARAMETER	1097S				
KSRDWR	I	PARAMETER	1097S	1128			
KSREAD	I	PARAMETER	1097S				
KSRPOS	I	PARAMETER	1097S				
KRSUB	I	PARAMETER	1097S				
KSRWLK	I	PARAMETER	1097S				
KSENT	I	000000	1097S				
KSETC	I	PARAMETER	1097S				
KSETH	I	PARAMETER	1097S				
KSPPOS	I	PARAMETER	1097S				
KSPTN	I	PARAMETER	1097S				
KSTPNC	I	PARAMETER	1097S				
KSUPOS	I	PARAMETER	1097S				
KSWRIT	I	PARAMETER	1097S				
KNT	J	/SRC/ 000000	1096S	1102M	1175	1197	1201
LVD	I	/SRC/ 000206	1096S				
M	I	000000	1098S				
MS	I	/BLK/ 000000	1096S				
NRE	J	/BLK/ 000276	1096S	1130M	1163	1172	
PTIT	J	/BLK/ 002661	1096S	1130M			
R	I	/BLK/ 002660	1096S				
ROUT	J	/BLK/ 000126	1096S				
SCRNHD	R	EXTERNAL 000000	1160				
SCRNPT	R	EXTERNAL 000000	1162				
SRCHSS	R	EXTERNAL 000000	1128	1195	1204	1205	1206
SUB	J	/BLK/ 000054	1096S				
T	J	000013	1096S				
TF	D	000000	1096S				
TFVD	D	/SRC/ 000173	1096S				
TIM	D	000000	1096S				
TIT	J	000065	1096S				
TJ	D	000000	1096S				
TJUL	D	000000	1096S				

TL	D	000000	1096S						
TLVD	D /SRC/	000177	1096S						
TO	J /PLK/	000022	1096S						
TWX	J /PLK/	000166	1096S						
WA	I /SRC/	000141	1096S						
Y	I	000000	1096S						
1		000164	1107	1108D					
10		000255	1110	1111D					
100		000511	1130D	1138	1149	1150	1151	1176	1192
1111		000453	1121	1122D					
15		000411	1114	1115D					
150		000677	1131	1155D	1193				
160		000713	1155	1162D					
170		000765	1166	1171D					
200		001154	1130	1195D					
2000		000732	1163	1164D					
2001		001005	1172	1173D					
201		001213	1201	1202D					
202		001243	1204D						
300		001302	1197	1211D					
301		001306	1211	1212D					
400		001200	1198	1199D					
5		000251	1110D	1114	1116				
500		001054	1152	1181D					
550		001147	1186	1192D					
99		000553	1134D						

0000 ERRORS [ADAT >FTN-REV14.2]

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(1215) SUBROUTINE DATC  
(1216) C THIS SUBROUTINE PERFORMS THE INPUT DOCUMENT DATE SEARCH  
(1217) C  
(1217) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(1217) C  
(1217) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(1217) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(1217) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
(1217) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(1217) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(1217) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(1217) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
(1217) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(1217) INTEGER\*2 MS,DD(3),ICD(3),ADD(3),R,CWA(4),WA(4)  
(1217) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(1217) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
(1217) INTEGER\*4 DRF,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(1217) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(1218) INTEGER\*2 IPAGE,IPRINT  
(1219) C INITIALIZE THE FOUND COUNTER  
(1220) KNT=0  
(1221) C INITIALIZE THE FIRST FOUND FLAG  
(1222) IPAGE=0  
(1223) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
(1224) IPRINT=0  
(1225) WRITE(1,11)  
(1226) 11 FORMAT(' INPUT DATA DATE SEARCH ROUTINE ',/,  
(1227) 1 ' WHAT IS THE DATE THAT YOU WANT',/, 'MMDDYY'//)  
(1228) READ(1,22,ERR=11)0  
(1229) 22 FORMAT(3I2)  
(1230) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
(1231) 100 CALL RDSUB  
(1232) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
(1233) IF(IREAD.EQ.1) GOTO 200  
(1234) C  
(1235) C FIND THE DESIRED INPUT DATE OR DATES  
(1236) C  
(1237) IF(D(1).EQ.0 .OR. D(1).EQ.IDD(1)) GOTO 110

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(1238)      GO TO 100
(1239) 110  IF(D(2).EQ.0 .OR. D(2).EQ.IDD(2)) GOTO 120
(1240)      GO TO 100
(1241) 120  IF(D(3).EQ.0 .OR. D(3).EQ.IDD(3)) GOTO 150
(1242)      GO TO 100
(1243) C    AN INPUT DATE WAS FOUND AND MATCHED
(1244) C    IS THIS THE FIRST RECORD FOUND
(1245) 150  IF(IPAGE.NE.0) GOTO 160
(1246) C SET UP FOR THE RECORD DISPLAY
(1247)      ITEM=8
(1248)      IPAGE=1
(1249) C    DISPLAY HEADING FOR INPUT DATE ON THE TERMINAL
(1250)      CALL SCRINH(D(ITEM))
(1251) C    DISPLAY THE RECORD FOUND ON THE USER TERMINAL
(1252) 160  CALL SCRNP(D(ITEM))
(1253) C    IS THIS THE TOP OF PRINTER PAGE
(1254)      IF(IPRINT.NE.0) GOTO 170
(1255) C    PRINT HEADING FOR INPUT DATE ON PRINTER
(1256)      CALL HARDHD(D(ITEM))
(1257)      IPRINT=1
(1258) C    PRINT RECORD FOUND ON PRINTER
(1259) 170  CALL HARDPT(D(ITEM))
(1260) C    IS THIS BOTTOM OF PRINTER PAGE, YES SET TOP OF PAGE FLAG
(1261) 190  IF(KNT/14.EQ.KNT/14.) IPRINT=0
(1262)      GO TO 100
(1263) C    DISPLAY THE NUMBER OF DOCUMENTS FOUND
(1264) 200  WRITE(1,300)
(1265) 300  FORMAT(' /)
(1266)      WRITE(1,250)KNT,D
(1267) 250  FORMAT(' THERE ARE *I9* DOCUMENTS WITH A DATE OF *2(I2*-*),I2)
(1268)      RETURN
(1269)      END
```

## SUBROUTINE DATC

PAGE 0102

ADD	I	/BLK/	000163	1217S					
ATHR	J	/ELK/	000001	1217S					
CON	J	/ELK/	002731	1217S					
CONT	J	/ELK/	000151	1217S					
COUNT	J	/ELK/	002727	1217S					
CWA	I	/ELK/	000145	1217S					
D	I	/SRC/	000136	1217S	1228M	1237	1239	1241	1266
DA	J	/SRC/	000003	1217S					
DATC	R		000000	1218S					
DD	I	/FLK/	000017	1217S					
DDD	I	/SRC/	000021	1217S					
DDT	J	/FLK/	000304	1217S					
DL	J	/SRC/	000044	1217S					
DLN	J	/FLK/	000042	1217S					
DM	I	/SRC/	000002	1217S					
DRE	J	/SRC/	000171	1217S					
DT	J	/SRC/	000157	1217S					
DTJ	D		000000	1217S					
DTO	J	/SRC/	000024	1217S					
DW	J	/SRC/	000145	1217S					
FSC	J	/ELK/	000262	1217S					
FVD	I	/SRC/	000203	1217S					
HARDHD	R	EXTERNAL	000000	1256					
HARDPT	R	EXTERNAL	000000	1256					
IANN	I	/FLA/	000003	1217S					
IDD	I	/BLK/	000142	1217S	1237	1239	1241		
IEX	J	/SRC/	000211	1217S					
IMELE	I	/FLA/	000001	1217S					
IMIS	I	/FLA/	000005	1217S					
IPAGE	I		000456	1218S	1222M	1245	1248M		
IPR	I	/FLA/	000004	1217S					
IPRINT	I		000457	1218S	1224M	1254	1257M	1261M	
IREAD	I	/FLA/	000006	1217S	1233				
IT	J	/SRC/	000056	1217S					
ITEM	I		000460	1247M	1250A	1252A	1256A	1259A	
ITRSP	I	/FLA/	000000	1217S					
ITWFX	I	/FLA/	000002	1217S					
KNT	J	/SRC/	000000	1217S	1220M	1261	1266		

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LVD	I	/SRC/	000206	1217S				
MS	I	/BLK/	000000	1217S				
NRE	J	/BLK/	000276	1217S				
PTIT	J	/BLK/	002661	1217S				
R	I	/BLK/	002660	1217S				
RDSUB	R	EXTERNAL	000000	1231				
ROUT	J	/ELK/	000126	1217S				
SCRNHD	R	EXTERNAL	000000	1250				
SCRNPT	R	EXTERNAL	000000	1252				
SUB	J	/BLK/	000054	1217S				
T	J		000002	1217S				
TF	D		000000	1217S				
TFVD	D	/SRC/	000173	1217S				
TIM	D		000000	1217S				
TIT	J		000054	1217S				
TJ	D		000000	1217S				
TJUL	D		000000	1217S				
TL	D		000000	1217S				
TLVD	D	/SRC/	000177	1217S				
TO	J	/BLK/	000022	1217S				
TWX	J	/ELK/	000166	1217S				
WA	I	/SRC/	000141	1217S				
_100			000243	1231D	1238	1240	1242	1262
_11			000153	1225	1226D	1228		
_110			000267	1237	1239D			
_120			000304	1239	1241D			
_150			000321	1241	1245D			
_160			000334	1245	1252D			
_170			000345	1254	1259D			
_190			000347	1261D				
_200			000375	1233	1264D			
_22			000237	1228	1229D			
_25C			000417	1266	1267D			
_300			000401	1264	1265D			

0000 ERRORS [ &lt;DATC &gt;FTN-REV14.2 ]

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(1270) SUBROUTINE DDAT
(1271) C THIS SUBROUTINE PERFORMS THE DOCUMENT DATE SEARCH
(1272) C
(1272) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE
(1272) C
(1272) COMMON/BLK/ MS,ATHR,DD,TO,OLN,SUB,ROUT,IDD,CWA,CONT,
(1272) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON
(1272) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE
(1272) 1 ,TFVD,TLVD,FVD,LVD,IEX
(1272) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD
(1272) INTEGER*4 ATHR(7),TO(8),OLN(5),SUB(21),ROUT(6),PTIT(19),
(1272) 1 CGN(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)
(1272) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)
(1272) INTEGER*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)
(1272) INTEGER*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD
(1272) INTEGER*2 FVD(3),LVD(3),D(3),D%,DDD(3)
(1272) INTEGER*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT
(1272) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ
(1273) INTEGER*2 IPAGE,IPRINT
(1274) C INITIALIZE FOUND COUNTER
(1275) KNT=0
(1276) C INITIALIZE THE FIRST FOUND FLAG
(1277) IPAGE=0
(1278) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(1279) IPRINT=0
(1280) WRITE(1,11)
(1281) 11 FORMAT(* DOCUMENT DATE SEARCH ROUTINE */,/
(1282) 1* WHAT IS THE DATE THAT YOU WANT*/,/,*MMDYY*/)
(1283) READ(1,22,ERR=11)DDD
(1284) 22 FORMAT(3I2)
(1285) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE
(1286) 100 CALL RDSUB
(1287) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES
(1288) IF(IREAD.EQ.1) GOTO 200
(1289) IF(DDD(1).EQ.0 .OR. DDD(1).EQ.DD(1)) GOTO 110
(1290) GO TO 100
(1291) 110 IF(DDD(2).EQ.0 .OR. DDD(2).EQ.DD(2)) GOTO 120
(1292) GO TO 100

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(1293) 120  IF(DDD(3).EQ.0 .OR. DDD(3).EQ.DD(3)) GOTO 150
(1294)      GO TO 100
(1295)  C    IS THIS THE FIRST RECORD FOUND
(1296) 150  IF(IPAGE.NE.0) GOTO 160
(1297)  C    SET UP FOR HEADING DISPLAY
(1298)      ITEM=3
(1299)      IPAGE=1
(1300)  C    DISPLAY HEADING FOR DOCUMENT DATE ON USER TERMINAL
(1301)      CALL SCRNDH(ITEM)
(1302)  C    DISPLAY RECORD FOUND ON USER TERMINAL SCREEN
(1303) 160  CALL SCRNP(ITEM)
(1304)  C    IS THIS FOR TOP OF PRINTER PAGE
(1305)      IF(IPRINT.NE.0) GOTO 170
(1306)  C    PRINT HLADING FOR DOCUMENT DATE ON PRINTER
(1307)      CALL HARDH(ITEM)
(1308)      IPRINT=1
(1309)  C    PRINT RECORD FOUND ON PRINTER
(1310) 170  CALL HARDPT(ITEM)
(1311)  C    IS THIS BOTTOM OF PRINTER PAGE, YES SET TOP OF PRINTER PAGE FLAG
(1312) 190  IF(KNT/14.EQ.KNT/14.) IPRINT=0
(1313)      GO TO 100
(1314)  C    DISPLAY THE NUMBER OF DOCUMENTS FOUND
(1315) 200  WRITE(1,300)
(1316) 300  FORMAT(' /)
(1317)      WRITE(1,250)KNT,DDD
(1318) 250  FORMAT(' THERE ARE *I9* DOCUMENTS WITH A DOCUMENT DATE OF *2(12,
(1319)      1 *-'),I2/)
(1320)      RETURN
(1321)      END
```

ADD	I	/PLK/	000163	1272S					
ATHR	J	/BLK/	000001	1272S					
CON	J	/PLK/	002731	1272S					
CONT	J	/BLK/	000151	1272S					
COUNT	J	/BLK/	002727	1272S					
CWA	I	/BLK/	000145	1272S					
D	I	/SRC/	000136	1272S					
DA	J	/SRC/	000003	1272S					
DD	I	/ELK/	000017	1272S	1289	1291	1293		
DDAT	R		000000	1270S					
DDD	I	/SRC/	000021	1272S	1283M	1289	1291	1293	1317
DDT	J	/ELK/	000304	1272S					
DL	J	/SRC/	000044	1272S					
DLN	J	/BLK/	000042	1272S					
DM	I	/SRC/	000002	1272S					
DRE	J	/SRC/	000171	1272S					
DT	J	/SRC/	000157	1272S					
DTJ	D		000000	1272S					
DTO	J	/SRC/	000024	1272S					
DW	J	/SRC/	000145	1272S					
FSC	J	/ELK/	000262	1272S					
FVD	I	/SRC/	000203	1272S					
HARDHD	R	EXTERNAL	000000	1307					
HAROPT	R	EXTERNAL	000000	1310					
IANN	I	/FLA/	000003	1272S					
IDD	I	/ELK/	000142	1272S					
IEX	J	/SRC/	000211	1272S					
IMELE	I	/FLA/	000001	1272S					
IMIS	I	/FLA/	000005	1272S					
IPAGE	I		000463	1273S	1277M	1296	1299M		
IPK	I	/FLA/	000004	1272S					
IPRINT	I		000464	1273S	1279M	1305	1308M	1312M	
IREAD	I	/FLA/	000006	1272S	1288				
IT	J	/SRC/	000056	1272S					
ITEM	I		000465	1298M	1301A	1303A	1307A	1310A	
ITRSP	I	/FLA/	000000	1272S					
ITWFX	I	/FLA/	000002	1272S					
KNT	J	/SRC/	000000	1272S	1275M	1312	1317		

LVD	I /SRC/	000206	1272S				
MS	I /BLK/	000000	1272S				
NRE	J /BLK/	000276	1272S				
PTIT	J /BLK/	002661	1272S				
R	I /BLK/	002660	1272S				
RDSUB	R EXTERNAL	000000	1286				
ROUT	J /BLK/	000126	1272S				
SCRNHD	R EXTERNAL	000000	1301				
SCRNPT	R EXTERNAL	000000	1303				
SUB	J /BLK/	000054	1272S				
T	J	000002	1272S				
TF	D	000000	1272S				
TFVD	D /SRC/	000173	1272S				
TIM	D	000000	1272S				
TIT	J	000054	1272S				
TJ	D	000000	1272S				
TJUL	D	000000	1272S				
TL	D	000000	1272S				
TLVD	D /SRC/	000177	1272S				
TO	J /BLK/	000022	1272S				
WX	J /BLK/	000166	1272S				
WA	I /SRC/	000141	1272S				
_100		000242	1286D	1290	1292	1294	1313
_11		000153	1280	1281D	1283		
_110		000266	1289	1291D			
_120		000303	1291	1293D			
_150		000320	1293	1296D			
_160		000333	1296	1303D			
_170		000344	1305	1310D			
_150		000346	1312D				
_200		000374	1280	1315D			
_22		000236	1283	1284D			
_250		000416	1317	1318D			
_300		000400	1315	1316D			

0000 ERRORS [ <DDAT >FTN-REV14.2 ]

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(1322) SUBROUTINE WHO  
(1323) C THIS SUBROUTINE PERFORMS THE SEARCH FOR WHO THE  
(1324) C DOCUMENT WAS SENT TO, THE ADDRESSEE.  
(1325) C  
(1325) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(1325) C  
(1325) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(1325) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(1325) COMMON/SRC/ KNT,DM,DA,DD,DTO,DL,IT,D,WA,DW,DT,DRE  
(1325) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(1325) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(1325) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(1325) 1 COM(5),TWX(6,5),FSC(5),NRF(1,3),DDT(30,21),T(21)  
(1325) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(1325) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(1325) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(1325) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DD(3)  
(1325) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(1325) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(1326) INTEGER\*2 IPAGE,IPRINT  
(1327) C INITIALIZE FOUND COUNTER  
(1328) KNT=0  
(1329) C INITIALIZE THE FIRST FOUND FLAG  
(1330) IPAGE=0  
(1331) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
(1332) IPRINT=0  
(1333) 3 WRITE(1,1)  
(1334) 1 FORMAT(' THIS IS THE WHO TO / ADDRESSEE SEARCH',/),  
(1335) 1 ' \* WHAT IS THE DESIRED ADDRESSEE',/)  
(1336) READ(1,2,ERR=3)DTO  
(1337) 2 FORMAT(6A4)  
(1338) WRITE(1,2)DTO  
(1339) C READ DOCUMENT RECORD OF THE APPROPRIATE SUB-FILE  
(1340) 100 CALL RDSUB  
(1341) C IS THE SEARCH COMPLETED ON ALL SELECTED SUB-FILES  
(1342) IF(IREAD.EQ.1) GOTO 200  
(1343) IM=IDD(1)  
(1344) IO=IDD(2)

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(1345)      IY=IDD(3)
(1346)      CALL JTIME(IY,IM,JD,0,0,0,TIM)
(1347)      IF(TFVD.LE.TIM .AND. TIM.LE.TLVD) GOTO 890
(1348)      GO TO 100
(1349) 890   CONTINUE
(1350)      DO 101 I=1,P
(1351)      IF(TO(I).NE.DTO(I)) GOTO 100
(1352) 101   CONTINUE
(1353) C     WHO THE DOCUMENT WAS SENT TO IS FOUND
(1354) C     IS THIS THE FIRST RECORD FOUND
(1355)      IF(IPAGE.NE.0) GOTO 160
(1356) C     SET UP FOR HEADING DISPLAY
(1357)      ITEM=4
(1358)      IPAGE=1
(1359) C     DISPLAY *WHO TO* HEADING ON USFR TERMINAL SCREEN
(1360)      CALL SCRHD(ITEM)
(1361) C     DISPLAY RECORD FOUND ON USER TERMINAL
(1362) 160   CALL SCRNP(ITEM)
(1363) C     IS THIS FOR TOP OF PRINTER PAGE
(1364)      IF(IPRINT.NE.0) GOTO 170
(1365) C     PRINT WHO TO HEADING ON PRINTER
(1366)      CALL HARHD(ITEM)
(1367)      IPRINT=1
(1368) C     PRINT RECORD FOUND ON PRINTER
(1369) 170   CALL HARPT(ITEM)
(1370) C     IS THIS THE BOTTOM OF THE PRINTER PAGE,
(1371) C     YES, SET TOP OF PRINTER PAGE FLAG
(1372) 190   IF(KNT/14.EQ.KNT/14.) IPRINT=0
(1373)      GO TO 100
(1374) C     DISPLAY NUMBER OF DOCUMENTS FOUND
(1375) 200   WRITE(1,300)
(1376) 300   FORMAT(* */)
(1377)      WRITE(1,250)KNT,DTO
(1378) 250   FORMAT(* THERE ARE *IS* DOCUMENTS WITH AN ADDRESSEE OF */,
(1379)      1 8A4/)
(1380)      RETURN
(1381)      END
```

ADD	I /BLK/	000163	1325S				
ATHR	J /BLK/	000001	1325S				
CON	J /BLK/	002731	1325S				
CCNT	J /BLK/	000151	1325S				
COUNT	J /BLK/	002727	1325S				
CWA	I /PLK/	000145	1325S				
D	I /SRC/	000136	1325S				
DA	J /SRC/	000003	1325S				
DD	I /BLK/	000017	1325S				
DDD	I /SRC/	000021	1325S				
DDT	J /BLK/	000304	1325S				
DL	J /SRC/	000044	1325S				
DLN	J /BLK/	000042	1325S				
DM	I /SRC/	000002	1325S				
DRE	J /SRC/	000171	1325S				
DT	J /SRC/	000157	1325S				
DTJ	D	000000	1325S				
DTO	J /SRC/	000024	1325S	1336M	1338	1351	1377
DW	J /SRC/	000145	1325S				
FSC	J /BLK/	000262	1325S				
FVG	I /SRC/	000203	1325S				
HARDHD	R EXTERNAL	000000	1366				
HARDPT	R EXTERNAL	000000	1369				
I	I	000515	1350M	1351			
IANN	I /FLA/	000003	1325S				
ID	I	000517	1344M	1346A			
IGD	I /BLK/	000142	1325S	1343	1344	1345	
IEX	J /SRC/	000211	1325S				
IM	I	000520	1343M	1346A			
IMELE	I /FLA/	000001	1325S				
IMIS	I /FLA/	000005	1325S				
IFAGE	I	000521	1326S	1330M	1355	1358M	
IPR	I /FLA/	000004	1325S				
IPRINT	I	000522	1326S	1332M	1364	1367M	1372M
IREAD	I /FLA/	000006	1325S	1342			
IT	J /SRC/	000056	1325S				
ITEM	I	000523	1357M	1360A	1362A	1366A	1369A
ITRSP	I /FLA/	000000	1325S				

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ITWFX	I	/FLA/	000002	1325S			
IY	I		000524	1345M	1346A		
JTIME	I	EXTERNAL	000000	1346			
KNT	J	/SRC/	000000	1325S	1328M	1372	1377
LVD	I	/SRC/	000206	1325S			
MS	I	/BLK/	000000	1325S			
NRE	J	/BLK/	000276	1325S			
PTIT	J	/BLK/	002661	1325S			
R	I	/BLK/	002660	1325S			
RDSUB	R	EXTERNAL	000000	1340			
RCUT	J	/BLK/	000126	1325S			
SCRNH0	R	EXTERNAL	000000	1360			
SCRNPT	R	EXTERNAL	000000	1362			
SUB	J	/BLK/	000054	1325S			
T	J		000002	1325S			
TF	D		000000	1325S			
TFVD	D	/SRC/	000173	1325S	1347		
TIM	D		000530	1325S	1346A	1347	
TIT	J		000054	1325S			
TJ	D		000000	1325S			
TJUL	D		000000	1325S			
TL	D		000000	1325S			
TLVD	D	/SRC/	000177	1325S	1347		
TO	J	/BLK/	000022	1325S	1351		
TWX	J	/BLK/	000166	1325S			
WA	I	/SRC/	000141	1325S			
WHO	R		000000	1322S			

_1			000153	1333	13340		
_100			000250	13400	1348	1351	1373
_101			000350	1350	13520		
_160			000372	1355	13620		
_170			000403	1364	13690		
_190			000405	13720			
_2			000235	1336	13370	1338	
_200			000433	1342	13750		
_250			000455	1377	13780		
_3			000146	13330	1336		

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SUBROUTINE WHO

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300	000437	1375	13760
890	000325	1347	13490

0000 ERRORS [<WHO. >FTN-REV14.2]

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(1382) SUBROUTINE CKIR(IR,I)  
(1383) C THIS SUBROUTINE PERFORMS A CHECK AND WARNING FUNCTION  
(1384) C TO THE USER IF A REVISE OF THE MAIL STATUS ITEM IS REQUESTED  
(1385) C  
(1386) INTEGER\*2 IR,I,IAN  
(1387) C IS THIS A MAIL STATUS REQUEST  
(1388) IF(IR.EQ.1) GO TO 100  
(1389) C SET LEGAL REVISE FLAG  
(1390) 50 I=1  
(1391) RETURN  
(1392) C DISPLAY WARNING TO USER TERMINAL  
(1393) C MAIL STATUS IS CHECKED IN EVERY STEP OF INPUT FOR VALIDITY  
(1394) C THUS THE CONCERN FOR A REVISE OF THE FOLLOWING DATA FIELD  
(1395) C  
(1396) 100 WRITE(1,101)  
(1397) 101 FORMAT(\* PLEASE CHECK TO MAKE SURE THAT YOU WISH TO REVISE \*,/,  
(1398) 1\* THE MAIL STATUS ITEM. IF CERTAIN ENTER YES\*,/,  
(1399) 1\* ELSE NO\*/)  
(1400) READ(1,10) IAN  
(1401) 10. FORMAT(1A2)  
(1402) IF(IAN.EQ.\*YE\*) GOTO 50  
(1403) IF(IAN.NE.\*NO\*) GOTO 100  
(1404) C USER HAS RECONSIDERED REQUEST: CLEAR LEGAL REVISE FLAG  
(1405) I=0  
(1406) RETURN  
(1407) END

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SUBROUTINE CKIR(IR,I)

PAGE 0114

CKIR	R	000000	1382S				
I	I ARGUMENT	000004	1382S	1386S	1390M	1405M	
IAN	I	000167	1386S	1400M	1402	1403	
IR	I ARGUMENT	000003	1382S	1386S	1388		
10		000146	1400	1401D			
100		000015	1388	1396D	1403		
101		000021	1396	1397D			
150		000012	1390D	1402			

0000 ERRORS [ <<CKIR >FTN-REV14.2 ]

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(1408)      SUBROUTINE INPSC
(1409)  C
(1409)  C      DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE
(1409)  C
(1409)      COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,
(1409)  1      ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON
(1409)      COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE
(1409)  1      ,TFVD,TLVD,FVD,LVD,IEX
(1409)      COMMON/FLA/ ITRSP,IMELF,ITWFX,IANN,IPR,IMIS,IREAD
(1409)      INTEGER*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),
(1409)  1      CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)
(1409)  1      ,TIT(24),COUNT,CONT(5),IFX(4,3)
(1409)      INTEGER*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)
(1409)      INTEGER*2 ITRSP,IMELF,ITWFX,IANN,IPR,IMIS,IREAD
(1409)      INTEGER*2 FVD(3),LVD(3),D(3),D*,DDD(3)
(1409)      INTEGER*4 DFF,D1(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT
(1409)      DOUBLE PRECISION DTJ,TI,TL,TJUL,TFVD,TLVD,TIM,TJ
(1410)      INTEGER*2 IR,I,J,II,III
(1411)      INTEGER*4 APRAY(4),BLNK
(1412)      INTEGER*2 BUF(76),IQPT
(1413)  C
(1414)  C      THIS ROUTINE PROVIDES THE BASIC I/O FOR THE INPUT/REVISE ROUTINES
(1415)  C
(1416)      IF(R.EQ.0) GO TO 100
(1417)  2      WRITE(1,1)
(1418)  1      FORMAT(* HOW MANY ITEMS DO YOU WISH TO REVISE (MAX OF 14)*,/)
(1419)      READ(1,10,ERR=2)IKNT
(1420)  10     FORMAT(I3)
(1421)      IF(IKNT.LT.0) GO TO 2
(1422)      IF(IKNT.GT.14) GO TO 2
(1423)      DO 9999 LP=1,IKNT,1
(1424)  5      WRITE(1,3)
(1425)  3      FORMAT(* INPUT THE ITEM NUMBER THAT YOU WISH TO REVISE*,/)
(1426)      READ(1,10,ERR=5)IR
(1427)      CALL CKIR(IR,1)
(1428)      IF(1.GT.0) GO TO 100
(1429)      GO TO 5
(1430)  C

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(1431) C BEGIN INPUT  
(1432) C  
(1433) 100 IF(R.EQ.1.AND.IR.NE.1) GO TO 200  
(1434) 103 WRITE(1,101)  
(1435) 101 FORMAT(  
(1436) 1\* (1) MAIL STATUS - (VC) VOUGHT CORRESPONDENCE\*,/,  
(1437) 1\* (IM) INCOMING MAIL\*,/,  
(1438) 1\* (OM) OUTGOING MAIL\*,/  
(1439) 1\*! !\*,/)  
(1440) READ(1,104,ERR=103)MS  
(1441) IF(MS.EQ.\*VC\*) GO TO 105  
(1442) IF(MS.EQ.\*IM\*) GO TO 105  
(1443) IF(MS.EQ.\*OM\*) GO TO 105  
(1444) WRITE(1,106)MS  
(1445) 106 FORMAT(\*66THE MAIL STATUS CODE YOU HAVE ENTERED (\*A2,  
(1446) 1\* IS NOT VALID - TRY AGAIN\*/)  
(1447) GO TO 103  
(1448) 104 FORMAT(1X,A2)  
(1449) 105 WRITE(1,104)MS  
(1450) 200 IF(R.EQ.1.AND.IR.NE.2) GO TO 300  
(1451) 201 WRITE(1,202)  
(1452) 202 FORMAT(\* (2) AUTHOR/SOURCE\*,/  
(1453) 1\*!\*,28X,\*!\*/)  
(1454) READ(1,203,ERR=201)ATHR  
(1455) WRITE(1,203)ATHR  
(1456) 203 FORMAT(1X,7A4)  
(1457) 300 IF(R.EQ.1.AND.IR.NE.3) GO TO 400  
(1458) 301 WRITE(1,302)  
(1459) 302 FORMAT(\* (3) DOCUMENT DATE \*,/,\*!MMDDYY!\*/)  
(1460) READ(1,303,ERR=301)DD  
(1461) 303 FORMAT(1X,3I2)  
(1462) IF(DD(1).GT.12) GO TO 301  
(1463) IF(DD(2).GT.31) GO TO 301  
(1464) WRITE(1,303)DD  
(1465) 400 IF(R.EQ.1.AND.IR.NE.4) GO TO 500  
(1466) 401 WRITE(1,402)  
(1467) 402 FORMAT(\* (4) TO \*,/,\*!\*32X,\*!\*/)  
(1468) READ(1,403,ERR=401)TO

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(1469) 403 FORMAT(1X,8A4)  
(1470) WRITE(1,403)TO  
(1471) 500 IF(R.EQ.1.AND.IR.NE.5) GO TO 600  
(1472) 501 WRITE(1,502)  
(1473) 502 FORMAT(\* (5) DOCUMENT/LETTER NUMBER\*,/,\*,\*,18X,\*,\*/)  
(1474) READ(1,503,FRR=501)DLN  
(1475) 503 FORMAT(1X,4A4,A2)  
(1476) WRITE(1,503) DLN  
(1477) 600 IF(R.EQ.1.AND.IR.NE.6) GO TO 700  
(1478) 601 WRITE(1,602)  
(1479) 602 FORMAT(\* (6) SUBJECT (7 WORDS - 10 CHAR/WORD)\*,/  
(1480) 1\*!,\*,76X,\*,\*/  
(1481) LEN=10  
(1482) CALL TINPUT(TIT,LEN)  
(1483) DO 610 IJ=1,21  
(1484) 610 SUB(IJ)=TIT(IJ)  
(1485) WRITE(1,603)SUB  
(1486) 603 FORMAT(7(1X,2A4,A2))  
(1487) 700 IF(R.EQ.1.AND.IR.NE.7) GO TO 800  
(1488) 701 WRITE(1,702)  
(1489) 702 FORMAT(\* (7) ROUTING\*,/,6(\*! !\*)/  
(1490) READ(1,703,ERR=701)ROUT  
(1491) 703 FORMAT(6(1X,A3,1X))  
(1492) WRITE(1,703) ROUT  
(1493) 800 IF(R.EQ.1.AND.IR.NE.8) GO TO 900  
(1494) 801 WRITE(1,802)  
(1495) 802 FORMAT(\* (8) INPUT DATA DATE\*,/,\*,\*MMDDYY!\*,/  
(1496) IF(R.EQ.0) GOTO 805  
(1497) READ(1,803,FRR=801)IDD  
(1498) 803 FORMAT(1X,3I2)  
(1499) GO TO 810  
(1500) 805 REWIND 10  
(1501) READ(10,803)IM,ID,IY  
(1502) IDD(1)=IM  
(1503) IDD(2)=ID  
(1504) IDD(3)=IY  
(1505) REWIND 10  
(1506) 810 WRITL(1,803) IDD

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(1507) 900 IF(R.EQ.1.AND.IR.NE.9) GO TO 950  
(1508) 901 WRITE(1,902)  
(1509) 902 FORMAT(\* (9) W.A. NUMBER / ID. CODE\*,//,  
(1510) 1\*!\*,8X,\*!\*/)  
(1511) READ(1,903,FRR=901)CWA  
(1512) 903 FORMAT(1X,4A2)  
(1513) WRITE(1,903)CWA  
(1514) CALL GETCON.  
(1515) IF(CON(1).NE.\* \*) GOTO 1001  
(1516) 909 WRITE(1,910)  
(1517) 910 FORMAT(\* IS THERE A CONTRACT NUMBER FOR THIS DOCUMENT (YES OR NO)\*  
(1518) 1 )  
(1519) READ(1,2300,ERR=909) IOPT  
(1520) IF(IOPT.EQ.\*YE\*) GOTO 951  
(1521) IF(IOPT.NE.\*NO\*) GOTO 909  
(1522) GO TO 1050  
(1523) 950 IF(R.EQ.1.AND.IR.NE.10) GOTO 1100  
(1524) 951 WRITE(1,952)  
(1525) 952 FORMAT(\* (10) CONTRACT NUMBER\*,//,\*!\*,20X,\*!\*/)  
(1526) READ(1,953,ERR=951) CONT  
(1527) 953 FORMAT(1X,5A4)  
(1528) WRITE(1,953)CONT  
(1529) GO TO 1100  
(1530) 1001 WRITE(1,1002)CON  
(1531) 1002 FORMAT(\* CONTRACT NUMBER \*,5A4)  
(1532) 1050 DO 1060 I=1,5  
(1533) CONT(I)=CON(I)  
(1534) 1060 CONTINUE  
(1535) 1100 IF(R.EQ.1.AND.IR.NE.11) GO TO 1200  
(1536) 1101 WRITE(1,1102)  
(1537) 1102 FORMAT(\* (11) ACTION ITEM DUE DATE\*,//,\*!MMDDYY!\*/)  
(1538) READ(1,1103,ERR=1101)ADD  
(1539) IF(ADD(1).GT.12) GO TO 1101  
(1540) IF(ADD(2).GT.31) GO TO 1101  
(1541) WRITE(1,1103)ADD  
(1542) 1103 FORMAT(1X,3I2)  
(1543) 1200 IF(R.EQ.1.AND.IR.NE.12) GO TO 1300  
(1544) 1202 WRITE(1,1204)

Pages B-121 thru B-122 missing from original

(1621) ARRAY(4)=BLNK  
(1622) CALL GETWRD(BUF,ARRAY,LEN)  
(1623) TIT(I)=ARRAY(1)  
(1624) TIT(I+1)=ARRAY(2)  
(1625) TIT(I+2)=ARRAY(3)  
(1626) TIT(I+3)=ARRAY(4)  
(1627) I=I+2  
(1628) 1531 CONTINUE  
(1629) WRITE(1,1506)(TIT(I),I=1,21)  
(1630) 1506 FORMAT(7(1X,2A4,A2))  
(1631) I18=21  
(1632) DO 1507 J=1,I18  
(1633) DDT(IJ,J)=  
(1634) DDT(IJ,J)=TIT(J)  
(1635) TIT(J)=  
(1636) 1507 CONTINUE  
(1637) 1504 CONTINUE  
(1638) 2200 CONTINUE  
(1639) F=1  
(1640) IR=0  
(1641) 9999 CONTINUE  
(1642) CALL SHOWC  
(1643) 2302 WRITE(1,2303)  
(1644) 2303 FORMAT(/,1H0,/, \* CHECK RECORD FOR ERRORS: IF CORRECT, ENTER COR\*,  
(1645) 1/,26X, \*IF REVISION NEEDED, ENTER REV\*/)  
(1646) READ(1,2300)IOPT  
(1647) 2300 FORMAT(1A2)  
(1648) IF(IOPT.EQ.\*RE\*) GOTO 2  
(1649) IF(IOPT.NE.\*CO\*) GOTO 2302  
(1650) C  
(1651) C END OF INPUT REVISE ITEMS AS OF 8/26/78  
(1652) C  
(1653) RETURN  
(1654) END

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ADD	I	/BLK/	000163	1409S	1538M	1539	1540	1541		
ARRAY	J		000002	1411S	1618M	1619M	1620M	1621M	1622A	1623
				1624	1625	1626				
ATHR	J	/BLK/	000001	1409S	1454M	1455				
BLNK	J		004027	1411S	1614M	1616	1618	1619	1620	1621
BUF	I		000012	1412S	1613A	1622A				
CKIR	R	EXTERNAL	000000	1427						
CON	J	/BLK/	002731	1409S	1515	1530	1533			
CONT	J	/BLK/	000151	1409S	1526M	1528	1533M			
COUNT	J	/BLK/	002727	1409S						
CWA	I	/BLK/	000145	1409S	1511M	1513				
D	I	/SRC/	000136	1409S						
DA	J	/SRC/	000003	1409S						
DD	I	/BLK/	000017	1409S	1460M	1462	1463	1464		
DDD	I	/SRC/	000021	1409S						
DDT	J	/BLK/	000304	1409S	1601M	1633M	1634M			
DL	J	/SRC/	000044	1409S						
DLN	J	/BLK/	000042	1409S	1474M	1476				
DM	I	/SRC/	000002	1409S						
DRE	J	/SRC/	000171	1409S						
DT	J	/SRC/	000157	1409S						
DTJ	D		000000	1409S						
DTO	J	/SRC/	000024	1409S						
DW	J	/SRC/	000145	1409S						
FSC	J	/BLK/	000262	1409S	1574M	1576				
FVD	I	/SRC/	000203	1409S						
GETCON	R	EXTERNAL	000000	1514						
GETWRD	R	EXTERNAL	000000	1622						
I	I		004031	1410S	1427A	1428	1532M	1533	1615M	1616
				1617M	1623	1624	1625	1626	1627M	1629M
I18	I		004034	1631M	1632					
IA	I		004035	1547M	1549					
IANN	I	/FLA/	000003	1409S						
IB	I		004036	1582M	1583					
IC	I		004037	1548M	1549					
ID	I		004040	1501M	1503					
IDD	I	/BLK/	000142	1409S	1497M	1502M	1503M	1504M	1506	
IEX	J	/SRC/	000211	1409S						

II	I	004041	1410S	1558M	1561	1562	1566M	1568		
III	I	000000	1410S							
IJ	I	004042	1483M	1484	1608M	1633	1634			
IK	I	004043	1599M	1601						
IKNT	I	004044	1419M	1421	1422	1423				
IL	I	004045	1600M	1601						
ILP	I	004046	1604M	1606	1607	1608				
IM	I	004047	1501M	1502						
IMELE	I /FLA/	000001	1409S							
IMIS	I /FLA/	000005	1409S							
INPSC	I	000000	1408S							
IOPT	I	004050	1412S	1519M	1520	1521	1646M	1648	1649	
IPR	I /FLA/	000004	1409S							
IR	I	004051	1410S	1426M	1427A	1433	1450	1457	1465	
			1471	1477	1487	1493	1507	1523	1535	
			1543	1571	1577	1595	1640M			
IREAD	I /FLA/	000006	1409S							
IT	J /SRC/	000056	1404S							
ITRSP	I /FLA/	000000	1409S							
ITWFX	I /FLA/	000002	1409S							
IY	I	004052	1501M	1504						
J	I	004053	1410S	1561M	1562M	1567M	1568	1592M	1593M	
			1632M	1633	1634	1635				
KNT	J /SRC/	000000	1409S							
LEN	I	004055	1481M	1482A	1609M	1622A				
LOOP1	I	004056	1546M	1552M	1554	1555	1558	1565	1581M	
			1585M	1587	1588					
LP	I	004057	1423M	1565M	1566					
LVD	I /SRC/	000206	1409S							
MS	I /FLK/	000000	1409S	1440M	1441	1442	1443	1444	1449	
NRE	J /BLK/	000276	1409S	1583M	1592M	1593				
PTIT	J /FLK/	002661	1409S							
R	I /BLK/	002660	1409S	1416	1433	1450	1457	1465	1471	
			1477	1487	1493	1496	1507	1523	1535	
			1543	1571	1577	1595	1639M			
RDCOM	R EXTERNAL	000000	1613							
ROUT	J /FLK/	000126	1407S	1490M	1492					
SHOWC	R EXTERNAL	000000	1642							

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SUB	J /BLK/	000054	1409S	1484M	1485				
T	J	000126	1409S						
TF	D	000000	1409S						
TFVD	D /SRC/	000173	1409S						
TIM	D	000000	1409S						
TINPUT	R EXTERNAL	000000	1482						
TIT	J	000200	1409S	1482A	1484	1616M	1623M	1624M	1625M
			1626M	1629	1634	1635M			
TJ	D	000000	1409S						
TJUL	D	000000	1409S						
TL	D	000000	1409S						
TLVD	D /SRC/	000177	1409S						
TO	J /BLK/	000022	1409S	1468M	1470				
TWX	J /BLK/	000166	1409S	1549M	1561M	1562	1568M		
WA	I /SRC/	000141	1409S						
1		000271	1417	1418D					
10		000337	1417	1420D	1426				
100		000436	1416	1428	1433D				
1001		002135	1515	1530D					
1002		002144	1530	1531D					
101		000456	1434	1435D					
103		000452	1434D	1440	1447				
104		000576	1440	1448D	1449				
105		000703	1441	1442	1443	1449D			
1050		002162	1522	1532D					
106		000625	1444	1445D					
1060		002175	1532	1534D					
1100		002204	1523	1529	1535D				
1101		002221	1536D	1538	1539	1540			
1102		002225	1536	1537D					
1103		002311	1538	1541	1542D				
1200		002316	1535	1543D					
1202		002330	1544D	1552	1554				
1204		002334	1544	1545D					
1210		002423	1547	1551D					
1211		002415	1548	1550D					
1220		002442	1552	1553D					

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1250	002454	1556D			
1251	002460	1556	1557D		
1260	002607	1558	1564D		
1262	002513	1559	1560D		
1265	002600	1561	1562	1563D	
1270	002643	1566	1570D		
1272	002635	1567	1569D		
1300	002651	1543	1555	1571D	
1301	002667	1572D	1574		
1302	002674	1572	1573D		
1303	002736	1574	1575D	1576	
1400	002757	1571	1577D		
1401	002776	1578	1579D		
1402	003077	1585	1586D		
1403	002772	1578D	1585	1587	
1404	003115	1589	1590D		
1405	003214	1592	1593	1594D	
1408	003057	1582	1584D		
1500	003224	1577	1588	1595D	
1501	003237	1596D	1604	1606	
1502	003243	1596	1597D		
1503	003352	1604	1605D		
1504	003661	1608	1637D		
1505	003377	1610	1611D		
1506	003606	1629	1630D		
1507	003653	1632	1636D		
1510	003332	1599	1603D		
1511	003323	1600	1602D		
1521	003467	1615	1616D		
1531	003554	1617	1628D		
2	000264	1417D	1419	1421	1422 1648
200	000713	1433	1450D		
201	000726	1451D	1454		
202	000732	1451	1452D		
203	000775	1454	1455	1456D	
2200	003667	1595	1607	1638D	
2300	004004	1519	1646	1647D	
2302	003706	1643D	1649		

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2303	003712	1643	1644D		
3	000361	1424	1425D		
300	001002	1450	1457D		
301	001015	1458D	1460	1462	1463
302	001021	1459	1459D		
303	001056	1460	1461D	1464	
400	001106	1457	1465D		
401	001123	1466D	1468		
402	001127	1466	1467D		
403	001156	1468	1469D	1470	
5	000355	1424D	1426	1429	
500	001172	1465	1471D		
501	001205	1472D	1474		
502	001211	1472	1473D		
503	001252	1474	1475D	1476	
600	001270	1471	1477D		
601	001303	1478D			
602	001310	1478	1479D		
603	001407	1485	1486D		
710	001360	1483	1484D		
700	001417	1477	1487D		
701	001433	1488D	1490		
702	001437	1488	1489D		
703	001470	1490	1491D	1492	
800	001507	1487	1493D		
801	001524	1494D	1497		
802	001530	1494	1495D		
803	001571	1497	1498D	1501	1506
905	001577	1496	1500D		
910	001634	1499	1506D		
900	001643	1493	1507D		
901	001656	1508D	1511		
902	001662	1508	1509D		
903	001724	1511	1512D	1513	
909	001752	1516D	1519	1521	
910	001756	1516	1517D		
950	002042	1507	1523D		
951	002056	1520	1524D	1526	

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_932	002062	1524	15250	
_953	002120	1526	15270	1528
_9999	003675	1423	16410	

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(1655) SUBROUTINE GETCON  
 (1656) C  
 (1656) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (1656) C  
 (1656) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (1656) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (1656) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (1656) 1 ,TFVD,TLVD,FVD,LVD,IFX  
 (1656) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1656) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (1656) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (1656) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (1656) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (1656) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1656) INTEGER\*2 FVD(3),LVD(2),D(3),DM,DDD(3)  
 (1656) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (1656) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (1657) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1657) NCLIST  
 (1658) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'CTAB ',6,16,1,IC)  
 (1659) REWIND 20  
 (1660) 650 READ(20,655,END=690)WA,CON  
 (1661) 655 FORMAT(5X,4A2,2X,5A4)  
 (1662) IF(CWA(1).EQ.' ') GOTO 680  
 (1663) IF(CWA(1).EQ.'33'.AND.CWA(2).EQ.'02') GOTO 670  
 (1664) IF(CWA(1).EQ.'38'.AND.CWA(2).EQ.'04'.OR.CWA(2).EQ.'09') GOTO 660  
 (1665) IF(CWA(1).NE.WA(1)) GOTO 650  
 (1666) IF(CWA(2).NE.WA(2)) GOTO 650  
 (1667) GO TO 800  
 (1668) 660 DO 665 I=1,4  
 (1669) IF(CWA(I).NE.WA(I)) GOTO 650  
 (1670) 665 CONTINUE  
 (1671) GO TO 800  
 (1672) 670 IF(CWA(1).NE.WA(1)) GOTO 650  
 (1673) IF(CWA(2).NE.WA(2)) GOTO 650  
 (1674) IF(CWA(3).NE.'AB'.AND.CWA(3).NE.'BA') GO TO 800  
 (1675) IF(CWA(3).EQ.'AB'.AND.WA(3).EQ.'A ') GOTO 800  
 (1676) IF(CWA(3).EQ.'BA'.AND.WA(3).EQ.'B ') GOTO 800

```
(1677)      GO TO 650
(1678) 680   DO 685 J=1,5
(1679)      CON(J)=*
(1580) 685   CONTINUE
(1551)      GO TO 800
(1682) 690   CON(1)=*WA N*
(1683)      CON(2)=*OT F*
(1684)      CON(3)=*OUND*
(1685)      CON(4)=* SEE*
(1686)      CON(5)=* RJK*
(1687) 800   REWIND 20
(1688)      CALL SRCH$3(K$CLOS,*CTAB *6.0,0,0)
(1689)      RETURN
(1690)      END
```

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ADD	I /BLK/	000163	1656S						
ATHR	J /FLK/	000001	1656S						
CON	J /FLK/	002731	1656S	1660M	1679M	1682M	1683M	1684M	1685M
			1686M						
CONT	J /BLK/	000151	1656S						
COUNT	J /FLK/	002727	1656S						
CWA	I /BLK/	000145	1656S	1662	1663	1664	1665	1666	1669
			1672	1673	1674	1675	1676		
D	I /SRC/	000136	1656S						
DA	J /SRC/	000003	1656S						
DD	I /FLK/	000017	1656S						
DDD	I /SRC/	000021	1656S						
DJT	J /BLK/	000304	1656S						
DL	J /SRC/	000044	1656S						
DLN	J /FLK/	000042	1656S						
DM	I /SRC/	000002	1656S						
DRE	J /SRC/	000171	1656S						
DT	J /SRC/	000157	1656S						
DTJ	D	000000	1656S						
DIO	J /SRC/	000024	1656S						
DW	J /SRC/	000145	1656S						
FSC	J /BLK/	000262	1656S						
FVJ	I /SRC/	000203	1656S						
GETCLN	R	000000	1655S						
I	I	000443	1668M	1669					
IANN	I /FLA/	000003	1656S						
IC	I	000446	1658A						
ICD	I /BLK/	000142	1656S						
IFX	J /SRC/	000211	1656S						
IMELE	I /FLA/	000001	1656S						
IMIS	I /FLA/	000005	1656S						
IPR	I /FLA/	000004	1656S						
IREAD	I /FLA/	000006	1656S						
IT	J /SRC/	000056	1656S						
ITRSP	I /FLA/	000000	1656S						
ITWFX	I /FLA/	000002	1656S						
J	I	000447	1678M	1679					
KSALLD	I PARAMETER		1657S						

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<SCACC	I	PARAMETER	1657S	
KSCLOS	I	PARAMETER	1657S	1688
KSCONV	I	PARAMETER	1657S	
KICURR	I	PARAMETER	1657S	
KSCFELE	I	PARAMETER	1657S	
KIDMPB	I	PARAMETER	1657S	
KIGTIM	I	PARAMETER	1657S	
KIENTR	I	000000	1657S	
KSEXST	I	PARAMETER	1657S	
KSGND	I	PARAMETER	1657S	
KSGPCS	I	PARAMETER	1657S	
KSHOME	I	PARAMETER	1657S	
KSICUR	I	PARAMETER	1657S	
KSIMFD	I	PARAMETER	1657S	
KSIRTN	I	PARAMETER	1657S	
KSISEG	I	PARAMETER	1657S	
KSIUFD	I	PARAMETER	1657S	
KSMENT	I	000000	1657S	
KSMSIZ	I	PARAMETER	1657S	
KSMVNT	I	PARAMETER	1657S	
KSNAM	I	PARAMETER	1657S	1658
KSNRTN	I	PARAMETER	1657S	
KSNCAM	I	PARAMETER	1657S	
KSNSGD	I	PARAMETER	1657S	
KSNSGS	I	PARAMETER	1657S	
KSPOSA	I	PARAMETER	1657S	
KSPGSN	I	PARAMETER	1657S	
KSPUSR	I	PARAMETER	1657S	
KSPREA	I	PARAMETER	1657S	
KSPRER	I	PARAMETER	1657S	
KSPROT	I	PARAMETER	1657S	
KSRDWR	I	PARAMETER	1657S	1658
KSRFAD	I	PARAMETER	1657S	
KSRPOS	I	PARAMETER	1657S	
KRRSUB	I	PARAMETER	1657S	
KRRULK	I	PARAMETER	1657S	
KRSINT	I	000000	1657S	
KRSETC	I	PARAMETER	1657S	

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K\$SETH	I	PARAMETER	1657S							
K\$SPOS	I	PARAMETER	1657S							
K\$SRTN	I	PARAMETER	1657S							
K\$TRNC	I	PARAMETER	1657S							
K\$UPOS	I	PARAMETER	1657S							
K\$WRIT	I	PARAMETER	1657S							
KNT	J	/SRC/	000000	1656S						
LVD	I	/SRC/	000206	1656S						
MS	I	/BLK/	000000	1656S						
NRE	J	/BLK/	000276	1656S						
PTIT	J	/BLK/	002661	1656S						
R	I	/BLK/	002660	1656S						
ROUT	J	/BLK/	000126	1656S						
SRCH\$S	R	EXTERNAL	000000	1658	1688					
SUB	J	/ELK/	000054	1656S						
T	J		000002	1656S						
TF	D		000000	1656S						
TFVD	D	/SRC/	000173	1656S						
TIM	D		000000	1656S						
TIT	J		000054	1656S						
TJ	D		000000	1656S						
YJUL	D		000000	1656S						
TL	D		000000	1656S						
TLVD	D	/SRC/	000177	1656S						
YC	J	/BLK/	000022	1656S						
TRY	J	/ELK/	000166	1656S						
WA	I	/SRC/	000141	1656S	1660M	1665	1666	1669	1672	1673
				1675	1676					
_650			000147	1660D	1665	1666	1669	1672	1673	1677
_655			000163	1660	1661D					
_660			000257	1664	1668D					
_665			000271	1668	1670D					
_670			000300	1663	1672D					
_680			000357	1662	1678D					
_685			000372	1678	1680D					
_690			000401	1660	1682D					
_800			000427	1667	1671	1674	1675	1676	1681	1687D

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(1691) SUBROUTINE REVSC  
 (1692) C  
 (1692) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (1692) C  
 (1692) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (1692) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (1692) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (1692) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (1692) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1692) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (1692) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (1692) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (1692) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (1692) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1692) INTEGER\*2 FVD(3),LVD(3),D(3),DM,CDD(3)  
 (1692) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (1692) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (1693) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1693) NOLIST  
 (1694) INTEGER\*4 ICOUN  
 (1695) INTEGER\*2 IOPT,FINISH,IA,A(15),IN  
 (1696) C  
 (1697) C THIS IS THE REVISE ROUTINE FOR THE MAIL LOG FILE  
 (1698) C THE MAIL LOG DOCUMENT TO BE REVISED OR DELETED  
 (1699) C KEYED ON THE INPUT DATE AND COUNT CODE  
 (1700) C  
 (1701) C INITIALIZE FINISHED FLAG  
 (1702) FINISH=0  
 (1703) C INITIALIZE CHANGE IN TRANSMITTAL/SPECIFICATION FLAG  
 (1704) IA=0  
 (1705) C CLEAR USER TERMINAL SCREEN FOR DISPLAY  
 (1706) CALL CLEAR  
 (1707) CALL TIMDAT(A,15)  
 (1708) IF(A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.  
 (1709) 1 'DK') GOTO 3  
 (1710) WRITE(1,4)  
 (1711) 4 FORMAT(' SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.',/)  
 (1712) 1\* IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT. 2621

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(1713) 1.0)
(1714) RETURN
(1715) 3 WRITE(1,1)
(1716) 1 FORMAT(' PLEASE ENTER THE INPUT DATE AND COUNT CODE OF THE',/,
(1717) 1* DOCUMENT TO BE REVISED OR DELETED',/,*,*,6X,*,*,3X,*,*/)
(1718) READ(1,2,ERR=3)D,ICOUN
(1719) 2 FORMAT(1X,3I2,2X,I3)
(1720) 5005 WRITE(1,5000)
(1721) 5000 FORMAT(1X,' IS THIS A SPECIAL ACTION DUE SUBFILE DELETE REQUEST',/,
(1722) 111X,'(YES OR NO)'/)
(1723) READ(1,50)IOPT
(1724) IF(IOPT.EC.*YE*) GOTO 6000
(1725) IF(IOPT.NE.*NO*) GOTO 5005
(1726) C DETERMINE SUB FILES TO BE OPENED FOR SEARCH
(1727) CALL WHEREL
(1728) C
(1729) G IS THE TRANSMITTAL/SPECIFICATION FLAG SET
(1730) C YES, PERFORM SEARCH AND REVISE OF SUB-FILE TRAN
(1731) C
(1732) IF(ITRSP.EQ.0) GOTO 1001
(1733) 100 READ(6,END=200)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(1734) 1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(1735) C IS THIS REVISE COMPLETED
(1736) IF(FINISH.EQ.1) GOTO 125
(1737) C FIND DOCUMENT TO BE REVISED
(1738) IF(ICOUN.NE.COUNT) GOTO 125
(1739) DO 110 I=1,3
(1740) IF(IDD(I).NE.D(I)) GO TO 125
(1741) 110 CONTINUE
(1742) C CONFIRM RECORD TO BE REVISED
(1743) CALL SHOWC
(1744) WRITE(1,1700)
(1745) 1700 FORMAT(/,1P0,/,*,* IS THIS THE CORRECT RECORD TO BE REVISED OR DELET
(1746) 1ED',/,*,* (YES OR NO)*)
(1747) 1800 READ(1,50)IOPT
(1748) 50 FORMAT(1A2)
(1749) IF(IOPT.EC.*NO*) GOTO 125
(1750) IF(IOPT.NE.*YE*) GOTO 1300

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(1751) 1900 WRITE(1,2100)  
(1752) 2100 FORMAT(' IS THIS RECORD TO BE REVISED OR DELETED',/,  
(1753) 1 ' (REV OR DEL)')  
(1754) READ(1,50) IOPT  
(1755) IF(IOPT.EQ.'RE') GOTO 120  
(1756) IF(IOPT.NE.'DE') GOTO 1900  
(1757) FINISH=1  
(1758) GOTO 100  
(1759) C SET REVISE FLAG  
(1760) 120 R=1  
(1761) C PERFORM REVISE OF RECORD ITEM(S)  
(1762) CALL INPSC  
(1763) C SET FINISH FLAG TO COMPLETE  
(1764) FINISH=1  
(1765) C BUILD NEW FILE  
(1766) 125 WRITE(R)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,  
(1767) 1 IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DOT  
(1768) GO TO 100  
(1769) 200 ENDFILE 6  
(1770) CALL SRCH\$(K\$CLOS,'TRAN ',6,0,0,0)  
(1771) CALL SRCH\$(K\$DELE,'TRAN ',6,0,0,0)  
(1772) CALL CNAM\$( 'REVS ',6,'TRAN ',6,IC)  
(1773) CALL SRCH\$(K\$RDWR+K\$NDAM,'REVS ',6,4,1,IC)  
(1774) C  
(1775) C IS THE MEMO/LETTER SUB FILE FLAG SET  
(1776) C YES, SEARCH AND REVISE THE SUB-FILE MEMO  
(1777) C  
(1778) C  
(1779) 1001 IF(FINISH.EQ.1) GOTO 3000  
(1780) IF(IMELE.EQ.0) GOTO 1002  
(1781) IN=11  
(1782) GO TO 2000  
(1783) 1002 IF(FINISH.EQ.1) GOTO 3000  
(1784) IF(ITWFX.EQ.0) GOTO 1003  
(1785) IN=12  
(1786) GO TO 2000  
(1787) 1003 IF(FINISH.EQ.1) GOTO 3000  
(1788) IF(IANN.EQ.0) GOTO 1004

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(1785)      IN=13
(1790)      GO TO 2000
(1791) 1004  IF(FINISH.EQ.1) GOTO 3000
(1792)      IF(IPR.EQ.0) GOTO 1005
(1793)      IN=14
(1794)      GO TO 2000
(1795) 1005  IF(FINISH.EQ.1) GOTO 3000
(1796)      IF(IMIS.EQ.0) GOTO 3000
(1797)      IN=15
(1798) 2000  CONTINUE
(1799) 101  READ(IN,END=201)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(1800)      1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE
(1801)  C    IS THIS REVISE COMPLETED
(1802)      IF(FINISH.EQ.1) GOTO 126
(1803)  C    FIND DOCUMENT TO BE REVISED
(1804)      IF(COUNT.NE.ICOUN) GOTO 126
(1805)      DO 111 I=1,3
(1806)      IF(IDD(I).NE.D(I)) GO TO 126
(1807) 111  CONTINUE
(1808)      IF(ITRSP.EQ.0) GOTO 21
(1809)      ITRSP=0
(1810)      IA=1
(1811)  C    CONFIRM RECORD TO BE REVISED
(1812) 21   CALL SHOWC
(1813)      IF(IA.EQ.0) GOTO 31
(1814)      ITRSP=1
(1815)      IA=0
(1816) 31   WRITE(1,1700)
(1817) 1801 READ(1,50)IOPT
(1818)      IF(IOPT.EQ.'NO') GOTO 126
(1819)      IF(IOPT.NE.'YE') GOTO 1801
(1820) 1901 WRITE(1,2100)
(1821)      READ(1,50) IOPT
(1822)      IF(IOPT.EQ.'RE') GOTO 121
(1823)      IF(IOPT.NE.'DE') GOTO 1901
(1824)      FINISH=1
(1825)      GOTO 101
(1826)  C    SET REVISE FLAG
```



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```
(1827) 121      R=1
(1828) C        PERFORM REVISE OF RECORD ITEM(S)
(1829)          CALL INPSC
(1830) C        SET FINISH FLAG TO COMPLETE
(1831)          FINISH=1
(1832) C        BUILD NEW FILE
(1833) 126      WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,
(1834)          1 IDO,COUNT,CWA,CONT,ADD,TWX,FSC,NRE
(1835)          GO TO 101
(1836) 201      ENDFILE 8
(1837)          IF(IN.EG.11) GOTO 2001
(1838)          IF(IN.EG.12) GOTO 2002
(1839)          IF(IN.EG.13) GOTO 2003
(1840)          IF(IN.EG.14) GOTO 2004
(1841)          IF(IN.EG.15) GOTO 2005
(1842) 2001     CALL SRCH$$ (K$CLOS,'MEMO'  *,6,0,0,0)
(1843)          CALL SRCH$$ (K$DELE,'MEMO'  *,6,0,0,0)
(1844)          CALL CNAM$$ ('REVS' *,6,'MEMO' *,6,IC)
(1845)          CALL SRCH$$ (K$RDWR+K$NDAM,'REVS' *,6,4,1,IC)
(1846)          GO TO 1002
(1847) 2002     CALL SRCH$$ (K$CLOS,'TWFX'  *,6,0,0,0)
(1848)          CALL SRCH$$ (K$DELE,'TWFX'  *,6,0,0,0)
(1849)          CALL CNAM$$ ('REVS' *,6,'TWFX' *,6,IC)
(1850)          CALL SRCH$$ (K$RDWR+K$NDAM,'REVS' *,6,4,1,IC)
(1851)          GO TO 1003
(1852) 2003     CALL SRCH$$ (K$CLOS,'ANN'    *,6,0,0,0)
(1853)          CALL SRCH$$ (K$DELE,'ANN'    *,6,0,0,0)
(1854)          CALL CNAM$$ ('REVS' *,6,'ANN'  *,6,IC)
(1855)          CALL SRCH$$ (K$RDWR+K$NDAM,'REVS' *,6,4,1,IC)
(1856)          GO TO 1004
(1857) 2004     CALL SRCH$$ (K$CLOS,'PR'     *,6,0,0,0)
(1858)          CALL SRCH$$ (K$DELE,'PR'     *,6,0,0,0)
(1859)          CALL CNAM$$ ('REVS' *,6,'PR'   *,6,IC)
(1860)          CALL SRCH$$ (K$RDWR+K$NDAM,'REVS' *,6,4,1,IC)
(1861)          GO TO 1005
(1862) 2005     CALL SRCH$$ (K$CLOS,'MIS'   *,6,0,0,0)
(1863)          CALL SRCH$$ (K$DELE,'MIS'   *,6,0,0,0)
(1864)          CALL CNAM$$ ('REVS' *,6,'MIS'  *,6,IC)
```

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```
(1865) CALL SRCHSS(KSRDWR+K$NDAM,*REVS *,6,4,1,IC)
(1866) C
(1867) 3000 RETURN
(1868) 6000 CALL SRCHSS(KSRDWR+K$NDAM,*ACTD *,6,5,1,IC)
(1869) REWIND 9
(1870) 6010 READ(9,END=7000)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE
(1871) IF(FINISH.EQ.1) GOTO 6050
(1872) IF(COUNT.NE.ICOUN) GOTO 6050
(1873) DO 6020 I=1,3
(1874) IF(IDD(I).NE.D(I)) GOTO 6050
(1875) 6020 CONTINUE
(1876) WRITE(1,6025)PTIT,DLN,FSC,IDD,COUNT,ATHR,NRE,ADD
(1877) 6025 FORMAT(1X,19A4,/,1X,4A4,A2,5X,2A4,A2,/,/,2A4,A2,5X,
(1878) 1 2(I2,'-'),I2,2X,I3,/,1X,7A4,2X,3(A3,1X),7X,2(I2,'-'),I2)
(1879) 6028 WRITE(1,1700)
(1880) READ(1,50,FRR=6028)IOPT
(1881) IF(IOPT.EQ.*NO*) GOTO 6050
(1882) IF(IOPT.NE.*YE*) GOTO 6028
(1883) FINISH=1
(1884) 6030 WRITE(1,2100)
(1885) READ(1,50) IOPT
(1886) IF(IOPT.EQ.*DE*) GOTO 6010
(1887) IF(IOPT.NE.*RE*) GOTO 6030
(1888) 6035 WRITE(1,6040)
(1889) 6040 FORMAT(1X,*REVISE OPTIONS:*,/,7X,*1. AUTHOR*,/,
(1890) 17X,*2. DOCUMENT/LETTER NUMBER*,/,7X,*3. ACTION DUE DATE*,/,
(1891) 17X,*4. FILE SYSTEM CODE*,/,7X,*5. RESPONSIBLE ENGINEER*,/,
(1892) 11X,*ENTER NUMBER ONLY*/)
(1893) READ(1,6047,ERR=6035)IOPT
(1894) 6047 FORMAT(I2)
(1895) IF(IOPT.EQ.1) GOTO 6042
(1896) IF(IOPT.EQ.2) GOTO 6043
(1897) IF(IOPT.EQ.3) GOTO 6044
(1898) IF(IOPT.EQ.4) GOTO 6045
(1899) IF(IOPT.EQ.5) GOTO 6046
(1900) GO TO 6035
(1901) 6042 WRITE(1,6052)
(1902) 6052 FORMAT(1X,*ENTER AUTHOR*,/,*!*!,28X,*!*!/)

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```
(1903)      READ(1,6062,ERR=6042)ATHR
(1904) 6062  FORMAT(1X,7A4)
(1905)      GO TO 6048
(1906) 6043  WRITE(1,6053)
(1907) 6053  FORMAT(1X,'ENTER DOC./LETTER NUMBER',/,,'!',18X,'!'/)
(1908)      READ(1,6063,ERR=6043)DLN
(1909) 6063  FORMAT(1X,4A4,A2)
(1910)      GO TO 6048
(1911) 6044  WRITE(1,6054)
(1912) 6054  FORMAT(1X,'ENTER ACTION DUE DATE',/,,'!MMDDYY!'/)
(1913)      READ(1,6064,ERR=6044)ADD
(1914) 6064  FORMAT(1X,3I2)
(1915)      GO TO 6048
(1916) 6045  WRITE(1,6055)
(1917) 6055  FORMAT(1X,'ENTER FILE SYSTEM CODE',/,2('!',10X,'!'/))
(1918)      READ(1,6065,ERR=6045)FSC
(1919) 6065  FORMAT(2(1X,2A4,A2,1X))
(1920)      GO TO 6048
(1921) 6046  WRITE(1,6056)
(1922) 6056  FORMAT(1X,'ENTER RESPONSIBLE ENGINEER',/,3('!  !')'/)
(1923)      READ(1,6066,ERR=6046)(NRE(1,J),J=1,3)
(1924) 6066  FORMAT(3(1X,A3,1X))
(1925) 6048  WRITE(1,6025)PTIT,DLN,FSC,IDD,COUNT,ATHR,NRE,ADD
(1926) 6050  WRITE(8)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE
(1927)      GO TO 6010
(1928) 7000  CALL SRCH$$ (K$CLOS,'ACTD  ',6,0,0,0)
(1929)      CALL SRCH$$ (K$CLOS,'REVS  ',6,0,0,0)
(1930)      CALL SRCH$$ (K$DELE,'ACTD  ',6,0,0,0)
(1931)      CALL CNAM$$ ('REVS ',6,'ACTD ',6,IC)
(1932)      CALL SRCH$$ (K$RDWR+K$NDAM,'RFVS ',6,4,1,IC)
(1933)      RETURN
(1934)      END
```

A	I	000002	1695S	1707A	1708						
ADD	I /BLK/	000163	1692S	1733M	1766	1799M	1833	1870M	1876		
			1913M	1925	1926						
ATHR	J /BLK/	000001	1692S	1733M	1766	1799M	1833	1870M	1876		
			1903M	1925	1926						
CLEAR	R EXTERNAL	000000	1706								
CNAMSS	R EXTERNAL	000000	1772	1844	1849	1854	1859	1864	1931		
CON	J /BLK/	002731	1692S								
CONT	J /BLK/	000151	1692S	1733M	1766	1799M	1833				
COUNT	J /BLK/	002727	1692S	1733M	1738	1766	1799M	1804	1833		
			1870M	1872	1876	1925	1926				
CWA	I /BLK/	000145	1692S	1733M	1766	1799M	1833				
C	I /SRC/	000136	1692S	1718M	1740	1806	1874				
DA	J /SRC/	000003	1692S								
DD	I /BLK/	000017	1692S	1733M	1766	1799M	1833				
DDD	I /SRC/	000021	1692S								
DD1	J /LLK/	000304	1692S	1733M	1766						
DL	J /SRC/	000044	1692S								
DLN	J /BLK/	000042	1692S	1733M	1766	1799M	1833	1870M	1876		
			1908M	1925	1926						
DM	I /SRC/	000002	1692S								
DRE	J /SRC/	000171	1692S								
DT	J /SRC/	000157	1692S								
DTJ	D	000000	1692S								
DTO	J /SRC/	000024	1692S								
DW	J /SRC/	000145	1692S								
FINISH	I	003360	1695S	1702M	1736	1757M	1764M	1779	1783		
			1787	1791	1795	1802	1824M	1831M	1871		
			1883M								
FSC	J /BLK/	000262	1692S	1733M	1766	1799M	1833	1870M	1876		
			1918M	1925	1926						
FVD	I /SRC/	000203	1692S								
I	I	003361	1739M	1740	1805M	1806	1873M	1874			
IA	I	003362	1695S	1704M	1810M	1813	1815M				
IANN	I /FLA/	000003	1692S	1708							
IC	I	003363	1772A	1773A	1844A	1845A	1849A	1850A	1854A		
			1855A	1859A	1860A	1864A	1865A	1868A	1931A		
			1932A								

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TCOUN	J	003364	1694S	1718M	1738	1804	1872			
IOD	I /ELK/	000142	1692S	1733M	1740	1766	1799M	1806	1833	
			1870M	1874	1876	1925	1926			
IEX	J /SRC/	000211	1692S							
IMELE	I /FLA/	000001	1692S	1780						
IMIS	I /FLA/	000005	1692S	1796						
IN	I	003366	1645S	1781M	1785M	1789M	1793M	1797M	1799	
			1837	1838	1839	1840	1841			
INPSC	I EXTERNAL	000000	1762	1829						
IOPT	I	003367	1695S	1723M	1724	1725	1747M	1749	1750	
			1754M	1755	1756	1817M	1818	1819	1821M	
			1822	1823	1880M	1881	1882	1885M	1886	
			1887	1893M	1895	1896	1897	1898	1899	
IPR	I /FLA/	000004	1692S	1792						
IREAD	I /FLA/	000006	1692S							
IT	J /SPC/	000056	1692S							
ITRSP	I /FLA/	000000	1692S	1732	1808	1809M	1814M			
ITWFX	I /FLA/	000002	1692S	1784						
J	I	003370	1923M							
K\$ALLO	I PARAMETER		1693S							
K\$CACC	I PARAMETER		1693S							
K\$CLOS	I PARAMETER		1693S	1770	1842	1847	1852	1857	1862	
			1928	1929						
K\$CONV	I PARAMETER		1693S							
K\$CURR	I PARAMETER		1693S							
K\$DELE	I PARAMETER		1693S	1771	1843	1848	1853	1858	1863	
			1930							
K\$DMPB	I PARAMETER		1693S							
K\$OTIM	I PARAMETER		1693S							
K\$ENTR	I	000000	1693S							
K\$EXST	I PARAMETER		1693S							
K\$GOND	I PARAMETER		1693S							
K\$GPCS	I PARAMETER		1693S							
K\$HOME	I PARAMETER		1693S							
K\$ICUR	I PARAMETER		1693S							
K\$IMFD	I PARAMETER		1693S							
K\$IRTN	I PARAMETER		1693S							
K\$ISEG	I PARAMETER		1693S							

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K\$IUFD	I	PARAMETER	1693S							
K\$MENT	I	000000	1693S							
K\$MSIZ	I	PARAMETER	1693S							
K\$M/NT	I	PARAMETER	1693S							
K\$NDAM	I	PARAMETER	1693S	1773	1845	1850	1855	1860	1865	
			1868	1932						
K\$NHTN	I	PARAMETER	1693S							
K\$NSAM	I	PARAMETER	1693S							
K\$NSGD	I	PARAMETER	1693S							
K\$NSGS	I	PARAMETER	1693S							
K\$POSA	I	PARAMETER	1693S							
K\$FOSN	I	PARAMETER	1693S							
K\$POSR	I	PARAMETER	1693S							
K\$PREA	I	PARAMETER	1693S							
K\$PRER	I	PARAMETER	1693S							
K\$PROT	I	PARAMETER	1693S							
K\$PDWR	I	PARAMETER	1693S	1773	1845	1850	1855	1860	1865	
			1868	1932						
K\$READ	I	PARAMETER	1693S							
K\$RFOS	I	PARAMETER	1693S							
K\$RSUB	I	PARAMETER	1693S							
K\$RULK	I	PARAMETER	1693S							
K\$SENT	I	000000	1693S							
K\$SETC	I	PARAMETER	1693S							
K\$SFTH	I	PARAMETER	1693S							
K\$SFOS	I	PARAMETER	1693S							
K\$SRTN	I	PARAMETER	1693S							
K\$TRNC	I	PARAMETER	1693S							
K\$UPOS	I	PARAMETER	1693S							
K\$WRIT	I	PARAMETER	1693S							
KNT	J	/SRC/ 000000	1692S							
LVD	I	/SRC/ 000206	1692S							
MS	I	/BLK/ 000000	1692S	1733M	1766	1799M	1833			
NRE	J	/BLK/ 000276	1692S	1733M	1766	1799M	1833	1870M	1876	
			1923M	1925	1926					
PIIT	J	/BLK/ 002661	1692S	1733M	1766	1799M	1833	1870M	1876	
			1925	1926						
R	I	/BLK/ 002660	1692S	1760M	1827M					

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REVSC R 000000 1691S  
 ROUT J /BLK/ 000126 1692S 1733M 1766 1799M 1833  
 SHOWC R EXTERNAL 000000 1743 1812  
 SRCHSS R EXTERNAL 000000 1770 1771 1773 1842 1843 1845 1847  
 1848 1850 1852 1853 1855 1857 1858  
 1860 1862 1863 1865 1868 1928 1929  
 1930 1932  
 SUB J /BLK/ 000054 1692S 1733M 1766 1799M 1833  
 T J 000021 1692S  
 TF D 000000 1692S  
 TFVD D /SRC/ 000173 1692S  
 TIM D 000000 1692S  
 TIMDAT R EXTERNAL 000000 1707  
 TIT J 000073 1692S  
 TJ D 000000 1692S  
 TJUL D 000000 1692S  
 TL D 000000 1692S  
 TLVD D /SRC/ 000177 1692S  
 TO J /BLK/ 000022 1692S 1733M 1766 1799M 1833  
 TWX J /BLK/ 000166 1692S 1733M 1766 1799M 1833  
 WA I /SRC/ 000141 1692S  
 WHERE R EXTERNAL 000000 1727  
  
 1 000333 1715 1716D  
 100 000555 1733D 1758 1768  
 1001 001235 1732 1779D  
 1002 001254 1780 1783D 1846  
 1003 001270 1784 1787D 1851  
 1004 001304 1788 1791D 1856  
 1005 001320 1792 1795D 1861  
 101 001333 1799D 1825 1835  
 110 000677 1739 1741D  
 111 001447 1805 1807D  
 120 001076 1755 1760D  
 121 001553 1822 1827D  
 125 001104 1736 1738 1740 1749 1766D  
 126 001561 1802 1804 1806 1818 1833D  
 1700 000713 1744 1745D 1816 1879

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1800	000765	1747D	1750						
1801	001503	1817D	1819						
1900	001007	1751D	1756						
1901	001524	1820D	1823						
2	000442	1718	1719D						
200	001174	1733	1769D						
2000	001333	1782	1786	1790	1794	1798D			
2001	001674	1837	1842D						
2002	001734	1838	1847D						
2003	001774	1839	1852D						
2004	002034	1840	1857D						
2005	002074	1841	1862D						
201	001646	1799	1836D						
21	001467	1808	1812D						
2100	001013	1751	1752D	1820	1884				
3	000327	1708	1715D	1718					
3000	002133	1779	1783	1787	1791	1795	1796	1867D	
31	001477	1813	1816D						
4	000230	1710	1711D						
50	000774	1723	1747	1748D	1754	1817	1821	1880	
		1885							
5000	000456	1720	1721D						
5005	000452	1720D	1725						
6000	002134	1724	1868D						
6010	002147	1870D	1886	1927					
6020	002235	1873	1875D						
6025	002300	1876	1877D	1925					
6023	002364	1879D	1880	1882					
6030	002415	1884D	1887						
6035	002441	1888D	1893	1900					
6040	002445	1888	1889D						
6042	002646	1895	1901D	1903					
6043	002713	1896	1906D	1908					
6044	002770	1897	1911D	1913					
6045	003041	1898	1916D	1918					
6046	003122	1899	1921D	1923					
6047	002616	1893	1894D						
6048	003215	1905	1910	1915	1920	1925D			

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_6050	003252	1871	1872	1874	1881	19260
_6052	002652	1901	19020			
_6053	002717	1906	19070			
_6054	002774	1911	19120			
_6055	003045	1916	19170			
_6056	003126	1921	19220			
_6062	002705	1903	19040			
_6063	002760	1908	19090			
_6064	003033	1913	19140			
_6065	003107	1918	19190			
_6066	003205	1923	19240			
_7000	003307	1870	19280			

0000 ERRORS [<REVSC >FTN-REV14.2]

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(1935) SUBROUTINE WHERE  
 (1936) C THIS SUBROUTINE PERFORMS THE FUNCTION OF DETERMINING  
 (1937) C WHICH SUB-FILES ARE TO BE OPENED FOR USE.  
 (1938) C  
 (1938) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (1938) C  
 (1938) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,RCUT,IDD,CWA,CONT,  
 (1938) 1 ADD,TWX,FSC,NFE,DDT,R,PTIT,COUNT,CON  
 (1938) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (1938) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (1938) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1938) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (1938) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (1938) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (1938) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (1938) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (1938) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (1938) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (1938) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (1939) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1939) C NGLIST  
 (1940) C INTEGER\*2 IOPT,IFILE  
 (1941) C  
 (1942) C INITIALIZE ALL SUB-FILE FLAGS:  
 (1943) C ITRSP REPRESENTS THE TRANSMITTAL/SPECIFICATION SUB-FILE  
 (1944) C IMELE REPRESENTS THE MEMO/LETTER SUB-FILE  
 (1945) C ITWFX REPRESENTS THE TWX/MAGNAFAX/RAPIFAX SUB-FILE  
 (1946) C IANN REPRESENTS THE ANNOUNCEMENT SUB-FILE  
 (1947) C IPR REPRESENTS THE PURCHASE REQUEST SUB-FILE  
 (1948) C IMIS REPRESENTS THE MISCELLANEOUS/REPORT SUB-FILE  
 (1949) C  
 (1950) ITRSP=0  
 (1951) IMELE=0  
 (1952) ITWFX=0  
 (1953) IANN =0  
 (1954) IPR =0  
 (1955) IMIS =0  
 (1956) 10 WRITE(1,100)

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(1957) 100 FORMAT(2X,'SUB FILE SELECTION: ',/,2X,'1. TRANSMITTAL/SPECIFICATIO  
(1958) 1N SUB-FILE ',/,2X,'2. MEMO/LETTER SUB-FILE ',/,2X,  
(1959) 1'3. TWX/MAGNAFAX/RAPIFAX SUB-FILE ',/,2X,'4. ANNOUNCEMENT SUB-FIL  
(1960) 1E ',/,2X,'5. PURCHASE REQUEST SUB-FILE ',/,2X,'6. MISCELLANEOUS/',  
(1961) 1'REPORT SUB-FILE ',/,2X,36('\*\*'),/,2X,  
(1962) 1'HOW MANY SUBFILES DO WISH TO OPEN?/')  
(1963) C  
(1964) C PERFORM VALIDITY CHECK ON USER ENTRY  
(1965) C  
(1966) READ(1,110,ERR=10)IFILE  
(1967) 110 FORMAT(I2)  
(1968) IF(IFILE.LE.0.OR.IFILE.GT.6) GOTO 10  
(1969) IF(IFILE.EQ. 6) GOTO 300  
(1970) DO 200 I=1,6  
(1971) 115 WRITE(1,120) I  
(1972) 120 FORMAT(2X,'DO YOU WANT SUB FILE NUMBER ',I2,' (YES OR NO)?')  
(1973) READ(1,130,ERR=115)IOPT  
(1974) 130 FORMAT(1A2)  
(1975) IF(IOPT.EQ.'NO') GOTO 190  
(1976) IF(IOPT.NE.'YE') GOTO 115  
(1977) IF(I.EQ.1) ITRSP=1  
(1978) IF(I.EQ.2) IMELE=1  
(1979) IF(I.EQ.3) ITWFX=1  
(1980) IF(I.EQ.4) IANN =1  
(1981) IF(I.EQ.5) IPR =1  
(1982) IF(I.EQ.6) IMIS =1  
(1983) IF(IFILE.EQ.ITRSP+IMELE+ITWFX+IANN+IPR+IMIS) GOTO 500  
(1984) 190 CONTINUE  
(1985) 200 CONTINUE  
(1986) GO TO 500  
(1987) 300 ITRSP=1  
(1988) IMELE=1  
(1989) ITWFX=1  
(1990) IANN =1  
(1991) IPR =1  
(1992) IMIS =1  
(1993) 500 IF(ITRSP.EQ.1) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'TRAN' ,\*,6,2,1,IC)  
(1994) IF(IMELE.EQ.1) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'MEMO' ,\*,6,7,1,IC)

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```
(1995) IF(ITWFX.EQ.1) CALL SRCH$$ (K$RDWR+K$NDAM,*TWF  *6,8,1,IC)
(1996) IF(IANN .EQ.1) CALL SRCH$$ (K$RDWR+K$NDAM,*ANN *6,9,1,IC)
(1997) IF(IPR .EQ.1) CALL SRCH$$ (K$RDWR+K$NDAM,*PR *6,10,1,IC)
(1998) IF(IMIS .EQ.1) CALL SRCH$$ (K$RDWR+K$NDAM,*MIS *6,11,1,IC)
(1999) RETURN
(2000) END
```

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ADD	I /BLK/	000163	1938S							
ATHR	J /BLK/	000001	1938S							
CON	J /BLK/	002731	1938S							
CONT	J /BLK/	000151	1938S							
CGUNT	J /BLK/	002727	1938S							
CWA	I /ELK/	000145	1938S							
D	I /SRC/	000136	1938S							
DA	J /SRC/	000003	1938S							
DD	I /BLK/	000017	1938S							
DDD	I /SRC/	000021	1938S							
DDT	J /BLK/	000304	1938S							
EL	J /SRC/	000044	1938S							
DLN	J /BLK/	000042	1938S							
DM	I /SRC/	000002	1938S							
DRE	J /SRC/	000171	1938S							
DT	J /SRC/	000157	1938S							
DTJ	D	000000	1938S							
DTO	J /SRC/	000024	1938S							
DW	J /SRC/	000145	1938S							
FSC	J /BLK/	000262	1938S							
FVD	I /SRC/	000203	1938S							
I	I	000764	1970M	1971	1977	1978	1979	1980	1981	
			1982							
IANN	I /FLA/	000003	1938S	1953M	1980M	1983	1990M	1996		
IC	I	000766	1993A	1994A	1995A	1996A	1997A	1998A		
IDD	I /BLK/	000142	1938S							
IEX	J /SRC/	000211	1938S							
IFILE	I	000767	1940S	1966M	1968	1969	1983			
IMELE	I /FLA/	000001	1938S	1951M	1978M	1983	1988M	1994		
IMIS	I /FLA/	000005	1938S	1955M	1982M	1983	1992M	1998		
IOPT	I	000770	1940S	1973M	1975	1976				
IPR	I /FLA/	000004	1938S	1954M	1981M	1983	1991M	1997		
IREAD	I /FLA/	000006	1938S							
IT	J /SRC/	000056	1938S							
ITRSP	I /FLA/	000000	1938S	1950M	1977M	1983	1987M	1993		
ITUFX	I /FLA/	000002	1938S	1952M	1979M	1983	1989M	1995		
K3ALLD	I PARAMETER		1939S							
K3CACC	I PARAMETER		1939S							

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K1CLOS I	PARAMETER	1939S								
K1CONV I	PARAMETER	1939S								
K1CURR I	PARAMETER	1939S								
K1DELE I	PARAMETER	1939S								
K1DMPB I	PARAMETER	1939S								
K1DTIM I	PARAMETER	1939S								
K1ENTR I	000000	1939S								
K1EXST I	PARAMETER	1939S								
K1GOND I	PARAMETER	1939S								
K1GPOS I	PARAMETER	1939S								
K1HOME I	PARAMETER	1939S								
K1ICUR I	PARAMETER	1939S								
K1IMFD I	PARAMETER	1939S								
K1IRTN I	PARAMETER	1939S								
K1IDEG I	PARAMETER	1939S								
K1IUFD I	PARAMETER	1939S								
K1MENT I	000000	1939S								
K1MSIZ I	PARAMETER	1939S								
K1MVNT I	PARAMETER	1939S								
K1NDAM I	PARAMETER	1939S	1993	1994	1995	1996	1997	1998		
K1NRTN I	PARAMETER	1939S								
K1NSAM I	PARAMETER	1939S								
K1NSGD I	PARAMETER	1939S								
K1NSGS I	PARAMETER	1939S								
K1PGSA I	PARAMETER	1939S								
K1POSN I	PARAMETER	1939S								
K1POSR I	PARAMETER	1939S								
K1PREA I	PARAMETER	1939S								
K1PRER I	PARAMETER	1939S								
K1PROT I	PARAMETER	1939S								
K1REWR I	PARAMETER	1939S	1993	1994	1995	1996	1997	1998		
K1READ I	PARAMETER	1939S								
K1RPOS I	PARAMETER	1939S								
K1RSUE I	PARAMETER	1939S								
K1RWLK I	PARAMETER	1939S								
K1SENT I	000000	1939S								
K1SETC I	PARAMETER	1939S								
K1SETH I	PARAMETER	1939S								

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K\$SPOS	I	PARAMETER	1939S						
K\$SRIN	I	PARAMETER	1939S						
K\$TRNC	I	PARAMETER	1939S						
K\$UPOS	I	PARAMETER	1939S						
K\$WRIT	I	PARAMETER	1939S						
KNT	J	/SRC/	000000	1938S					
LVD	I	/SRC/	000206	1938S					
MS	I	/BLK/	000000	1938S					
NRE	J	/BLK/	000276	1938S					
PTIT	J	/BLK/	002661	1938S					
R	I	/BLK/	002660	1938S					
ROUT	J	/BLK/	000126	1938S					
SRCH\$	R	EXTERNAL	000000	1993	1994	1995	1996	1997	1998
SUB	J	/BLK/	000054	1938S					
T	J		000002	1938S					
TF	D		000000	1938S					
TFVD	D	/SRC/	000173	1938S					
TIH	O		000000	1938S					
TIT	J		000054	1938S					
TJ	D		000000	1938S					
TJUL	D		000000	1938S					
TL	D		000000	1938S					
TLVD	D	/SRC/	000177	1938S					
TO	J	/BLK/	000022	1938S					
TWX	J	/BLK/	000166	1938S					
WA	I	/SRC/	000141	1938S					
WHERE	R		000000	1935S					

_10	000151	1956D	1966	1968
_100	000156	1956	1957D	
_110	000425	1966	1967D	
_115	000455	1971D	1973	1976
_120	000464	1971	1972D	
_130	000531	1973	1974D	
_190	000635	1975	1984D	
_200	000635	1970	1985D	
_300	000643	1969	1987D	
_500	000652	1983	1986	1993D

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0000 ERRORS [ <WHERE >FTN-REV14.2 ]

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```
(2001) SUBROUTINE OPEN
(2002) C THIS SUBROUTINE OPENS ALL SUB FILES FOR READ/WRITE
(2003) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(2003) NOLIST
(2004) CALL SRCH$$ (K$RDWR+K$NDAM, *TRAN *6,2,1,IC)
(2005) CALL SRCH$$ (K$RDWR+K$NDAM, *MEMO *6,7,1,IC)
(2006) CALL SRCH$$ (K$RDWR+K$NDAM, *TWF *6,8,1,IC)
(2007) CALL SRCH$$ (K$RDWR+K$NDAM, *ANN *6,9,1,IC)
(2008) CALL SRCH$$ (K$RDWR+K$NDAM, *PR *6,10,1,IC)
(2009) CALL SRCH$$ (K$RDWR+K$NDAM, *MIS *6,11,1,IC)
(2010) RETURN
(2011) END
```

IC	I	000062	2004A	2005A	2006A	2007A	2008A	2009A	
K\$ALLO	I	PARAMETER	2003S						
K\$CACC	I	PARAMETER	2003S						
K\$CLOS	I	PARAMETER	2003S						
K\$CONV	I	PARAMETER	2003S						
K\$CURR	I	PARAMETER	2003S						
K\$DELE	I	PARAMETER	2003S						
K\$DMPB	I	PARAMETER	2003S						
K\$DTIM	I	PARAMETER	2003S						
K\$ENTR	I	000000	2003S						
K\$EXST	I	PARAMETER	2003S						
K\$GOND	I	PARAMETER	2003S						
K\$GPOS	I	PARAMETER	2003S						
K\$HOME	I	PARAMETER	2003S						
K\$ICUR	I	PARAMETER	2003S						
K\$INFO	I	PARAMETER	2003S						
K\$IRTN	I	PARAMETER	2003S						
K\$ISEG	I	PARAMETER	2003S						
K\$IUFD	I	PARAMETER	2003S						
K\$KENT	I	000000	2003S						
K\$MSIZ	I	PARAMETER	2003S						
K\$NVNT	I	PARAMETER	2003S						
K\$NDAM	I	PARAMETER	2003S	2004	2005	2006	2007	2008	2009
K\$NRTN	I	PARAMETER	2003S						
K\$NSAM	I	PARAMETER	2003S						
K\$NSGD	I	PARAMETER	2003S						
K\$NSGS	I	PARAMETER	2003S						
K\$POSA	I	PARAMETER	2003S						
K\$POSN	I	PARAMETER	2003S						
K\$POSR	I	PARAMETER	2003S						
K\$PREA	I	PARAMETER	2003S						
K\$FRER	I	PARAMETER	2003S						
K\$PROT	I	PARAMETER	2003S						
K\$RDWR	I	PARAMETER	2003S	2004	2005	2006	2007	2008	2009
K\$READ	I	PARAMETER	2003S						
K\$RFOS	I	PARAMETER	2003S						
K\$RSUP	I	PARAMETER	2003S						
K\$RWLK	I	PARAMETER	2003S						

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SUBROUTINE OPEN

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K\$SENT	I	000000	2003S						
K\$SETC	I	PARAMETER	2003S						
K\$SETH	I	PARAMETER	2003S						
K\$SPOS	I	PARAMETER	2003S						
K\$SRTN	I	PARAMETER	2003S						
K\$TRNC	I	PARAMETER	2003S						
K\$UPDS	I	PARAMETER	2003S						
K\$WRIT	I	PARAMETER	2003S						
OPEN	R	000000	2001S						
SRCH\$\$	R	EXTERNAL 000000	2004	2005	2006	2007	2008	2009	

0000 ERRORS [ <OPEN >FTN-REV14.2 ]

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```
(2012) SUBROUTINE CLOSE
(2013) C THIS SUBROUTINE CLOSES ALL SUB-FILES
(2014) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(2014) NOLIST
(2015) CALL SRCH$$ (K$CLOS, *TRAN *6,0,0,0)
(2016) CALL SRCH$$ (K$CLOS, *MEMO *6,0,0,0)
(2017) CALL SRCH$$ (K$CLOS, *TWFY *6,0,0,0)
(2018) CALL SRCH$$ (K$CLOS, *ANN *6,0,0,0)
(2019) CALL SRCH$$ (K$CLOS, *PR *6,0,0,0)
(2020) CALL SRCH$$ (K$CLOS, *MIS *6,0,0,0)
(2021) RETURN
(2022) END
```

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CLOSE	R	000000	2012S							
K\$ALLO	I	PARAMETER	2014S							
K\$CACC	I	PARAMETER	2014S							
K\$CLOS	I	PARAMETER	2014S	2015	2016	2017	2018	2019	2020	
K\$CONV	I	PARAMETER	2014S							
K\$CURR	I	PARAMETER	2014S							
K\$DELE	I	PARAMETER	2014S							
K\$DMPB	I	PARAMETER	2014S							
K\$DTIM	I	PARAMETER	2014S							
K\$ENTR	I	000000	2014S							
K\$EXST	I	PARAMETER	2014S							
K\$GOND	I	PARAMETER	2014S							
K\$GPOS	I	PARAMETER	2014S							
K\$HOME	I	PARAMETER	2014S							
K\$ICUR	I	PARAMETER	2014S							
K\$IMFD	I	PARAMETER	2014S							
K\$IRTN	I	PARAMETER	2014S							
K\$ISEG	I	PARAMETER	2014S							
K\$IUFD	I	PARAMETER	2014S							
K\$MENT	I	000000	2014S							
K\$MSIZ	I	PARAMETER	2014S							
K\$MVNT	I	PARAMETER	2014S							
K\$NDAM	I	PARAMETER	2014S							
K\$NRTN	I	PARAMETER	2014S							
K\$NSAM	I	PARAMETER	2014S							
K\$NSGD	I	PARAMETER	2014S							
K\$NSGS	I	PARAMETER	2014S							
K\$POSA	I	PARAMETER	2014S							
K\$POSN	I	PARAMETER	2014S							
K\$POSR	I	PARAMETER	2014S							
K\$PREA	I	PARAMETER	2014S							
K\$PRER	I	PARAMETER	2014S							
K\$PROT	I	PARAMETER	2014S							
K\$RDWR	I	PARAMETER	2014S							
K\$READ	I	PARAMETER	2014S							
K\$RPOS	I	PARAMETER	2014S							
K\$RSUB	I	PARAMETER	2014S							
K\$RWLK	I	PARAMETER	2014S							

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K\$SENT	I	000000	2014S							
K\$SETC	I	PARAMETER	2014S							
K\$SETH	I	PARAMETER	2014S							
K\$SPOS	I	PARAMETER	2014S							
K\$SRIN	I	PARAMETER	2014S							
K\$TRNC	I	PARAMETER	2014S							
K\$UPOS	I	PARAMETER	2014S							
K\$WRIT	I	PARAMETER	2014S							
SRCH\$S	R	EXTERNAL	000000	2015	2016	2017	2018	2019	2020	

0000 ERRORS [ <CLOSE >FTN-REV14.2 ]

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(2023) SUBROUTINE SHOWC  
(2024) C THIS SUBROUTINE DISPLAYS ON THE USER TERMINAL THE  
(2025) C COMPLETE DOCUMENT REPRESENTATION. THIS ROUTINE  
(2026) C CAN BE CALLED BY INPUT OR REVISE MODE TO CLARIFY THE  
(2027) C RECORD BEING USED AT HAND. ITEMS ARE NUMBERED FOR  
(2028) C FURTHER DEFINITION OF DATA.  
(2029) C  
(2029) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
(2029) C  
(2029) C COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
(2029) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
(2029) C COMMON/SRC/ KNT,DM,DA,DD,DTO,DL,IT,D,WA,DW,DT,DRE  
(2029) 1 ,TFVD,TLVD,FVD,LVD,IEX  
(2029) C COMMON/FLA/ ITRSP,IMFLE,ITWFX,IANN,IPK,IMIS,IREAD  
(2029) C INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
(2029) 1 CON(5),TWX(6,5),FSC(6),NRF(1,3),DDT(30,21),T(21)  
(2029) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
(2029) C INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
(2029) C INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
(2029) C INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDO(3)  
(2029) C INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
(2029) C DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
(2030) C CLEAR USER TERMINAL SCREEN FOR OUPUT DISPLAY  
(2031) C CALL CLEAR  
(2032) C  
(2033) C DISPLAY RECORD  
(2034) C  
(2035) C WRITE(1,10)MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,ADD  
(2036) 10 FORMAT(2X,'1. ',A2,11X,'2. ',7A4,/,2X,'3. ',2(I2,'-'),I2,5X,'4. ',  
(2037) 1 8A4,/,2X,'5. ',4A4,A2,/,2X,'6. SUBJECT',/,3X,7(2A4,A2,1X),/,  
(2038) 1 2X,'7. ',5(A3,'/'),A3,5X,'8. ',2(I2,'-'),I2,/,2X,'9. ',4A2,5X,  
(2039) 1 '10. ',5A4,5X,'11. ',2(I2,'-'),I2)  
(2040) C WRITE(1,800)  
(2041) 800 FORMAT('12. REFERENCED DOCUMENT NUMBER(S):')  
(2042) C DO 810 M=1,6  
(2043) C KTW=0  
(2044) C DO 820 N=1,5  
(2045) C IF(TWX(M,N).NE.' ') KTW=KTW+1

(2046) 820 CONTINUE  
(2047) IF(KTW.EQ.0) GOTO 900  
(2048) WRITE(1,850) (TWX(M,N),N=1,5)  
(2049) 850 FORMAT(5X,4A4,A2)  
(2050) 810 CONTINUE  
(2051) 900 CONTINUE  
(2052) WRITE(1,1000)FSC  
(2053) 1000 FORMAT(\* 13. %, 2A4,A2,\*/%,2A4,A2)  
(2054) WRITE(1,1200)  
(2055) 1200 FORMAT(\* 14. ENGINFERS:\*)  
(2056) KRE=0  
(2057) DO 1400 L=1,3  
(2058) IF(NRE(1,L).NE.\* \*) KRE=KRE+1  
(2059) 1400 CONTINUE  
(2060) IF(KRE.EQ.0) GOTO 1050  
(2061) WRITE(1,170) (NRE(1,L),L=1,3)  
(2062) 170 FORMAT(5X,3(A3,1X))  
(2063) 1050 CONTINUE  
(2064) IF(ITRSP.EQ.0) GOTO 1070  
(2065) WRITE(1,1100)  
(2066) 1100 FORMAT(\* 15. DESCRIPTION:\*)  
(2067) DO 1500 I=1,30  
(2068) KDD=0  
(2069) DO 1600 J=1,21  
(2070) IF(DDT(I,J).NE.\* \*) KDD=KDD+1  
(2071) 1600 CONTINUE  
(2072) IF(KDD.EQ.0) GOTO 1070  
(2073) WRITE(1,180) (DDT(I,J),J=1,21)  
(2074) 180 FORMAT(4X,7(1X,2A4,A2))  
(2075) 1500 CONTINUE  
(2076) 1070 CONTINUE  
(2077) RETURN  
(2078) END

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SUBROUTINE SHOWC

ADD	I /BLK/	000163	2029S	2035	
ATHR	J /BLK/	000001	2029S	2035	
CLEAR	R EXTERNAL	000000	2031		
CCN	J /BLK/	002731	2029S		
CONT	J /BLK/	000151	2029S	2035	
COUNT	J /BLK/	002727	2029S		
CWA	I /BLK/	000145	2029S	2035	
D	I /SRC/	000136	2029S		
DA	J /SRC/	000003	2029S		
DD	I /BLK/	000017	2029S	2035	
DDD	I /SRC/	000021	2029S		
DDT	J /BLK/	000304	2029S	2070	2073
DL	J /SRC/	000044	2029S		
DLN	J /BLK/	000042	2029S	2035	
DM	I /SRC/	000002	2029S		
DRE	J /SRC/	000171	2029S		
DT	J /SRC/	000157	2029S		
DTJ	D	000000	2029S		
DTO	J /SRC/	000024	2029S		
DW	J /SRC/	000145	2029S		
FSC	J /BLK/	000262	2029S	2052	
FVD	I /SRC/	000203	2029S		
I	I	001017	2067M	2070	2073
IANN	I /FLA/	000003	2029S		
IDD	I /BLK/	000142	2029S	2035	
IEX	J /SRC/	000211	2029S		
IMELE	I /FLA/	000001	2029S		
IMIS	I /FLA/	000005	2029S		
IPR	I /FLA/	000004	2029S		
IREAD	I /FLA/	000006	2029S		
IT	J /SRC/	000056	2029S		
ITRSP	I /FLA/	000000	2029S	2064	
ITWFX	I /FLA/	000002	2029S		
J	I	001020	2069M	2070	2073M
KDD	I	001021	2068M	2070M	2072
KNT	J /SRC/	000000	2029S		
KRE	I	001022	2056M	2058M	2060
KTW	I	001023	2043M	2045M	2047

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L	I	001024	2057M	2058	2061M
LVD	I /SRC/	000206	2029S		
M	I	001025	2042M	2045	2048
MS	I /BLK/	000000	2029S	2035	
N	I	001026	2044M	2045	2048M
NRE	J /BLK/	000276	2029S	2058	2061
PTIT	J /BLK/	002661	2029S		
R	I /BLK/	002660	2029S		
ROUT	J /BLK/	000126	2029S	2035	
SHOWC	R	000000	2023S		
SUB	J /BLK/	000054	2029S	2035	
T	J	000002	2029S		
TF	D	000000	2029S		
TFVD	D /SRC/	000173	2029S		
TIM	D	000000	2025S		
TIT	J	000054	2029S		
TJ	D	000000	2029S		
TJUL	D	000000	2029S		
TL	D	000000	2029S		
TLVD	D /SRC/	000177	2029S		
TO	J /BLK/	000022	2029S	2035	
TWX	J /BLK/	000166	2029S	2045	2048
WA	I /SRC/	000141	2029S		

_10	000203	2035	20360		
_1000	000530	2052	20530		
_1050	000655	2060	20630		
_1070	001012	2064	2072	20760	
_1100	000665	2065	20660		
_1200	000553	2054	20550		
_1400	000610	2057	20590		
_1500	001004	2067	20750		
_1600	000732	2069	20710		
_170	000645	2061	20620		
_180	000772	2073	20740		
_800	000365	2040	20410		
_810	000512	2042	20500		
_820	000443	2044	20460		

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SUBROUTINE SHOWC

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_850	000503	2048	20490
_900	000520	2047	20510

0000 ERRORS [ <SHOWC >FTN-REV14.2 ]

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(2079) SUBROUTINE ALC  
 (2080) C THIS SUBROUTINE PERFORMS THE SEARCH OF ALL MAIL LOG  
 (2081) C SUB-FILES  
 (2082) C SELECTED SUB-FILES CAN BE ELIMINATED FROM SEARCH  
 (2083) C  
 (2083) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (2083) C  
 (2083) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (2083) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (2083) COMMON/SKC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,OW,DT,DRE  
 (2083) 1 ,TFVD,TLVD,FVD,LVD,IFX  
 (2083) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2083) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (2083) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (2083) 1 ,TIT(24),COUNT,CONT(5),IFX(4,3)  
 (2083) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (2083) INTEGER\*2 ITRSP,IMLE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2083) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (2083) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (2083) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (2084) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2084) NOLIST  
 (2085) INTEGER\*2 IPAGE,IPRINT  
 (2086) C INITIALIZE FOUND COUNTER  
 (2087) KNT=0  
 (2088) C INITIALIZE FIRST FOUND FLAG  
 (2089) IPAGE=0  
 (2090) C INITIALIZE TOP OF PRINTER PAGE FLAG  
 (2091) IPRINT=0  
 (2092) WRITE(1,1)  
 (2093) 1 FORMAT(\* THIS IS THE PRINT ALL ROUTINE\*,/)  
 (2094) 1\* ALL DOCUMENTS IN THE MAIL LOG FILE WILL BE PRINTED\*,/)  
 (2095) CALL BREAK\$(.TRUE.)  
 (2096) C READ ALL SELECTED SUB-FILES  
 (2097) 50 CALL RDSUB  
 (2098) C IS THE SEARCH OF ALL APPROPRIATE SUBFILES COMPLETED  
 (2099) IF(IREAD.EQ.1) GOTO 100  
 (2100) C IS THIS THE FIRST RECORD FOUND

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```
(2101)      IF(IPAGE.NE.0) GOTO 160
(2102) C      SET UP FOR DISPLAY OF THE PRINT ALL HEADING
(2103)      ITEM=50
(2104)      IPAGE=1
(2105) C      DISPLAY HEADING ON USER TERMINAL SCREEN
(2106)      CALL SCRNDH(ITEM)
(2107) C      DISPLAY RECORD FOUND ON USFR TERMINAL SCREEN
(2108) 160    CALL SCRNP(ITEM)
(2109) C      IS THIS FOR TOP OF PRINTER PAGE
(2110)      IF(IPRINT.NE.0) GOTO 170
(2111) C      PRINT HEADING FOR PRINT ALL ON PRINTER
(2112)      CALL HARNDH(ITEM)
(2113)      IPRINT=1
(2114) C      PRINT RECORD FOUND ON PRINTER
(2115) 170    CALL HARNDP(ITEM)
(2116) C      IS THIS BOTTOM OF PRINTER PAGE, YES SET TOP OF PRINTER PAGE FLAG
(2117)      IF(KNT/22.EQ.KNT/22.) IPRINT=0
(2118)      GO TO 50
(2119) C      CLOSE ALL SUB-FILES
(2120) 100    CALL CLOSE
(2121) C      CLOSE ALL OTHER OPEN WORKING FILES
(2122)      CALL SRCH$(K$CLOS,'OUT'  *,6,0,0,0)
(2123)      CALL SRCH$(K$CLOS,'REVS' *,6,0,0,0)
(2124)      CALL SRCH$(K$CLOS,'DATE' *,6,0,0,0)
(2125)      CALL COMI$('*SOUT',4,12,IC)
(2126)      CALL EXIT
(2127)      END
```

ADD	I /BLK/	000163	2083S			
ALC	R	000000	2079S			
ATHK	J /BLK/	000001	2083S			
BREAKS	R EXTERNAL	000000	2095			
CLOSE	R EXTERNAL	000000	2120			
COMISS	R EXTERNAL	000000	2125			
CON	J /BLK/	002731	2083S			
CONT	J /ELK/	000151	2083S			
COUNT	J /ELK/	002727	2083S			
CWA	I /ELK/	000145	2083S			
D	I /SRC/	000136	2083S			
DA	J /SRC/	000003	2083S			
DD	I /ELK/	000017	2083S			
DDD	I /SRC/	000021	2083S			
DDT	J /ELK/	000304	2083S			
DL	J /SRC/	000044	2083S			
DLN	J /ELK/	000042	2083S			
DM	I /SRC/	000002	2083S			
CRE	J /SRC/	000171	2083S			
DT	J /SRC/	000157	2083S			
DTJ	D	000000	2083S			
DTO	J /SRC/	000024	2083S			
DW	J /SRC/	000145	2083S			
EXIT	R EXTERNAL	000000	2126			
FSC	J /BLK/	000262	2083S			
FVD	I /SRC/	000203	2083S			
HARDHD	R EXTERNAL	000000	2112			
HARDPT	R EXTERNAL	000000	2115			
IANN	I /FLA/	000003	2083S			
IC	I	000356	2125A			
IDD	I /BLK/	000142	2083S			
IEX	J /SRC/	000211	2083S			
IMELE	I /FLA/	000001	2083S			
IMIS	I /FLA/	000005	2083S			
IPAGE	I	000357	2085S	2089M	2101	2104M
IPR	I /FLA/	000004	2083S			
IPRINT	I	000360	2085S	2091M	2110	2113M 2117M
IREAD	I /FLA/	000006	2083S	2099		

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IT	J /SRC/	000056	2083S				
ITEM	I	000361	2103M	2106A	2108A	2112A	2115A
ITRSP	I /FLA/	000000	2083S				
ITWFX	I /FLA/	000002	2083S				
K\$ALLO	I PARAMETER		2084S				
K\$CACC	I PARAMETER		2084S				
K\$CLOS	I PARAMETER		2084S	2122	2123	2124	
K\$CONV	I PARAMETER		2084S				
K\$CURR	I PARAMETER		2084S				
K\$DFLE	I PARAMETER		2084S				
K\$DMPB	I PARAMETER		2084S				
K\$DTIM	I PARAMETER		2084S				
K\$ENTR	I	000000	2084S				
K\$FXST	I PARAMETER		2084S				
K\$GOND	I PARAMETER		2084S				
K\$GPOS	I PARAMETER		2084S				
K\$HOME	I PARAMETER		2084S				
K\$ICUR	I PARAMETER		2084S				
K\$IMFD	I PARAMETER		2084S				
K\$IRTN	I PARAMETER		2084S				
K\$ISEG	I PARAMETER		2084S				
K\$IUFD	I PARAMETER		2084S				
K\$MENT	I	000000	2084S				
K\$MSIZ	I PARAMETER		2084S				
K\$MVNT	I PARAMETER		2084S				
K\$NDAM	I PARAMETER		2084S				
K\$NRTN	I PARAMETER		2084S				
K\$NSAM	I PARAMETER		2084S				
K\$NSGD	I PARAMETER		2084S				
K\$NSGS	I PARAMETER		2084S				
K\$POSA	I PARAMETER		2084S				
K\$POSN	I PARAMETER		2084S				
K\$POSR	I PARAMETER		2084S				
K\$PREA	I PARAMETER		2084S				
K\$PRER	I PARAMETER		2084S				
K\$PROT	I PARAMETER		2084S				
K\$RQWR	I PARAMETER		2084S				
K\$READ	I PARAMETER		2084S				

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KSRPOS	I	PARAMETER		2084S		
KSRCUB	I	PARAMETER		2084S		
KSRWLK	I	PARAMETER		2084S		
KISENT	I	000000		2084S		
KSETC	I	PARAMETER		2084S		
KSETH	I	PARAMETER		2084S		
KISPOS	I	PARAMETER		2084S		
KISRTN	I	PARAMETER		2084S		
KSTRNC	I	PARAMETER		2084S		
KSUPOS	I	PARAMETER		2084S		
KSWRIT	I	PARAMETER		2084S		
KNT	J	/SRC/	000000	2083S	2087M	2117
LVD	I	/SRC/	000206	2083S		
MS	I	/BLK/	000000	2083S		
NRE	J	/BLK/	000276	2083S		
PTIT	J	/BLK/	002661	2083S		
R	I	/BLK/	002660	2083S		
RDSUB	R	EXTERNAL	000000	2097		
ROUT	J	/BLK/	000126	2083S		
SCRNHD	R	EXTERNAL	000000	2106		
SCRNPT	R	EXTERNAL	000000	2108		
SRCH\$\$	R	EXTERNAL	000000	2122	2123	2124
SUB	J	/BLK/	000054	2083S		
T	J		000002	2083S		
TF	D		000000	2083S		
TFVD	D	/SRC/	000173	2083S		
TIM	D		000000	2083S		
TIT	J		000054	2083S		
TJ	D		000000	2083S		
TJUL	D		000000	2083S		
TL	D		000000	2083S		
TLVD	D	/SRC/	000177	2083S		
TO	J	/BLK/	000022	2083S		
TWX	J	/BLK/	000166	2083S		
WA	I	/SRC/	000141	2083S		
_1			000153	2092	2093D	
_100			000316	2099	2120D	



SUBROUTINE ALC

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_160	000255	2101	2108D
_170	000266	2110	2115D
_50	000234	2097D	2118

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(2128) SUBROUTINE SEAC  
 (2129) COMMON /CDAT/CD  
 (2130) DOUBLE PRECISION CD  
 (2131) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2131) NOLIST  
 (2132) C  
 (2132) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (2132) C  
 (2132) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (2132) 1 ADD,TWX,FSC,NKE,DDT,R,PTIT,COUNT,CON  
 (2132) COMMON/SRC/ KNT,DM,DA,DDD,DTO,UL,IT,D,WA,DW,DT,DRE  
 (2132) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (2132) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2132) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (2132) 1 COL(5),TWX(6,5),FSC(6),NKF(1,3),DDT(30,21),T(21)  
 (2132) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (2132) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (2132) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2132) INTEGER\*2 FVD(3),LVD(3),D(3),D\*,DDD(3)  
 (2132) INTEGER\*4 DKE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (2132) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (2133) INTEGER\*2 IDES(2),IGPT  
 (2134) INTEGER\*4 COUNTR  
 (2135) C  
 (2136) C THIS IS THE SEARCH DRIVER ROUTINE FOR THE MAIL LOG FILE  
 (2137) C  
 (2138) C CLEAR USER TERMINAL SCREEN FOR DISPLAY  
 (2139) CALL CLFAR  
 (2140) C OPEN OUTPUT FILE TO BE SPOOLED IF A HARD COPY IS DESIRED  
 (2141) CALL SRCH\$(K\$RDWR+K\$NSAM,\*CUT \*,6,3,0,0).  
 (2142) J=:401  
 (2143) WRITE(7,9999)J  
 (2144) 9999 FORMAT(1A2)  
 (2145) C DISPLAY SEARCH MODES(OPTIONS)  
 (2146) WRITE(1,1)  
 (2147) 1 FORMAT(\* YOU ARE NOW VALIDATED TO SEARCH DATA IN THE \*,/  
 (2148) 1\* MAIL LOG FILE - THE FOLLOWING SEARCH MODES \*,/  
 (2149) 1\* ARE AVAILABLE FOR YOUR USE - \*,/

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```
(2150) 1*MODE KEY*,/
(2151) 1*MAIL STATUS MS*,/,
(2152) 1*AUTHOR/SOURCE AUTH*,/,
(2153) 1*DOCUMENT DATE DDC*,/,
(2154) 1*TO/ADDRESSEE TO*,/,
(2155) 1*DOCUMENT/LETTER NUMBER DLN*,/,
(2156) 1*SUBJECT SUB*,/,
(2157) 1*INPUT DATA DATE ICD*,/,
(2158) 1*W.A. NUMBER/ID CODE CWN*,/,
(2159) 1*CONTRACT NUMBER CON*,/,
(2160) 1*ACTION ITEM DUE DATE ADD*,/,
(2161) 1*RESPONSIBLE ENGINEER NRE*,/,
(2162) 1*ALL ALL*,/
(2163) 1*QUIT QUIT*,/
(2164) 1* PLEASE SELECT THE DESIRED MODE*,//)
(2165) 6 READ(1,3)IDES
(2166) 3 FORMAT(1A2,A1)
(2167) IF(IDES(1).EQ.'QU*') GO TO 10
(2168) REWIND 10
(2169) C IS THIS THE FIRST TIME THRU SEARCH ROUTINE
(2170) IF(IRR.EQ.1) GO TO 2000
(2171) 50 WRITE(1,2001)
(2172) 2001 FORMAT(' PLEASE INPUT THE CURRENT DATE',/,,'MMDYY'//)
(2173) READ(1,2002,ERR=50)IM, ID, IY
(2174) 2002 FORMAT(3I2)
(2175) REWIND 10
(2176) READ(10,2005)COUNTR
(2177) 2005 FORMAT(8X,13)
(2178) C STORE THE CURRENT DATE
(2179) REWIND 10
(2180) WRITE(10,2003)IM, ID, IY, COUNTR
(2181) 2003 FORMAT(1X,3I2,1X,13)
(2182) REWIND 10
(2183) C CONVERT CURRENT DATE TO JULIAN TIME
(2184) CALL JTIME(IY,IM, ID,0,0,0,CD)
(2185) C SET FIRST TIME THRU SEARCH ROUTINE FLAG
(2186) IRR=1
(2187) C IS THIS A ROUTINE THAT USES A SPECIFIC TIME FRAME
```

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```
(2188) C      TO BE SEARCHED, YES PERFORM SUBROUTINE BRAKET
(2189) 2000 IF(IDES(1).NE.'AL'.AND.IDES(1).NE.'DO'.AND.IDES(1).NE.'ID'
(2190) 1  .AND.IDES(1).NE.'AD') CALL BRAKET
(2191) C      INITIALIZE THE READ SUBFILES COMPLETE FLAG
(2192)      IREAD=0
(2193) C      IS THIS AN ACTION DUE DATE SEARCH
(2194)      IF(IDES(1).EQ.'AD') GOTO 99
(2195) C      DETERMINE SUB FILES TO BE OPENED FOR SEARCH
(2196)      CALL WHERE
(2197) C      DETERMINE SEARCH MODE TO BE CALLED
(2198)      IF(IDES(1).EQ.'AL') CALL ALC
(2199)      IF(IDES(1).EQ.'NR') CALL RESEA
(2200)      IF(IDES(1).EQ.'TO') CALL WHO
(2201)      IF(IDES(1).EQ.'DO') CALL DDAT
(2202)      IF(IDES(1).EQ.'CO') CALL CNUM
(2203)      IF(IDES(1).EQ.'CW') CALL CWAID
(2204)      IF(IDES(1).EQ.'AU') CALL AUSEA
(2205)      IF(IDES(1).EQ.'DL') CALL DLSEA
(2206)      IF(IDES(1).EQ.'ID') CALL DATC
(2207)      IF(IDES(1).EQ.'SU') CALL SUBJ
(2208)      IF(IDES(1).EQ.'MS') CALL MSTAT
(2209) 99     IF(IDES(1).EQ.'AD') CALL ADAT
(2210) 100    WRITE(1,101)
(2211) 101    FORMAT(' /, ' IF YOU WISH TO CONTINUE, DEPRESS THE RETURN'/)
(2212)      READ(1,3)IDES
(2213)      IF(IDES(1).NE.' ') GOTO 100
(2214)      WRITE(1,1)
(2215) C
(2216) C      CLOSE ALL OPEN SURFILES
(2217) C
(2218)      CALL CLOSE
(2219)      GO TO 6
(2220) 10     WRITE(1,11)
(2221) C
(2222) C      CLOSE TEMPORARY OUTPUT FILE
(2223)      CALL SRCH$(K$CLOS,'OUT ',6,0,0,0)
(2224) 11     FORMAT(' DO YOU WANT A HARD COPY OF THE INFORMATION FOUND',/,
(2225) 1' (YES OR NO)')
```

```
(2226)      READ(1,5) IOPT
(2227) 5     FORMAT(1A2)
(2228)      IF(IOPT.EQ.*YE*) GO TO 20
(2229)      IF(IOPT.EQ.*NO*) GO TO 15
(2230)      GO TO 10
(2231) 15    CALL SRCH$$ (K$DELE,*OUT  *6,0,0,0)
(2232)      RETURN
(2233) 20    CALL SPCH$$ (K$CLOS,*DATE  *6,0,0,0)
(2234)      CALL SRCH$$ (K$CLOS,*REVS  *6,0,0,0)
(2235)      CALL COMI$$ (*SGUT*,4,12,IC)
(2236)      CALL EXIT
(2237)      END
```

ADAT	R	EXTERNAL	000000	2209		
ADD	I	/BLK/	000163	2132S		
ALC	R	EXTERNAL	000000	219A		
ATHR	J	/BLK/	000001	2132S		
AUSEA	R	EXTERNAL	000000	2204		
BRACKET	R	EXTERNAL	000000	2189		
CD	D	/CDAT/	000000	2129S	2130S	2184A
CLEAR	R	EXTERNAL	000000	2130		
CLOSE	R	EXTERNAL	000000	2218		
CNUM	R	EXTERNAL	000000	2202		
COMISS	R	EXTERNAL	000000	2235		
CON	J	/BLK/	002731	2132S		
CONT	J	/BLK/	000151	2132S		
COUNT	J	/BLK/	002727	2132S		
COUNTR	J		001453	2134S	2176M	2180
CWA	I	/BLK/	000145	2132S		
CWAID	R	EXTERNAL	000000	2203		
D	I	/SRC/	000136	2132S		
DA	J	/SRC/	000003	2132S		
DATC	R	EXTERNAL	000000	2206		
DD	I	/BLK/	000017	2132S		
DDAT	R	EXTERNAL	000000	2201		
DDD	I	/SRC/	000021	2132S		
DDT	J	/BLK/	000304	2132S		
DL	J	/SRC/	000044	2132S		
DLN	J	/BLK/	000042	2132S		
DLSEA	R	EXTERNAL	000000	2205		
DM	I	/SRC/	000002	2132S		
DRE	J	/SRC/	000171	2132S		
DT	J	/SRC/	000157	2132S		
DTJ	D		000000	2132S		
DTD	J	/SRC/	000024	2132S		
DW	J	/SRC/	000145	2132S		
EXIT	R	EXTERNAL	000000	2236		
FSC	J	/CLK/	000262	2132S		
FVD	I	/SRC/	000203	2132S		
IANN	I	/FLA/	000003	2132S		
IC	I		001461	2235A		

ID	I	001462	2173M	2180	2184A					
IDD	I /BLK/	000142	2132S							
IDES	I	000002	2133S	2165M	2167	2189	2194	2198	2199	
			2200	2201	2202	2203	2204	2205	2206	
			2207	2208	2209	2212M	2213			
IEX	J /SRC/	000211	2132S							
IM	I	001463	2173M	2180	2184A					
IMELE	I /FLA/	000001	2132S							
IMIS	I /FLA/	000005	2132S							
IOPT	I	001464	2133S	2226M	2228	2229				
IFR	I /FLA/	000004	2132S							
IHEAD	I /FLA/	000006	2132S	2192M						
JRR	J	001465	2170	2186M						
IT	J /SRC/	000056	2132S							
ITRSP	I /FLA/	000000	2132S							
ITWFX	I /FLA/	000002	2132S							
IY	I	001466	2173M	2180	2184A					
J	I	001467	2142M	2143						
JTIME	I EXTERNAL	000000	2184							
KSALLO	I PARAMETER		2131S							
KSCACC	I PARAMETER		2131S							
KSCLOS	I PARAMETER		2131S	2223	2233	2234				
KSCONV	I PARAMETER		2131S							
KSCURR	I PARAMETER		2131S							
KSDLE	I PARAMETER		2131S	2231						
KSDMPB	I PARAMETER		2131S							
KSDTIM	I PARAMETER		2131S							
KSENR	I	000000	2131S							
KSEXST	I PARAMETER		2131S							
KSGOND	I PARAMETER		2131S							
KSGPOS	I PARAMETER		2131S							
KSHOME	I PARAMETER		2131S							
KSICUR	I PARAMETER		2131S							
KSIMFD	I PARAMETER		2131S							
KSIRTN	I PARAMETER		2131S							
KISEG	I PARAMETER		2131S							
KSIUFD	I PARAMETER		2131S							
KSMENT	I	000000	2131S							

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K\$MSIZ	I	PARAMETER	2131S				
K\$MVNT	I	PARAMETER	2131S				
K\$NDAM	I	PARAMETER	2131S				
K\$NRTN	I	PARAMETER	2131S				
K\$NSAM	I	PARAMETER	2131S	2141			
K\$NSGD	I	PARAMETER	2131S				
K\$NSGS	I	PARAMETER	2131S				
K\$POSA	I	PARAMETER	2131S				
K\$POSN	I	PARAMETER	2131S				
K\$POSR	I	PARAMETER	2131S				
K\$PREA	I	PARAMETER	2131S				
K\$PKER	I	PARAMETER	2131S				
K\$PROT	I	PARAMETER	2131S				
K\$RQWR	I	PARAMETER	2131S	2141			
K\$READ	I	PARAMETER	2131S				
K\$RPOS	I	PARAMETER	2131S				
K\$RSUB	I	PARAMETER	2131S				
K\$RWLK	I	PARAMETER	2131S				
K\$SENT	I	000000	2131S				
K\$SETC	I	PARAMETER	2131S				
K\$SETH	I	PARAMETER	2131S				
K\$SPOS	I	PARAMETER	2131S				
K\$SRTN	I	PARAMETER	2131S				
K\$TRNC	I	PARAMETER	2131S				
K\$UPOS	I	PARAMETER	2131S				
K\$WRIT	I	PARAMETER	2131S				
KNT	J	/SRC/ 000000	2132C				
LVD	I	/SRC/ 000206	2132S				
MS	I	/ELK/ 000000	2132S				
MSTAT	I	EXTERNAL 000000	2200				
NRE	J	/ELK/ 000276	2132S				
PTIT	J	/ELK/ 002661	2132S				
R	I	/ELK/ 002660	2132S				
RESEA	R	EXTERNAL 000000	2199				
ROUT	J	/ELK/ 000126	2132S				
SEAC	R	000000	2128S				
SRCN\$S	R	EXTERNAL 000000	2141	2223	2231	2233	2234
SUB	J	/ELK/ 000054	2132S				

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SUBJ	R	EXTERNAL	000000	2207		
T	J		000004	2132S		
TF	D		000000	2132S		
TFVD	D	/SRC/	000173	2132S		
TIM	D		000000	2132S		
TIT	J		000056	2132S		
TJ	D		000000	2132S		
TJUL	D		000000	2132S		
TL	D		000000	2132S		
TLVD	D	/SRC/	000177	2132S		
TO	J	/BLK/	000022	2132S		
TWX	J	/BLK/	000166	2132S		
WA	I	/SRC/	000141	2132S		
WHERE	R	EXTERNAL	000000	2196		
WHO	R	EXTERNAL	000000	2200		
1			000174	2146	2147D	2214
10			001304	2167	2220D	2230
100			001217	2210D	2213	
101			001223	2210	2211D	
11			001320	2220	2224D	
15			001412	2229	2231D	
20			001424	2228	2233D	
2000			001060	2170	2189D	
2001			000720	2171	2172D	
2002			000767	2173	2174D	
2003			001033	2180	2181D	
2005			001004	2176	2177D	
3			000671	2165	2166D	2212
5			001375	2226	2227D	
50			000714	2171D	2173	
6			000661	2165D	2219	
99			001213	2194	2209D	
9999			000163	2143	2144D	

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(2238) SUBROUTINE ARCC  
 (2239) C  
 (2239) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (2239) C  
 (2239) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (2239) 1 ADD,TWX,FSC,NRE,DDT,R,PTIT,COUNT,CON  
 (2239) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (2239) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (2239) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2239) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (2239) 1 CON(5),TWX(6,5),FSC(6),NRE(1,3),DDT(30,21),T(21)  
 (2239) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (2239) INTEGER\*2 MC,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (2239) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2239) INTEGER\*2 FVD(3),LVD(3),D(3),D\*,DDD(3)  
 (2239) INTEGER\*4 DFE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (2239) DOUBLE PRECISION DTJ,TF,TL,TJLL,TFVD,TLVD,TIM,TJ  
 (2240) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2240) NOLIST  
 (2241) INTEGER\*4 ICOUN  
 (2242) INTEGER\*2 A(15),IN,IANS  
 (2243) C  
 (2244) C THIS IS THE ARCHIVE ROUTINE FOR THE MAIL LOG FILE  
 (2245) C NOTE: THIS IS LIMITED ACCESS  
 (2246) C  
 (2247) C VALIDATE THE INCOMING USER  
 (2248) C  
 (2249) CALL TIMDAT(A,15)  
 (2250) IF(A(13).NE.'SY') GO TO 700  
 (2251) GO TO 750  
 (2252) 700 WRITE(1,701)  
 (2253) 701 FORMAT('GGSORRY YOU ARE NOT VALIDATED TO USE THIS \*./,  
 (2254) 1\*ROUTINE. IF IT IS NEEDED PLEASE CONTACT YOUR SYSTEM\*/,  
 (2255) 1\* OPERATOR AT EXT. 2621\*/')  
 (2256) RETURN  
 (2257) 750 CONTINUE  
 (2258) C  
 (2259) C WHICH MAIL LOG DOCUMENT IS TO BE ARCHIVED

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(2260) C      KEY ON THE INPUT DATE AND COUNT CODE NUMBER
(2261) C
(2262) 3      WRITE(1,1)
(2263) 1      FORMAT(* PLEASE ENTER THE INPUT DATE AND COUNT CODE *,
(2264) 1*OF THE DOCUMENT TO BE ARCHIVED*,/,*!*'.6X,*!*'.3X,*!*')
(2265)      READ(1,2,FERR=3)D,ICOUN
(2266) 2      FORMAT(1X,3I2,2X,I3)
(2267) 10     WRITE(1,11)
(2268) 11     FORMAT(* WHICH SUBFILE IS THIS DOCUMENT LOCATED:*,/,
(2269) 1 6X,*1. TRANSMITTAL/SPECIFICATION      2. MEMO/LETTER*,/,
(2270) 1 6X,*3. TWX/MAGNAFAX/RAPIFAX          4. ANNOUNCEMENT*,/,
(2271) 1 6X,*5. PURCHASE REQUEST              6. MISCELLANEOUS/REPORT*/)
(2272)      READ(1,12) IANS
(2273) 12     FOPMAT(I2)
(2274)      IF(IANS.GT.6.OR.IANS.LT.1) GOTO 10
(2275)      IF(IANS.GE.2) GOTO 300
(2276)      CALL SRCH$(K$RDWR+K$NDAM,*TRAN *'.6,2,1,IC)
(2277)      CALL SRCH$(K$RDWR+K$NDAM,*INACTL*'.6,5,1,IC)
(2278) 15     READ(9,END=20)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(2279) 1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2280)      GO TO 15
(2281) 20     CONTINUE
(2282)      KEWIND 6
(2283) 100    READ(6,END=200)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(2284) 1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2285)      IF(COUNT.NF.ICOUN) GOTO 125
(2286)      DO 110 I=1,3
(2287)      IF(IDD(I).NE.D(I)) GO TO 125
(2288) 110    CONTINUE
(2289)      WRITE(9)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,
(2290) 1 IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2291)      GO TO 100
(2292) 125    WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,
(2293) 1 IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2294)      GO TO 100
(2295) 200    ENDFILE 8
(2296)      ENDFILE 9
(2297)      CALL SRCH$(K$CLOS,*REVS *'.6,0,0,0)

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(229P) CALL SRCH$$ (K$CLOS, 'INACTL', 6, 0, 0, 0)
(2299) CALL SRCH$$ (K$CLOS, 'TRAN', 6, 0, 0, 0)
(2300) CALL SRCH$$ (K$DELE, 'TRAN', 6, 0, 0, 0)
(2301) CALL CNAM$$ ('REVS', 6, 'TRAN', 6, IC)
(2302) GO TO 500
(2303) C
(2304) C ARCHIVE SUBFILES 2 THRU 6
(2305) C
(2306) 300 IF (IANS.EQ.2) CALL SRCH$$ (K$RDWR+K$NDAM, 'MEMO', 6, 7, 1, IC)
(2307) IF (IANS.EQ.3) CALL SRCH$$ (K$RDWR+K$NDAM, 'TWF', 6, 8, 1, IC)
(2308) IF (IANS.EQ.4) CALL SRCH$$ (K$RDWR+K$NDAM, 'ANN', 6, 9, 1, IC)
(2309) IF (IANS.EQ.5) CALL SRCH$$ (K$RDWR+K$NDAM, 'PR', 6, 10, 1, IC)
(2310) IF (IANS.EQ.6) CALL SRCH$$ (K$RDWR+K$NDAM, 'MIS', 6, 11, 1, IC)
(2311) CALL SRCH$$ (K$RDWR+K$NDAM, 'INACTS', 6, 5, 1, IC)
(2312) 315 READ (9, END=320) MS, ATHR, DD, TO, DLN, SUB, PTIT,
(2313) 1 ROUT, IDD, COUNT, CWA, CONT, ADD, TWX, FSC, NRE
(2314) GO TO 315
(2315) 320 CONTINUE
(2316) IN=IANS+9
(2317) REWIND IN
(2318) 350 READ (IN, END=450) MS, ATHR, DD, TO, DLN, SUB, PTIT,
(2319) 1 ROUT, IDD, COUNT, CWA, CONT, ADD, TWX, FSC, NRE
(2320) IF (COUNT.NE.ICOUN) GOTO 400
(2321) DO 390 I=1, 3
(2322) IF (IDD(I).NE.D(I)) GO TO 400
(2323) 390 CONTINUE
(2324) WRITE (9) MS, ATHR, DD, TO, DLN, SUB, PTIT, ROUT,
(2325) 1 IDD, COUNT, CWA, CONT, ADD, TWX, FSC, NRE
(2326) GO TO 350
(2327) 400 WRITE (8) MS, ATHR, DD, TO, DLN, SUB, PTIT, ROUT,
(2328) 1 IDD, COUNT, CWA, CONT, ADD, TWX, FSC, NRE
(2329) GO TO 350
(2330) 450 ENDFILE 8
(2331) ENDFILE 9
(2332) CALL SRCH$$ (K$CLOS, 'REVS', 6, 0, 0, 0)
(2333) CALL SRCH$$ (K$CLOS, 'INACTS', 6, 0, 0, 0)
(2334) IF (IN.NE.11) GOTO 455
(2335) CALL SRCH$$ (K$CLOS, 'MEMO', 6, 0, 0, 0)

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(2336) CALL SRCH$(K$DELE,*MEMO * ,6,0,0,0)
(2337) CALL CNAM$(*REVS * ,6,*MEMO * ,6,IC)
(2338) GO TO 500
(2339) 455 IF(IN.NE.12) GOTO 460
(2340) CALL SRCH$(K$CLOS,*TWFX * ,6,0,0,0)
(2341) CALL SRCH$(K$DFLE,*TWFX * ,6,0,0,0)
(2342) CALL CNAM$(*REVS * ,6,*TWFX * ,6,IC)
(2343) GO TO 500
(2344) 460 IF(IN.NE.13) GOTO 465
(2345) CALL SRCH$(K$CLOS,*ANN * ,6,0,0,0)
(2346) CALL SRCH$(K$DFLE,*ANN * ,6,0,0,0)
(2347) CALL CNAM$(*REVS * ,6,*ANN * ,6,IC)
(2348) GO TO 500
(2349) 465 IF(IN.NE.14) GOTO 470
(2350) CALL SRCH$(K$CLOS,*PR * ,6,0,0,0)
(2351) CALL SRCH$(K$DELE,*PR * ,6,0,0,0)
(2352) CALL CNAM$(*REVS * ,6,*PR * ,6,IC)
(2353) GO TO 500
(2354) 470 IF(IN.NE.15) GO TO 475
(2355) CALL SRCH$(K$CLOS,*MIS * ,6,0,0,0)
(2356) CALL SRCH$(K$DELE,*MIS * ,6,0,0,0)
(2357) CALL CNAM$(*REVS * ,6,*MIS * ,6,IC)
(2358) GO TO 500
(2359) 475 WRITE(1,480)
(2360) 480 FORMAT(* AN ERROR IN FILE MANAGEMENT SYSTEM HAS OCCURRED!*,/
(2361) 1,* PLEASE CALL OPERATOR EXT.2621*)
(2362) 500 CALL SRCH$(K$RDWR*K$NDAM,*REVS * ,6,4,1,IC)
(2363) RETURN
(2364) END
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A	I	000002	2242S	2249A	2250						
ADD	I /BLK/	000163	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
ARCC	R	000000	2238S								
ATHR	J /BLK/	000001	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
CNAM\$\$	R EXTERNAL	000000	2301	2337	2342	2347	2352	2357			
CON	J /BLK/	002731	2239S								
CONT	J /BLK/	000151	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
COUNT	J /BLK/	002727	2239S	2278M	2283M	2285	2289	2292	2312M		
			2318M	2320	2324	2327					
CWA	I /BLK/	000145	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
D	I /SRC/	000136	2239S	2265M	2287	2322					
DA	J /SRC/	000003	2239S								
DD	I /BLK/	000017	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
DDO	I /SRC/	000021	2239S								
DDT	J /BLK/	000304	2239S	2278M	2283M	2289	2292				
DL	J /SRC/	000044	2239S								
DLN	J /BLK/	000042	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
DM	I /SRC/	000002	2239S								
DRE	J /SRC/	000171	2239S								
DT	J /SRC/	000157	2239S								
DTJ	D	000000	2239S								
DTO	J /SRC/	000024	2239S								
DW	J /SRC/	000145	2239S								
FSC	J /BLK/	000262	2239S	2278M	2283M	2289	2292	2312M	2318M		
			2324	2327							
FVD	I /SRC/	000203	2239S								
I	I	002365	2286M	2287	2321M	2322					
IANN	I /FLA/	000003	2239S								
IANS	I	002366	2242S	2272M	2274	2275	2306	2307	2308		
			2309	2310	2316						
IC	I	002367	2276A	2277A	2301A	2306A	2307A	2308A	2309A		
			2310A	2311A	2337A	2342A	2347A	2352A	2357A		

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			2362A								
ICOUN	J	002370	2241S	2265M	2285	2320					
IDD	I /BLK/	000142	2239S	2278M	2283M	2287	2289	2292	2312M		
			2318M	2322	2324	2327					
IEX	J /SRC/	000211	2239S								
IMELE	I /FLA/	000001	2239S								
IMIS	I /FLA/	000005	2239S								
IN	I	002372	2242S	2316M	2317	2318	2334	2339	2344		
			2349	2354							
IPR	I /FLA/	000004	2239S								
IREAD	I /FLA/	000006	2239S								
IT	J /SRC/	000056	2239S								
ITRSP	I /FLA/	000000	2239S								
ITWFX	I /FLA/	000002	2239S								
K\$ALLD	I PARAMETER		2240S								
K\$CACC	I PARAMETER		2240S								
K\$CLOS	I PARAMETER		2240S	2297	2298	2299	2332	2333	2335		
			2340	2345	2350	2355					
K\$CONV	I PARAMETER		2240S								
K\$CURR	I PARAMETER		2240S								
K\$DELE	I PARAMETER		2240S	2300	2336	2341	2346	2351	2356		
K\$DMPB	I PARAMETER		2240S								
K\$DTIM	I PARAMETER		2240S								
K\$ENTR	I	000000	2240S								
K\$EXST	I PARAMETER		2240S								
K\$GOND	I PARAMETER		2240S								
K\$GPOS	I PARAMETER		2240S								
K\$HOME	I PARAMETER		2240S								
K\$ICUR	I PARAMETER		2240S								
K\$INFD	I PARAMETER		2240S								
K\$IRTN	I PARAMETER		2240S								
K\$ISEG	I PARAMETER		2240S								
K\$IUFD	I PARAMETER		2240S								
K\$MENT	I	000000	2240S								
K\$MSIZ	I PARAMETER		2240S								
K\$MVNT	I PARAMETER		2240S								
K\$NDAM	I PARAMETER		2240S	2276	2277	2306	2307	2308	2309		
			2310	2311	2362						

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K\$NRIN	I	PARAMETER	2240S								
K\$NSAM	I	PARAMETER	2240S								
K\$NSGD	I	PARAMETER	2240S								
K\$NSGS	I	PARAMETER	2240S								
K\$POSA	I	PARAMETER	2240S								
K\$POSN	I	PARAMETER	2240S								
K\$POSR	I	PARAMETER	2240S								
K\$PREA	I	PARAMETER	2240S								
K\$PRER	I	PARAMETER	2240S								
K\$PROT	I	PARAMETER	2240S								
K\$RDWR	I	PARAMETER	2240S	2276	2277	2306	2307	2308	2309		
			2310	2311	2362						
K\$READ	I	PARAMETER	2240S								
K\$RPOS	I	PARAMETER	2240S								
K\$RSUB	I	PARAMETER	2240S								
K\$RWLK	I	PARAMETER	2240S								
K\$SENT	I	000000	2240S								
K\$SETC	I	PARAMETER	2240S								
K\$SFTH	I	PARAMETER	2240S								
K\$SPOS	I	PARAMETER	2240S								
K\$SRIN	I	PARAMETER	2240S								
K\$TRNC	I	PARAMETER	2240S								
K\$UPOS	I	PARAMETER	2240S								
K\$WRIT	I	PARAMETER	2240S								
KNT	J	/SRC/	000000	2239S							
LVD	I	/SRC/	000206	2239S							
MS	I	/BLK/	000000	2239S	2278M	2283M	2289	2292	2312M	2318M	
				2324	2327						
NRE	J	/BLK/	000276	2239S	2278M	2283M	2289	2292	2312M	2318M	
				2324	2327						
PTIT	J	/BLK/	002661	2239S	2278M	2283M	2289	2292	2312M	2318M	
				2324	2327						
R	I	/BLK/	002660	2239S							
ROUT	J	/BLK/	000126	2239S	2278M	2283M	2289	2292	2312M	2318M	
				2324	2327						
SRCH\$\$	R	EXTERNAL	000000	2276	2277	2297	2298	2299	2300	2306	
				2307	2308	2309	2310	2311	2332	2333	
				2335	2336	2340	2341	2345	2346	2350	

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SUBROUTINE ARCC

SUB	J /BLK/	000054	2351 2239S 2324	2355 2278M 2327	2356 2283M	2362 2289	2292	2312M	2318M
T	J	000021	2239S						
TF	D	000000	2239S						
TFVD	D /SRC/	000173	2239S						
TIM	D	000000	2239S						
TIMDAT	R EXTERNAL	000000	2249						
TIT	J	000073	2239S						
TJ	D	000000	2239S						
TJUL	D	000000	2239S						
TL	D	000000	2239S						
TLVD	D /SRC/	000177	2239S						
TO	J /BLK/	000022	2239S 2324	2278M 2327	2283M	2289	2292	2312M	2318M
TWX	J /BLK/	000166	2239S 2324	2278M 2327	2283M	2289	2292	2312M	2318M
WA	I /SRC/	000141	2239S						
_1		000302	2262	2263D					
_10		000412	2267D	2274					
_100		000751	2283D	2291	2294				
_11		000416	2267	2268D					
_110		001064	2286	2288D					
_12		000607	2272	2273D					
_125		001162	2285	2287	2292D				
_15		000655	2278D	2280					
_2		000402	2265	2266D					
_20		000747	2278	2281D					
_200		001252	2283	2295D					
_3		000276	2262D	2265					
_300		001327	2275	2306D					
_315		001437	2312D	2314					
_320		001525	2312	2315D					
_350		001533	2318D	2326	2329				
_390		001643	2321	2323D					
_400		001737	2320	2322	2327D				
_450		002024	2316	2330D					

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_455	002105	2334	2339D						
_460	002142	2339	2344D						
_465	002200	2344	2349D						
_470	002235	2349	2354D						
_475	002272	2354	2359D						
_480	002277	2359	2360D						
_500	002354	2302	2338	2343	2348	2353	2358	2362D	
_700	000165	2250	2252D						
_701	000172	2252	2253D						
_750	000276	2251	2257D						

0000 ERRORS [ <ARCC >FTN-REV14.2 ]

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(2365) SUBROUTINE UPDATE  
 (2366) C  
 (2366) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (2366) C  
 (2366) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (2366) 1 ADD,TWX,FSC,NHE,DDT,R,PTIT,COUNT,CON  
 (2366) COMMON/SRC/ KNT,DM,DA,DDD,DTO,DL,IT,D,WA,DW,DT,DRE  
 (2366) 1 ,TFVD,TLVD,FVD,LVD,IFX  
 (2366) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2366) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (2366) 1 CON(5),TWX(6,5),FSC(6),NRI(1,3),DDT(30,21),T(21)  
 (2366) 1 ,TIT(24),COUNT,CONT(5),IFX(4,3)  
 (2366) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (2366) INTEGER\*2 ITRSP,IMFLE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2366) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (2366) INTEGER\*4 DPE,DT(5),DW(5),DL(5),DA(7),IT(24),DTO(8),KNT  
 (2366) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TIM,TJ  
 (2367) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2367) NOLIST  
 (2368) INTEGER\*2 FINISH  
 (2369) INTEGER\*4 DPT(19),DE(1,3),DF(6),KT  
 (2370) REWIND 9  
 (2371) REWIND 8  
 (2372) FINISH=0  
 (2373) DO 600 J=1,6  
 (2374) IF(TWX(J,1).EQ.\* \*) GO TO 600  
 (2375) 100 READ(9,END=300)DA,DL,DPT,D,KT,DDD,DF,DE  
 (2376) IF(FINISH.EQ.1) GO TO 200  
 (2377) DO 105 K=1,5  
 (2378) IF(TWX(J,K).NE.DL(K)) GOTO 200  
 (2379) 105 CONTINUE  
 (2380) FINISH=1  
 (2381) DO 150 L=1,21  
 (2382) IF(SUB(L).EQ.'DELA') GOTO 160  
 (2383) 150 CONTINUE  
 (2384) DO 155 L=1,21  
 (2385) IF(SUB(L).EQ.'APPR'.OR.SUB(L).EQ.'DISA'.OR.SUB(L).EQ.'DISP')  
 (2386) 1 GO TO 100

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(2387) 155 CONTINUE  
(2388) GO TO 200  
(2389) 160 WRITE(1,165)DDD  
(2390) 165 FORMAT(1X,'ACTION DUE DATE:',2X,2(I2,'-'),I2,/,  
(2391) 1 1X,'ENTER NEW DUE DATE (IF NONE, REPEAT OLD DATE)')/  
(2392) READ(1,170,ERR=160)DDD  
(2393) 170 FORMAT(3I2)  
(2394) IF(DDD(1).LE.0.OR.DDD(1).GE.13) GOTO 160  
(2395) IF(DDD(2).LE.0.OR.DDD(2).GE.32) GOTO 160  
(2396) 200 WRITE(8)DA,DL,DPT,D,KT,DDD,DF,DE  
(2397) GO TO 100  
(2398) 300 CALL SRCH\$\$ (K\$CLOS,'ACTD ',6,0,0,0)  
(2399) CALL SRCH\$\$ (K\$CLOS,'REVS ',6,0,0,0)  
(2400) CALL SRCH\$\$ (K\$DELE,'ACTD ',6,0,0,0)  
(2401) CALL CNAM\$\$ ('REVS ',6,'ACTD ',6,IC)  
(2402) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'ACTD ',6,5,1,IC)  
(2403) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'REVS ',6,4,1,IC)  
(2404) REWIND 8  
(2405) REWIND 9  
(2406) FINISH=0  
(2407) 600 CONTINUE  
(2408) 605 READ(9,END=700) DA,DL,DPT,D,KT,DDD,DF,DE  
(2409) GO TO 605  
(2410) 700 RETURN  
(2411) END

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ADD	I	/BLK/	000163	2366S						
ATHR	J	/BLK/	000001	2366S						
CNAMSS	R	EXTERNAL	000000	2401						
CON	J	/CLK/	002731	2366S						
CONT	J	/FLK/	000151	2366S						
COUNT	J	/FLK/	002727	2366S						
CWA	I	/BLK/	000145	2366S						
D	I	/SRC/	000136	2366S	2375M	2396	2408M			
DA	J	/SRC/	000003	2366S	2375M	2396	2408M			
DD	I	/FLK/	000017	2366S						
DDD	I	/SRC/	000021	2366S	2375M	2389	2392M	2394	2395	2396
				2408M						
DDT	J	/BLK/	000304	2366S						
DE	J		000002	2369S	2375M	2396	2408M			
DF	J		000010	2369S	2375M	2396	2408M			
DL	J	/SRC/	000044	2366S	2375M	2378	2396	2408M		
DLN	J	/BLK/	000042	2366S						
DM	I	/SRC/	000002	2366S						
DPT	J		000024	2369S	2375M	2396	2408M			
DRE	J	/SRC/	000171	2366S						
DT	J	/SRC/	000157	2366S						
DTJ	D		000000	2366S						
DTO	J	/SRC/	000024	2366S						
DW	J	/SRC/	000145	2366S						
FINISH	I		001010	2368S	2372M	2376	2380M	2406M		
FSC	J	/CLK/	000262	2366S						
FVD	I	/SRC/	000203	2366S						
IANN	I	/FLA/	000003	2366S						
IC	I		001012	2401A	2402A	2403A				
ICD	I	/BLK/	000142	2366S						
IFX	J	/SRC/	000211	2366S						
IMELE	I	/FLA/	000001	2366S						
IMIS	I	/FLA/	000005	2366S						
IPR	I	/FLA/	000004	2366S						
IREAD	I	/FLA/	000006	2366S						
IT	J	/SRC/	000056	2366S						
ITRSP	I	/FLA/	000000	2366S						
ITLFX	I	/FLA/	000002	2366S						

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J	I	001013	2373M	2374	2378
K	I	001014	2377M	2378	
K\$ALLO	I	PARAMETER	2367S		
K\$CACC	I	PARAMETER	2367S		
K\$CLOS	I	PARAMETER	2367S	2398	2399
K\$CONV	I	PARAMETER	2367S		
K\$CURR	I	PARAMETER	2367S		
K\$DELE	I	PARAMETER	2367S	2400	
K\$DMPB	I	PARAMETER	2367S		
K\$DTIM	I	PARAMETER	2367S		
K\$ENTR	I	000000	2367S		
K\$EXST	I	PARAMETER	2367S		
K\$GOND	I	PARAMETER	2367S		
K\$GPOS	I	PARAMETER	2367S		
K\$HOME	I	PARAMETER	2367S		
K\$ICUR	I	PARAMETER	2367S		
K\$IMFD	I	PARAMETER	2367S		
K\$IRTN	I	PARAMETER	2367S		
K\$ISEG	I	PARAMETER	2367S		
K\$IUFD	I	PARAMETER	2367S		
K\$MENT	I	000000	2367S		
K\$MSIZ	I	PARAMETER	2367S		
K\$MVNT	I	PARAMETER	2367S		
K\$NDAM	I	PARAMETER	2367S	2402	2403
K\$NRTN	I	PARAMETER	2367S		
K\$NSAM	I	PARAMETER	2367S		
K\$NSGD	I	PARAMETER	2367S		
K\$NSGS	I	PARAMETER	2367S		
K\$POSA	I	PARAMETER	2367S		
K\$POSN	I	PARAMETER	2367S		
K\$POSR	I	PARAMETER	2367S		
K\$PREA	I	PARAMETER	2367S		
K\$PRER	I	PARAMETER	2367S		
K\$PROT	I	PARAMETER	2367S		
K\$RDWR	I	PARAMETER	2367S	2402	2403
K\$READ	I	PARAMETER	2367S		
K\$RPOS	I	PARAMETER	2367S		
K\$RSUB	I	PARAMETER	2367S		

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KSRWLK	I	PARAMETER	2367S				
K\$SENT	I	000000	2367S				
K\$SETC	I	PARAMETER	2367S				
K\$SETH	I	PARAMETER	2367S				
K\$SPOS	I	PARAMETER	2367S				
K\$SRIN	I	PARAMETER	2367S				
K\$TRNC	I	PARAMETER	2367S				
K\$UPOS	I	PARAMETER	2367S				
K\$WRIT	I	PARAMETER	2367S				
KNT	J	/SRC/ 000000	2366S				
KT	J	001015	2369S	2375M	2396	2408M	
L	I	001017	2381M	2382	2384M	2385	
LVD	I	/SRC/ 000206	2366S				
MS	I	/FLK/ 000000	2366S				
NRE	J	/BLK/ 000276	2366S				
PTIT	J	/BLK/ 002661	2366S				
R	I	/PLK/ 002660	2366S				
ROUT	J	/ILK/ 000126	2366S				
SRCH\$S	R	EXTERNAL 000000	239F	2399	2400	2402	2403
SUB	J	/ELK/ 000054	2366S	2382	2385		
T	J	000072	2366S				
TF	D	000000	2366S				
TFVD	D	/SRC/ 000173	2366S				
TIM	D	000000	2366S				
TIT	J	000144	2366S				
TJ	D	000000	2366S				
TJUL	D	000000	2366S				
TL	D	000000	2366S				
TLVD	D	/SRC/ 000177	2366S				
TO	J	/ELK/ 000022	2366S				
TWX	J	/ELK/ 000166	2366S	2374	2378		
UPDATE	R	000000	2365S				
WA	I	/SRC/ 000141	2366S				
_100		000252	2375D	2385	2397		
_105		000343	2377	2379D			
_150		000370	2381	2383D			
_155		000450	2384	2387D			

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_160	000456	2382	2389D	2392	2394	2395
_165	000466	2389	2390D			
_170	000557	2392	2393D			
_200	000613	2376	2378	2388	2396D	
_300	000650	2375	2398D			
_600	000737	2373	2374	2407D		
_605	000747	2408D	2409			
_700	001005	2408	2410D			

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(2412) SUBROUTINE INPTC  
 (2413) COMMON /F\$IOBF/IBUF(:3046)  
 (2414) C  
 (2414) C DATA DECLARATION AND COMMON BLOCK FOR THE MAIL LOG FILE  
 (2414) C  
 (2414) COMMON/BLK/ MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,  
 (2414) 1 ADD,TWX,FSC,NRF,DDT,R,PTIT,COUNT,CON  
 (2414) COMMON/SRC/ KNT,DM,DA,ODD,OTO,DL,IT,D,WA,DW,DT,DRE  
 (2414) 1 ,TFVD,TLVD,FVD,LVD,IEX  
 (2414) COMMON/FLA/ ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2414) INTEGER\*4 ATHR(7),TO(8),DLN(5),SUB(21),ROUT(6),PTIT(19),  
 (2414) 1 CON(5),TWX(6,5),FSC(6),NRF(1,3),DDT(30,21),T(21)  
 (2414) 1 ,TIT(24),COUNT,CONT(5),IEX(4,3)  
 (2414) INTEGER\*2 MS,DD(3),IDD(3),ADD(3),R,CWA(4),WA(4)  
 (2414) INTEGER\*2 ITRSP,IMELE,ITWFX,IANN,IPR,IMIS,IREAD  
 (2414) INTEGER\*2 FVD(3),LVD(3),D(3),DM,DDD(3)  
 (2414) INTEGER\*4 DRE,DT(5),DW(5),DL(5),DA(7),IT(24),OTO(8),KNT  
 (2414) DOUBLE PRECISION DTJ,TF,TL,TJUL,TFVD,TLVD,TJM,TJ  
 (2415) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2415) NOLIST  
 (2416) INTEGER\*4 COUNTR  
 (2417) INTEGER\*2 IOPT,IN,IY,IM,ID,IYE,ICOUNT,IPAGE,IHARD,  
 (2418) 1 ILINF,IFILE,A(15),JOUT  
 (2419) C  
 (2420) C THIS IS THE INPUT ROUTINE FOR THE MAIL LOG FILE  
 (2421) C REVISED 5/30/78 FOR OUTPUT OF DATA  
 (2422) C \*\* 7/14/78 FOR DELAYED OUTPUT AND NEW DATA FIELDS  
 (2423) C  
 (2424) CALL TIMDAT(A,15)  
 (2425) IF(A(13).EQ.\*JW\*.OR.A(13).EQ.\*NH\*.OR.A(13).EQ.\*RJ\*.OR.  
 (2426) 1 A(13).EQ.\*DK\*.OR.A(13).EQ.\*GM\*) GOTO 3  
 (2427) WRITE(1,4)  
 (2428) 4 FORMAT(\* SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.\*,/,  
 (2429) 1\* IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT.2621  
 (2430) 1.\*)  
 (2431) RETURN  
 (2432) 3 WRITE(1,11)  
 (2433) 11 FORMAT(\* IS THIS A CONTINUATION OF INPUT (YES OR NO)\*)

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(2434)          JOUT=0
(2435)          READ(1,10)IOPT
(2436)          IF(IOPT.EQ.'YE') GOTO 12
(2437)          IF(IOPT.NE.'NO') GOTO 3
(2438) 13       WRITE(1,14)
(2439) 14       FORMAT(' DO YOU WISH TO START A NEW ENTRY ( NEW )',/,
(2440) 1*       ' OR SPOOL LAST OUTPUT AGAIN ( LAST )',/,
(2441) 1*       ' OR SPOOL NEW DATA ENTERED (DATA)')
(2442)          READ(1,10) IOPT
(2443)          IF(IOPT.EQ.'NE') GOTO 15
(2444)          IF(IOPT.EQ.'LA') GOTO 21
(2445)          IF(IOPT.NE.'DA') GOTO 13
(2446)          JOUT=J
(2447)          GO TO 15
(2448) 21       CALL SRCH$$ (K$CLOS,'RFVS  ',6,0,0,0)
(2449)          CALL SRCH$$ (K$CLOS,'DATE  ',6,0,0,0)
(2450)          CALL CNAM$$ ('SAVE ',6,'OUT  ',6,IC)
(2451)          CALL COMI$$ ('SCUT',4,12,IC)
(2452)          CALL EXIT
(2453) 15       CALL SRCH$$ (K$DELE,'SAVE ',6,0,0,0)
(2454)          WRITE(1,3030)
(2455) 3030    FORMAT(1X,'STAND BY. SYSTEM NOW PERFORMING FILE HOUSEKEEPING')
(2456)          RFWIND 10
(2457)          COUNTR=0
(2458)          WRITE(10,16)COUNTR
(2459) 16       FORMAT(8X,I3)
(2460)          RFWIND 10
(2461)  C       OPEN TEMPORARY FILE FOR VOUGHT CORRESPONDENCE
(2462) 12       CALL SRCH$$ (K$RDWR+K$NDAM,'VC ',3,14,1,IC)
(2463)  C       OPEN TEMPORARY FILE FOR OUTGOING MAIL
(2464)          CALL SRCH$$ (K$RDWR+K$NDAM,'OM ',3,13,1,IC)
(2465)  C       OPEN TEMPORARY FILE FOR INCOMING MAIL
(2466)          CALL SRCH$$ (K$RDWR+K$NDAM,'IM ',3,12,1,IC)
(2467)  C
(2468)  C       OPEN ALL SUE FILES FOR INPUT MODE
(2469)  C
(2470)          IF(JOUT.EQ.1) GOTO 1001
(2471)          CALL OPEN
```

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(2472) CALL SRCH$(K$RDWR+K$NDAM,'ACTD ',6,5,1,IC)
(2473) C SET TRANSMITTAL/SPECIFICATION SUB-FILE FLAG
(2474) ITRSP=1
(2475) C
(2476) C PLACE MAIL LOG SUB FILES AND TEMPORARY STORAGE FILES
(2477) C AT THE END OF FILE MARKER
(2478) C
(2479) REWIND 10
(2480) READ(10,16) COUNTR
(2481) REWIND 10
(2482) 1000 READ(6,END=2000)MS,ATHR,DD,TO,DLN,SUB,PTIT,
(2483) 1 ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2484) GO TO 1000
(2485) 2000 DO 2010 IN=11,15
(2486) 2011 READ(IN,END=2010) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,
(2487) 1 CWA,CONT,ADD,TWX,FSC,NRE
(2488) GO TO 2011
(2489) 2010 CONTINUE
(2490) 2020 DO 2005 IN=16,18
(2491) 2001 READ(IN,END=2005)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,
(2492) 1 IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE,DDT
(2493) GO TO 2001
(2494) 2005 CONTINUE
(2495) 2006 READ(9,END=2060)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE
(2496) GO TO 2006
(2497) C
(2498) C DISPLAY INSTRUCTIONS ON USER TERMINAL SCREEN
(2499) C
(2500) 2060 WRITE(1,20)
(2501) 20 FORMAT(' WELCOME TO THE MAIL LOG FILE INPUT ROUTINE',/,
(2502) 1' PLEASE NOTE THAT ALL ENTRIES ARE TO BE PLACED',/,
(2503) 1' BETWEEN THE EXCLAMATION MARKS AND SHOULD BE LEFT',1X,
(2504) 1'JUSTIFIED',/)
(2505) C
(2506) C GET THE CURRENT DATE
(2507) C
(2508) 1001 WRITE(1,30)
(2509) 30 FORMAT(' FIRST - PLEASE ENTER THE CURRENT INPUT DATE',/,
```

(2510) 1\*IMDDYY!\*/  
 (2511) READ(1,40,ERR=1001)IM, ID, IY  
 (2512) 40 FORMAT(1X,3J2)  
 (2513) C  
 (2514) C PERFORM VALIDITY CHECKS ON INPT DATE  
 (2515) C  
 (2516) IF(IM.GT.12 .OR. ID.GT.31) GOTO 1001  
 (2517) IF(IY.LQ.0 .OR. IM.EQ.0 .OR. ID.EQ.0) GOTO 1001  
 (2518) REWIND 10  
 (2519) C STORE VALID DATE BY MONTH, DAY, YEAR  
 (2520) WRITE(10,17)IM, ID, IY, COUNTR  
 (2521) 17 FORMAT(1X,3I2,1X,I3)  
 (2522) REWIND 10  
 (2523) C  
 (2524) C SET INPUT OPTION FLAG  
 (2525) IF(JOUT.EG.1) GOTO 99  
 (2526) 102 R=0  
 (2527) C PERFORM INPUT OF RECORD ITEMS  
 (2528) CALL INPSC  
 (2529) COUNTR=COUNTR+1  
 (2530) COUNT=COUNTR  
 (2531) 1002 WRITE(1,1003)  
 (2532) 1003 FORMAT(2X,\*WHICH SUB-FILE IS THIS RECORD TO BE STORED (NUMBER)\*,/,  
 (2533) 1 6X,\*1. TRANSMITTAL/SPECIFICATION 2. MEMO/LETTER\*,/,  
 (2534) 1 6X,\*3. TWX/MAGNAFAX/RAPIFAX 4. ANNOUNCEMENT\*,/,  
 (2535) 1 6X,\*5. PURCHASE REQUEST 6. MISCELLANEOUS/REPORT\*/  
 (2536) READ(1,1004,ERR=1002)IFILE  
 (2537) 1004 FORMAT(12)  
 (2538) C MAKE CHECK FOR VALID ENTRY FOR INPUT SUB-FILE  
 (2539) IF(IFILE.LE.0.OR.IFILE.GT.6) GOTO 1002  
 (2540) C  
 (2541) C STORE RECORD IN THE APPROPRIATE SUB-FILE  
 (2542) C  
 (2543) IF(IFILE.EQ.1) WRITE(6)MS,ATHR,DD,TO,DLN,SUP,PTIT,ROUT,IDD,COUNT,  
 (2544) 1 CWA,CONT,ADD,TWX,FSC,NRE,DOT  
 (2545) IF(IFILE.EQ.2) WRITE(11)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
 (2546) 1 CWA,CONT,ADD,TWX,FSC,NRE  
 (2547) IF(IFILE.EQ.3) WRITE(12)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,

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(2548) 1 CWA,CONT,ADD,TWX,FSC,NRE  
 (2549) IF(IFILE.EQ.4) WRITE(13)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT.  
 (2550) 1 CWA,CONT,ADD,TWX,FSC,NRE  
 (2551) IF(IFILE.EQ.5) WRITE(14)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT.  
 (2552) 1 CWA,CONT,ADD,TWX,FSC,NRE  
 (2553) IF(IFILE.EQ.6) WRITE(15)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT.  
 (2554) 1 CWA,CONT,ADD,TWX,FSC,NRE  
 (2555) C  
 (2556) C STORE RECORD IN THE APPROPRIATE MAIL STATUS TEMPORARY FILE  
 (2557) C  
 (2558) IF(MS.EQ.\*VC\*) WRITE(18)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT  
 (2559) 1,CWA,CONT,ADD,TWX,FSC,NRE,DDT  
 (2560) IF(MS.EQ.\*GM\*) WRITE(17)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT  
 (2561) 1,CWA,CONT,ADD,TWX,FSC,NRE,DDT  
 (2562) IF(MS.EQ.\*IM\*) WRITE(16)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT  
 (2563) 1,CWA,CONT,ADD,TWX,FSC,NRE,DDT  
 (2564) IF(ADD(1).NE.0) WRITE(9)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE  
 (2565) IF(MS.EQ.\*IM\*) GOTO 103  
 (2566) DO 3000 I=1,6  
 (2567) DO 3001 J=1,5  
 (2568) IF(TWX(I,J).NE.\* \*) GOTO 3010  
 (2569) 3001 CONTINUE  
 (2570) 3000 CONTINUE  
 (2571) GO TO 103  
 (2572) 3010 WRITE(1,3020)  
 (2573) 3020 FORMAT(1X,\*STAND BY. SYSTEM NOW IN AUTOMATIC UPDATE MODE\*//)  
 (2574) CALL UPDATE  
 (2575) 103 WRITE(1,70)  
 (2576) 70 FORMAT(\* FURTHER DATA TO BE INPUT (YES OR NO)\*,//)  
 (2577) READ(1,10)ICPT  
 (2578) IF(IOPT.EQ.\*YE\*) GOTO 102  
 (2579) IF(IOPT.NE.\*NO\*) GOTO 103  
 (2580) C  
 (2581) C CLOSE ALL SUB FILES FOR MAIL LOG  
 (2582) C  
 (2583) CALL CLOSE  
 (2584) CALL SRCH\$(K\$CLOS,\*ACTD \*,6,0,0,0)  
 (2585) REWIND 10

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(2586) WRITE(10,17)IM, ID, IY, COUNTR  
(2587) REWIND 10  
(2588) 111 WRITE(1,112)  
(2589) 112 FORMAT(' DO YOU DESIRE THE DAILY OUTPUT (NOW OR WAIT)')  
(2590) READ(1,10)IOPT  
(2591) IF(IOPT.EQ.'WA') GOTO 113  
(2592) IF(IOPT.NE.'NO') GOTO 111  
(2593) C INITIALIZE COMPLETE OUTPUT OPTION FLAG  
(2594) 99 IHARD=0  
(2595) C OPEN TEMPORARY OUTPUT FILE FOR HARD COPY ON PRINTER  
(2596) CALL SRCH\$\$ (K\$RDWR+K\$NSAM, 'OUT', 6, 3, 0, 0)  
(2597) J=:401  
(2598) WRITE(7,10)J  
(2599) 10 FORMAT(1A2)  
(2600) 101 WRITE(1,50)  
(2601) 50 FORMAT(' WILL YOU WANT A COMPLETE DATA PRINTOUT ALONG WITH',/,  
(2602) 1 ' THE DAILY BRIEF OFFICE OUTPUT (YES OR NO)',/,)  
(2603) READ(1,10)IOPT  
(2604) IF(IOPT.EQ.'NO') GOTO 135  
(2605) IF(IOPT.NE.'YE') GOTO 101  
(2606) C SET COMPLETE OUTPUT OPTION FLAG  
(2607) IHARD=1  
(2608) GO TO 135  
(2609) C CLOSE ALL TEMPORARY MAIL STORAGE FILES FOR DELAYED INPUT  
(2610) 113 CALL SRCH\$\$ (K\$CLOS, 'VC', 3, 0, 0, 0)  
(2611) CALL SRCH\$\$ (K\$CLOS, 'OM', 3, 0, 0, 0)  
(2612) CALL SRCH\$\$ (K\$CLOS, 'IM', 3, 0, 0, 0)  
(2613) RETURN  
(2614) C  
(2615) C SET ALL TEMPORARY MAIL FILES TO TOP OF FILE FOR  
(2616) C OUTPUT FORMATTING PRIOR TO SPOOL  
(2617) C  
(2618) 135 REWIND 18  
(2619) REWIND 17  
(2620) REWIND 16  
(2621) C INITIALIZE FILE INDICATOR  
(2622) IN=15  
(2623) C INCREMENT TO NEXT TEMPORARY STORAGE MAIL FILE

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(2624) 137 IN=IN+1  
(2625) C INITIALIZE LINE COUNTER FOR NEW PAGING CHECKS  
(2626) IPAGE=0  
(2627) C INITIALIZE FILE RECORD COUNTER  
(2628) ICOUNT=1  
(2629) 145 READ(IN,LND=1090)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,  
(2630) 1 CWA,CONT,ADD,TWX,FSC,NRF,DDT  
(2631) C IS THIS THE TOP OF PRINTER PAGE  
(2632) IF(IPAGE.NE.0) GOTO 107  
(2633) C  
(2634) C FORMAT HEADING FOR APPROPRIATE MAIL STATUS  
(2635) C  
(2636) WRITE(7,80)  
(2637) 80 FORMAT('1',4X,115('\*'))  
(2638) IF(IN.EQ.18) WRITE(7,90) IM,IO,IY  
(2639) IF(IN.EQ.17) WRITE(7,100) IN,IO,IY  
(2640) IF(IN.EQ.16) WRITE(7,110) IM,IO,IY  
(2641) 80 FORMAT(28X,'VOUGHT/DALLAS CORRESPONDENCE',16X,'INPUT DATE',2X,  
(2642) 1 2(I2,'-'),I2)  
(2643) 100 FORMAT(35X,'OUTGOING MAIL',25X,'INPUT DATE',2X,2(I2,'-'),I2)  
(2644) 110 FORMAT(35X,'INCOMING MAIL',25X,'INPUT DATE',2X,2(I2,'-'),I2)  
(2645) C  
(2646) C FORMAT RECORD ITEM ORDER FOR BRIEF LISTING  
(2647) C  
(2648) WRITE(7,120)  
(2649) 120 FORMAT(5X,'SUBJECT',71X,'DOCUMENT DATE',3X,'FILE SYSTEM CODE',/,  
(2650) 15X,'AUTHOR/SOURCE',18X,'TO',34X,'ROUTING',20X,'TYPE/LETTER NUMBER')  
(2651) C  
(2652) C IS THIS A COMPLETE OUTPUT LISTING  
(2653) C  
(2654) IF(IHARD.EQ.0) GOTO 106  
(2655) C  
(2656) C FORMAT RECORD ITEMS ORDER FOR A COMPLETE LISTING  
(2657) C  
(2658) WRITE(7,130)  
(2659) 130 FORMAT(5X,'ACTION DUE DATE',16X,'WA NUMBER/ID CODE',  
(2660) 119X,'CONTRACT NUMBER',/,5X,'NASA RESPONSIBLE ENGINEER(S)',  
(2661) 1/,5X,'REFERENCE DOCUMENT NUMBER(S)',/,5X,'DESCRIPTION OF '

(2662) 1,\*TRANSMITTAL OR SPECIFICATION\*)  
 (2663) C INCREMENT LINE COUNTER FOR EXTRA OUTPUT LINES DUE TO  
 (2664) C COMPLETE LISTING HEADING  
 (2665) IPAGE=IPAGE+4  
 (2666) 106 WRITE(7,85)  
 (2667) 85 FORMAT(5X,115(\*+\*))  
 (2668) C INCREMENT LINE COUNTER FOR NORMAL BRIEF OUTPUT LISTING  
 (2669) IPAGE=IPAGE+5  
 (2670) 107 WRITE(7,140)  
 (2671) 140 FORMAT(1HD,/) )  
 (2672) IPAGE=IPAGE+2  
 (2673) C  
 (2674) C PRINT RECORD NUMBER, SUBJECT,DATE,FILE CODE,AUTHOR,  
 (2675) C WHO TO,ROUTING, AND DOCUMENT/LETTER NUMBER OF  
 (2676) C OUTPUT FILE FOR SPOOL  
 (2677) C  
 (2678) WRITE(7,150)ICOUNT,PTIT,DD,FSC,ATHR,TO,ROUT,DLN  
 (2679) 150 FORMAT(1X,I2,\*,\*,1X,19A4,5X,2(12,\*-\*),I2,5X,2A4,A2,\*/\*,2A4,  
 (2680) 1 A2,/,5X,7A4,3X,8A4,3X,5(A3,\*/\*),A3,5X,4A4,A2)  
 (2681) C INCREMENT LINE COUNTER FOR THE TWO(2) LINE BRIEF  
 (2682) C LISTING OUTPUT OF RECORD ITEMS  
 (2683) IPAGE=IPAGE+2  
 (2684) C  
 (2685) C IS THIS A COMPLETE OUTPUT LISTING  
 (2686) C IF(IHARD.EG.0) GOTO 1070  
 (2687) C  
 (2688) C PRINT ACTION DUE DATE,WA NUMBER/ID CODE,CONTRACT NUMBER  
 (2689) C PRINT RESPONSIBLE NASA ENGINEER(S)  
 (2690) C PRINT REFFENCED DOCUMENT NUMBER(S)  
 (2691) C PRINT DISCIPTION OF TRANSMITTALS OR SPECIFICATIONS  
 (2692) C INCREMENT FOR APPROPRIATE NUMBER OF MULTIPLE ENTRIES  
 (2693) C  
 (2694) C WRITE(7,160)ADD,CWA,CONT  
 (2695) 160 FORMAT(5X,2(12,\*-\*),I2,23X,4A2,28X,5A4)  
 (2696) C IPAGE=IPAGE+1  
 (2697) C ILINE=0  
 (2698) C KRE=0  
 (2699) C DO 1301 L=1,3

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(2700)      IF(NRE(1,L).NE.* *) KRE=KRE+1
(2701) 1301 CONTINUE
(2702)      IF(KRE.EQ.0) GOTO 1050
(2703)      WRITE(7,170) (NRE(1,L),L=1,3)
(2704) 170  FORMAT(5X,3(A3,1X))
(2705)      ILINE=ILINE+1
(2706)      IPAGE=IPAGE+1
(2707) 1050 IF(ILINE.NE.0) GOTO 1065
(2708)      WRITE(7,175)
(2709) 175  FORMAT(5X,*NONE*)
(2710)      IPAGE=IPAGE+1
(2711) 1065 ILINE=0
(2712)      DO 1200 M=1,6
(2713)      KTW=0
(2714)      DO 1202 N=1,5
(2715)      IF(TWX(M,N).NE.* *) KTW=KTW+1
(2716) 1202 CONTINUE
(2717)      IF(KTW.EQ.0) GOTO 1250
(2718)      WRITE(7,1205) (TWX(M,N),N=1,5)
(2719) 1205 FORMAT(5X,4A4,A2)
(2720)      ILINE=ILINE+1
(2721)      IPAGE=IPAGE+1
(2722) 1200 CONTINUE
(2723) 1250 IF(ILINE.NE.0) GOTO 1299
(2724)      WRITE(7,1210)
(2725) 1210 FORMAT(5X,*NONE*)
(2726)      IPAGE=IPAGE+1
(2727) 1299 CONTINUE
(2728) 1060 DO 1400 I=1,30
(2729)      KDD=0
(2730)      DO 1401 J=1,21
(2731)      IF(DDT(I,J).NE.* *) KDD=KDD+1
(2732) 1401 CONTINUE
(2733)      IF(KDD.EQ.0) GOTO 1070
(2734)      WRITE(7,180) (DDT(I,J),J=1,21)
(2735) 180  FORMAT(4X,7(1X,2A4,A2))
(2736)      IPAGE=IPAGE+1
(2737) 1400 CONTINUE
```

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```
(2738) 1070 CONTINUE
(2739) C INCREMENT FILE RECORD COUNTER
(2740) ICOUNT=ICOUNT+1
(2741) C IS THIS A BRIEF OUTPUT LISTING
(2742) IF(IHARD.NE.0) GOTO 1080
(2743) C IS THIS THE BOTTOM OF THE PRINTER PAGE
(2744) C YES, SET TOP OF PRINTER PAGE FLAG
(2745) IF(IPAGE.GE.47) IPAGE=0
(2746) GO TO 145
(2747) C IS THIS THE BOTTOM OF THE PRINTER PAGE
(2748) C YES, SET TOP OF PRINTER PAGE FLAG
(2749) 1080 IF(IPAGE.GE.40) IPAGE=0
(2750) GO TO 145
(2751) C DOES THIS COMPLETE ALL TEMPORARY STORAGE MAIL FILES
(2752) 1090 IF(IN.NE.18) GOTO 137
(2753) 1100 CONTINUE
(2754) C WAS THIS A COMPLETE OUTPUT LISTING
(2755) IF(IHARD.EQ.0) GOTO 1110
(2756) C SET TO A BRIEF OUTPUT LISTING REQUEST
(2757) IHARD=0
(2758) GO TO 135
(2759) C
(2760) C CLOSE ALL OPEN FILES
(2761) 1110 CALL SRCH$(K$CLOS,*OUT *,6,0,0,0)
(2762) CALL SRCH$(K$CLOS,*DATE *,6,0,0,0)
(2763) CALL SRCH$(K$CLOS,*REVS *,6,0,0,0)
(2764) CALL SRCH$(K$CLOS,*VC *,3,0,0,0)
(2765) CALL SRCH$(K$CLOS,*OM *,3,0,0,0)
(2766) CALL SRCH$(K$CLOS,*IM *,3,0,0,0)
(2767) C
(2768) C DELETE THE TEMPORARY STORAGE MAIL FILES
(2769) CALL SRCH$(K$DELE,*VC *,6,0,0,0)
(2770) CALL SRCH$(K$DELE,*IM *,6,0,0,0)
(2771) CALL SRCH$(K$DELE,*OM *,6,0,0,0)
(2772) C
(2773) C SPOOL THE TEMPORARY OUTPUT FILE TO THE PRINTER
(2774) CALL COMI$(%OUTS*,4,12,IC)
(2775) 1120 CALL EXIT
```

SUBROUTINE INPTC

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(2776) END

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A	I	000002	2417S	2424A	2425					
ADD	I /BLK/	000163	2414S	2482M	2486M	2491M	2495M	2543	2545	
			2547	2549	2551	2553	2558	2560	2562	
			2664	2629M	2694					
ADHR	J /PLK/	000001	2414S	2482M	2486M	2491M	2495M	2543	2545	
			2547	2549	2551	2553	2558	2560	2562	
			2564	2629M	2678					
CLOSE	R EXTERNAL	000000	2583							
CNAMSS	R EXTERNAL	000000	2450							
CGMSS	R EXTERNAL	000000	2451	2774						
CON	J /PLK/	002731	2414S							
CONT	J /PLK/	000151	2414S	2482M	2486M	2491M	2543	2545	2547	
			2549	2551	2553	2558	2560	2562	2629M	
			2694							
COHT	J /BLK/	002727	2414S	2482M	2486M	2491M	2495M	2530M	2543	
			2545	2547	2549	2551	2553	2558	2560	
			2562	2564	2629M					
COUNTR	J	005523	2416S	2457M	2458	2480M	2520	2529M	2530	
			2580							
COA	I /BLK/	000145	2414S	2482M	2486M	2491M	2543	2545	2547	
			2549	2551	2553	2558	2560	2562	2629M	
			2694							
D	I /SRC/	000136	2414S							
DA	J /SRC/	000003	2414S							
DD	I /PLK/	000017	2414S	2482M	2486M	2491M	2543	2545	2547	
			2549	2551	2553	2558	2560	2562	2629M	
			2678							
DDO	I /SRC/	000021	2414S							
DDT	J /BLK/	000304	2414S	2482M	2491M	2543	2558	2560	2562	
			2629M	2731	2734					
DL	J /SRC/	000044	2414S							
DLN	J /BLK/	000042	2414S	2482M	2486M	2491M	2495M	2543	2545	
			2547	2549	2551	2553	2558	2560	2562	
			2564	2629M	2678					
DM	I /SRC/	000002	2414S							
DRE	J /SRC/	000171	2414S							
DT	J /SRC/	000157	2414S							
DTJ	D	000000	2414S							

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SUBROUTINE INPTC

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LTO	J /SRC/	000024	2414S							
DW	J /SRC/	000145	2414S							
EXIT	R EXTERNAL	000000	2452	2775						
FSC	J /BLK/	000262	2414S	2482M	2486M	2491M	2495M	2543	2545	
			2547	2549	2551	2553	2558	2560	2562	
			2564	2629M	2678					
FVD	I /SRC/	000203	2414S							
I	I	005525	2566M	2568	2728M	2731	2734			
IANN	I /FLA/	000003	2414S							
IBUF	I /FSIOBF/	000000	2412S							
IC	I	005524	2450A	2451A	2462A	2464A	2466A	2472A	2774A	
ICCOUNT	I	005527	2417S	2628M	2678	2740M				
ID	I	005530	2417S	2511M	2516	2517	2520	2586	2638	
			2639	2640						
IDC	I /BLK/	000142	2414S	2482M	2486M	2491M	2495M	2543	2545	
			2547	2549	2551	2553	2558	2560	2562	
			2564	2629M						
IEX	J /SRC/	000211	2414S							
IFILE	I	005531	2417S	2536M	2539	2543	2545	2547	2549	
			2551	2553						
IHARD	I	005532	2417S	2594M	2607M	2654	2686	2742	2755	
			2757M							
ILINE	I	005533	2417S	2697M	2705M	2707	2711M	2720M	2723	
IN	I	005534	2417S	2511M	2516	2517	2520	2586	2638	
			2639	2640						
IMELE	I /FLA/	000001	2414S							
IMIS	I /FLA/	000005	2414S							
IN	I	005535	2417S	2485M	2486	2490M	2491	2622M	2624M	
			2629	2638	2639	2640	2752			
INPSC	I EXTERNAL	000000	2525							
INPTC	I	000000	2412S							
IOPT	I	005536	2417S	2435M	2436	2437	2442M	2443	2444	
			2445	2577M	2578	2579	2590M	2591	2592	
			2603M	2604	2605					
IFAGE	I	005537	2417S	2626M	2632	2665M	2667M	2672M	2683M	
			2696M	2706M	2710M	2721M	2726M	2736M	2745M	
			2748M							
IPR	I /FLA/	000004	2414S							

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IREAD	I	/FLA/	000006	24145							
IT	J	/SRC/	000056	24145							
ITRSP	I	/FLA/	000000	24145	2474M						
ITLFX	I	/FLA/	000002	24145							
IY	I		005540	24175	2511M	2517	2520	2586	2638	2639	
				2640							
IYF	I		000000	24175							
J	I		005541	2567M	2568	2597M	2598	2730M	2731	2734M	
JOBY	I		005542	24175	2434M	2446M	2470	2525			
K\$ALLO	I	PARAMETER		24155							
K\$CACC	I	PARAMETER		24155							
K\$CLUS	I	PARAMETER		24155	2448	2449	2584	2610	2611	2612	
				2761	2762	2763	2764	2765	2766		
K\$DOVV	I	PARAMETER		24155							
K\$ICUR	I	PARAMETER		24155							
K\$DFLE	I	PARAMETER		24155	2453	2769	2770	2771			
K\$CHPB	I	PARAMETER		24155							
K\$DTIM	I	PARAMETER		24155							
K\$ENR	I		000000	24155							
K\$FXST	I	PARAMETER		24155							
K\$CONL	I	PARAMETER		24155							
K\$FICS	I	PARAMETER		24155							
K\$ONCF	I	PARAMETER		24155							
K\$ICUR	I	PARAMETER		24155							
K\$INFD	I	PARAMETER		24155							
K\$KATN	I	PARAMETER		24155							
K\$ISEG	I	PARAMETER		24155							
K\$INFD	I	PARAMETER		24155							
K\$NENT	I		000000	24155							
K\$NSIZ	I	PARAMETER		24155							
K\$MNT	I	PARAMETER		24155							
K\$NDAM	I	PARAMETER		24155	2462	2464	2466	2472			
K\$NNTN	I	PARAMETER		24155							
K\$NDAM	I	PARAMETER		24155	2596						
K\$NSGB	I	PARAMETER		24155							
K\$NSGS	I	PARAMETER		24155							
K\$FOSA	I	PARAMETER		24155							
K\$FOSN	I	PARAMETER		24155							

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KZPOSR	I	PARAMETER	24153																			
KZPRCA	I	PARAMETER	24153																			
KZIRLR	I	PARAMETER	24153																			
KZPROT	I	PARAMETER	24153																			
KZKWAR	I	PARAMETER	24153	2462	2464	2466	2472	2596														
KZREAD	I	PARAMETER	24153																			
KZRPUS	I	PARAMETER	24153																			
KZRSUB	I	PARAMETER	24153																			
KZIRLK	I	PARAMETER	24153																			
KZSEAT	I	000000	24153																			
KZBETC	I	PARAMETER	24153																			
KZBLTH	I	PARAMETER	24153																			
KZSPOS	I	PARAMETER	24153																			
KZSRIN	I	PARAMETER	24153																			
KZLRNC	I	PARAMETER	24153																			
KZUPUS	I	PARAMETER	24153																			
KZRNIT	I	PARAMETER	24153																			
END																						
ENT	J	/SRC/	000000	2729M	2731M	2733																
ERL			000000	2514M																		
ETA	I		000000	2699M	2700M	2702																
ETL	I		000000	2710M	2715M	2717																
EV0	I		000000	2699M	2700	2703M																
EV1	I	/SRC/	000000	2514M																		
EV2	I		000000	2712M	2715	2718																
EV3	I	/BLK/	000000	2414M	2482M	2486M	2491M	2543	2545	2547												
				2549	2551	2553	2558	2560	2562	2565												
				2629M																		
EV4	I		000000	2714M	2715	2718M																
EV5	J	/BLK/	000276	2414M	2482M	2486M	2491M	2495M	2543	2545												
				2547	2549	2551	2553	2558	2560	2562												
				2564	2629M	2700	2703															
OPEN	R	EXTERNAL	000000	2471																		
PTIT	J	/BLK/	002661	2414M	2482M	2486M	2491M	2495M	2543	2545												
				2547	2549	2551	2553	2558	2560	2562												
				2564	2629M	2673																
EV6	I	/BLK/	002660	2414M	2482M	2486M	2491M	2495M	2543	2545												
EV7	J	/BLK/	000123	2414M	2482M	2486M	2491M	2543	2545	2547												
				2549	2551	2553	2558	2560	2562	2629M												

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			2678							
SRC111	R	EXTERNAL	000000	2448	2449	2453	2462	2464	2466	2472
				2584	2596	2610	2611	2612	2761	2762
				2763	2764	2765	2766	2769	2770	2771
SUB	J	/BLK/	000054	2414S	2482M	2486M	2491M	2543	2545	2547
				2549	2551	2553	2558	2560	2562	2629M
I	J		000021	2414S						
IF	D		000000	2414S						
TLVD	D	/SRC/	000173	2414S						
TLV	L		000000	2414S						
TIMEOUT	R	EXTERNAL	000000	2429						
TLI	J		000073	2414S						
TLJ	D		000000	2414S						
TLUL	C		000000	2414S						
TL	I		000000	2414S						
TLVD	D	/SRC/	000177	2414S						
TL	J	/BLK/	000022	2414S	2472M	2486M	2491M	2543	2545	2547
				2549	2551	2553	2558	2560	2562	2629M
				2678						
TLX	J	/BLK/	000160	2414S	2482M	2486M	2491M	2543	2545	2547
				2549	2551	2553	2558	2560	2562	2568
				2629M	2715	2718				
UPDATE	R	EXTERNAL	000000	2574						
TA	I	/SRC/	000141	2414S						
TL			003517	2435	2442	2577	2590	2598	2599D	2603
TL0			004154	2639	2643D					
TL00			000771	2620	2484					
TL001			001461	2470	2502D	2511	2516	2517		
TL002			001671	2531	2536	2539				
TL003			001675	2531	2532D					
TL004			002077	2536	2537D					
TL01			005823	2600D	2605					
TL02			001553	2526D	2578					
TL03			003502	2565	2571	2575D	2579			
TL050			005045	2702	2707D					
TL06			004507	2754	2759D					
TL00			005223	2726D						

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1065	005065	1707	17119	
107	004547	1632	16700	
1070	005356	1686	1733	2758D
1080	005355	1742	17490	
1090	005765	1629	17520	
11	000755	1632	16350	
110	004210	1690	16440	
110E	005373	17550		
111	002415	15800	1592	
1110	005401	1755	17610	
112	005420	1592	15890	
1120	005517	17750		
113	004635	1591	16100	
117	000706	1656	16620	
120	004250	1648	16490	
1200	005175	1712	17220	
122	005120	1714	17160	
1215	005151	1710	17190	
1212	005212	1724	17250	
1250	005203	1717	17250	
1259	005223	1725	17270	
13	000412	14300	1445	
130	004357	1650	16590	
1301	005174	1699	17010	
135	005166	1604	1608	2618D 275E
137	005705	1624	1750	
14	004316	1830	14490	
140	004553	1570	16710	
1410	005330	1728	17370	
1451	005254	1730	17320	
145	005713	16290	1756	2750
15	003601	1443	1447	2452D
150	004617	1678	16790	
16	000577	1500	14590	2480
160	004724	1624	16950	
17	001534	1520	15210	2506
170	005031	1703	17090	
175	005054	1708	17090	

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180	001314	734	7351	
181	001337	738	7310	
2000	001055	7482	74850	
2001	001167	7410	7495	
2015	001350	7490	7491	24940
2016	001187	7495	7496	
2019	001185	7405	7486	24890
2011	001027	7460	7460	
2020	001164	7401		
2041	001326	7495	75006	
21	001347	7488	7488	
3	001331	7425	7520	2437
30	001405	7508	75000	
3000	003272	7566	75705	
3001	003225	7567	7569	
3010	003240	7568	7572	
3020	003241	7572	7570	
3030	003222	7554	74550	
4	001337	7427	74200	
40	001344	7511	75100	
50	003527	7600	76011	
70	003306	7575	75760	
80	004012	7834	78270	
85	004535	7666	76670	
90	004110	7638	76410	
95	003471	7525	75940	

0000 ERRORS [ <INPTC > (0-REV16.2) ]

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APPENDIX C

L\_FILE FOR DESIGN INFORMATION RELEASE/REPORT



(0001) C  
 (0002) C DIR-REPORT FILE FOR NASA/SPO  
 (0003) C  
 (0104) C WRITTEN BY DANNY K. HARRIS - VOUGHT CORP.  
 (0005) C FOR THE NASA/SPO/PRIME 300 MINI. COMPUTER  
 (0006) C  
 (0007) C  
 (0008) C  
 (0008) C COMMON BLOCK FOR THE DIR FILE  
 (0008) C  
 (0008) C COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
 (0008) C COMMON COMP,REV,RDAT,WA  
 (0008) C  
 (0008) C DATA DECLARATION BLOCK FOR THE DIR FILE  
 (0008) C  
 (0008) C INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
 (0008) C INTEGER\*4 COMP(21)  
 (0008) C INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
 (0008) C  
 (0009) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0009) C NOLIST  
 (0010) C INTEGER\*2 IC,IPAS(3),IT  
 (0011) C CALL CLEAR  
 (0012) C  
 (0013) C FILES USED  
 (0014) C FILE UNIT FUNIT DESCRIPTION  
 (0015) C  
 (0016) C TTY 1 1 TERMINAL  
 (0017) C DIR 6 2 DIR DATA STORAGE FILE  
 (0018) C OUT 7 3 OUTPUT FILE FOR THE SPOOLER  
 (0019) C REVS 8 4 TEMP FILE FOR USE IN THE REVISE RUN  
 (0020) C INACT 9 5 INACTIVE DOCUMENT STORAGE FILE - ARCHIVE RUN  
 (0021) C TEMP 10 6 GENERAL PURPOSE TEMP FILE  
 (0022) C  
 (0023) C  
 (0024) C CALL COMISS(\*TTY \*,6,12,IC)  
 (0025) C CALL IDENT

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(0026) CALL BREAK\$(.TRUE.)  
 (0027) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*DIR \* ,6,2,IT,IC)  
 (0028) IF(IC.NE.0) GOTO 1000  
 (0029) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*REVS \* ,6,4,IT,IC)  
 (0030) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*TEMP \* ,6,6,IT,IC)  
 (0031) WRITE(1,3)  
 (0032) CALL BREAK\$(.FALSE.)  
 (0033) 2 READ(1,4)IDES  
 (0034) REWIND 8  
 (0035) REWIND 10  
 (0036) 4 FORMAT(A2)  
 (0037) IF(IDES.EQ.\*IN\*) CALL INPTDR  
 (0038) IF(IDES.EQ.\*SE\*) CALL SEADR  
 (0039) IF(IDES.EQ.\*RE\*) CALL KEVSDR  
 (0040) IF(IDES.EQ.\*AR\*) CALL ARCDR  
 (0041) IF(IDES.EQ.\*GU\*) GO TO 1001  
 (0042) CALL CLEAR  
 (0043) WRITE(1,3)  
 (0044) 3 FORMAT(\* PLEASE CHOSE ONE OF THE FOLLOWING\* ,/ ,  
 (0045) 1\* MODE KEY\* ,/ ,  
 (0046) 1\* INPUT INP\* ,/ ,  
 (0047) 1\* REVISE REV\* ,/ ,  
 (0048) 1\* SEARCH SEA\* ,/ ,  
 (0049) 1\* ARCHIVE ARC\* ,/ ,  
 (0050) 1\* QUIT QUIT\* ,/ / ,  
 (0051) GO TO 2  
 (0052) 1000 WRITE(1,1002)  
 (0053) 1002 FORMAT(\*DIR FILE IS IN USE - PLEASE TRY LATER\* / / / / / )  
 (0054) 1001 IPAS(1)=\* \*  
 (0055) IPAS(2)=\* \*  
 (0056) IPAS(3)=\* \*  
 (0057) CALL SRCH\$\$ (K\$CLOS,\*DIR \* ,6,0,0,0)  
 (0058) CALL SRCH\$\$ (K\$CLOS,\*REVS \* ,6,0,0,0)  
 (0059) CALL SRCH\$\$ (K\$CLOS,\*TEMP \* ,6,0,0,0)  
 (0060) CALL ATCH\$\$ (\*\_MAIL\* ,6,K\$ALLD,IPAS,K\$IMFD+K\$SETH,IC)  
 (0061) CALL RESU\$\$ (\*BFILE\* ,5)  
 (0062) CALL EXIT  
 (0063) END

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AC1	J //	000175	0008S						
ARCOR	R EXTERNAL	000000	0040						
ATCHSS	R EXTERNAL	000000	0050						
BREAKS	R EXTERNAL	000000	0026	0032					
CLEAR	R EXTERNAL	000000	0011	0042					
COMISS	R EXTERNAL	000000	0024						
COMP	J //	000200	0005S						
CPN	J //	000155	0008S						
DIR	J //	000120	0008S						
DT	I //	000140	0008S						
EXIT	R EXTERNAL	000000	0052						
IC	I	000425	0010S	0024A	0027A	0028	0029A	0030A	0060A
ID	J //	000167	0008S						
IDENT	I EXTERNAL	000000	0025						
IDES	I	000426	0033M	0037	0038	0039	0040	0041	
INPTDR	I EXTERNAL	000000	0037						
IPAS	I	000002	0010S	0054M	0055M	0056M	0060A		
IT	I	000427	0010S	0027A	0029A	0030A			
K\$ALLD	I PARAMETER		0009S						
K\$CACC	I PARAMETER		0009S						
K\$CLOS	I PARAMETER		0009S	0057	0058	0059			
K\$CONV	I PARAMETER		0009S						
K\$CJRR	I PARAMETER		0009S						
K\$DELE	I PARAMETER		0009S						
K\$DMPB	I PARAMETER		0009S						
K\$DTIM	I PARAMETER		0009S						
K\$ENTR	I	000000	0009S						
K\$EXST	I PARAMETER		0009S						
K\$GGND	I PARAMETER		0009S						
K\$GFOS	I PARAMETER		0009S						
K\$HOME	I PARAMETER		0009S						
K\$ICUK	I PARAMETER		0009S						
K\$IMFD	I PARAMETER		0009S	0060					
K\$IRTN	I PARAMETER		0009S						
K\$ISEG	I PARAMETER		0009S						
K\$IUFD	I PARAMETER		0009S						
K\$MENT	I	000000	0009S						
K\$MSIZ	I PARAMETER		0009S						

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K\$MVNT	I	PARAMETER	0009S						
K\$NDAM	I	PARAMETER	0009S	0027	0029	0030			
K\$NRKN	I	PARAMETER	0009S						
K\$NDAM	I	PARAMETER	0009S						
K\$NSGD	I	PARAMETER	0009S						
K\$NSGS	I	PARAMETER	0009S						
K\$POSA	I	PARAMETER	0009S						
K\$POSN	I	PARAMETER	0009S						
K\$POSR	I	PARAMETER	0009S						
K\$PREA	I	PARAMETER	0009S						
K\$PRER	I	PARAMETER	0009S						
K\$PROT	I	PARAMETER	0009S						
K\$RDWR	I	PARAMETER	0009S	0027	0029	0030			
K\$READ	I	PARAMETER	0009S						
K\$RPOS	I	PARAMETER	0009S						
K\$RSUB	I	PARAMETER	0009S						
K\$R\$LK	I	PARAMETER	0009S						
K\$SENT	I	000000	0009S						
K\$SETC	I	PARAMETER	0009S						
K\$SETH	I	PARAMETER	0009S	0060					
K\$SPOS	I	PARAMETER	0009S						
K\$SRTN	I	PARAMETER	0009S						
K\$TRNC	I	PARAMETER	0009S						
K\$UPOS	I	PARAMETER	0009S						
K\$WRIT	I	PARAMETER	0009S						
PTIT	J	//	000052						
R	I	//	000177						
RDAT	I	//	000253						
RESU\$\$	R	EXTERNAL	000000						
REV	I	//	000252						
KEY\$DR	R	EXTERNAL	000000						
RFT	J	//	000130						
SEAGR	R	EXTERNAL	000000						
SRCH\$\$	R	EXTERNAL	000000	0027	0029	0030	0057	0058	0059
SYS	J	//	000143						
TIT	J	//	000000						
VEH	I	//	000171						
WA	I	//	000256						

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C

WAN	I //	000151	0008S		
-1000		000317	0028	0052D	
-1001		000353	0041	0054D	
-1002		000323	0052	0053D	
-2		000062	0033D	0051	
-3		000141	0031	0043	0044D
-4		000077	0033	0036D	

0000 E&RGRS [<.MAIN.>FTN-REV14.2]

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(0064) SUBROUTINE IDENT  
(0065) C  
(0066) C THIS ROUTINE KEEPS TRACK OF WHO ACCESSED THE CALLING  
(0067) C PROGRAM LAST  
(0068) C  
(0069) INTEGER\*2 ARRAY(15)  
(0070) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
(0070) NOLIST  
(0071) CALL BREAKS(.TRUE.)  
(0072) CALL TIMDAT(ARRAY,15)  
(0073) C  
(0074) C OPEN TEMP FILE (FUNIT 16)  
(0075) C  
(0076) CALL SRCH\$\$ (K\$NDAM+K\$RDWR,\*USER\*,5,16,1,IC)  
(0077) C  
(0078) C OPEN USER FILE (FUNIT 15)  
(0079) C  
(0080) CALL SRCH\$\$ (K\$NDAM+K\$RDWR,\*USER\*,4,15,1,IC)  
(0081) C  
(0082) C NOW WRITE USERS LOGIN ID, DATE (MMDDY), TIME, AND USER NUMBER  
(0083) C  
(0084) AMIN=ARRAY(4)  
(0085) AH=AMIN/60.0  
(0086) IH=AH  
(0087) IMM=IH\*60  
(0088) IMIN=AMIN  
(0089) IDM=IMIN-IMM  
(0090) 25 WRITE(20,1)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),  
(0091) 1 (ARRAY(I),I=1,3),ARRAY(12)  
(0092) 1 FORMAT(3A2,2(I3,':'),I3,1X,2(A2,'/'),A2,I3) .  
(0093) 2 FORMAT(3A2,2(I3,1X),I3,1X,2(A2,1X),A2,I3)  
(0094) C  
(0095) C NOW COPY THE CONTENTS OF USER TO TUSER  
(0096) C  
(0097) READ(19,2,END=50)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),  
(0098) 1 (ARRAY(I),I=1,3),ARRAY(12)  
(0099) GO TO 25  
(0100) 50 CALL SRCH\$\$ (K\$CLOS,\*USER\*,4,0,0,0)

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```
(0101) CALL SRCH$$ (K$CLOS, *USER*, 5, 0, 0, 0)
(0102) CALL SRCH$$ (K$DELE, *USER*, 4, 0, 0, 0)
(0103) CALL CNAM$$ (*USER*, 5, *USER*, 4, IC)
(0104) CALL BREAK$ (.FALSE.)
(0105) RETURN
(0106) END
```

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AH	R	000347	0085M	0086				
AMIN	R	000351	0084M	0085	0088			
ARRAY	I	000002	0069S	0072A	0084	0090	0097M	
BREAKS	R EXTERNAL	000000	0071	0104				
CNAMSS	R EXTERNAL	000000	0103					
I	I	000353	0090M	0097M				
IC	I	000354	0076A	0080A	0103A			
IDENT	I	000000	0064S					
IDM	I	000355	0089M	0090	0097M			
IH	I	000356	008EM	0087	0090	0097M		
IMIN	I	000357	0088M	0089				
IMM	I	000360	0087M	0089				
K\$ALLO	I PARAMETER		0070S					
K\$CACC	I PARAMETER		0070S					
K\$CLOS	I PARAMETER		0070S	0100	0101			
K\$CONV	I PARAMETER		0070S					
K\$CURR	I PARAMETER		0070S					
K\$DELE	I PARAMETER		0070S	0102				
K\$DMPB	I PARAMETER		0070S					
K\$DTIM	I PARAMETER		0070S					
K\$ENTR	I	000000	0070S					
K\$EXST	I PARAMETER		0070S					
K\$GCND	I PARAMETER		0070S					
K\$GPOS	I PARAMETER		0070S					
K\$HOME	I PARAMETER		0070S					
K\$ICUR	I PARAMETER		0070S					
K\$IMFD	I PARAMETER		0070S					
K\$IRTN	I PARAMETER		0070S					
K\$ISEG	I PARAMETER		0070S					
K\$IJFD	I PARAMETER		0070S					
K\$MENT	I	000000	0070S					
K\$MSIZ	I PARAMETER		0070S					
K\$MVRT	I PARAMETER		0070S					
K\$NDAM	I PARAMETER		0070S	0076	0080			
K\$NRTN	I PARAMETER		0070S					
K\$NSAM	I PARAMETER		0070S					
K\$NSGD	I PARAMETER		0070S					
K\$NSGS	I PARAMETER		0070S					

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K\$POSA	I	PARAMETER	0070S					
K\$POSN	I	PARAMETER	0070S					
K\$POSR	I	PARAMETER	0070S					
K\$PREA	I	PARAMETER	0070S					
K\$PRER	I	PARAMETER	0070S					
K\$PPOT	I	PARAMETER	0070S					
K\$RDWR	I	PARAMETER	0070S	0076	0080			
K\$READ	I	PARAMETER	0070S					
K\$RFOS	I	PARAMETER	0070S					
K\$RSUB	I	PARAMETER	0070S					
K\$RWLK	I	PARAMETER	0070S					
K\$SENT	I	000000	0070S					
K\$SETC	I	PARAMETER	0070S					
K\$SCTH	I	PARAMETER	0070S					
K\$SPOS	I	PARAMETER	0070S					
K\$SRTN	I	PARAMETER	0070S					
K\$STRNC	I	PARAMETER	0070S					
K\$UPOS	I	PARAMETER	0070S					
K\$WRIT	I	PARAMETER	0070S					
SRCH\$\$	R	EXTERNAL 000000	0076	0080	0100	0101	0102	
YIMDAT	R	EXTERNAL 000000	0072					
-1		000157	0090	0092D				
-2		000203	0093D	0097				
-25		000077	0090D	0099				
-50		000304	0097	0100D				

0000 ERRORS [ &lt;IDENT &gt;FTN-REV14.2 ]

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(0107) SUBROUTINE IDUSER(IAI)  
(0108) INTEGER\*2 IPASS(4),IA(15)  
(0109) C  
(0110) C THIS ROUTINE CHECKS TO MAKE SURE THAT THE  
(0111) C INCOMING USER IS VALID  
(0112) C  
(0113) CALL BREAKS(.TRUE.)  
(0114) CALL TIMDAT(IA,15)  
(0115) CALL CLEAR  
(0116) 102 IF(IA(13).NE.\*SY\*) GO TO 101  
(0117) IF(IA(14).NE.\*ST\*) GO TO 101  
(0118) IF(IA(15).NE.\*EM\*) GO TO 101  
(0119) GO TO 103  
(0120) 101 CALL COMISS(\*LOUSER\*,6,12,IC)  
(0121) CALL EXIT  
(0122) 103 CALL BREAKS(.FALSE.)  
(0123) IAI=IA(13)  
(0124) RETURN  
(0125) END

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830

BREAKS	R	EXTERNAL	000000	0113	0122					
CLEAR	R	EXTERNAL	000000	0115						
COMISS	R	EXTERNAL	000000	0120						
EXIT	R	EXTERNAL	000000	0121						
IA	I		000005	0108S	0114A	0116	0117	0118	0123	
IAI	I	ARGUMENT	000003	0107S	0123M					
IC	I		000073	C120A						
IDUSER	I		000000	C107S						
IPASS	I		000024	C108S						
TIMDAT	R	EXTERNAL	000000	0114						
_101			000057	0116	0117	0118	0120D			
_102			000037	0116D						
_103			000066	0119	0122D					

0000 ERRORS [(<IDUSER>FTN-REV14.2)]

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```
(0125) SUBROUTINE INPTDR
(0127) C
(0127) C COMMON BLOCK FOR THE DIR FILE
(0127) C
(0127) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0127) COMMON COMP,REV,RDAT,WA
(0127) C
(0127) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0127) C
(0127) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0127) INTEGER*4 COMP(21)
(0127) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0127) C
(0128) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0128) C NOLIST
(0129) C INTEGER*2 A(15),IOPT,IT,IC
(0130) C INTEGER*4 DIRR(4)
(0131) C
(0132) C INPUT SUBROUTINE FOR THE DIR-REPORT FILE
(0133) C
(0134) C CALL CLEAR
(0135) C
(0136) C VALIDATE THE INCOMING USER
(0137) C
(0138) CALL BREAKS(.TRUE.)
(0139) CALL TIMDAT(A,15)
(0140) IF(A(13).EQ.*JW*.OR.A(13).EQ.*NH*.OR.A(13).EQ.*RJ*.OR.
(0141) 1 A(13).EQ.*DK*) GOTO 3
(0142) WRITE(1,4)
(0143) 4 FORMAT(* SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.*,/,
(0144) 1* IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT.2621
(0145) 1.*)
(0146) RETURN
(0147) 3 CONTINUE
(0148) 200 CALL BREAKS(.FALSE.)
(0149) WRITE(1,1)
(0150) 1 FORMAT(* WELCOME TO THE DIR-REPORT FILE INPUT ROUTINE',/
```

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```
(0151)      1* PLEASE INPUT INFORMATION BETWEEN EXCLAMATION MARKS*,/  
(0152)      2* AND LEFT JUSTIFY ALL ENTRIES*,/  
(0153) 500  WRITE(1,505)  
(0154) 505  FORMAT(1H0,/,*,* ENTER THE DIR OR REPORT NUMBER*,/,*!*,14X,*!*/)   
(0155)      READ(1,510,ERR=500) DIRR  
(0156) 520  READ(6,END=1010) TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
(0157) 510  FORMAT(1X,3A4,A2)  
(0158)      DO 530 I=1,4  
(0159)      IF(DIR(I).NE.DIRR(I)) GOTO 580  
(0160) 530  CONTINUE  
(0161)      WRITE(1,540)  
(0162) 540  FORMAT(* THIS DIR/REPORT IS ALREADY IN THE DATA FILE*/)  
(0163)      CALL SHOWDR  
(0164) 545  WRITE(1,550)  
(0165) 550  FORMAT(1H0,/,*,* DO YOU WISH TO REVISE (YES OR NO)*//)  
(0166)      READ(1,560,ERR=545) IOPT  
(0167) 560  FORMAT(1A2)  
(0168)      IF(IOPT.EQ.*NO*) GOTO 1005  
(0169)      IF(IOPT.NE.*YE*) GOTO 545  
(0170)      R=1  
(0171)      CALL INPSDR  
(0172)      WRITE(10) TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
(0173) 570  READ(6,END=600) TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
(0174)      WRITE(10) TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
(0175)      GO TO 570  
(0176) 580  WRITE(10) TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
(0177)      GO TO 520  
(0178) 600  CALL SRCH$$ (K$CLOS,*TEMP  *,6,0,0,0)  
(0179)      CALL SRCH$$ (K$CLOS,*DIR   *,6,0,0,0)  
(0180)      CALL SRCH$$ (K$DELE,*DIR   *,6,0,0,0)  
(0181)      CALL CNAM$$ (*TEMP  *,6,*DIR  *,6,IC)  
(0182)      CALL SRCH$$ (K$RDWR+K$NDAM,*DIR  *,6,2,IT,IC)  
(0183)      CALL SRCH$$ (K$RDWR+K$NDAM,*TEMP *,6,6,IT,IC)  
(0184)      GO TO 900  
(0185) 1010 R=0  
(0186)      DO 800 J=1,4  
(0187)      DIR(J)=DIRR(J)  
(0188) 800  CONTINUE
```

```
(0189)      CALL INPSDR
(0190)      WRITE(6)TIT,PTIT,DIRR,DT,SYS,WAN,VEH,REV,RDAT
(0191) 1005  CALL SRCH$$ (K$CLOS,*TEMP  *,6,0,0,0)
(0192)      CALL SRCH$$ (K$DELE,*TEMP  *,6,0,0,0)
(0193)      CALL SRCH$$ (K$RDWR+K$NDAM,*TEMP  *,6,6,IT,IC)
(0194) 900   WRITE(1,1001)
(0195) 1001  FORMAT(* IS THERE FURTHER INFORMATION TO BE INPUT*,
(0196)      1* (YES OR NO)*//)
(0197)      READ(1,1002) IANS
(0198)      REWIND 6
(0199)      IF (IANS.EQ.*N*) RETURN
(0200)      IF (IANS.NE.*Y*) GOTO 900
(0201) 1002  FORMAT(1A1)
(0202)      GO TO 500
(0203)      END
```

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A	I	000002	0129S	0139A	0140				
ACT	J //	000175	0127S						
BREAKS	R EXTERNAL	000000	0138	0148					
CLEAR	R EXTERNAL	000000	0134						
CNAMSS	R EXTERNAL	000000	0181						
COMP	J //	000200	0127S						
CON	J //	000155	0127S						
DIR	J //	000120	0127S	0156M	0159	0172	0173M	0174	0176
			0187M						
DIRR	J	000021	0130S	0155M	0159	0187	0190		
DT	I //	000140	0127S	0156M	0172	0173M	0174	0176	0190
I	I	001311	0158M	0159					
IAN	I	001313	0197M	0199	0200				
IC	I	001314	0129S	0181A	0182A	0183A	0193A		
ID	J //	000167	0127S						
INPSDR	J EXTERNAL	000000	0171	0189					
INPTDR	I	000000	0126S						
IOPT	I	001315	0129S	0166M	0168	0169			
IT	I	001316	0129S	0182A	0183A	0193A			
J	I	001317	0186M	0187					
K\$ALLD	I PARAMETER		0129S						
K\$CACC	I PARAMETER		0128S						
K\$CLOS	I PARAMETER		0128S	0178	0179	0191			
K\$CONV	I PARAMETER		0129S						
K\$CURR	I PARAMETER		0128S						
K\$DELE	I PARAMETER		0128S	0180	0192				
K\$DMPB	I PARAMETER		0129S						
K\$DYM	I PARAMETER		0128S						
K\$ENTR	I	000000	0128S						
K\$EAST	I PARAMETER		0128S						
K\$GOND	I PARAMETER		0128S						
K\$GPOS	I PARAMETER		0128S						
K\$HOME	I PARAMETER		0128S						
K\$ICUR	I PARAMETER		0128S						
K\$IMFD	I PARAMETER		0128S						
K\$IRTN	I PARAMETER		0128S						
K\$ISEG	I PARAMETER		0128S						
K\$IUFD	I PARAMETER		0128S						

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K\$MENT	I	000000	0128S							
K\$MSIZ	I	PARAMETER	0128S							
K\$M'NT	I	PARAMETER	0128S							
K\$NDAM	I	PARAMETER	0128S	0182	0183	0193				
K\$NRTN	I	PARAMETER	0128S							
K\$NSAM	I	PARAMETER	0128S							
K\$NSGD	I	PARAMETER	0128S							
K\$NSGS	I	PARAMETER	0128S							
K\$POSA	I	PARAMETER	0128S							
K\$POSN	I	PARAMETER	0128S							
K\$POSR	I	PARAMETER	0128S							
K\$PREA	I	PARAMETER	0128S							
K\$PRER	I	PARAMETER	0128S							
K\$PROT	I	PARAMETER	0128S							
K\$RDWR	I	PARAMETER	0128S	0182	0183	0193				
K\$READ	I	PARAMETER	0128S							
K\$RPOS	I	PARAMETER	0128S							
K\$RCUB	I	PARAMETER	0128S							
K\$RWLK	I	PARAMETER	0128S							
K\$SENT	I	000000	0128S							
K\$SETC	I	PARAMETER	0128S							
K\$SETH	I	PARAMETER	0128S							
K\$SPOS	I	PARAMETER	0128S							
K\$SRTN	I	PARAMETER	0128S							
K\$TRNC	I	PARAMETER	0128S							
K\$UPOS	I	PARAMETER	0128S							
K\$WRIT	I	PARAMETER	0128S							
PTIT	J	//	000052	0127S	0156M	0172	0173M	0174	0176	0190
R	I	//	000177	0127S	0170M	0185M				
RDAT	I	//	000253	0127S	0156M	0172	0173M	0174	0176	0190
REV	I	//	000252	0127S	0156M	0172	0173M	0174	0176	0190
RPT	J	//	000130	0127S						
SHOWDR	R	EXTERNAL	000000	0163						
SRCH\$\$	R	EXTERNAL	000000	0178	0179	0180	0182	0183	0191	0192
				0193						
SYS	J	//	000143	0127S	0156M	0172	0173M	0174	0176	0190
TIMDAT	R	EXTERNAL	000000	0127S						
TIT	J	//	000000	0127S	0156M	0172	0173M	0174	0176	0190

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VEH	I //	000171	0127S	C156M	0172	0173M	0174	0176	0190
WA	I //	000256	0127S						
WAN	I //	000151	C127S	C156M	0172	0173M	0174	0176	0190
1		000210	0149	C150D					
1001		001220	0194	0195C					
1002		001303	0197	0201D					
1005		001163	0168	0191D					
1010		001077	0156	0185D					
200		000202	0149D						
3		000202	0140	0147D					
4		000103	0142	0143D					
500		000317	0153D	C155	0202				
505		000323	0153	0154D					
510		000432	0155	0157D					
520		000371	0156D	0177					
530		000464	0158	0160D					
540		000500	0161	0162D					
545		000533	0164D	C166	0169				
550		000537	0164	0165D					
560		000600	0166	0167D					
570		000661	0173D	0175					
580		000760	C159	0176D					
600		001017	0173	0178D					
800		001114	0186	0188D					
900		001213	C184	0194D	0200				

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0000 ERRORS [<INPTDR>FTN-REV14.2]

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```
(0204) SUBROUTINE INPSDR
(0205) C
(0205) C COMMON BLOCK FOR THE DIR FILE
(0205) C
(0205) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0205) COMMON COMP,REV,RDAT,WA
(0205) C
(0205) C
(0205) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0205) C
(0205) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0205) INTEGER*4 COMP(21)
(0205) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0205) C
(0206) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0206) NCLIST
(0207) INTEGER*2 IER(3)
(0208) C
(0209) C THIS ROUTINE PROVIDES THE BASIC I/O FOR THE INPUT/REVISE ROUTINES
(0210) C
(0211) IF(R.EQ.0) GO TO 100
(0212) 2 WRITE(1,1)
(0213) 1 FORMAT(* HOW MANY ITEMS DO YOU WISH TO REVISE (MAX OF 8)*,/)
(0214) READ(1,10,ERR=2)IKNT
(0215) 10 FORMAT(I3)
(0216) IF(IKNT.LT.0) GO TO 2
(0217) IF(IKNT.GT.8) GO TO 2
(0218) DO 9999 LOOP=1,IKNT,1
(0219) 5 WRITE(1,3)
(0220) 3 FORMAT(* INPUT THE ITEM NUMBER THAT YOU WISH TO REVISE*,/)
(0221) READ(1,10,ERR=5)IR
(0222) C
(0223) C BEGIN INPUT
(0224) C
(0225) 100 IF(R.EQ.1.AND.IR.NE.1) GO TO 200
(0226) 103 WRITE(1,101)
(0227) 101 FORMAT(* (1) TITLE (7 WORDS - 10 CHAR.)*,/,!*!,76X,!*!/)
(0228) LEN=10
```

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```
(0229)      CALL TINPUT(TIT,LEN)
(0230)      WRITE(1,102)TIT
(0231)  102  FORMAT(7(1X,2A4,A2)/)
(0232)  200  IF(R.EQ.1.AND.IR.NE.2) GO TO 300
(0233)      IF(R.EQ.0) GOTC 300
(0234)  201  WRITE(1,202)
(0235)  202  FORMAT(* (2) DIR OR REPORT NUMBER*,/
(0236)      1*!*,14X,*!*/)
(0237)      READ(1,203,ERR=201)DIR
(0236)  203  FORMAT(1X,3A4,A2)
(0235)      WRITE(1,203)DIR
(0240)  300  CONTINUE
(0241)  400  IF(R.EQ.1.AND.IR.NE.3) GO TO 500
(0242)  401  WRITE(1,402)
(0243)  402  FORMAT(* (3) DOCUMENT DATE*,/,*!MMDDYY!*/)
(0243)      READ(1,403,ERR=401)DT
(0245)  403  FORMAT(1X,3I2)
(0246)      WRITE(1,403)DT
(0247)  500  IF(R.EQ.1.AND.IR.NE.4) GO TO 600
(0248)  501  WRITE(1,502)
(0249)  502  FORMAT(* (4) SYSTEM*,
(0250)      11X,*(ELEC,GSE,GUID,MECH,PROP,RF,SOP,MGS,EGS,PERF)*,
(0251)      1,/,3(*!*,4X,*!*/)
(0252)      READ(1,503,ERR=501)SYS
(0253)  C    CALL CHKSYS(SYS,IER)
(0254)  C    DO 11 I=1,3
(0255)  C    IF(IER(I).EQ.1) GO TO 501
(0256)  C11  CONTINUE
(0257)  503  FORMAT(1X,3(A4,2X))
(0258)      WRITE(1,503) SYS
(0259)  600  IF(R.EQ.1.AND.IR.NE.5) GO TO 900
(0260)  601  WRITE(1,602)
(0261)  602  FORMAT(* (5) W.A. NUMBER/ID CODE*,/!*!8X,*!*/)
(0262)      READ(1,603,ERR=601) WAN
(0263)      WRITE(1,603)WAN
(0264)  603  FORMAT(1X,4A2)
(0265)      CALL GETCON
(0266)  660  WRITE(1,650) CON
```



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```
(0267) 650  FORMAT(1X,'CONTRACT NUMBER ',5A4)
(0268) 900  IF(R.EQ.1.AND.IR.NE.6) GO TO 2200
(0269) 901  WRITE(1,902)
(0270) 902  FORMAT(' (6) VEHICLE',/2('!  !')/)
(0271)      READ(1,903,ERR=901)((VEH(I,J),J=1,2),I=1,2)
(0272) 903  FORMAT(2(1X,I3,A1,1X))
(0273)      WRITE(1,903) ((VEH(I,J),J=1,2),I=1,2)
(0274) 2200  CONTINUE
(0275)      IF(R.EQ.1.AND.IR.NF.7) GOTO 2300
(0276)      WRITE(1,2201)
(0277) 2201  FORMAT(' (7) REVISION',/,'! !')
(0278)      READ(1,2202)REV
(0279) 2202  FORMAT(1X,I42)
(0280)      WRITE(1,2202)
(0281) 2300  IF(R.EQ.1.AND.IR.NE.8) GOTO 9999
(0282) 2304  WRITE(1,2301)
(0283) 2301  FORMAT(' (8) REVISION DATE',/,'!MMDDYY!',/)
(0284) 2302  READ(1,2303,ERR=2304)RDAT
(0285) 2303  FORMAT(1X,I12)
(0286)      WRITE(1,2303)RDAT
(0287) 5999  CONTINUE
(0288)      CALL SHOWDR
(0289) C
(0290) C  END OF INPUT/REVISE ITEMS AS OF 6/26/78
(0291) C
(0292)      RETURN
(0293)      END
```

ACT	J //	000175	0205S							
COMP	J //	000200	0205S							
CON	J //	000155	0205S	0266						
DIR	J //	000120	0205S	0237M	0239					
DT	I //	000140	0205S	0244M	0246					
GETCON	R EXTERNAL	000000	0265							
I	I	001237	0271M	0273M						
ID	J //	000167	0205S							
IER	I	000002	0207S							
IKNT	I	001240	0214M	0216	0217	0218				
INPSDR	I	000000	0204S							
IR	I	001241	0221M	0225	0232	0241	0247	0259	0268	
			0275	0281						
J	I	001242	0271M	0273M						
K\$ALLD	I PARAMETER		0206S							
K\$CACC	I PARAMETER		0206S							
K\$CLOS	I PARAMETER		0206S							
K\$CONV	I PARAMETER		0206S							
K\$CURR	I PARAMETER		0206S							
K\$DELE	I PARAMETER		0206S							
K\$DMPB	I PARAMETER		0206S							
K\$DTIM	I PARAMETER		0206S							
K\$ENTR	I	000000	0206S							
K\$EXST	I PARAMETER		0206S							
K\$GOND	I PARAMETER		0206S							
K\$GPOS	I PARAMETER		0206S							
K\$HOME	I PARAMETER		0206S							
K\$ICUR	I PARAMETER		0206S							
K\$IMFD	I PARAMETER		0206S							
K\$IRTN	I PARAMETER		0206S							
K\$ISEG	I PARAMETER		0206S							
K\$IUFD	I PARAMETER		0206S							
K\$MENT	I	000000	0206S							
K\$MSIZ	I PARAMETER		0206S							
K\$MVNT	I PARAMETER		0206S							
K\$NJAM	I PARAMETER		0206S							
K\$NRIN	I PARAMETER		0206S							
K\$NSAM	I PARAMETER		0206S							

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K\$NSGD I PARAMETER 0206S  
 K\$NSGS I PARAMETER 0206S  
 K\$PQSA I PARAMETER 0206S  
 K\$POSN I PARAMETER 0206S  
 K\$POSR I PARAMETER 0206S  
 K\$PREA I PARAMETER 0206S  
 K\$PRER I PARAMETER 0206S  
 K\$PROT I PARAMETER 0206S  
 K\$RDWR I PARAMETER 0206S  
 K\$READ I PARAMETER 0206S  
 K\$RPOS I PARAMETER 0206S  
 K\$RSUB I PARAMETER 0206S  
 K\$RWLK I PARAMETER 0206S  
 K\$SENT I 000000 0206S  
 K\$SETC I PARAMETER 0206S  
 K\$SETH I PARAMETER 0206S  
 K\$SPOS I PARAMETER 0206S  
 K\$SKIN I PARAMETER 0206S  
 K\$TRNC I PARAMETER 0206S  
 K\$UFOS I PARAMETER 0206S  
 K\$WRIT I PARAMETER 0206S  
 LEN I 001244 0224M 0229A  
 LOOP I 001245 0218M  
 PIIT J // 000052 0205S  
 R I // 000177 0205S 0211 0225 0232 0233 0241 0247  
 0259 0268 0275 0281  
 R DAT I // 000253 0205S 0284M 0286  
 REV I // 000252 0205S 0278M  
 RPT J // 000130 0205S  
 SHCWDR R EXTERNAL 000000 0288  
 SYS J // 000143 0205S 0252M 0258  
 TINPUT R EXTERNAL 000000 0229  
 TIT J // 000000 0205S 0229A 0230  
 VEH I // 000171 0205S 0271M 0273  
 WA I // 000256 0205S  
 WAN I // 000151 0205S 0262M 0263  
 \_1 000016 0212 0213D

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10	000063	0214	02150	0221	
100	000151	0211	02250		
101	000171	0226	02270		
102	000242	0230	02310		
103	000165	02260			
2	000011	02120	0214	0216	0217
200	000253	0225	02320		
201	000270	02340	0237		
202	000274	0234	02350		
203	000334	0237	02380	0239	
2200	001054	0268	02740		
2201	001074	0276	02770		
2202	001122	0278	02790	0280	
2300	001133	0275	02810		
2301	001152	0282	02830		
2302	001176	02840			
2303	001207	0284	02850	0286	
2304	001146	02820	0284		
3	000105	0219	02200		
300	000352	0232	0233	02400	
400	000352	02410			
401	000365	02420	0244		
402	000371	0242	02430		
403	000426	0244	02450	0246	
5	000101	02190	0221		
500	000442	0241	02470		
501	000456	02480	0252		
502	000462	0248	02490		
503	000546	0252	02570	0258	
600	000565	0247	02590		
601	000602	02600	0262		
602	000606	0260	02610		
603	000653	0262	0263	02640	
650	000670	0266	02670		
660	000661	02660			
900	000707	0259	02680		
901	000722	02690	0271		
902	000726	0269	02700		

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903	001007	0271	0272D	0273
9999	001223	0218	0281	0287D

0000 ERRORS [<INPSDR>FTN-REV14.2]

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(0294) SUBROUTINE TINPUT(TIL,LEN)  
 (0295) C  
 (0296) C TITLE PACK ROUTINE  
 (0297) C  
 (0298) C THIS ROUTINE PACKS THE TITL(S) IN A UNIFORM MANNER  
 (0299) C FOR LATER STORAGE AND RECALL  
 (0300) C  
 (0301) C  
 (0301) C COMMON BLOCK FOR THE DIR FILE  
 (0301) C  
 (0301) C COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
 (0301) C COMMON COMP,REV,RDAT,WA  
 (0301) C  
 (0301) C  
 (0301) C DATA DECLARATION BLOCK FOR THE DIR FILE  
 (0301) C  
 (0301) C INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
 (0301) C INTEGER\*4 COMP(21)  
 (0301) C INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
 (0301) C  
 (0302) C COMMON /X/ PEDL  
 (0303) C INTEGER\*4 ARRAY(4),BLNK,TIL(21)  
 (0304) C INTEGER\*2 BUF(76),BUFF(76),PEDL  
 (0305) C CALL RDCOM(BUF)  
 (0306) C DO 5 I=1,76  
 (0307) C BUFF(I)=BUF(I)  
 (0308) 5 CONTINUE  
 (0309) C BLNK= \* \*  
 (0310) C DO 1 I=1,21  
 (0311) 1 TIL(I)=BLNK  
 (0312) C DO 11 I=1,20  
 (0313) C ARRAY(1)=BLNK  
 (0314) C ARRAY(2)=BLNK  
 (0315) C ARRAY(3)=BLNK  
 (0316) C ARRAY(4)=BLNK  
 (0317) C CALL GETWRD(BUF,ARRAY,LEN)  
 (0318) C TIL(I)=ARRAY(1)  
 (0319) C TIL(I+1)=ARRAY(2)

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```
(0320)      TIL(I+2)=ARRAY(3)
(0321)      TIL(I+3)=ARRAY(4)
(0322)      I=I+2
(0323)  12   CONTINUE
(0324)  11   CONTINUE
(0325)      PEOL=1
(0326)      DO 200 I=1,19
(0327)  200  PTIT(I)=BLNK
(0328)      CALL GETWD(BUFF,PTIT)
(0329)  211  CONTINUE
(0330)      RETURN
(0331)      END
```

ACT	J //	000175	0301S						
ARRAY	J	000006	0303S	0313M	0314M	0315M	0316M	0317A	0318
			0319	0320	0321				
BLNK	J	000417	0303S	0309M	0311	0313	0314	0315	0316
			0327						
BUF	I	000016	0304S	0305A	0307	0317A			
BUFF	I	000132	0304S	0307M	0328A				
COMP	J //	000200	0301S						
CON	J //	000155	0301S						
DIR	J //	000120	0301S						
DT	I //	000140	0301S						
GETWD	R EXTERNAL	000000	0328						
GETWRD	R EXTERNAL	000000	0317						
I	I	000421	0306M	0307	0310M	0311	0312M	0318	0319
			0320	0321	0322M	0326M	0327		
ID	J //	000167	0301S						
LEN	I ARGUMENT	000004	0294S	0317A					
PEDL	I /X/	000000	0302S	0304S	0325M				
PTIT	J //	000052	0301S	0327M	0328A				
R	I //	000177	0301S						
RDAT	I //	000253	0301S						
KDCOM	R EXTERNAL	000000	0305						
REV	I //	000252	0301S						
RPT	J //	000130	0301S						
SYS	J //	000143	0301S						
TIL	J ARGUMENT	000003	0294S	0303S	0311M	0318M	0319M	0320M	0321M
TINPUT	R	000000	0294S						
TIT	J //	000000	0301S						
VEH	I //	000171	0301S						
WA	I //	000256	0301S						
WAN	I //	000151	0301S						
_1		000275	0310	0311D					
_11		000357	0312	0324D					
_12		000357	0323D						
_200		000372	0326	0327D					
_211		000415	0329D						
_5		000256	0306	0308D					

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0000 ERRORS [(<TINPUT>FTN-REV14.2)]

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(0332) C READ ONE LINE FROM CONSOLE OR COMMAND FILE  
(0333) C  
(0334) C  
(0335) SUBROUTINE RDCOM(BUF)  
(0336) C  
(0337) COMMON /X/ PEDL  
(0338) C  
(0339) INTEGER BUF(1),PEDL,CHAR,ANL,AKILL,AERASE  
(0340) C  
(0341) C ANL, AKILL, AERASE ARE OCTAL 212, 277, 242  
(0342) DATA ANL,AKILL,AERASE/138,191,136/  
(0343) C  
(0344) PEDL=1  
(0345) 90 N=1  
(0346) 100 CALL C1IN(CHAR)  
(0347) BUF(N)=CHAR  
(0348) IF(CHAR.EQ.ANL) RETURN  
(0349) IF(CHAR.EQ.AKILL) GOTO 90  
(0350) IF(CHAR.EQ.AERASE) GOTO 200  
(0351) N=N+1  
(0352) IF(N.GT.77) GOTO 999  
(0353) GOTO 100  
(0354) C  
(0355) 200 IF(N.LE.2) GOTO 90  
(0356) N=N-1  
(0357) GOTO 100  
(0358) C  
(0359) 999 ILF=:212  
(0360) CALL T10U(ILF)  
(0361) RETURN  
(0362) END

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b7c

AERASE	I	000007	0339S	0342I	0350				
AKILL	I	000006	0339S	0342I	0349				
ANL	I	000005	0339S	0342I	0348				
BUF	I	ARGUMENT	000003	0335S	0339S	0347M			
C1IN	R	EXTERNAL	000000	0346					
CHAR	I		000071	0339S	0346A	0347	0348	0349	0350
ILF	I		000072	0355M	0360A				
N	I		000073	0345M	0347	0351M	0352	0355	0356M
PEDL	I	/X/	000000	0337S	0339S	0344M			
RDCOM	R		000000	0335S					
T10U	R	EXTERNAL	000000	0360					
_100		000016	0346D	0353	0357				
_200		000051	0350	0355D					
_90		000013	0345D	0349	0355				
_999		000062	0352	0359D					

0000 ERRORS [ &lt;RDCOM &gt;FTN-REV14.2 ]

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25-D

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C-33

```
(0363) C      FETCH ONE *WORD* FROM BUFFER FILLED BY RDCOM
(0364) C
(0365) C
(0366)      SUBROUTINE GETWRD(BUF,NAME,LEN)
(0367) C
(0368)      COMMON /X/ PEDL
(0369) C
(0370)      INTEGER BUF(1),PEDL,NAME(1),CHAR,
(0371) +      ANL,ACOMMA,ASCOL,ASP,ASPSP
(0372) C
(0373)      ANL,ACOMMA,ASCOL,ASP,ASPSP
(0374) C      ARE OCTAL
(0375) C      212,254,273,240,120240
(0376) C
(0377)      DATA ANL,ACOMMA,ASCOL/138,172,187/,
(0378) +      ASP,ASPSP/160,2H /
(0379) C
(0380)      DO 100 I=1,3
(0381) 100      NAME(I)=ASPSP
(0382) C
(0383)      N=1
(0384)      IF(BUF(1).NE.ASP) GO TO 200
(0385)      DO 999 I=2,77
(0386)      II=I-1
(0387)      BUF(II)=BUF(I)
(0388) 999      CONTINUE
(0389) 200      CHAR=BUF(PEDL)
(0390)      PEDL=PEDL+1
(0391)      IF(PEDL.GT.77) RETURN
(0392)      IF(CHAR.EQ.ANL) GOTO 400
(0393)      IF(CHAR.EQ.ASP.OR.CHAR.EQ.ACOMMA.OR.CHAR.EQ.ASCOL) GOTO 300
(0394)      IF(N.GT.LEN) GOTO 200
(0395)      I=(N+1)/2
(0396)      J=N-2*(N/2)
(0397)      N=N+1
(0398)      IF(J.EQ.1) GOTO 250
(0399)      NAME(I)=LT(NAME(I),8) + CHAR
(0400)      GOTO 200
```

```
(0401) 250 NAME(I)= RT(NAME(I),8) + LS(CHAR,8)
(0402)      GOTO 200
(0403)      C
(0404) 300 CHAR=BUF(PEDL)
(0405)      IF(CHAR.EQ.ANL) GOTO 400
(0406)      IF(CHAR.NE.ASP.AND.CHAR.NE.ACOMMA.AND.CHAR.NE.ASCOL) RETURN
(0407)      PEDL=PEDL+1
(0408)      GOTO 300
(0409)      C
(0410) 400 PEDL=77
(0411)      RETURN
(0412)      C
(0413)      END
```

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ACOMMA	I	000010	0370S	0377I	0393	0406			
ANL	I	000007	0370S	0377I	0392	0405			
ASCDL	I	000011	0370S	0377I	0393	0406			
ASP	I	000012	0370S	0377I	0384	0393	0406		
ASPSP	I	000013	0370S	0377I	0381				
RUF	I ARGUMENT	000003	0366S	0370S	0384	0387M	0389	0404	
CHAR	I	000243	0370S	0389M	0392	0393	0399	0401	0404M
			0405	0406					
GETWRD	R	000000	0366S						
I	I	000244	0380M	0381	0385M	0386	0387	0395M	0399
			0401						
II	I	000246	0386M	0387					
J	I	000247	0396M	0396					
LEN	I ARGUMENT	000005	0366S	0394					
LS	I EXTERNAL	000000	0401						
LT	I EXTERNAL	000000	0399						
N	I	000252	0383M	0394	0395	0396	0397M		
NAME	I ARGUMENT	000004	0366S	0370S	0381M	0399M	0401M		
PEOL	I /X/	000000	0368S	0370S	0389	0390M	0391	0404	0407M
			0410M						
RT	R EXTERNAL	000000	0401						
_100		000017	0380	0381D					
_200		000070	0384	0389D	0394	0400	0402		
_250		000174	0398	0401D					
_300		000207	0393	0404D	0408				
_400		000240	0392	0405	0410D				
_999		000061	0385	0388D					

0000 ERRORS [ <GETWRD>FTN-REV14.2 ]

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```
(0414) SUBROUTINE GETWD(BUFF,NAME)
(0415) C
(0416) COMMON /X/ PEDL
(0417) C
(0418) INTEGER BUFF(1),PEDL,NAME(1),CHAR,
(0419) + ANL,ACOMMA,ASCOL,ASP,ASPSP
(0420) C
(0421) C ANL,ACOMMA,ASCOL,ASP,ASPSP
(0422) C ARE OCTAL
(0423) C 212,254,273,240,120240
(0424) C
(0425) DATA ANL,ACOMMA,ASCOL/138,172,187/,
(0426) + ASP,ASPSP/160,2H /
(0427) C
(0428) DO 100 I=1,19
(0429) 100 NAME(I)=ASPSP
(0430) C
(0431) N=1
(0432) IF(BUFF(1).NE.ASP) GO TO 200
(0433) DO 999 I=2,77
(0434) II=I-1
(0435) BUFF(II)=BUFF(I)
(0436) 999 CONTINUE
(0437) 200 CHAR=BUFF(PEDL)
(0438) PEDL=PEDL+1
(0439) IF(PEDL.GT.77) RETURN
(0440) IF(CHAR.EQ.ANL) GOTO 400
(0441) I=(N+1)/2
(0442) J=N-2*(N/2)
(0443) N=N+1
(0444) IF(J.EQ.1) GOTO 250
(0445) NAME(I)=LT(NAME(I),8) + CHAR
(0446) GOTO 200
(0447) 250 NAME(I)=RT(NAME(I),8) + LS(CHAR,8)
(0448) GOTO 200
(0449) C
(0450) C
(0451) 400 PEDL=77
```

SUBROUTINE GETWD(BUFF,NAME)

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(0452) RETURN  
(0453) END

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ACOMMA	I	000007	0418S	0425I						
ANL	I	000006	0418S	0425I	0440					
ASCOL	I	000010	0418S	0425I						
ASP	I	000011	0418S	0425I	0432					
ASPSP	I	000012	0418S	0425I	0429					
BUFF	I ARGUMENT	000003	0414S	0418S	0432	0435M	0437			
CHAR	I	000164	041PS	0437M	0440	0445	0447			
GETWD	R	000000	0414S							
I	I	000165	0428M	0429	0433M	0434	0435	0441M	0445	
			0447							
II	I	000167	0434M	0435						
J	I	000170	0442M	0444						
LS	I EXTERNAL	000000	0447							
LT	I EXTERNAL	000000	0445							
N	I	000171	0431M	0441	0442	0443M				
NAME	I ARGUMENT	000004	0414S	0418S	0429M	0445M	0447M			
PEDL	I /X/	000000	0416S	0418S	0437	0438M	0439	0451M		
RT	R EXTERNAL	000000	0447							
_100		000016	0428	0429D						
_200		000067	0432	0437D	0446	0448				
_250		000146	0444	0447D						
_400		000151	0440	0451D						
_999		000060	0433	0436D						

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0000 ERRORS [<GETWD >FTN-REV14.2]

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```
(0454) SUBROUTINE REVSOR
(0455) C
(0455) C COMMON BLOCK FOR THE DIR FILE
(0455) C
(0455) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0455) COMMON COMP,REV,RDAT,WA
(0455) C
(0455) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0455) C
(0455) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0455) INTEGER*4 COMP(21)
(0455) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0455) C
(0456) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0456) NOLIST
(0457) INTEGER*4 IDIR(4)
(0458) INTEGER*2 IOPT,FINISH,A(15),IT,IC
(0459) C
(0460) C THIS IS THE REVISE ROUTINE FOR THE DIR FILE
(0461) C NOTE: THIS IS LIMITED ACCESS
(0462) C
(0463) C VALIDATE THE INCOMMING USER
(0464) C
(0465) CALL TIMDAT(A,15)
(0466) IF(A(13).EQ.*JW*.OR.A(13).EQ.*NH*.OR.A(13).EQ.*RJ*.OR.
(0467) 1 A(13).EQ.*DK*) GO TO 3
(0468) WRITE(1,4)
(0469) 4 FORMAT(* SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.*,/,
(0470) 1* IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT.2621
(0471) 1.*)
(0472) RETURN
(0473) 3 CONTINUE
(0474) C
(0475) C WHICH DIR DOCUMENT IS TO BE REVISED
(0476) C KEY ON THE DIR NUMBER
(0477) C
(0478) FINISH=0
```

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```
(0479) 5    WRITE(1,1)
(0480) 1    FORMAT(* PLEASE INPUT THE SPO DIR-REPORT NUMBER OF THE *,/
(0481)      1* DOCUMENT TO BE REVISED*/)
(0482)      READ(1,2,ERR=5)IDIR
(0483) 2    FORMAT(3A4,A2)
(0484)      REWIND 6
(0485) 100  READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0486)      IF(FINISH.EQ.1) GOTO 125
(0487)      DO 110 I=1,4
(0488)      IF(IDIR(I).NE.DIR(I)) GO TO 125
(0489) 110  CONTINUE
(0490)      CALL SHOWDR
(0491)      WRITE(1,1700)
(0492) 1700 FORMAT(/,1H0,/,*, IS THIS THE CORRECT RECORD TO BE REVISED OR DELET
(0493)      1ED*,/,*, (YES OR NO)*)
(0494) 1800 READ(1,50)IOPT
(0495) 50   FORMAT(1A2)
(0496)      IF(IOPT.EQ.*NO*) GOTO 125
(0497)      IF(IOPT.NE.*YE*) GOTO 1800
(0498) 1900 WRITE(1,2000)
(0499) 2000 FORMAT(* IS THIS RECORD TO BE REVISED OR DELETED*,/,
(0500)      1 *, (REV OR DEL)*)
(0501)      READ(1,50) IOPT
(0502)      IF(IOPT.EQ.*RE*) GOTO 120
(0503)      IF(IOPT.NE.*DE*) GOTO 1900
(0504)      FINISH=1
(0505)      GOTO 100
(0506) 120  R=1
(0507)      CALL INPSOR
(0508)      FINISH=1
(0509) 125  WRITE(8)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0510)      GO TO 100
(0511) 200  ENDFILE 8
(0512)      CALL SRCH$(K$CLOS,*DIR   ',6,0,0,0)
(0513)      CALL SRCH$(K$DELE,*DIR   ',6,0,0,0)
(0514)      CALL CNAM$(*,REVS ',6,*DIR   ',6,IC)
(0515)      CALL SRCH$(K$RDWR+K$NCAM,*DIR   ',6,2,IT,IC)
(0516)      CALL SRCH$(K$RDWR+K$NDAM,*REVS ',6,4,IT,IC)
```

SUBROUTINE REVSDR

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(0517) C  
(0518) C  
(0519) C  
(0520) RETURN  
(0521) END

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A	I	000002	0458S	0465A	0466					
ACT	J //	000175	0455S							
CNAMSS	R EXTERNAL	000000	0514							
COMP	J //	000200	0455S							
CON	J //	000155	0455S							
DIR	J //	000120	0455S	0485M	0488	0509				
DT	I //	000140	0455S	0485M	0509					
FINISH	I	000712	0458S	0478M	0486	0504M	0508M			
I	I	000713	0407M	0468						
IC	I	000715	045PS	0514A	0515A	0516A				
ID	J //	000167	0455S							
IDIR	J	000021	0457S	0482M	0488					
INPSDR	I EXTERNAL	000000	0507							
IOPT	I	000716	0450S	0494M	0496	0497	0501M	0502	0503	
IT	I	000717	0450S	0515A	0516A					
K\$ALLD	I PARAMETER		0456S							
K\$CACC	I PARAMETER		0456S							
K\$CLOS	I PARAMETER		0456S	0512						
K\$CONV	I PARAMETER		0456S							
K\$CURR	I PARAMETER		0456S							
K\$DELE	I PARAMETER		0456S	0513						
K\$DMPB	I PARAMETER		0456S							
K\$DTIM	I PARAMETER		0456S							
K\$ENTR	I	000000	0456S							
K\$EXST	I PARAMETER		0456S							
K\$GGND	I PARAMETER		0456S							
K\$GPOS	I PARAMETER		0456S							
K\$HOME	I PARAMETER		0456S							
K\$ICUR	I PARAMETER		0456S							
K\$IMFD	I PARAMETER		0456S							
K\$IRTN	I PARAMETER		0456S							
K\$ISEG	I PARAMETER		0456S							
K\$IUFD	I PARAMETER		0456S							
K\$MENT	I	000000	0456S							
K\$MSIZ	I PARAMETER		0456S							
K\$MVNT	I PARAMETER		0456S							
K\$NDAM	I PARAMETER		0456S	0515	0516					
K\$NRTN	I PARAMETER		0456S							

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K\$NSAM I PARAMETER 0456S  
 K\$NSGD I PARAMETER 0456S  
 K\$NSGS I PARAMETER 0456S  
 K\$POSA I PARAMETER 0456S  
 K\$POSN I PARAMETER 0456S  
 K\$POSR I PARAMETER 0456S  
 K\$PREA I PARAMETER 0456S  
 K\$PRER I PARAMETER 0456S  
 K\$PROT I PARAMETER 0456S  
 K\$RQWR I PARAMETER 0456S 0515 0516  
 K\$READ I PARAMETER 0456S  
 K\$RPOS I PARAMETER 0456S  
 K\$RSUP I PARAMETER 0456S  
 K\$RWLK I PARAMETER 0456S  
 K\$SENT I 000000 0456S  
 K\$SETC I PARAMETER 0456S  
 K\$SETH I PARAMETER 0456S  
 K\$SPCS I PARAMETER 0456S  
 K\$SRTN I PARAMETER 0456S  
 K\$TRNC I PARAMETER 0456S  
 K\$UPDS I PARAMETER 0456S  
 K\$WRIT I PARAMETER 0456S  
 PTIT J // 000052 0455S 0485M 0509  
 R I // 000177 0455S 0506M  
 RDAT I // 000253 0455S 0485M 0509  
 REV I // 000252 0455S 0485M 0509  
 REVS DR R 000000 0454S  
 RPT J // 000130 0455S  
 SHOWCR R EXTERNAL 000000 0490  
 SRCH\$\$ P EXTERNAL 000000 0512 0513 0515 0516  
 SYS J // 000143 0455S 0485M 0509  
 TIMDAT R EXTERNAL 000000 0465  
 TIT J // 000000 0455S 0485M 0509  
 VEH I // 000171 0455S 0485M 0509  
 WA I // 000256 0455S  
 WAN I // 000151 0455S 0485M 0509  
 \_1 000206 0479 04800

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_100	000300	0485D	0505	0510		
_110	000365	0487	0489D			
_120	000571	0502	0506D			
_125	000577	048E	0488	0496	0509D	
_1700	000401	0491	0492D			
_1800	000453	0494D	0497			
_1900	000500	0498D	0503			
_2	000270	04E2	0483D			
_200	000637	04E5	0511D			
_2000	000505	04E8	0499D			
_3	000177	04E6	0473D			
_4	000100	04E8	0469D			
_5	000202	0475D	0482			
_50	000462	0494	0495D	0501		

0000 ERRORS [<REVSDR>FTN-REV14.2]

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(0522) SUBROUTINE SHGWR  
(0523) C  
(0523) C COMMON BLOCK FOR THE DIR FILE  
(0523) C  
(0523) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
(0523) COMMON COMP,REV,RDAT,WA  
(0523) C  
(0523) C  
(0523) C DATA DECLARATION BLOCK FOR THE DIR FILE  
(0523) C  
(0523) INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
(0523) INTEGER\*4 COMP(21)  
(0523) INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
(0523) C  
(0524) C  
(0525) CALL CLEAR  
(0526) WRITE(1,10) TIT  
(0527) 10 FORMAT(2X,'1. TITLE:',/,2X,7(1X,2A4,A2))  
(0528) WRITE(1,20)DIR,DT,SYS  
(0529) 20 FORMAT(2X,'2. ',3A4,A2,5X,'3. ',2(I2,'-'),I2,13X,  
(0530) 1'4. ',3(1X,A4))  
(0531) WRITE(1,30)WAN,((VEH(I,J),J=1,2),I=1,2)  
(0532) 30 FORMAT(2X,'5. ',4A2,11X,'6. ',2(1X,I3,A1,1X))  
(0533) WRITE(1,40)REV,RDAT  
(0534) 40 FORMAT(2X,'7. ',1A2,17X,'8. ',2(I2,'-'),I2)  
(0535) RETURN  
(0536) END

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ACT	J //	000175	0523S	
CLEAR	R EXTERNAL	000000	0525	
COMP	J //	000200	0523S	
CON	J //	000155	0523S	
DIR	J //	000120	0523S	0528
DT	I //	000140	0523S	0528
I	I	000242	0531M	
ID	J //	000167	0523S	
J	I	000243	0531M	
PTIT	J //	000052	0523S	
R	I //	000177	0523S	
RDAT	I //	000253	0523S	0533
REV	I //	000252	0523S	0533
RPT	J //	000130	0523S	
SHOWDR	R	000000	0522S	
SYS	J //	000143	0523S	0528
TIT	J //	000000	0523S	0526
VEH	I //	000171	0523S	0531
WA	I //	000256	0523S	
WAN	I //	000151	0523S	0531
_10		000012	0526	0527D
_20		000052	0528	0529D
_30		000153	0531	0532D
_40		000213	0533	0534D

0000 ERRORS [ &lt;SHOWDR&gt;FTN-REV14.2 ]

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```
(0537) SUBROUTINE SEADR
(0538) C SYSCOM>KEYS.F MNEMOMIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0538) NOLIST
(0539) INTEGER*2 IDES(2),IT,IC
(0540) C
(0541) C THIS IS THE SEARCH DRIVER ROUTINE FOR THE DIR FILE
(0542) C
(0543) CALL SRCH$(K$RDWR+K$NSAM,*OUT *6,3,0,0)
(0544) J=:401
(0545) WRITE(7,9999)J
(0546) 9999 FORMAT(1A2)
(0547) WRITE(1,1)
(0548) 1 FORMAT(* YOU ARE NOW VALIDATED TO SEARCH DATA IN THE *,/
(0549) 1* DIR/REPORT FILE - THE FOLLOWING SEARCH MODES *,/
(0550) 1* ARE AVAILABLE FOR YOUR USE - *,/
(0551) 1*MODE KEY*,/
(0552) 2*TITLE TITLE*,/
(0553) 3*DIR-REPORT NUMEER DIR*,/
(0554) 4*DOCUMENT DATE DATE*,/
(0555) 5*SYSTEM SYS*,/
(0556) 9*WA NUMBER/ID CODE WAN*,/
(0557) 1*CONTRACT NUMBER CON*,/
(0558) 1*VEHICLE VEH*,/
(0559) 1*ALL ALL*,/
(0560) 1*QUIT QUIT*,/
(0561) 1* PLEASE SELECT THE DESIRED MODE*,//)
(0562) REWIND 6
(0563) 6 READ(1,3)IDES
(0564) 3 FORMAT(1A2,A1)
(0565) IF(IDES(1).EQ.*AL*) CALL ALDR
(0566) IF(IDES(1).EQ.*TI*) CALL TITDR
(0567) IF(IDES(1).EQ.*DI*) CALL DIRN
(0568) IF(IDES(1).EQ.*DA*) CALL DATDR
(0569) IF(IDES(1).EQ.*WA*) CALL WANUM
(0570) IF(IDES(1).EQ.*SY*) CALL SYSDR
(0571) IF(IDES(1).EQ.*CO*) CALL CONN
(0572) IF(IDES(1).EQ.*VE*) CALL VEHN
(0573) IF(IDES(1).EQ.*QU*) GO TO 10
```

(0574) CALL CLEAR  
(0575) WRITE(1,1)  
(0576) REWIND 6  
(0577) GO TO 6  
(0578) 10 WRITE(1,11)  
(0579) 11 FORMAT(' DO YOU WANT A HARD COPY OF THE INFORMATION FOUND',/,  
(0580) 1' (YES OR NO)')  
(0581) CALL SRCH\$\$ (K\$CLOS,'OUT \* ,6,0,0,0)  
(0582) READ(1,3) IDES  
(0583) IF(IDES(1).EQ.'YE') GO TO 20  
(0584) IF(IDES(1).EQ.'NO') GO TO 15  
(0585) GO TO 10  
(0586) 15 CALL SRCH\$\$ (K\$DELE,'OUT \* ,6,0,0,0)  
(0587) RETURN  
(0588) 20 CALL SRCH\$\$ (K\$CLOS,'DIR \* ,6,0,0,0)  
(0589) CALL SRCH\$\$ (K\$CLOS,'REVS \* ,6,0,0,0)  
(0590) CALL SRCH\$\$ (K\$CLOS,'TEMP \* ,6,0,0,0)  
(0591) CALL CCMISS ('SOUT \* ,6,12,IC)  
(0592) CALL EXIT  
(0593) END

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ALDR	R	EXTERNAL	000000	0565						
CLEAR	R	EXTERNAL	000000	0574						
COMISS	R	EXTERNAL	000000	0591						
CONN	R	EXTERNAL	000000	0571						
DATDR	R	EXTERNAL	000000	0568						
DIRN	R	EXTERNAL	000000	0567						
EXIT	R	EXTERNAL	000000	0592						
IC	I		000673	0539S	0591A					
IDES	I		000002	0539S	0563M	0565	0566	0567	0568	0569
				0570	0571	0572	0573	0582M	0583	0584
IT	I		000000	0539S						
J	I		000674	0544M	0545					
KSALLD	I	PARAMETER		0538S						
KSCACC	I	PARAMETER		0538S						
KSCLOS	I	PARAMETER		0538S	0581	0588	0589	0590		
KSCONV	I	PARAMETER		0538S						
KSCURR	I	PARAMETER		0538S						
KSDOLE	I	PARAMETER		0538S	0586					
KSDMPE	I	PARAMETER		0538S						
KSDTIM	I	PARAMETER		0538S						
KSENTR	I		000000	0538S						
KSEXST	I	PARAMETER		0538S						
KSGOND	I	PARAMETER		0538S						
KSGPOC	I	PARAMETER		0538S						
KSHOME	I	PARAMETER		0538S						
KSICUR	I	PARAMETER		0538S						
KSIMFD	I	PARAMETER		0538S						
KSIRTN	I	PARAMETER		0538S						
KSISCG	I	PARAMETER		0538S						
KSIUFD	I	PARAMETER		0538S						
KSMENT	I		000000	0538S						
KSMSIZ	I	PARAMETER		0538S						
KSMVNT	I	PARAMETER		0538S						
KSNDAM	I	PARAMETER		0538S						
KSNRTN	I	PARAMETER		0538S						
KSNSAM	I	PARAMETER		0538S	0543					
KNSGDI	I	PARAMETER		0538S						
KNSGSI	I	PARAMETER		0538S						

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K\$POSA	I	PARAMETER	0538S						
K\$POSN	I	PARAMETER	0538S						
K\$POSR	I	PARAMETER	0538S						
K\$PREA	I	PARAMETER	0538S						
K\$PRER	I	PARAMETER	0538S						
K\$PROT	I	PARAMETER	0538S						
K\$RDWR	I	PARAMETER	0538S	0543					
K\$READ	I	PARAMETER	0538S						
K\$RPOS	I	PARAMETER	0538S						
K\$RSUB	I	PARAMETER	0538S						
K\$RWLK	I	PARAMETER	0538S						
K\$SENT	I	000000	0538S						
K\$SETC	I	PARAMETER	0538S						
K\$SETH	I	PARAMETER	0538S						
K\$SSPOS	I	PARAMETER	0538S						
K\$SRTN	I	PARAMETER	0538S						
K\$TRNC	I	PARAMETER	0538S						
K\$UPOS	I	PARAMETER	0538S						
K\$WRIT	I	PARAMETER	0538S						
SEADR	R	000000	0537S						
SRCH\$S	R	EXTERNAL 000000	0543	0581	0586	0588	0589	0590	
SYSOR	R	EXTERNAL 000000	0570						
TITDR	R	EXTERNAL 000000	0566						
VEHN	R	EXTERNAL 000000	0572						
WANUM	R	EXTERNAL 000000	0569						
_1		000041	0547	0548D	0575				
_10		000521	0573	0578D	0585				
_11		000525	0578	0579D					
_15		000622	0584	0586D					
_20		000634	0583	0588D					
_3		000426	0563	0564D	0562				
_6		000416	0563D	0577					
_9999		000030	0545	0546D					

0000 ERRORS [<SEADR >FTN-REV14.2]

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```
(0594) SUBROUTINE TITDR
(0595) C
(0595) C COMMON BLOCK FOR THE DIR FILE
(0595) C
(0595) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,IO,VEH,ACT,R
(0595) COMMON COMP,REV,RDAT,WA
(0595) C
(0595) C
(0595) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0595) C
(0595) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),IO,ACT
(0595) INTEGER*4 COMP(21)
(0595) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0595) C
(0596) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0596) NOLIST
(0597) C
(0598) C
(0599) C THIS IS THE TITLE SEARCH ROUTINE FOR THE DIR/REPORT FILE
(0600) C
(0601) INTEGER*4 IT(21)
(0602) INTEGER*2 CONT,DOC,T1,IN,ICON,IO,IOPT,ITY,IC
(0603) INTEGER*4 BLNK
(0604) T1=0
(0605) CALL CLEAR
(0606) 1001 WRITE(1,2)
(0607) 2 FORMAT(* HOW MANY WORDS DO YOU WISH TO MATCH (MAX OF 4)*, /
(0608) 1/)
(0609) READ(1,8,FRR=1001)ICON
(0610) 8 FORMAT(I2)
(0611) IF(ICON.LT.1) GO TO 1001
(0612) IF(ICON.GT.4) GO TO 1001
(0613) DO 1000 LOOP=1,ICON
(0614) WRITE(1,1)
(0615) 1 FORMAT(* WHAT IS THE DESIRED WORD*,//)
(0616) LEN=10
(0617) CALL TINPUT(IT,LEN)
(0618) IF(IT(1).EQ.*QUIT*) GO TO 1002
```

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```
(0619) CALL SRCH$$ (K$RDWR+K$NDAM,*T1      *,6,7,ITY,IC)
(0620) CALL SRCH$$ (K$RDWR+K$NDAM,*T2      *,6,8,ITY,IC)
(0621) IF (T1.EQ.0) IN=6
(0622) IF (T1.EQ.0) IO=11
(0623) IF (T1.EQ.1) IN=11
(0624) IF (T1.EQ.1) IO=12
(0625) IF (T1.EQ.2) IN=12
(0626) IF (T1.EQ.2) IO=11
(0627) IF (T1.EQ.3) IN=11
(0628) IF (T1.EQ.3) IO=12
(0629) IF (T1.EQ.4) IN=12
(0630) IF (T1.EQ.4) IO=11
(0631) DOC=0
(0632) REWIND IN
(0633) REWIND IO
(0634) 5 READ(IN,END=100)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,ROAT
(0635) BLNK=' '
(0636) DO 3 I=1,21
(0637) IF (TIT(I).EQ.BLNK) GO TO 3
(0638) IF (TIT(I).NE.IT(1)) GO TO 3
(0639) IF (TIT(I+1).EQ.BLNK) GO TO 4
(0640) IF (IT(2).EQ.BLNK) GO TO 4
(0641) IF (TIT(I+1).EQ.IT(2)) GO TO 4
(0642) 3 CONTINUE
(0643) GO TO 5
(0644) 4 DOC=DOC+1
(0645) WRITE(IO)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,ROAT
(0646) WRITE(1,10)TIT
(0647) 10 FORMAT(1X,7(2A4,A2,1X))
(0648) GO TO 5
(0649) 100 WRITE(1,1030)DOC,IT
(0650) 1030 FORMAT(' THERE ARE',I5,' DOCUMENTS CONTAINING THE WORD',/
(0651) 17(1X,2A4,A2)//)
(0652) IF (DOC.EQ.0) GOTO 1020
(0653) ENDFILE IO
(0654) CALL SRCH$$ (K$CLOS,*T1      *,6,0,0,0)
(0655) CALL SRCH$$ (K$CLOS,*T2      *,6,0,0,0)
(0656) IF (IO.EQ.11) CALL SRCH$$ (K$DELE,*T2      *,6,0,0,0)
```

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```
(0657)      IF(IO.EQ.12) CALL SRCH$$ (K$DELE,*T1      *,6,0,0,0)
(0658)      T1=T1+1
(0659) 1000  CONTINUE
(0660) 1002  CALL SRCH$$ (K$RDR+K$NDAM,*T1      *,6,7,ITY,IC)
(0661)      CALL SRCH$$ (K$RDR+K$NDAM,*T2      *,6,8,ITY,IC)
(0662)      IF(DOC.LT.1) GO TO 1020
(0663)      DO 9999 I=1,DOC
(0664)      READ(IO,END=1020)TIT,PTIT,CIR,DT,SYS,WAN,VEH,REV,RDAT
(0665)      CALL FMAIN
(0666) 9999  CONTINUE
(0667) 1020  CONTINUE
(0668)      CALL SRCH$$ (K$CLOS,*T1      *,6,0,0,0)
(0669)      CALL SRCH$$ (K$CLCS,*T2      *,6,0,0,0)
(0670)      CALL SRCH$$ (K$DELE,*T1      *,6,0,0,0)
(0671)      CALL SRCH$$ (K$DELE,*T2      *,6,0,0,0)
(0672)      T1=0
(0673)      IF(DOC.NE.0) RETURN
(0674) 1999  WRITE(1,2000)
(0675) 2000  FORMAT(* DO YOU WISH TO TRY THE TITLE SEARCH AGAIN (YES OR NO)*)
(0676)      READ(1,2001)IOPT
(0677) 2001  FORMAT(1A2)
(0678)      IF(IOPT.EQ.*YE*) GOTO 1001
(0679)      IF(IOPT.NE.*NO*) GOTO 1999
(0680)      RETURN
(0681)      END
```



ACT	J //	000175	0595S						
BLNK	J	001170	0603S	0635M	0637	0639	0640		
CLEAR	R EXTERNAL	000000	0605						
COMP	J //	000200	0595S						
CON	J //	000155	0595S						
CONT	I	000000	0602S						
DIR	J //	000120	0595S	0634M	0645	0664M			
DOC	I	001172	0602S	0631M	0644M	0649	0652	0662	0663
			0673						
DT	I //	000140	0595S	0634M	0645	0664M			
FMAIN	R EXTERNAL	000000	0665						
I	I	001173	0636M	0637	0638	0639	0641	0663M	
IC	I	001175	0602S	0619A	0620A	0660A	0661A		
ICON	I	001176	0602S	0609M	0611	0612	0613		
ID	J //	000167	0595S						
IN	I	001177	0602S	0621M	0623M	0625M	0627M	0629M	0632
			0634						
IO	I	001200	0602S	0622M	0624M	0626M	0628M	0630M	0633
			0645	0653	0656	0657	0664		
IOPT	I	001201	0602S	0676M	0678	0679			
IT	J	000002	0601S	0617A	0618	0638	0640	0641	0649
ITY	I	001202	0602S	0619A	0620A	0660A	0661A		
K\$ALLO	I PARAMETER		0596S						
K\$CACC	I PARAMETER		0596S						
K\$CLOS	I PARAMETER		0596S	0654	0655	0668	0669		
K\$CONV	I PARAMETER		0596S						
K\$CURR	I PARAMETER		0596S						
K\$DELE	I PARAMETER		0596S	0656	0657	0670	0671		
K\$DMPB	I PARAMETER		0596S						
K\$DTIM	I PARAMETER		0596S						
K\$ENTR	I	000000	0596S						
K\$EXST	I PARAMETER		0596S						
K\$GOND	I PARAMETER		0596S						
K\$GPOS	I PARAMETER		0596S						
K\$HOME	I PARAMETER		0596S						
K\$ICUR	I PARAMETER		0596S						
K\$IMFD	I PARAMETER		0596S						
K\$IRTN	I PARAMETER		0596S						

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K\$ISEG	I	PARAMETER	0596S						
K\$IUFD	I	PARAMETER	0596S						
K\$MENT	I	000000	0596S						
K\$MSIZ	I	PARAMETER	0596S						
K\$MVNT	I	PARAMETER	0596S						
K\$NDAM	I	PARAMETER	0596S	0619	0620	0660	0661		
K\$NRTN	I	PARAMETER	0596S						
K\$NSAM	I	PARAMETER	0596S						
K\$NSGO	I	PARAMETER	0596S						
K\$NSGS	I	PARAMETER	0596S						
K\$POSA	I	PARAMETER	0596S						
K\$POSN	I	PARAMETER	0596S						
K\$POSR	I	PARAMETER	0596S						
K\$PREA	I	PARAMETER	0596S						
K\$PRER	I	PARAMETER	0596S						
K\$PROT	I	PARAMETER	0596S						
K\$RDWR	I	PARAMETER	0596S	0619	0620	0660	0661		
K\$READ	I	PARAMETER	0596S						
K\$RPOS	I	PARAMETER	0596S						
K\$RSUB	I	PARAMETER	0596S						
K\$RWLK	I	PARAMETER	0596S						
K\$SENT	I	000000	0596S						
K\$SETC	I	PARAMETER	0596S						
K\$SETH	I	PARAMETER	0596S						
K\$SPOS	I	PARAMETER	0596S						
K\$SRTN	I	PARAMETER	0596S						
K\$TRNC	I	PARAMETER	0596S						
K\$UPOS	I	PARAMETER	0596S						
K\$WRIT	I	PARAMETER	0596S						
LEN	I	001203	0616M	0617A					
LOOP	I	001204	0613M						
PTIT	J	//	000052	0595S	0634M	0645	0664M		
R	I	//	000177	0595S					
RDAT	I	//	000253	0595S	0634M	0645	0664M		
REV	I	//	000252	0595S	0634M	0645	0664M		
RPT	J	//	000130	0595S					
SRCH\$\$	R	EXTERNAL	000000	0619	0620	0654	0655	0656	0657
				0661	0668	0669	0670	0671	0660

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SYS	J //	000143	0595S	0634M	0645	0664M			
T1	I	001205	0602S	0604M	0621	0622	0623	0624	0625
			0626	0627	0628	0629	0630	0658M	0672M
TINPUT	R EXTERNAL	000000	0617						
TIT	J //	000000	0595S	0634M	0637	0638	0639	0641	0645
			0646	0664M					
TITDR	R	000000	0594S						
VEH	I //	000171	0595S	0634M	0645	0664M			
WA	I //	000256	0595S						
WAN	I //	000151	0595S	0634M	0645	0664M			
1		000156	0614	0615D					
10		000547	0646	0647D					
100		000562	0634	0649D					
1000		000721	0613	0659D					
1001		000060	0506D	0609	0611	0612	0678		
1002		000731	0618	0660D					
1020		001027	0652	0662	0664	0667D			
1030		000574	0649	0650D					
1999		001076	0674D	0679					
2		000055	0506	0607D					
2000		001102	0574	0675D					
2001		001150	0676	0677D					
3		000470	0636	0637	0638	0642D			
4		000477	0639	0640	0641	0644D			
5		000345	0634D	0643	0648				
8		000132	0609	0610D					
9999		001020	0663	0666D					

0000 ERRORS [ <TITDR >FTN-REV14.2 ]

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(0682) SUBROUTINE ALDR  
 (0683) C  
 (0683) C COMMON BLOCK FOR THE DIR FILE  
 (0683) C  
 (0683) C COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
 (0683) C COMMON COMP,REV,RDAT,WA  
 (0683) C  
 (0683) C DATA DECLARATION BLOCK FOR THE DIR FILE  
 (0683) C  
 (0683) C INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
 (0683) C INTEGER\*4 COMP(21)  
 (0683) C INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
 (0683) C  
 (0684) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0684) C NGLIST  
 (0685) C  
 (0686) C INTEGER\*2 IOPT  
 (0687) C  
 (0688) C PRINT ALL ROUTINE  
 (0689) C  
 (0690) C INTEGER\*4 KNT  
 (0691) C KNT=0  
 (0692) C CALL BREAK\$(.TRUE.)  
 (0693) C WRITE(1,1)  
 (0694) 1 FORMAT(' THIS IS THE PRINT ALL ROUTINE ',/,  
 (0695) 1 ' ALL DOCUMENTS STORED IN THE DIR FILE WILL BE SPOOLED',/  
 (0696) 2 ' AND A TOTAL COUNT OF THE DOCUMENTS WILL BE GIVEN',//)  
 (0697) 2 WRITE(1,3)  
 (0698) 3 FORMAT(' ',/, ' YOU HAVE A CHOICE OF TWO (2) OPTIONS OF OUTPUT ',  
 (0699) 1 ' FORMATS.',/, 6X, '(1) FULL LISTING OF ALL FIELDS FOR EACH ',  
 (0700) 1 ' DIR RECORD',/, 6X, '(2) BRIEF LISTING OF DIR NUMBER AND REVISION',  
 (0701) 1 ' ONLY',/, ' ENTER OPTION (1 OR 2)')  
 (0702) C READ(1,4,ERR=3)IOPT  
 (0703) 4 FORMAT(I2)  
 (0704) C IF(IOPT.LT.1.OR.IOPT.GT.2) GO TO 2  
 (0705) 20 READ(6,END=100)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT  
 (0706) C KNT=KNT+1

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```
(0707)      IF(IOPT.EQ.2) GOTO 25
(0708)      CALL FMAIN
(0709)      GO TO 20
(0710) 25   IF(REV.EQ.* *) GOTO 50
(0711)      WRITE(7,35) KNT,DIR,REV
(0712) 35   FORMAT(2X,I8,*,*,2X,3A4,A2,5X,*REV *,1A2)
(0713)      GO TO 60
(0714) 50   WRITE(7,55) KNT,DIR
(0715) 55   FORMAT(2X,I8,*,*,2X,3A4,A2)
(0716) 60   IF(KNT/50.EQ.KNT/50.) WRITE(1,70) KNT
(0717) 70   FORMAT(2X,I8)
(0718)      GO TO 20
(0719) 100  WRITE(1,200) KNT
(0720) 200  FORMAT(* THERE ARE *I9* DOCUMENTS IN THE DIR FILE*,/)
(0721)      CALL SRCH$$ (K$CLOS,*OUT  *,6,0,0,0)
(0722)      CALL SRCH$$ (K$CLOS,*DIR   *,6,0,0,0)
(0723)      CALL SRCH$$ (K$CLOS,*REVS  *,6,0,0,0)
(0724)      CALL SRCH$$ (K$CLOS,*TEMP  *,6,0,0,0)
(0725)      CALL COMI$$ (*SOUT  *,6,12,IC)
(0726)      CALL EXIT
(0727)      END
```

ACT J // 000175 0683S  
 ALDR R 000000 0682S  
 BREAKS R EXTERNAL 000000 0592  
 COMISS R EXTERNAL 000000 0725  
 COMP J // 000200 0683S  
 CON J // 000155 0683S  
 DIR J // 000120 0683S 0705M 0711 0714  
 DT I // 000140 0683S 0705M  
 EXIT R EXTERNAL 000000 0726  
 FMAIN R EXTERNAL 000000 0708  
 IC I 000673 0725A  
 ID J // 000167 0683S  
 IOPT I 000674 0686S 0702M 0704 0707  
 K\$ALLO I PARAMETER 0584S  
 K\$CACC I PARAMETER 0684S  
 K\$CLOS I PARAMETER 0684S 0721 0722 0723 0724  
 K\$CONV I PARAMETER 0684S  
 K\$CURR I PARAMETER 0684S  
 K\$DELE I PARAMETER 0584S  
 K\$DMPB I PARAMETER 0584S  
 K\$DTIM I PARAMETER 0684S  
 K\$ENTR I 000000 0684S  
 K\$EXST I PARAMETER 0684S  
 K\$GOND I PARAMETER 0584S  
 K\$GPOS I PARAMETER 0684S  
 K\$HOME I PARAMETER 0554S  
 K\$ICUR I PARAMETER 0684S  
 K\$IMFD I PARAMETER 0684S  
 K\$IRTN I PARAMETER 0684S  
 K\$ISEG I PARAMETER 0684S  
 K\$IUFD I PARAMETER 0684S  
 K\$MENT I 000000 0584S  
 K\$MSIZ I PARAMETER 0684S  
 K\$MVNT I PARAMETER 0684S  
 K\$NDAM I PARAMETER 0584S  
 K\$NRTN I PARAMETER 0684S  
 K\$NSAM I PARAMETER 0684S  
 K\$NSGD I PARAMETER 0584S

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K\$NSGS I PARAMETER 0684S  
 K\$POSA I PARAMETER 0684S  
 K\$POSN I PARAMETER 0684S  
 K\$POSR I PARAMETER 0684S  
 K\$PREA I PARAMETER 0684S  
 K\$PRER I PARAMETER 0684S  
 K\$PROT I PARAMETER 0684S  
 K\$RDWR I PARAMETER 0684S  
 K\$READ I PARAMETER 0684S  
 K\$RPOS I PARAMETER 0684S  
 K\$RSUB I PARAMETER 0684S  
 K\$RWLK I PARAMETER 0684S  
 K\$SENT I 000000 0684S  
 K\$SETC I PARAMETER 0684S  
 K\$SETH I PARAMETER 0684S  
 K\$SPOS I PARAMETER 0684S  
 K\$SRTN I PARAMETER 0684S  
 K\$TRNC I PARAMETER 0684S  
 K\$UPOS I PARAMETER 0684S  
 K\$WRIT I PARAMETER 0684S  
 KNT J 000675 0680S 0691M 0706M 0711 0714 0716 0719  
 PTIT J // 000052 0683S 0705M  
 R I // 000177 0683S  
 RDAT I // 000253 0683S 0705M  
 REV I // 000252 0683S 0705M 0710 0711  
 RPT J // 000130 0683S  
 SRCH3\$ R EXTERNAL 000000 0721 0722 0723 0724  
 SYS J // 000143 0683S 0705M  
 TIT J // 000000 0683S 0705M  
 VEH I // 000171 0683S 0705M  
 WA I // 000256 0683S  
 WAN I // 000151 0683S 0705M  
  
 \_1 000015 0693 0694D  
 \_100 000554 0705 0719D  
 \_2 000131 0697D 0704  
 \_20 000345 0705D 0709 0718  
 \_200 000573 0719 0720D

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25	000425	0707	07100	
3	000135	0697	06980	0702
35	000451	0711	07120	
4	000325	0702	07030	
50	000475	0710	07140	
55	000507	0714	07150	
60	000523	0713	07160	
70	000556	0716	07170	

0000 ERRORS [ <ALDR >FTN-REV14.2 ]

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```
(0728) SUBROUTINE VEHN
(0729) C
(0729) C COMMON BLOCK FOR THE DIR FILE
(0729) C
(0729) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0729) COMMON COMP,REV,RDAT,WA
(0729) C
(0729) C
(0729) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0729) C
(0729) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0729) INTEGER*4 COMP(21)
(0729) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0729) C
(0730) C
(0731) C
(0732) C THIS ROUTINE LOCATED ALL ENTRIES IN THE DIR/REPORT FILE
(0733) C WHICH ARE RELATED TO EITHER A SPECIFIC VEHICLE OR VEHICLE
(0734) C
(0735) INTEGER*2 VEH1(2),VS(4),VKNT
(0736) VKNT=0
(0737) CALL CLEAR
(0738) 1 WRITE(1,2)
(0739) 2 FORMAT(*WHAT IS THE DESIRED VEHICLE NUMBER*)
(0740) READ(1,3,ERR=1)VEH1
(0741) 3 FORMAT(2(I3,A1))
(0742) 999 WRITE(1,100)
(0743) 100 FORMAT(*WHAT IS THE FIRST VALID VEHICLE NUMBER*,/)
(0744) READ(1,101,ERR=100)(VS(I),I=1,2)
(0745) 998 WRITE(1,102)
(0746) 102 FORMAT(*WHAT IS THE LAST VALID VEHICLE NUMBER*,/)
(0747) 1*NOTE - THE DEFAULT IS VEHICLE 999*)
(0748) READ(1,101,ERR=998)(VS(I),I=3,4)
(0749) 101 FORMAT(I3,A1,2X,I3,A1)
(0750) IF(VEH1(1).LT.VS(1)) GO TO 999
(0751) IF(VS(3).EQ.0) VS(3)=999
(0752) IF(VS(3).LT.VEH1(1)) GO TO 998
(0753) 4 READ(6,END=202)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
```

```
(0754) IF(VEH(1,1).LT.VS(1)) GO TO 4
(0755) IF(VEH(2,1).GT.VS(3)) GO TO 4
(0756) IF(VEH(1,2).NE.*S*.AND.VEH(1,1).EQ.VEH1(1)) GO TO 1001
(0757) IF(VEH(1,2).EQ.*S*.AND.VEH(1,1).LE.VEH1(1)) GO TO 1001
(0758) GO TO 4
(0759) 1001 VKNT=VKNT+1
(0760) CALL FMAIN
(0761) GO TO 4
(0762) 202 WRITE(1,201)VKNT,VEH1
(0763) 201 FORMAT('THERE ARE 'I10' DIR/REPORTS RELATING*,/,
(0764) 1'TO VEHICLE 'I3,A1/)
(0765) RETURN
(0766) END
```

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ACT	J //	000175	0729S						
CLEAR	R EXTERNAL	000000	0737						
COMP	J //	000200	0729S						
CON	J //	000155	0729S						
DIR	J //	000120	0729S	0753M					
DT	I //	000140	0729S	0753M					
FMAIN	R EXTERNAL	000000	0760						
I	I	000466	0744M	0748M					
ID	J //	000167	0729S						
PTIT	J //	000052	0729S	0753M					
R	I //	000177	0729S						
RDAT	I //	000253	0729S	0753M					
REV	I //	000252	0729S	0753M					
RPT	J //	000130	0729S						
SYS	J //	000143	0729S	0753M					
TIT	J //	000000	0729S	0753M					
VEH	I //	000171	0729S	0753M	0754	0755	0756	0757	
VEH1	I	000002	0735S	0740M	0750	0752	0756	0757	0762
VEHN	R	000000	0728S						
VKNT	I	000472	0735S	0736M	0759M	0762			
VS	I	000004	0735S	0744M	0748M	0750	0751M	0752	0754
			0755						
WA	I //	000256	0729S						
WAN	I //	000151	0729S	0753M					
_1		000014	0738D	0740					
_100		000070	0742	0743D	0744				
_1001		000403	0756	0757	0759D				
_101		000247	0744	0748	0749D				
_102		000151	0745	0746D					
_2		000021	0738	0739D					
_201		000423	0752	0763D					
_202		000410	0753	0762D					
_3		000056	0740	0741D					
_4		000276	0753D	0754	0755	0758	0761		
_998		000145	0745D	0748	0752				
_999		000064	0742D	0750					

SUBROUTINE VEHN

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0000 ERRORS [ <VEHN >FTN-REV14.2 ]

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```
(0767) SUBROUTINE WANUM
(0768) C
(0768) C COMMON BLOCK FOR THE DIR FILE
(0768) C
(0768) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0768) COMMON COMP,REV,RDAT,WA
(0768) C
(0768) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0768) C
(0768) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0768) INTEGER*4 COMP(21)
(0768) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0768) C
(0769) C
(0770) C
(0771) C HIS ROUTINE LOCATES ALL DOCUMENTS WITH A SPECIFIED W.A. NUMBER
(0772) C
(0773) INTEGER*2 DWA(4),KNT
(0774) KNT=0
(0775) 3 WRITE(1,1)
(0776) 1 FORMAT(' WHAT IS THE DESIRED WA NUMBER',/)
(0777) READ(1,2,ERR=3)DWA
(0778) 2 FORMAT(4A2)
(0779) 100 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0780) IF(DWA(4).NE.' ') GOTO 5
(0781) IF(DWA(3).NE.' ') GOTO 40
(0782) DO 30 I=1,2
(0783) IF(DWA(I).NE.WAN(I)) GOTO 100
(0784) 30 CONTINUE
(0785) GO TO 15
(0786) 40 DO 50 I=1,3
(0787) IF(DWA(I).NE.WAN(I)) GOTO 100
(0788) 50 CONTINUE
(0789) GO TO 15
(0790) 5 DO 10 I=1,4
(0791) IF(DWA(I).NE.WAN(I)) GO TO 100
(0792) 10 CONTINUE
```

```
(0793) 15  CALL FMAIN  
(0794)      KNT=KNT+1  
(0795)      GO TO 100  
(0796) 200  WRITE(1,250)KNT,DWA  
(0797) 250  FORMAT(* THERE ARE *I9* DOCUMENTS WITH A W.A. NUMBER*,  
(0798)      1* OF *4A2)  
(0799)      RETURN  
(0800)      END
```

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ACT	J //	000175	0768S						
COMP	J //	000200	0768S						
CON	J //	000155	0768S						
DIR	J //	000120	0768S	0779M					
DT	I //	000140	0768S	0779M					
DWA	I	000002	0773S	0777M	0780	0781	0783	0787	0791
			0796						
FMAIN	R EXTERNAL	000000	0793						
I	I	000261	0782M	0783	0786M	0787	0790M	0791	
ID	J //	000167	0768S						
KNT	I	000262	0773S	0774M	0794M	0796			
PTIT	J //	000052	0768S	0779M					
R	I //	000177	0768S						
RDAT	I //	000253	0768S	0779M					
REV	I //	000252	0768S	0779M					
RPT	J //	000130	0768S						
SYS	J //	000143	0768S	0779M					
TIT	J //	000000	0768S	0779M					
VEH	I //	000171	0768S	0779M					
WA	I //	000256	0768S						
WAN	I //	000151	0768S	0779M	0783	0787	0791		
WANUM	R	000000	0767S						
_1		000016	0775	0776D					
_10		000175	0790	0792D					
_100		000056	0779D	0783	0787	0791	0795		
_15		000204	0785	0789	0793D				
_2		000052	0777	0778D					
_200		000210	0779	0796D					
_250		000222	0796	0797D					
_3		000011	0775D	0777					
_30		000141	0782	0784D					
_40		000150	0781	0784D					
_5		000166	0780	0790D					
_50		000157	0786	0788D					

0000 ERRORS [ <WANUM >FTN-REV14.2 ]

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```
(0801) SUBROUTINE DATOR
(0802) C
(0802) C COMMON BLOCK FOR THE DIR FILE
(0802) C
(0802) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0802) COMMON COMP,REV,RDAT,WA
(0802) C
(0802) C
(0802) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0802) C
(0802) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0802) INTEGER*4 COMP(21)
(0802) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0802) C
(0803) C
(0804) C
(0805) C THIS ROUTINE LOCATED ALL DOCUMENTS WITH A SPECIFIED DATE
(0806) C
(0807) INTEGER*2 D(3)
(0808) KNT=0
(0809) 20 WRITE(1,21)
(0810) 21 FORMAT(' WHAT IS THE DATE THAT YOU WANT',/, '!MMDDYY!' /)
(0811) READ(1,22,ERR=20)D
(0812) 22 FORMAT(1X,3I2)
(0813) 100 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0814) IF(REV.EQ.' ') GOTO 150
(0815) IF(D(1).EQ.0) GO TO 110
(0816) IF(D(1).NE.DT(1)) GO TO 100
(0817) 110 IF(D(2).EQ.0) GO TO 120
(0818) IF(D(2).NE.DT(2)) GO TO 100
(0819) 120 IF(D(3).EQ.0) GO TO 130
(0820) IF(D(3).NE.DT(3)) GO TO 100
(0821) 130 CALL FMAIN
(0822) KNT=KNT+1
(0823) GO TO 100
(0824) 150 IF(D(1).EQ.0) GOTO 160
(0825) IF(D(1).NE.RDAT(1)) GOTO 100
(0826) 160 IF(D(2).EQ.0) GOTO 170
```



```
(0827)      IF(D(2).NE.RDAT(2)) GOTO 100
(0828) 170  IF(D(3).EQ.0) GOTO 130
(0829)      IF(D(3).NE.RDAT(3)) GOTO 100
(0830)      GO TO 130
(0831) 200  WRITE(1,250)*NNT,D
(0832) 250  FORMAT(' THERE ARE 'I9' DOCUMENTS WITH A DATE OF '2(I2'-''),I2)
(0833)      RETURN
(0834)      END
```

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ACT	J //	000175	0802S						
COMP	J //	000200	0802S						
CON	J //	000155	0802S						
D	I	000002	0807S	0811M	0815	0816	0817	0818	0819
			0820	0824	0825	0826	0827	0828	0829
			0831						
DATOR	R	000000	0801S						
DIR	J //	000120	0802S	0813M					
DT	I //	000140	0802S	0813M	0816	0818	0820		
FMAIN	R EXTERNAL	000000	0821						
ID	J //	000167	0802S						
KNT	I	000263	0808M	0822M	0831				
PTIT	J //	000052	0802S	0813M					
R	I //	000177	0802S						
RDAT	I //	000253	0802S	0813M	0825	0827	0829		
REV	I //	000252	0802S	0813M	0814				
RPT	J //	000130	0802S						
SYS	J //	000143	0802S	0813M					
TIT	J //	000000	0802S	0813M					
VEH	I //	000171	0802S	0813M					
WA	I //	000256	0802S						
WAN	I //	000151	0802S	0813M					
_100		000065	0813D	0816	0818	0820	0823	0825	0827
			0829						
_110		000143	0815	0817D					
_120		000152	0817	0819D					
_130		000161	0819	0821D	0828	0830			
_150		000155	0814	0824D					
_160		000174	0824	0825D					
_170		000203	0826	0828D					
_20		000010	0809D	0811					
_200		000213	0813	0831D					
_21		000015	0809	0810D					
_22		000060	0811	0812D					
_250		000225	0831	0832D					

0000 ERRORS [ <DATDR >FTN-REV14.2 ]

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290

```
(0835) SUBROUTINE SYSOR
(0836) C
(0836) C COMMON BLOCK FOR THE DIR FILE
(0836) C
(0836) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0836) COMMON COMP,REV,RDAT,WA
(0836) C
(0836) C
(0836) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0836) C
(0836) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0836) INTEGER*4 COMP(21)
(0836) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0836) C
(0837) C
(0838) C
(0839) C THIS ROUTINE LOCATES ALL DOCUMENTS WITH A SPECIFIED SYSTEM
(0840) C
(0841) INTEGER*4 DS,KNT
(0842) KNT=0
(0843) 3 WRITE(1,1)
(0844) 1 FORMAT(* WHAT IS THE DESIRED SYSTEM*)
(0845) READ(1,2,ERR=3)DS
(0846) 2 FORMAT(3A4)
(0847) 100 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0848) DO 150 I=1,3
(0849) IF(DS.EQ.SYS(I)) GO TO 175
(0850) 150 CONTINUE
(0851) GO TO 100
(0852) 175 CONTINUE
(0853) CALL FMAIN
(0854) KNT=KNT+1
(0855) GO TO 100
(0856) 200 WRITE(1,250)KNT,DS
(0857) 250 FORMAT(* THERE ARE *I* DOCUMENTS WITH A SYSTEM OF *3A4)
(0858) RETURN
(0859) END
```

ACT J // 000175 0836S  
 COMP J // 000200 0836S  
 CON J // 000155 0836S  
 DIR J // 000120 0836S 0847M  
 DS J 000217 0841S 0845M 0849 0856  
 DT I // 000140 0836S 0847M  
 FMAIN R EXTERNAL 000000 0853  
 I I 000221 0848M 0849  
 ID J // 000167 0836S  
 KNT J 000222 0841S 0842M 0854M 0856  
 PTIT J // 000052 0836S 0847M  
 R I // 000177 0836S  
 RDAT I // 000253 0836S 0847M  
 REV I // 000252 0836S 0847M  
 RPT J // 000130 0836S  
 SYS J // 000143 0836S 0847M 0849  
 SYSOR R 000000 0836S  
 TIT J // 000000 0836S 0847M  
 VEH I // 000171 0836S 0847M  
 WA I // 000256 0836S  
 WAN I // 000151 0836S 0847M  
  
 \_1 000013 0843 0844D  
 \_100 000051 0847D 0851 0855  
 \_150 000131 0848 0850D  
 \_175 000140 0849 0852D  
 \_2 000045 0845 0846D  
 \_200 000151 0847 0856D  
 \_250 000163 0856 0857D  
 \_3 000006 0843D 0845

0000 ERRORS [<SYSOR >FTN-REV14.2]

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9/91

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292

```
(0860) SUBROUTINE CONN
(0861) C
(0861) C COMMON BLOCK FOR THE DIR FILE
(0861) C
(0861) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0861) COMMON COMP,REV,RDAT,WA
(0861) C
(0861) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0861) C
(0861) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0861) INTEGER*4 COMP(21)
(0861) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0861) C
(0862) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0862) NOLIST
(0863) C
(0864) C
(0865) C THIS ROUTINE LOCATES ALL DOCUMENTS WITH A SPECIFIED CONTRACT NUMBER
(0866) C
(0867) INTEGER*4 DC(5),KNT
(0868) INTEGER*2 IT,IC
(0869) KNT=0
(0870) 1 WRITE(1,3)
(0871) 3 FORMAT(' WHAT IS THE DESIRED CONTRACT NUMBER',/)
(0872) READ(1,2,ERR=1)DC
(0873) 2 FORMAT(5A4)
(0874) CALL SRCH$$ (K$RDWR+K$NDAM,'CTAB ',6,14,IT,IC)
(0875) 30 READ(18,40,END=200)WA,CON
(0876) 40 FORMAT(5X,4A2,2X,5A4)
(0877) DO 45 I=1,5
(0878) IF(CON(I).NE.DC(I)) GOTO 30
(0879) 45 CONTINUE
(0880) 100 READ(6,END=90)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0881) IF(WA(1).EQ.'38'.AND.WA(2).EQ.'04'.OR.WA(2).EQ.'09') GOTO 660
(0882) IF(WAN(1).NE.WA(1)) GOTO 160
(0883) IF(WAN(2).NE.WA(2)) GOTO 100
(0884) GO TO 701
```

```
(0885) 660 DO 665 I=1,4
(0886)      IF(WAN(I).NE.WA(I)) GOTO 100
(0887) 665 CONTINUE
(0888) 701 CALL CMAIN
(0889)      KNT=KNT+1
(0890)      GO TO 100
(0891) 90 REWIND 6
(0892)      GO TO 30
(0893) 200 WRITE(1,250)KNT,DC
(0894) 250 FORMAT(' THERE ARE 'I9' DOCUMENTS WITH A CONTRACT',
(0895)      1' NUMBER OF '5A4)
(0896)      CALL SRCH$$ (KSCLOS,'CTAB ',6,0,0,0)
(0897)      RETURN
(0898)      END
```

C-75

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ACT J // 000175 0861S  
 CMAIN R EXTERNAL 000000 088R  
 COMP J // 000200 0861S  
 CON J // 000155 0861S 0875M 0878  
 CONN R 000000 0860S  
 DC J 000002 0867S 0872M 0878 0893  
 DIR J // 000120 0861S 08POM  
 DT I // 000140 0861S 0880M  
 I I 000405 0877M 0878 0885M 0886  
 IC I 000407 0868S 0874A  
 ID J // 000167 0861S  
 IT I 000410 0868S 0874A  
 KSALLD I PARAMETER 0862S  
 KSCACC I PARAMETER 0862S  
 KSCLOS I PARAMETER 0862S 0896  
 KSCONV I PARAMETER 0862S  
 KSCURR I PARAMETER 0862S  
 KSDELE I PARAMETER 0862S  
 KSDMPB I PARAMETER 0862S  
 KSDTIM I PARAMETER 0862S  
 KSENTR I 000000 0862S  
 KSEXST I PARAMETER 0862S  
 KSGOND I PARAMETER 0862S  
 KSGPOS I PARAMETER 0862S  
 KSHOME I PARAMETER 0862S  
 KSICUR I PARAMETER 0862S  
 KSIMFD I PARAMETER 0862S  
 KSIRTN I PARAMETER 0862S  
 KSISEG I PARAMETER 0862S  
 KSIJFD I PARAMETER 0862S  
 KSMENT I 000000 0862S  
 KSMSIZ I PARAMETER 0862S  
 KSMVNT I PARAMETER 0862S  
 KSN DAM I PARAMETER 0862S 0874  
 KSNRTN I PARAMETER 0862S  
 KSNSAM I PARAMETER 0862S  
 KSNSGD I PARAMETER 0862S  
 KNSNGS I PARAMETER 0862S

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K\$POSA	I	PARAMETER	0862S					
K\$POSN	I	PARAMETER	0862S					
K\$POSR	I	PARAMETER	0862S					
K\$PREA	I	PARAMETER	0862S					
K\$PRER	I	PARAMETER	0862S					
K\$PROT	I	PARAMETER	0862S					
K\$RDWR	I	PARAMETER	0862S	0874				
K\$READ	I	PARAMETER	0862S					
K\$RPOS	I	PARAMETER	0862S					
K\$RSUB	I	PARAMETER	0862S					
K\$RJLK	I	PARAMETER	0862S					
K\$SENT	I	000000	0862S					
K\$SETC	I	PARAMETER	0862S					
K\$SETH	I	PARAMETER	0862S					
K\$SPOS	I	PARAMETER	0862S					
K\$SRTN	I	PARAMETER	0862S					
K\$TRNC	I	PARAMETER	0862S					
K\$UPOS	I	PARAMETER	0862S					
K\$WRIT	I	PARAMETER	0862S					
KNT	J	000411	0867S	0869M	0889M	0893		
PTIT	J	//	000052	0861S	0880M			
R	I	//	000177	0861S				
RDAT	I	//	000253	0861S	0880M			
REV	I	//	000252	0861S	0880M			
RPT	J	//	000130	0861S				
SRCH\$\$	R	EXTERNAL	000000	0874	0896			
SYS	J	//	000143	0861S	0890M			
TIT	J	//	000000	0861S	0880M			
VEH	I	//	000171	0861S	0890M			
WA	I	//	000256	0861S	0875M	0881	0882	0883
WAN	I	//	000151	0861S	0880M	0882	0883	0886
_1		000021	0870D	0872				
_100		000161	0890D	0882	0883	0886	0890	
_2		000065	0872	0873D				
_200		000320	0875	0893D				
_250		000332	0893	0894D				
_3		000026	0870	0871D				

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_30	000101	0875D	0878	0892
_40	000116	0875	0876D	
_45	000152	0877	0879D	
_660	000264	0881	0885D	
_665	000275	0885	0887D	
_701	000304	0884	0888D	
_90	000315	0880	0891D	

0000 ERRORS [ <CONN >FTN-REV14.2 ]

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207

```
(0899) SUBROUTINE DIRN
(0900) C
(0900) C COMMON BLOCK FOR THE DIR FILE
(0900) C
(0900) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0900) COMMON COMP,REV,RDAT,WA
(0900) C
(0900) C
(0900) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0900) C
(0900) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0900) INTEGER*4 COMP(21)
(0900) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0900) C
(0901) C
(0902) C
(0903) C THIS ROUTINE LOCATES A DOCUMENT WITH A SPECIFIED
(0904) C DIR-REPORT NUMBER
(0905) C
(0906) C INTEGER*4 KNT,IDIR(4)
(0907) KNT=0
(0908) 3 WRITE(1,1)
(0909) 1 FORMAT(* WHAT IS THE DESIRED DIR-REPORT NUMBER*/)
(0910) READ(1,2,ERR=3) IDIR
(0911) 2 FORMAT(3A4,A2)
(0912) WRITE(1,2)IDIR
(0913) 100 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(0914) DO 1000 I=1,4
(0915) IF(IDIR(I).NE.DIR(I)) GO TO 100
(0916) 1000 CONTINUE
(0917) CALL FMAIN
(0918) GO TO 100
(0919) 200 RETURN
(0920) END
```

ACT J // 000175 0900S  
 COMP J // 000200 0900S  
 CON J // 000155 0900S  
 DIR J // 000120 0900S 0913M 0915  
 DIRN R 000000 0900S  
 DT I // 000140 0900S 0913M  
 FMAIN R EXTERNAL 000000 0917  
 I I 000176 0914M 0915  
 ID J // 000167 0900S  
 IDIR J 000002 0906S 0910M 0912 0915  
 KNT J 000200 0906S 0907M  
 PTIT J // 000052 0900S 0913M  
 R I // 000177 0900S  
 RDAT I // 000253 0900S 0913M  
 REV I // 000252 0900S 0913M  
 RPT J // 000130 0900S  
 SYS J // 000143 0900S 0913M  
 TIT J // 000000 0900S 0913M  
 VEH I // 000171 0900S 0913M  
 WA I // 000256 0900S  
 WAN I // 000151 0900S 0913M  
  
 \_1 000024 0909 0909D  
 \_100 000100 0913D 0915 0918  
 \_1000 000163 0914 0916D  
 \_2 000064 0910 0911D 0912  
 \_200 000174 0913 0919D  
 \_3 000017 0908D 0910

0000 ERRORS [<DIRN >FTN-REV14.2]

(0921) SUBROUTINE GETCON  
(0922) C  
(0922) C COMMON BLOCK FOR THE DIR FILE  
(0922) C  
(0922) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
(0922) COMMON COMP,REV,RDAT,WA  
(0922) C  
(0922) C  
(0922) C DATA DECLARATION BLOCK FOR THE DIR FILE  
(0922) C  
(0922) INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
(0922) INTEGER\*4 COMP(21)  
(0922) INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
(0922) C  
(0923) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
(0923) NOLIST  
(0924) INTEGER\*2 IT,IC  
(0925) CALL SRCHSS(KSRDWR+K\$NDAM,\*CTAB \*,6,14,IT,IC)  
(0926) REWIND 18  
(0927) 650 READ(18,655,END=690)WA,CON  
(0928) 655 FORMAT(5X,4A2,2X,5A4)  
(0929) IF(WAN(1).EQ.\*33\*.AND.WAN(2).EQ.\*02\*) GOTO 670  
(0930) IF(WAN(1).EQ.\*38\*.AND.WAN(2).EQ.\*04\*.OR.WAN(2).EQ.\*09\*) GOTO 660  
(0931) IF(WAN(1).NE.WA(1)) GOTO 650  
(0932) IF(WAN(2).NE.WA(2)) GOTO 650  
(0933) GO TO 800  
(0934) 660 DO 665 I=1,4  
(0935) IF(WAN(I).NE.WA(I)) GOTO 650  
(0936) 665 CONTINUE  
(0937) GO TO 800  
(0938) 670 IF(WAN(1).NE.WA(1)) GOTO 650  
(0939) IF(WAN(2).NE.WA(2)) GOTO 650  
(0940) IF(WAN(3).NE.\*AB\*.AND.WAN(3).NE.\*BA\*) GO TO 800  
(0941) IF(WAN(3).EQ.\*AB\*.AND.WA(3).EQ.\*A \*) GOTO 800  
(0942) IF(WAN(3).EQ.\*BA\*.AND.WA(3).EQ.\*B \*) GOTO 800  
(0943) GO TO 650  
(0944) 690 CON(1)=\*WA N\*  
(0945) CON(2)=\*OT F\*

(0946) CON(3)=\*OUND\*  
(0947) CON(4)=\* SEE\*  
(0948) CON(5)=\* RJK\*  
(0949) 800 CALL SRCH\$\$ (K\$CLOS,\*CTAB \*6,0,0,0)  
(0950) RETURN  
(0951) END

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300

ACT	J //	000175	0922S						
COMP	J //	000200	0922S						
CON	J //	000155	0922S	0927M	0944M	0945M	0946M	0947M	0948M
DIR	J //	000120	0922S						
DT	I //	000140	0922S						
GETCON	R	000000	0921S						
I	I	000256	0934M	0935					
IC	I	000261	0924S	0925A					
ID	J //	000167	0922S						
IT	I	000262	0924S	0925A					
K\$ALLO	I	PARAMETER	0923S						
K\$CACC	I	PARAMETER	0923S						
K\$CLOS	I	PARAMETER	0923S	0949					
K\$CONV	I	PARAMETER	0923S						
K\$CURR	I	PARAMETER	0923S						
K\$DELE	I	PARAMETER	0923S						
K\$DMPB	I	PARAMETER	0923S						
K\$DTIM	I	PARAMETER	0923S						
K\$ENTR	I	000000	0923S						
K\$EXST	I	PARAMETER	0923S						
K\$GOND	I	PARAMETER	0923S						
K\$GPOS	I	PARAMETER	0923S						
K\$HOME	I	PARAMETER	0923S						
K\$ICUR	I	PARAMETER	0923S						
K\$IMFD	I	PARAMETER	0923S						
K\$IRTN	I	PARAMETER	0923S						
K\$ISEG	I	PARAMETER	0923S						
K\$IUFD	I	PARAMETER	0923S						
K\$MENT	I	000000	0923S						
K\$MSIZ	I	PARAMETER	0923S						
K\$MVNT	I	PARAMETER	0923S						
K\$NDAM	I	PARAMETER	0923S	0925					
K\$NRTN	I	PARAMETER	0923S						
K\$NSAM	I	PARAMETER	0923S						
K\$NSGD	I	PARAMETER	0923S						
K\$NSGS	I	PARAMETER	0923S						
K\$POSA	I	PARAMETER	0923S						
K\$POSN	I	PARAMETER	0923S						

K\$POSR	I	PARAMETER	0923S							
K\$PREA	I	PARAMETER	0923S							
K\$PRER	I	PARAMETER	0923S							
K\$PROT	I	PARAMETER	0923S							
K\$RDWR	I	PARAMETER	0923S	0925						
K\$READ	I	PARAMETER	0923S							
K\$RPOS	I	PARAMETER	0923S							
K\$RSUB	I	PARAMETER	0923S							
K\$RWLK	I	PARAMETER	0923S							
K\$SENT	I	000000	0923S							
K\$SETC	I	PARAMETER	0923S							
K\$SETH	I	PARAMETER	0923S							
K\$SPOS	I	PARAMETER	0923S							
K\$SRTN	I	PARAMETER	0923S							
K\$TRNC	I	PARAMETER	0923S							
K\$UPOS	I	PARAMETER	0923S							
K\$WRIT	I	PARAMETER	0923S							
PTIT	J	//	000052	0922S						
R	I	//	000177	0922S						
RDAT	I	//	000253	0922S						
REV	I	//	000252	0922S						
RPT	J	//	000130	0922S						
SRCH\$\$	R	EXTERNAL	000000	0525	0949					
SYS	J	//	000143	0922S						
TIT	J	//	000000	0922S						
VEH	I	//	000171	0922S						
WA	I	//	000256	0922S	0927M	0931	0932	0935	0938	0939
				0941	0942					
WAN	I	//	000151	0922S	0929	0930	0931	0932	0935	0938
				0939	0940	0941	0942			
_650		000014	0927D	0931	0932	0935	0938	0939	0943	
_655		000030	0927	0923D						
_660		000117	0930	0934D						
_665		000131	0934	0935D						
_670		000140	0929	0938D						
_690		000217	0927	0944D						
_800		000245	0935	0937	0940	0941	0942	0949D		

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DDA

SUBROUTINE GETCON

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0000 ERRORS [<GETCON>FTN-REV14.2]

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706 98-J

```
(0952) SUBROUTINE FMAIN
(0953) C
(0953) C COMMON BLOCK FOR THE DIR FILE
(0953) C
(0953) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(0953) COMMON COMP,REV,RDAT,WA
(0953) C
(0953) C DATA DECLARATION BLOCK FOR THE DIR FILE
(0953) C
(0953) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(0953) INTEGER*4 COMP(21)
(0953) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(0953) C
(0954) C
(0955) C
(0956) C THIS IS THE BASIC OUTPUT ROUTINE FOR THE SPOOLER AND TERMINAL
(0957) C
(0958) WRITE(1,998)
(0959) 998 FORMAT(//)
(0960) 999 FORMAT(1H0)
(0961) WRITE(7,999)
(0962) 103 WRITE(1,101)
(0963) WRITE(7,101)
(0964) 101 FORMAT(* (1) TITLE '/')
(0965) WRITE(1,102)PTIT
(0966) WRITE(7,102)PTIT
(0967) 102 FORMAT(1X,19A4)
(0968) IF(REV.NE.' ') GOTO 201
(0969) WRITE(1,150)DIR,REV
(0970) WRITE(7,150)DIR,REV
(0971) 150 FORMAT(* (2) DIR/REPORT NUMBER (8) REVISION',/,1X,3A4,A2,9X,1A2/)
(0972) GO TO 400
(0973) 201 WRITE(1,202)DIR,REV
(0974) 202 FORMAT(* (2) DIR/REPORT NUMBER (8) REVISION',/,1X,3A4,A2,9X,
(0975) 1 *REV ',1A2/)
(0976) WRITE(7,202)DIR,REV
(0977) 400 WRITE(7,402)DT,RDAT
```

```
(0978) WRITE(1,402)DT,RDAT
(0979) 402 FORMAT(* (3) DOCUMENT DATE*,6X,* (9) REVISION DATE*,/,1X,2(I2,*-*),
(0980) 1 I2,15X,2(I2,*-*),I2/)
(0981) 501 WRITE(1,502)SYS
(0982) WRITE(7,502)SYS
(0983) 502 FORMAT(* (4) SYSTEM*,/3(1X,A4)/)
(0984) 601 WRITE(1,602)WAN
(0985) WRITE(7,602)WAN
(0986) 602 FORMAT(* (5) W.A. NUMBER/ID CODE*,/1X,4A2/)
(0987) CALL GETCON
(0988) 701 WRITE(1,702)CON
(0989) WRITE(7,702)CON
(0990) 702 FORMAT(* (6) CONTRACT NUMBER*,/,1X,5A4/)
(0991) 901 WRITE(1,902)((VEH(I,J),J=1,2),I=1,2)
(0992) WRITE(7,902)((VEH(I,J),J=1,2),I=1,2)
(0993) 902 FORMAT(* (7) VEHICLE*,/,1X,I3,A1,1X,I3,A1/)
(0994) CALL RECYCL
(0995) CALL PAUS
(0996) RETURN
(0997) END
```

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ACT	J //	000175	0953S					
CAMP	J //	000200	0953S					
CON	J //	000155	0953S	0988	0989			
DIR	J //	000120	0953S	0969	0970	0973	0976	
DT	I //	000140	0953S	0977	0978			
FMAIN	R	000000	0952S					
GETCON	R EXTERNAL	000000	0987					
I	I	006632	0991M	0992M				
ID	J //	000167	0953S					
J	I	000633	0991M	0992M				
PAUS	R EXTERNAL	000000	0995					
PTIT	J //	000052	0953S	0965	0966			
R	I //	000177	0953S					
RDAT	I //	000253	0953S	0977	0978			
RECYCL	R EXTERNAL	000000	0994					
REV	I //	000252	0953S	0968	0969	0970	0973	0976
RPT	J //	000130	0953S					
SXS	J //	000143	0953S	0981	0982			
TIT	J //	000000	0953S					
VEH	I //	000171	0953S	0991	0992			
WA	I //	000256	0953S					
WAN	I //	000151	0953S	0984	0985			
_101		000032	0962	0963	09640			
_102		000061	0965	0966	09670			
_103		000022	09620					
_150		000121	0969	0970	09710			
_201		000161	0968	09730				
_202		000173	0973	09740	0976			
_400		000250	0972	09770				
_402		000274	0977	0978	09790			
_501		000346	09810					
_502		000364	0921	0982	09830			
_601		000402	09840					
_602		000422	0984	0985	09860			
_701		000447	09880					
_702		000465	0988	0989	09900			
_901		000507	09910					

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SUBROUTINE FMAIN

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_9J2	000601	0991	0992	0993D
_938	000006	0958	0959D	
_999	000011	0960D	0961	

0000 ERRORS [ <FMAIN >FTN-REV14.2 ]

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(0908) SUBROUTINE CMAIN  
(0909) C  
(0919) C COMMON BLOCK FOR THE DIR FILE  
(0939) C  
(0999) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R  
(0999) COMMON COMP,REV,RDAT,WA  
(0999) C  
(0999) C  
(0999) C DATA DECLARATION BLOCK FOR THE DIR FILE  
(0959) C  
(0999) INTEGER\*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT  
(0939) INTEGER\*4 COMP(21)  
(0999) INTEGER\*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)  
(0999) C  
(1000) C  
(1001) C  
(1002) C THIS IS THE BASIC OUTPUT ROUTINE FOR THE SPOOLER AND TERMINAL  
(1003) C  
(1004) WRITE(1,998)  
(1005) 998 FORMAT(//)  
(1006) 999 FORMAT(1H0)  
(1007) WRITE(7,999)  
(1008) 103 WRITE(1,101)  
(1009) WRITE(7,101)  
(1010) 101 FORMAT(\* (1) TITLE \*)  
(1011) WRITE(1,102)PTIT  
(1012) WRITE(7,102)PTIT  
(1013) 102 FORMAT(1X,19A4)  
(1014) IF(REV.NE.\* \*) GOTO 201  
(1015) WRITE(1,150)DIR,REV  
(1016) WRITE(7,150)DIR,REV  
(1017) 150 FORMAT(\* (2) DIR/REPORT NUMBER (8) REVISION\*,/,1X,3A4,A2,9X,1A2//)  
(1018) GO TO 400  
(1019) 201 WRITE(1,202)DIR,REV  
(1020) 202 FORMAT(\* (2) DIR/REPORT NUMBER (8) REVISION\*,/,1X,3A4,A2,9X,  
(1021) 1 \*REV \*,1A2//)  
(1022) WRITE(7,202)DIR,REV  
(1023) 400 WRITE(7,402)DT,RDAT

```
(1J24)      WRITE(1,402)DT,RDAT
(1J25) 402  FORMAT(* (3) DOCUMENT DATE*,6X,* (9) REVISION DATE*,/,1X,2(I2,*-*),
(1026)      1 I2,15X,2(I2,*-*),I2/)
(1027) 501  WRITE(1,502)SYS
(1028)      WRITE(7,502)SYS
(1029) 502  FORMAT(* (4) SYSTEM*,/3(1X,A4)/)
(1030) 601  WRITE(1,602)WAN
(1031)      WRITE(7,602)WAN
(1032) 602  FORMAT(* (5) W.A. NUMBER/ID CODE*,/1X,4A2/)
(1033) 701  WRITE(1,702)CON
(1034)      WRITE(7,702)CON
(1035) 702  FORMAT(* (6) CONTRACT NUMBER*,/1X,5A4/)
(1036) 901  WRITE(1,902)((VEH(I,J),J=1,2),I=1,2)
(1037)      WRITE(7,902)((VEH(I,J),J=1,2),I=1,2)
(1038) 902  FORMAT(* (7) VEHICLE*,/,1X,I3,A1,1X,I3,A1/)
(1039)      CALL RECYCL
(1040)      CALL PAUS
(1041)      RETURN
(1042)      END
```

ACT	J //	000175	0999S					
CHAIN	R	000000	0998S					
COMP	J //	000200	0999S					
CON	J //	000155	0999S	1033	1034			
DIR	J //	000120	0999S	1015	1016	1019	1022	
DT	I //	000140	0999S	1023	1024			
I	I	000631	1036M	1037M				
ID	J //	000167	0999S					
J	I	000632	1036M	1037M				
PAUS	R EXTERNAL	000000	1040					
PTIT	J //	000052	0999S	1011	1012			
R	I //	000177	0999S					
RDAT	I //	000253	0999S	1023	1024			
RECYCL	R EXTERNAL	000000	1039					
REV	I //	000252	0999S	1014	1015	1016	1019	1022
RPT	J //	000130	0999S					
SYS	J //	000143	0999S	1027	1028			
TIT	J //	000000	0999S					
VEH	I //	000171	0999S	1036	1037			
WA	I //	000256	0999S					
WAN	I //	000151	0999S	1030	1031			
_101		000032	1008	1009	10100			
_102		000061	1011	1012	10130			
_103		000022	10080					
_150		000121	1015	1016	10170			
_201		000161	1014	10190				
_202		000173	1019	10200	1022			
_400		000250	1018	10230				
_402		000274	1023	1024	10250			
_501		000346	10270					
_502		000364	1027	1028	10290			
_601		000402	10300					
_602		000422	1030	1031	10320			
_701		000446	10330					
_702		000464	1033	1034	10350			
_901		000506	10360					
_902		000600	1036	1037	10380			

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SUBROUTINE CMAIN

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598            000006   1004   1005D  
599            000011   1006D   1007

0000 ERRORS [<CMAIN >FTN-REV14.2]

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```

(1043) SUBROUTINE ARCDR
(1044) C
(1044) C COMMON BLOCK FOR THE DIR FILE
(1044) C
(1044) COMMON TIT,PTIT,DIR,RPT,DT,SYS,WAN,CON,ID,VEH,ACT,R
(1044) COMMON COMP,REV,RDAT,WA
(1044) C
(1044) C DATA DECLARATION BLOCK FOR THE DIR FILE
(1044) C
(1044) INTEGER*4 TIT(21),PTIT(19),DIR(4),RPT(4),SYS(3),CON(5),ID,ACT
(1044) INTEGER*4 COMP(21)
(1044) INTEGER*2 DT(3),WAN(4),VEH(2,2),R,REV,RDAT(3),WA(4)
(1044) C
(1045) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(1045) NOLIST
(1046) C
(1047) C
(1048) C ARCHIVE ROUTINE FOR THE DIR FILE
(1049) C
(1050) INTEGER*4 IDR(4)
(1051) INTEGER*2 IT,IC
(1052) C VALIDATE THE INCOMMING USER
(1053) C
(1054) CALL IDUSER(IAI)
(1055) IF(IAI.EQ.'SY') GO TO 10
(1056) WRITE(1,300)
(1057) 300 FORMAT('GGSORRY YOU ARE NOT VALIDATED TO USE THIS',
(1058) 11X'ROUTINE',/, 'IF IT IS NEEDED CONTACT YOUR SYSTEMS',
(1059) 11X' PROGRAMMER AT EXT 2621'////////)
(1060) RETURN
(1061) 10 WRITE(1,1)
(1062) 1 FORMAT(' WELCOME TO THE DIR-REPORT FILE ARCHIVE ROUTINE',/
(1063) 1' HOW MANY DOCUMENTS DO YOU WISH TO ARCHIVE',/)
(1064) READ(1,2,ERR=10)IKNT
(1065) 2 FORMAT(I5)
(1066) IF(IKNT.EQ.0) RETURN
(1067) CALL SRCH$$ (KSRDWR+K$NDAM,'INACT ',6,5,IT,IC)

```

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2/2

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3/3

```
(1068) C
(1069) C   PLACE THE ARCHIVE FILE AT THE EOF MARKER
(1070) C
(1071) 50   READ(9,END=75)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(1072)      GO TO 50
(1073) 75   DO 9999 ILOOP=1,IKNT
(1074) 82   WRITE(1,80)
(1075) 80   FORMAT(* WHAT IS THE DIR-REPORT NUMBER OF THE DOCUMENT *,
(1076)      1* YOU WISH TO ARCHIVE*,/)
(1077)      READ(1,81,ERR=82)IDR
(1078) 81   FORMAT(3A4,A2)
(1079) 100  READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(1080)      DO 150 I=1,4
(1081)      IF(IDR(I).NE.DIR(I)) GO TO 125
(1082) 150  CONTINUE
(1083)      WRITE(9)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(1084)      GO TO 100
(1085) 125  WRITE(10)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
(1086)      GO TO 100
(1087) 200  CALL SRCH$$ (KSCLOS,'DIR'  *,6,0,0,0)
(1088)      CALL SRCH$$ (KSDELE,'DIR'  *,6,0,0,0)
(1089)      CALL SRCH$$ (KSCLOS,'TEMP' *,6,0,0,0)
(1090)      CALL CNAM$$ (*TEMP *,6,'DIR' *,6,IC)
(1091)      CALL SRCH$$ (KSRDWR+K$NDAM,'DIR'  *,6,2,IT,IC)
(1092)      CALL SRCH$$ (KSRDWR+K$NDAM,'TEMP' *,6,6,IT,IC)
(1093) 9999 CONTINUE
(1094)      ENDFILE 9
(1095)      CALL SRCH$$ (KSCLOS,'INACT' *,6,0,0,0)
(1096)      RETURN
(1097)      END
```

ACT J // 000175 1044S  
 ARCDR R 000000 1043S  
 CNAM\$\$ R EXTERNAL 000000 1090  
 COMP J // 000200 1044S  
 CON J // 000155 1044S  
 DIR J // 000120 1044S 1071M 1079M 1081 1083 1085  
 DT I // 000140 1044S 1071M 1079M 1083 1085  
 I I 000705 1080M 1081  
 ?AI I 000707 1054A 1055  
 IC I 000710 1051S 1067A 1090A 1091A 1092A  
 IO J // 000167 1044S  
 IDR J 000002 1050S 1077M 1081  
 IDUSER I EXTERNAL 000000 1054  
 IKNT I 000711 1064M 1066 1073  
 ILCOP I 000712 1073M  
 IT I 000713 1051S 1067A 1091A 1092A  
 K\$ALLO I PARAMETER 1045S  
 K\$CACC I PARAMETER 1045S  
 K\$CLOS I PARAMETER 1045S 1087 1089 1095  
 K\$CONV I PARAMETER 1045S  
 K\$CURR I PARAMETER 1045S  
 K\$DELE I PARAMETER 1045S 1088  
 K\$DMPB I PARAMETER 1045S  
 K\$DTIM I PARAMETER 1045S  
 K\$ENTR I 000000 1045S  
 K\$EXST I PARAMETER 1045S  
 K\$GOND I PARAMETER 1045S  
 K\$GPOS I PARAMETER 1045S  
 K\$HOME I PARAMETER 1045S  
 K\$ICUR I PARAMETER 1045S  
 K\$IMFD I PARAMETER 1045S  
 K\$IRTN I PARAMETER 1045S  
 K\$ISEG I PARAMETER 1045S  
 K\$IUFD I PARAMETER 1045S  
 K\$MENT I 000000 1045S  
 K\$MSIZ I PARAMETER 1045S  
 K\$MVNT I PARAMETER 1045S  
 K\$NDAM I PARAMETER 1045S 1067 1091 1092

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KSNRTN I PARAMETER 1045S  
 KSNSAM I PARAMETER 1045S  
 KSNSGD I PARAMETER 1045S  
 KSNSGS I PARAMETER 1045S  
 KSPOSA I PARAMETER 1045S  
 KSPOSN I PARAMETER 1045S  
 KSPCSR I PARAMETER 1045S  
 KSPRCA I PARAMETER 1045S  
 KSPRER I PARAMETER 1045S  
 KSPRJT I PARAMETER 1045S  
 KSRUWR I PARAMETER 1045S 1067 1091 1092  
 KSRUAD I PARAMETER 1045S  
 KSRPOS I PARAMETER 1045S  
 KRSUP I PARAMETER 1045S  
 KSRWLR I PARAMETER 1045S  
 KSSENT I 000000 1045S  
 KSSETC I PARAMETER 1045S  
 KSSETH I PARAMETER 1045S  
 KSSPOS I PARAMETER 1045S  
 KSSRTN I PARAMETER 1045S  
 KSTRNC I PARAMETER 1045S  
 KSUPOS I PARAMETER 1045S  
 KSWRIT I PARAMETER 1045S  
 PTIT J // 000052 1044S 1071M 1079M 1083 1085  
 R I // 000177 1044S  
 RDAT I // 000253 1044S 1071M 1079M 1083 1085  
 REV I // 000252 1044S 1071M 1079M 1083 1085  
 RPT J // 000130 1044S  
 SRCH\$\$ R EXTERNAL 000000 1067 1087 1088 1089 1091 1092 1095  
 SYS J // 000143 1044S 1071M 1079M 1083 1085  
 TIT J // 000000 1044S 1071M 1079M 1083 1085  
 VEH I // 000171 1044S 1071M 1079M 1083 1085  
 WA I // 000256 1044S  
 WAN I // 000151 1044S 1071M 1079M 1083 1085  
  
 1 000137 1051 10620  
 10 000133 1055 10610 1064  
 100 000410 10790 1084 1086

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_125	000542	1081	1085D
_150	000474	1080	1082D
_2	000233	1064	1065D
_200	000602	1079	1087D
_300	000027	1056	1057D
_50	000252	1071D	1072
_75	000314	1071	1073D
_80	000323	1074	1075D
_91	000403	1077	1078C
_92	000317	1074D	1077
9999	000661	1073	1093D

0000 ERRORS [ <ARCDR >FTN-REV14.2 ]

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APPENDIX D

L\_FILE FOR DRAWING/ENGINEERING ORDER

```
*****  
*****  
**  
**  
** WWW W W W W  
** W W W W W W  
** W W W W W W  
** W W W W W W  
** WWW W W W W  
**  
**  
** W WWW W W WWW  
** W W W W W W  
** W WWW W W WWW  
** W W W W W W  
** W W W W W W  
** WWW W WWW WWW  
**  
**  
*****  
*****
```

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(0001) C  
 (0002) C DRAWING-EO FILE FOR NASA/SPO  
 (0003) C  
 (0004) C WRITTEN BY DANNY K. HARRIS - VOUGHT CORP.  
 (0005) C FOR THE NASA/SPO/PRIME 300 MINI. COMPUTER  
 (0006) C  
 ( ) C  
 (0008) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (0008) C  
 (0008) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (0008) 1 DRW,SHTN,REV,NEO,EOREF,  
 (0008) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (0008) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (0008) C  
 (0008) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (0008) C  
 (0008) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (0008) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (0008) 1 IDR(4),KNT,TTIT(19)  
 (0008) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (0008) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (0008) 1 FIRST,SECOND  
 (0008) C  
 (0008) C  
 (0009) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0009) NOLIST  
 (0010) INTEGER\*2 IDES,IC,IPAS(3)  
 (0011) C  
 (0012) CALL CLEAR  
 (0013) C  
 (0014) C FILES USED  
 (0015) C FILE UNIT FUNIT DESCRIPTION  
 (0016) C  
 (0017) C TTY 1 1 TERMINAL  
 (0018) C DRAW 6 2 DRAW DATA STORAGE SUBFILE  
 (0019) C OUT 7 3 OUTPUT FILE FOR THE SPOOLER  
 (0020) C REVS 8 4 TEMP FILE FOR USE IN THE REVISE RUN

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(0021) C INACTD 9 5 INACTIVE DRAWING STORAGE FILE - ARCHIVE RUN  
 (0022) C TEMP 10 6 GENERAL PURPOSE TEMP FILE FOR DRAWINGS  
 (0023) C INACTS 11 7 INACTIVE SHEET STORAGE FILE - ARCHIVE RUN  
 (0024) C SHEET 12 8 SHEET DATA STORAGE SUBFILE  
 (0025) C ETEMP 13 9 GENERAL PURPOSE TEMP FILE FOR EO'S  
 (0026) C STEMP 14 10 GENERAL PURPOSE TEMP FILE FOR SHEET DATA  
 (0027) C INACTE 17 13 INACTIVE EO STORAGE FILE - ARCHIVE RUN  
 (0028) C EO 18 14 E.O. DATA STORAGE SUBFILE.  
 (0029) C  
 (0030) C  
 (0031) CALL COMISS(\*TTY \*6,12,IC)  
 (0032) CALL IDENT  
 (0033) CALL BREAKS(.TRUE.)  
 (0034) CALL SRCH\$(K\$RDWR+K\$NDAM,\*DRAW \*6,2,1,IC)  
 (0035) IF(IC.NE.0) GOTO 1000  
 (0036) CALL SRCH\$(K\$RDWR+K\$NDAM,\*EO \*6,14,1,IC)  
 (0037) IF(IC.NE.0) GOTO 1000  
 (0038) CALL SRCH\$(K\$RDWR+K\$NDAM,\*SHEET \*6,8,1,IC)  
 (0039) IF(IC.NE.0) GOTO 1000  
 (0040) WRITE(1,3)  
 (0041) CALL BREAKS(.FALSE.)  
 (0042) 2 READ(1,4)IDES  
 (0043) REWIND 6  
 (0044) REWIND 12  
 (0045) REWIND 18  
 (0046) A FORMAT(A2)  
 (0047) IF(IDES.EQ.\*IN\*) CALL INPTDW  
 (0048) IF(IDES.EQ.\*SE\*) CALL SEADW  
 (0049) IF(IDES.EQ.\*RE\*) CALL REVSDW  
 (0050) IF(IDES.EQ.\*AR\*) CALL ARCDW  
 (0051) IF(IDES.EQ.\*QU\*) GO TO 1001  
 (0052) CALL CLEAR  
 (0053) WRITE(1,3)  
 (0054) 3 FORMAT(\* PLEASE CHOSE ONE OF THE FOLLOWING\*,/,  
 (0055) 1\* MODE KEY\*,/,  
 (0056) 1\* INPUT INP\*,/,  
 (0057) 1\* REVISE REV\*,/,  
 (0058) 1\* SEARCH SEA\*,/,

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```
(0059)      1* ARCHIVE          ARC*,/,
(0060)      1* QUIT            QUIT*,//)
(0061)      GO TO 2
(0062) 1000 WRITE(1,1002)
(0063) 1002 FORMAT('DRAW FILE IS IN USE - PLEASE TRY LATER'//////)
(0064) 1001 CALL SRCH$$ (K$CLOS,'DRAW' ,6,0,0,0)
(0065)      CALL SRCH$$ (K$CLOS,'EO' ,6,0,0,0)
(0066)      CALL SRCH$$ (K$CLOS,'SHEET' ,6,0,0,0)
(0067)      IPAS(1)=* *
(0068)      IPAS(2)=* *
(0069)      IPAS(3)=* *
(0070)      CALL ATCH$$ ('F_MAIL',6,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
(0071)      CALL RESU$$ ('BFILE',5)
(0072)      CALL EXIT
(0073)      END
```

ARCDW R EXTERNAL 000000 0050  
 ATCH\$\$ R EXTERNAL 000000 0070  
 BREAK\$ R EXTERNAL 000000 0033 0041  
 CLEAR R EXTERNAL 000000 0012 0052  
 COMISS R EXTERNAL 000000 0031  
 DRAW J // 000000 0008S  
 DRW J // 000226 0008S  
 DT I // 000130 0008S  
 EDT I // 000437 0008S  
 EUN J // 000312 0008S  
 EOREF J // 000242 0008S  
 EOREV I // 000436 0008S  
 EOVEH I // 000445 0008S  
 EPTIT J // 000370 0008S  
 ERDY I // 000442 0008S  
 ETII J // 000316 0008S  
 EXIT R EXTERNAL 000000 0072  
 FEOREF J // 000156 0008S  
 FIRST I // 000465 0008S  
 FNEO I // 000155 0008S  
 FREV I // 000154 0008S  
 IC I 000442 0010S 0031A 0034A 0035 0036A 0037 0038A  
 0039 0070A  
 IDENT I EXTERNAL 000000 0032  
 IDFS I 000443 0010S 0042M 0047 0048 0049 0050 0051  
 IDR J // 000452 0008S  
 INFO I // 000462 0008S  
 INITDW I EXTERNAL 000000 0047  
 IPAS I 000002 0010S 0067M 0068M 0069M 0070A  
 K\$ALLO I PARAMETER 0009S 0070  
 K\$CAUC I PARAMETER 0009S  
 K\$CLOS I PARAMETER 0009S 0064 0065 0066  
 K\$CONV I PARAMETER 0009S  
 K\$CURR I PARAMETER 0009S  
 K\$DELE I PARAMETER 0009S  
 K\$DMPB I PARAMETER 0009S  
 K\$DTIM I PARAMETER 0009S  
 K\$ENTR I 000000 0009S

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NSHT	I //	000153	0008S						
PYIT	J //	000062	0008S						
R	I //	000451	0008S						
RESUSS	R EXTERNAL	000000	0071						
REV	I //	000240	0008S						
REVSOW	R EXTERNAL	000000	0049						
SEADW	R EXTERNAL	000000	004R						
SECOND	I //	000466	0008S						
SECT	J //	000145	0008S						
SHTM	I //	000236	0008S						
SARCHSS	R EXTERNAL	000000	0034	0036	0038	0064	0065	0066	
SYS	J //	000133	0008S						
TIT	J //	000010	000FS						
TIT	J //	000467	0008S						
VEH	I //	000141	0008S						

_1000	000330	0035	0037	0039	00620				
_1001	000365	0051	00640						
_1002	000334	0062	00630						
_2	000070	00420	0061						
_3	000152	0040	0053	00540					
_4	000110	0042	00460						

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0000 ERRORS [<.MAIN.>FTN-REV14.2]

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```
(0074) SUBROUTINE IDENT
(0075) C
(0076) C THIS ROUTINE KEEPS TRACK OF WHO ACCESSED THE CALLING
(0077) C PROGRAM LAST
(0078) C
(0079) INTEGER*2 ARRAY(15)
(0080) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0081) NOLIST
(0082) CALL BREAK$(.TRUE.)
(0083) CALL TIMDAT(ARRAY,15)
(0084) C OPEN TEMP FILE (FUNIT 16)
(0085) C
(0086) CALL SRCH$$ (K$NDAM+K$RDWR,'USER',5,16,1,IC)
(0087) C
(0088) C OPEN USER FILE (FUNIT 15)
(0089) C
(0090) CALL SRCH$$ (K$NDAM+K$RDWR,'USER',4,15,1,IC)
(0091) C
(0092) C NOW WRITE USERS LOGIN ID, DATE (MMDDY), TIME, AND USER NUMBER
(0093) C
(0094) AMIN=ARRAY(4)
(0095) AH=AMIN/60.0
(0096) IH=AH
(0097) IMM=IH*60
(0098) IMIN=AMIN
(0099) IDM=IMIN-IMM
(0100) 25 WRITE(20,1)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(0101) 1 (ARRAY(I),I=1,3),ARRAY(12)
(0102) 1 FORMAT(3A2,2(I3,'*'),I3,1X,2(A2,'/*'),A2,I3)
(0103) 2 FORMAT(3A2,2(I3,1X),I3,1X,2(A2,1X),A2,I3)
(0104) C
(0105) C NOW COPY THE CONTENTS OF USER TO TUSER
(0106) C
(0107) READ(19,2,END=50)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(0108) 1 (ARRAY(I),I=1,3),ARRAY(12)
(0109) GO TO 25
(0110) 50 CALL SRCH$$ (K$CLOS,'USER',4,0,0,0)
```

```
(0111) CALL SRCH$$ (KSCLOS, 'USER', 5, 0, 0, 0)
(0112) CALL SRCH$$ (KSDELE, 'USER', 4, 0, 0, 0)
(0113) CALL CNAM$$ ('USER', 5, 'USER', 4, IC)
(0114) CALL BREAK$ (.FALSE.)
(0115) RETURN
(0116) END
```

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## SUBROUTINE IDENT

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AH	R	000347	0095M	0096			
AMIN	R	000351	0094M	0095	0098		
ARRAY	I	000002	0079S	0082A	0094	0100	0107M
BREAK\$	R EXTERNAL	000000	0081	0114			
CNAM\$\$	R EXTERNAL	000000	0113				
I	I	000353	0100M	0107M			
IC	I	000354	0086A	0090A	0113A		
IDENT	I	000000	0074S				
IDM	I	000355	0099M	0100	0107M		
IH	I	000356	0096M	0097	0100	0107M	
IMIN	I	000357	0098M	0099			
IMM	I	000360	0097M	0099			
K\$ALLD	I PARAMETER		0080S				
K\$CACC	I PARAMETER		0080S				
K\$CLOS	I PARAMETER		0080S	0110	0111		
K\$CONV	I PARAMETER		0080S				
K\$CURR	I PARAMETER		0080S				
K\$DELE	I PARAMETER		0080S	0112			
K\$DMPB	I PARAMETER		0080S				
K\$DTIM	I PARAMETER		0080S				
K\$ENTR	I	000000	0080S				
K\$EXST	I PARAMETER		0080S				
K\$GND	I PARAMETER		0080S				
K\$GPOS	I PARAMETER		0080S				
K\$HOME	I PARAMETER		0080S				
K\$ICUR	I PARAMETER		0080S				
K\$IMFD	I PARAMETER		0080S				
K\$IRTN	I PARAMETER		0080S				
K\$ISEG	I PARAMETER		0080S				
K\$IJFD	I PARAMETER		0080S				
K\$MENT	I	000000	0080S				
K\$MSIZ	I PARAMETER		0080S				
K\$MVNT	I PARAMETER		0080S				
K\$NDAM	I PARAMETER		0080S	0086	0090		
K\$NRTN	I PARAMETER		0080S				
K\$NSAM	I PARAMETER		0080S				
K\$NSGD	I PARAMETER		0080S				
K\$NSGS	I PARAMETER		0080S				

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K\$POSA	I	PARAMETER	0080S					
K\$POSN	I	PARAMETER	0080S					
K\$POSR	I	PARAMETER	0080S					
K\$PREA	I	PARAMETER	0080S					
K\$PRER	I	PARAMETER	0080S					
K\$PROT	I	PARAMETER	0080S					
K\$RDWR	I	PARAMETER	0080S	0086	0090			
K\$READ	I	PARAMETER	0080S					
K\$RPOS	I	PARAMETER	0080S					
K\$RSUB	I	PARAMETER	0080S					
K\$RWLK	I	PARAMETER	0080S					
K\$SENT	I	000000	0080S					
K\$SETC	I	PARAMETER	0080S					
K\$SETH	I	PARAMETER	0080S					
K\$SPOS	I	PARAMETER	0080S					
K\$SRIN	I	PARAMETER	0080S					
K\$STRNC	I	PARAMETER	0080S					
K\$UPOS	I	PARAMETER	0080S					
K\$WRIT	I	PARAMETER	0080S					
SPCHSS	R	EXTERNAL 000000	0086	0090	0110	0111	0112	
TINDAT	R	EXTERNAL 000000	0082					
_1		000157	0100	0102D				
_2		000203	0103D	0107				
_25		000077	0100D	0109				
_50		000304	0107	0110D				

0000 ERRORS [ <IDENT >FTN-REV14.2 ]

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(0117) SUBROUTINE IDUSER(IAI)  
(0118) INTEGER\*2 IPASS(4),IA(15)  
(0119) C  
(0120) C THIS ROUTINE CHECKS TO MAKE SURE THAT THE  
(0121) C INCOMING USER IS VALID  
(0122) C  
(0123) CALL BREAKS(.TRUE.)  
(0124) CALL TIMDAT(IA,15)  
(0125) CALL CLEAR  
(0126) 102 IF(IA(13).NE.\*SY\*) GO TO 101  
(0127) IF(IA(14).NE.\*ST\*) GO TO 101  
(0128) IF(IA(15).NE.\*EM\*) GO TO 101  
(0129) GO TO 103  
(0130) 101 CALL COMINP(6HLOUSER,10)  
(0131) CALL EXIT  
(0132) 103 CALL BREAKS(.FALSE.)  
(0133) IAI=IA(13)  
(0134) RETURN  
(0135) END

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BREAK\$	R	EXTERNAL	000000	0123	0132					
CLEAR	R	EXTERNAL	000000	0125						
COMINP	R	EXTERNAL	000000	0130						
EXIT	R	EXTERNAL	000000	0131						
IA	I		000005	0118S	0124A	0126	0127	0128	0133	
IAI	I	ARGUMENT	000003	0117S	0133M					
IDUSER	I		000000	0117S						
PASS	I		000024	0118S						
TIMDAT	R	EXTERNAL	000000	0124						
_101			000057	0126	0127	0128	0130D			
_102			000037	0126D						
_103			000064	0129	0132D					

0000 ERRORS [<IDUSER>FTM-REV14.2]

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(0136) SUBROUTINE TINPUT(TIL,LEN)  
 (0137) C  
 (0138) C TITLE PACK ROUTINE  
 (0139) C  
 (0140) C THIS ROUTINE PACKS THE TITLE(S) IN A UNIFORM MANNER  
 (0141) C FOR LATER STORAGE AND RECALL  
 (0142) C  
 (0143) C  
 (0143) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (0143) C  
 (0143) C COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (0143) 1 DRW,SHTN,REV,NEO,EOREF,  
 (0143) 1 FON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (0143) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (0143) C  
 (0143) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (0143) C  
 (0143) C  
 (0143) C INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (0143) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (0143) 1 IDR(4),KNT,TTIT(19)  
 (0143) C INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (0143) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (0143) 1 FIRST,SECOND  
 (0143) C  
 (0143) C  
 (0144) C COMMON /X/ PEDL  
 (0145) C INTEGER\*4 ARRAY(4),BLNK,TIL(21)  
 (0146) C INTEGER\*2 BUF(76),BUFF(76),PEDL  
 (0147) C CALL RDCOM(BUF)  
 (0148) C DO 5 I=1,76  
 (0149) C BUFF(I)=BUF(I)  
 (0150) 5 CONTINUE  
 (0151) C BLNK=0  
 (0152) C DO 1 I=1,21  
 (0153) 1 TIL(I)=BLNK  
 (0154) C DO 11 I=1,20  
 (0155) C ARRAY(1)=BLNK  
 (0155) C ARRAY(2)=BLNK

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```
(0157)      ARRAY(3)=BLNK
(0158)      ARRAY(4)=BLNK
(0159)      CALL GETWRD(BUF,ARRAY,LEN)
(0160)      TIL(I)=ARRAY(1)
(0161)      TIL(I+1)=ARRAY(2)
(0162)      TIL(I+2)=ARRAY(3)
(0163)      TIL(I+3)=ARRAY(4)
(0164)      I=I+2
(0165)  12   CONTINUE
(0166)  11   CONTINUE
(0167)      PEDL=1
(0168)      DO 200 I=1,19
(0169)  200  PTIT(I)=BLNK
(0170)      CALL GETWD(RUFF,PTIT)
(0171)  211  CONTINUE
(0172)      RETURN
(0173)      END
```

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ARRAY	J	000006	0145S	0155M	0156M	0157M	0158M	0159A	0160
			C161	0162	0163				
BLNK	J	000417	0145S	0151M	0153	0155	0156	0157	0158
			0169						
BUF	I	000016	0146S	0147A	0149	0159A			
BUFF	I	000132	0146S	0149M	0170A				
DRAW	J //	000000	0143S						
DRW	J //	000226	0143S						
CT	I //	000130	0143S						
EDT	I //	000437	0143S						
FON	J //	000312	0143S						
LOREF	J //	000242	0143S						
ECREV	I //	000436	0143S						
EQVEH	I //	000445	0143S						
EPTIT	J //	000370	0143S						
ERCT	I //	000442	0143S						
ETIT	J //	000316	0143S						
FEOREF	J //	000156	0143S						
FIRST	I //	000465	0143S						
FNEO	I //	000155	0143S						
FREV	I //	000154	0143S						
GETWD	R EXTERNAL	000000	C170						
GETWRD	R EXTERNAL	000000	C159						
I	I	000421	0148M	0149	0152M	0153	0154M	0160	0161
			0162	0163	0164M	0168M	0169		
IDR	J //	000452	0143S						
INEO	I //	000462	0143S						
KNT	J //	000463	0143S						
LEN	I ARGUMENT	000004	0136S	0159A					
NEC	I //	000241	0143S						
NSHT	I //	000153	0143S						
PECL	I /X/	000000	0144S	0146S	0167M				
PTIT	J //	000062	0143S	0169M	0170A				
R	I //	000451	0143S						
RDCOM	R EXTERNAL	000000	0147						
REV	I //	000240	0143S						
SECOND	I //	000466	0143S						
SECT	J //	000145	0143S						

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SHTN	I //	000236	0143S						
SYS	J //	000133	0143S						
TIL	J ARGUMENT	000003	0136S	0145S	0153M	0160M	0161M	0162M	0163M
TINPUT	R	000000	0136S						
TIT	J //	000010	0143S						
TTIT	J //	000467	0143S						
VEH	I //	000141	0143S						
_1		000275	0152	0153D					
_11		000357	0154	0166D					
_12		000357	0165D						
_200		000372	0168	0169D					
_211		000415	0171D						
_5		000256	0148	0150D					

0000 ERRORS [<TINPUT>FTN-REV14.2]

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```
(0174) C READ ONE LINE FROM CONSOLE OR COMMAND FILE
(0175) C
(0176) C
(0177) SUBROUTINE RDCOM(BUF)
(0178) C
(0179) COMMON /X/ PEDL
(0180) C
(0181) INTEGER BUF(1),PEDL,CHAR,ANL,AKILL,AERASE
(0182) C
(0183) C ANL, AKILL, AERASE ARE OCTAL 212, 277, 242
(0184) DATA ANL,AKILL,AERASE/138,191,136/
(0185) C
(0186) PEDL=1
(0187) 90 N=1
(0188) 100 CALL C1IN(CHAR)
(0189) BUF(N)=CHAR
(0190) IF(CHAR.EQ.ANL) RETURN
(0191) IF(CHAR.EQ.AKILL) GOTO 90
(0192) IF(CHAR.EQ.AERASE) GOTO 200
(0193) N=N+1
(0194) IF(N.GT.77) GOTO 999
(0195) GOTO 100
(0196) C
(0197) 200 IF(N.LE.2) GOTO 90
(0198) N=N-1
(0199) GOTO 100
(0200) C
(0201) 999 ILF=:212
(0202) CALL T10U(ILF)
(0203) RETURN
(0204) END
```



AERASE	I	000007	0181S	0184I	0192				
AKILL	I	000006	0181S	0184I	0191				
ANL	I	000005	0181S	0184I	0190				
BUF	I ARGUMENT	000003	0177S	0181S	0189M				
C11N	R EXTERNAL	000000	0188						
CHAR	I	000071	0181S	0188A	0189	0190	0191	0192	
ILF	I	000072	0201M	0202A					
N	I	000073	0187M	0189	0193M	0194	0197	0198M	
PEOL	I /X/	000000	0179S	0181S	0186M				
RDCOM	R	000000	0177S						
T10U	R EXTERNAL	000000	0202						
_100		000016	0188D	0195	0199				
_200		000051	0192	0197D					
_90		000013	0187D	0191	0197				
_999		000062	0184	0201D					

0000 ERRORS [&lt;RDCOM &gt;FTN-REV14.2]

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```
(0205) C      FETCH ONE *WORD* FROM BUFFER FILLED BY RDCOM
(0206) C
(0207) C
(0208)      SUBROUTINE GETWRD(BUF,NAME,LEN)
(0209) C
(0210)      COMMON /X/ PEDL
(0211) C
(0212)      INTEGER BUF(1),PEDL,NAME(1),CHAR,
(0213) +      ANL,ACOMMA,ASCOL,ASP,ASPSP
(0214) C
(0215)      ANL,ACOMMA,ASCOL,ASP,ASPSP
(0216) C      ARE DCTAL
(0217) C      212,254,273,240,120240
(0218) C
(0219)      DATA ANL,ACOMMA,ASCOL/13R,172,187/,
(0220) +      ASP,ASPSP/160,2H /
(0221) C
(0222)      DO 100 I=1,3
(0223) 100      NAME(I)=ASPSP
(0224) C
(0225)      N=1
(0226)      IF(BUF(1).NE.ASP) GO TO 200
(0227)      DO 999 I=2,77
(0228)      II=I-1
(0229)      BUF(II)=BUF(I)
(0230) 999      CONTINUE
(0231) 200      CHAR=BUF(PEDL)
(0232)      PEDL=PEDL+1
(0233)      IF(PEDL.GT.77) RETURN
(0234)      IF(CHAR.EQ.ANL) GOTO 400
(0235)      IF(CHAR.EQ.ASP.OR.CHAR.EQ.ACOMMA.OR.CHAR.EQ.ASCOL) GOTO 300
(0236)      IF(N.GT.LEN) GOTO 200
(0237)      I=(N+1)/2
(0238)      J=N-2*(N/2)
(0239)      N=N+1
(0240)      IF(J.EQ.1) GOTO 250
(0241)      NAME(I)=LT(NAME(I),8) + CHAR
(0242)      GOTO 200
```

```
(0243) 250    NAME(I)= RT(NAME(I),8) + LS(CHAR,8)
(0244)            GOTO 200
(0245)    C
(0246) 300    CHAR=BUF(PEDL)
(0247)            IF(CHAR.EQ.ANL)    GOTO 400
(0248)            IF(CHAR.NE.ASP.AND.CHAR.NE.ACOMMA.AND.CHAR.NE.ASCOL) RETURN
(0249)            PEDL=PEDL+1
(0250)            GOTO 300
(0251)    C
(0252) 400    PEDL=77
(0253)            RETURN
(0254)    C
(0255)            END
```

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ACOMMA	I	000010	0212S	0219I	0235	0248			
ANL	I	000007	0212S	0219I	0234	0247			
ASCOL	I	000011	0212S	0219I	0235	0248			
ASP	I	000012	0212S	0219I	0226	0235	0248		
ASPS	I	000013	0212S	0219I	0223				
BUF	I	ARGUMENT	000003	0208S	0212S	0226	0229M	0231	0246
CHAR	I	000243	0212S	0231M	0234	0235	0241	0243	0246M
			0247	0248					
GETWRD	R	000000	0208S						
I	I	000244	0222M	0223	0227M	0228	0229	0237M	0241
			0243						
II	I	000246	0228M	0229					
J	I	000247	0238M	0240					
LEN	I	ARGUMENT	000005	0208S	0236				
LS	I	EXTERNAL	000000	0243					
LT	I	EXTERNAL	000000	0241					
N	I	000252	0225M	0236	0237	0238	0239M		
NAME	I	ARGUMENT	000004	0208S	0212S	0223M	0241M	0243M	
PEDL	I	/X/	000000	0210S	0212S	0231	0232M	0233	0246 0249M
			0252M						
RT	R	EXTERNAL	000000	0243					
_100		000017	0222	0223D					
_200		000070	0226	0231D	0236	0242	0244		
_250		000174	0240	0243D					
_300		000207	0235	0246D	0250				
_400		000240	0234	0247	0252D				
_999		000061	0227	0230D					

0000 ERRORS [<GETWRD>FTN-REV14.2]

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```
(0256) SUBROUTINE GETWD(BUFF,NAME)
(0257) C
(0258) COMMON /X/ PEDL
(0259) C
(0260) INTEGER BUFF(1),PEDL,NAME(1),CHAR,
(0261) + ANL,ACOMMA,ASCOL,ASP,ASPSP
(0262) C
(0263) ANL,ACOMMA,ASCOL,ASP,ASPSP
(0264) C ARE OCTAL
(0265) C 212,254,273,240,120240
(0266) C
(0267) DATA ANL,ACOMMA,ASCOL/138,172,187/,
(0268) + ASP,ASPSP/160,2H /
(0269) C
(0270) DO 100 I=1,19
(0271) 100 NAME(I)=ASPSP
(0272) C
(0273) N=1
(0274) IF(BUFF(1).NE.ASP) GO TO 200
(0275) DO 999 I=2,77
(0276) II=I-1
(0277) BUFF(II)=BUFF(I)
(0278) 999 CONTINUE
(0279) 200 CHAR=BUFF(PEDL)
(0280) PEDL=PEDL+1
(0281) IF(PEDL.GT.77) RETURN
(0282) IF(CHAR.EQ.ANL) GOTO 400
(0283) I=(N+1)/2
(0284) J=N-2*(N/2)
(0285) N=N+1
(0286) IF(J.EQ.1) GOTO 250
(0287) NAME(I)=LT(NAME(I),8) + CHAR
(0288) GOTO 200
(0289) 250 NAME(I)= RT(NAME(I),8) + LS(CHAR,8)
(0290) GOTO 200
(0291) C
(0292) C
(0293) 400 PEDL=77
```

SUBROUTINE GETWD(BUFF,NAME)

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(0294) RETURN  
(0295) END

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(0296) SUBROUTINE ARCDW  
 (0297) C  
 (0297) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (0297) C  
 (0297) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (0297) 1 DRW,SHTN,REV,NEO,EOREF,  
 (0297) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (0297) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (0297) C  
 (0297) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (0297) C  
 (0297) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (0297) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (0297) 1 IDR(4),KNT,TTIT(19)  
 (0297) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (0297) 1 FOREV,EDT(3),ERDT(3),ECVFH(2,2),R,INEO,  
 (0297) 1 FIRST,SECOND  
 (0297) C  
 (0297) C  
 (0298) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0298) NOLIST  
 (0299) INTEGER\*2 IOPT  
 (0300) C  
 (0301) C  
 (0302) C ARCHIVE ROUTINE FOR THE DRAW FILE  
 (0303) C  
 (0304) C VALIDATE THE INCOMMING USER  
 (0305) C  
 (0306) CALL IDUSER(IAI)  
 (0307) IF(IAI.EQ.\*SY\*) GO TO 5  
 (0308) WRITE(1,500)  
 (0309) 500 FORMAT(\*GGSORRY YOU ARE NOT VALIDATED TO USE THIS\*,  
 (0310) 11X\*ROUTINE\*,/,\*IF IT IS NEEDED CONTACT YOUR SYSTEMS\*,  
 (0311) 11X\* PROGRAMMER AT EXT 2621\*//////)  
 (0312) RETURN  
 (0313) 5 WRITE(1,6)  
 (0314) 6 FORMAT(\* DO YOU WISH TO ARCHIVE DRAWINGS OR E.O.\*\*S (DR OR EO)\*\*)  
 (0315) READ(1,7)IOPT

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```
(0316) 7      FORMAT(1A2)
(0317)      IF(IOPT.EQ.'EO') GOTO 300
(0318)      IF(IOPT.NE.'DR') GOTO 5
(0319) 10     WRITE(1,1)
(0320) 1      FORMAT(* WELCOME TO THE DRAWING FILE ARCHIVE ROUTINE*,/
(0321) 1* HOW MANY DRAWINGS DO YOU WISH TO ARCHIVE*,/)
(0322)      READ(1,2,ERR=10)IKNT
(0323) 2      FORMAT(I5)
(0324)      IF(IKNT.EQ.0) RETURN
(0325)      CALL SRCH$$ (K$RDWR+K$NDAM,'INACTD',6,5,1,IC)
(0326)      CALL SRCH$$ (K$RDWR+K$NDAM,'INACTS',6,7,1,IC)
(0327)      CALL SRCH$$ (K$RDWR+K$NDAM,'TEMP ',6,6,1,IC)
(0328)      CALL SRCH$$ (K$RDWR+K$NDAM,'STEMP ',6,10,1,IC)
(0329)  C
(0330)  C      PLACE THE ARCHIVE FILE AT THE EOF MARKER
(0331) 50     READ(9,END=60)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0332)      GO TO 50
(0333) 60     READ(11,END=75)DRW,SHTN,REV,NEO,EOREF
(0334)      GO TO 60
(0335) 75     DO 9999 ILOOP=1,IKNT
(0336) 82     WRITE(1,80)
(0337) 80     FORMAT(* WHAT IS THE DRAWING NUMBER OF THE DRAWING *,
(0338) 1* YOU WISH TO ARCHIVE*,/)
(0339)      READ(1,81,ERR=82)IDR
(0340) 81     FORMAT(3A4,A2)
(0341) 100    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0342)      DO 150 I=1,4
(0343)      IF(IDR(I).NE.DRAW(I)) GO TO 125
(0344) 150    CONTINUE
(0345)      WRITE(9)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0346) 152    READ(12,END=165)DRW,SHTN,REV,NEO,EOREF
(0347)      DO 155 K=1,4
(0348)      IF(IDR(K).NE.DRW(K)) GOTO 160
(0349) 155    CONTINUE
(0350)      WRITE(11)DRW,SHTN,REV,NEO,EOREF
(0351)      GO TO 152
(0352) 160    WRITE(14)DRW,SHTN,REV,NEO,EOREF
(0353)      GO TO 152
```

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```
(0354) 165  CALL SRCH$(K$CLOS,*SHEET *,6,0,0,0)
(0355)      CALL SRCH$(K$CLOS,*STEMP *,6,0,0,0)
(0356)      CALL SRCH$(K$DELE,*SHEET *,6,0,0,0)
(0357)      CALL CNAM$(*STEMP *,6,*SHEET *,6,IC)
(0358)      CALL SRCH$(K$RDWR+K$NDAM,*SHEET *,6,8,1,IC)
(0359)      CALL SRCH$(K$RDWR+K$NDAM,*STEMP *,6,10,1,IC)
(0360)      GO TO 100
(0361) 125  WRITE(10)DRAW,TIT,PTIT,DT,SYS,VFH,SECT,NSHT,FREV,FNEO,FEOREF
(0362)      GO TO 100
(0363) 200  CALL SRCH$(K$CLOS,*DRAW *,6,0,0,0)
(0364)      CALL SRCH$(K$DELE,*DRAW *,6,0,0,0)
(0365)      CALL SRCH$(K$CLOS,*TEMP *,6,0,0,0)
(0366)      CALL CNAM$(*TEMP *,6,*DRAW *,6,IC)
(0367)      CALL SRCH$(K$RDWR+K$NDAM,*DRAW *,6,2,1,IC)
(0368)      CALL SRCH$(K$RDWR+K$NDAM,*TEMP *,6,6,1,IC)
(0369) 9999 CONTINUE
(0370)      ENDFILE 9
(0371)      ENDFILE 11
(0372)      CALL SRCH$(K$CLOS,*INACTD*,6,0,0,0)
(0373)      CALL SRCH$(K$CLOS,*INACTS*,6,0,0,0)
(0374)      CALL SRCH$(K$CLOS,*TEMP *,6,0,0,0)
(0375)      CALL SRCH$(K$CLOS,*STEMP *,6,0,0,0)
(0376)      CALL SRCH$(K$DELE,*TEMP *,6,0,0,0)
(0377)      CALL SRCH$(K$DELE,*STEMP *,6,0,0,0)
(0378)      RETURN
(0379) 300  CALL SRCH$(K$RDWR+K$NDAM,*INACTE*,6,13,1,IC)
(0380)      CALL SRCH$(K$RDWR+K$NDAM,*ETEMP *,6,9,1,IC)
(0381) 302  READ(17,END=305)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0382)      GO TO 302
(0383) 305  WRITE(1,310)
(0384) 310  FORMAT(* PLEASE STAND BY.  SYSTEM IS NOW ARCHIVING UNREFERENCED E.
(0385)      10.'S')
(0386) 320  READ(18,END=400)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0387) 330  READ(12,END=335)DRW,SHIN,REV,NEO,EOREF
(0388)      IF(NEO.EQ.0) GOTO 330
(0389)      DO 323 I=1,10
(0390)          DO 327 J=1,2
(0391)              IF(EOREF(I,J).NE.EON(J)) GOTO 323
```

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```
(0392) 327 CONTINUE
(0393) GO TO 325
(0394) 323 CONTINUE
(0395) GO TO 330
(0396) 325 WRITE(13)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0397) REWIND 12
(0398) GO TO 320
(0399) 335 REWIND 12
(0400) 340 READ(6,END=350)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0401) IF(FNEO.EQ.0) GO TO 340
(0402) DO 343 I=1,10
(0403) DO 337 J=1,2
(0404) IF(FEOREF(I,J).NE.EON(J)) GOTO 343
(0405) 337 CONTINUE
(0406) GO TO 345
(0407) 343 CONTINUE
(0408) GO TO 340
(0409) 345 WRITE(13)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0410) REWIND 6
(0411) GO TO 320
(0412) 350 WRITE(17)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0413) REWIND 6
(0414) REWIND 12
(0415) WRITE(1,360)EON
(0416) 360 FORMAT(' E.O. ',2A4,' HAS BEEN ARCHIVED. ')
(0417) GO TO 320
(0418) 400 CALL SRCH$$ (K$CLOS,'EO ',6,0,0,0)
(0419) CALL SRCH$$ (K$CLOS,'ETEMP ',6,0,0,0)
(0420) CALL SRCH$$ (K$CLOS,'INACTE ',6,0,0,0)
(0421) CALL SRCH$$ (K$DELE,'EO ',6,0,0,0)
(0422) CALL CNAM$$ ('ETEMP ',6,'EO ',6,IC)
(0423) CALL SRCH$$ (K$RDWR+K$NDAM,'EO ',6,14,1,IC)
(0424) RETURN
(0425) END
```

ARCDW	R	000000	0296S							
CNAMSS	R EXTERNAL	000000	0357	0366	0422					
URAW	J //	000000	0297S	0331M	0341M	0343	0345	0361	0400M	
DRW	J //	000226	0297S	0333M	0346M	0348	0350	0352	0387M	
UT	I //	000130	0297S	0331M	0341M	0345	0361	0400M		
EDT	I //	000437	0297S	0381M	0386M	0396	0409	0412		
EON	J //	000312	0297S	0381M	0386M	0391	0396	0404	0409	
			0412	0415						
EOREF	J //	000242	0257S	0333M	0346M	0350	0352	0387M	0391	
ECREV	I //	000436	0297S	0381M	0386M	0396	0409	0412		
ECVEH	I //	000445	0297S	0381M	0386M	0396	0409	0412		
EPTIT	J //	000370	0297S	0381M	0386M	0396	0409	0412		
ERDT	I //	000442	0297S	0381M	0386M	0396	0409	0412		
ETIT	J //	000316	0297S	0381M	0386M	0396	0409	0412		
FEOREF	J //	000156	0297S	0331M	0341M	0345	0361	0400M	0404	
FIRST	I //	000465	0297S							
FNEO	I //	000155	0297S	0331M	0341M	0345	0361	0400M	0401	
FREV	I //	000154	0297S	0331M	0341M	0345	0361	0400M		
I	I	002207	0342M	0343	0389M	0391	0402M	0404		
IAI	I	002211	030EA	0307						
IC	I	002212	0325A	0326A	0327A	0328A	0357A	0358A	0359A	
			0366A	0367A	0368A	0379A	0380A	0422A	0423A	
YDR	J //	000452	0257S	0339M	0343	0348				
IDUSER	I EXTERNAL	000000	0306							
IKNT	I	002213	0322M	0324	0335					
ILoop	I	002214	0335M							
INEO	I //	000462	0297S							
IOPT	I	002215	0299S	0315M	0317	0318				
J	I	002216	0390M	0391	0403M	0404				
K	I	002217	0347M	0348						
K\$ALLO	I PARAMETER		0298S							
K\$CACC	I PARAMETER		0298S							
K\$CLOS	I PARAMETER		0298S	0354	0355	0363	0365	0372	0373	
			0374	0375	0418	0419	0420			
K\$CONV	I PARAMETER		0298S							
K\$CURR	I PARAMETER		0298S							
K\$DELE	I PARAMETER		0298S	0356	0364	0376	0377	0421		
K\$DMPB	I PARAMETER		0298S							

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K\$UPOS	I	PARAMETER	0298S							
K\$WRIT	I	PARAMETER	0298S							
KNT	J	//	000463	0297S						
NEO	I	//	000241	0297S	0333M	0346M	0350	0352	0387M	0388
NSHT	I	//	000153	0297S	0331M	0341M	0345	0361	0400M	
PTIT	J	//	000062	0297S	0331M	0341M	0345	0361	0400M	
R	I	//	000451	0297S						
REV	I	//	000240	0297S	0333M	0346M	0350	0352	0387M	
SECOND	I	//	000466	0297S						
SECT	J	//	000145	0297S	0331M	0341M	0345	0361	0400M	
SHTN	I	//	000236	0297S	0333M	0346M	0350	0352	0387M	
SRCH\$\$	R	EXTERNAL	000000	0325	0326	0327	0328	0354	0355	0356
				0358	0359	0363	0364	0365	0367	0368
				0372	0373	0374	0375	0376	0377	0379
				0380	0418	0419	0420	0421	0423	
SYS	J	//	000133	0297S	0331M	0341M	0345	0361	0400M	
TIT	J	//	000010	0297S	0331M	0341M	0345	0361	0400M	
TTIT	J	//	000467	0297S						
VEH	I	//	000141	0297S	0331M	0341M	0345	0361	0400M	
1			000215	0319	0320D					
10			000211	0319D	0322					
100			000547	0341D	0360	0362				
125			001117	0343	0361D					
150			000641	0342	0344D					
152			000714	0346D	0351	0353				
155			000762	0347	0349D					
160			001013	0348	0352D					
165			001037	0346	0354D					
2			000307	0322	0323D					
200			001165	0341	0363D					
300			001343	0317	0379D					
302			001363	0381D	0382					
305			001417	0381	0383D					
310			001424	0383	0384D					
320			001467	0386D	0398	0411	0417			
323			001616	0389	0391	0394D				
325			001624	0393	0396D					

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_327	001607	0390	0392D	
_330	001522	0387D	0388	0395
_335	001660	0387	0399D	
_337	001764	0403	0405D	
_340	001662	0400D	0401	0408
_343	001772	0402	0404	0407D
_345	002000	040E	0409D	
_350	002033	0400	0412D	
_360	002100	0415	0416D	
_400	002124	038E	0418D	
_5	000122	0307	0313D	0318
_50	000356	0331D	0332	
_500	000016	0308	0309D	
_6	000126	0313	0314D	
_60	000426	0331	0333D	0334
_7	000173	0315	0316D	
_75	000454	0333	0335D	
_80	000464	0336	0337D	
_81	000542	0339	0340D	
_82	000457	0336D	0339	
_9999	001244	0335	0369D	

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0000 ERRORS [ <ARCDW >FTN-REV14.2 ]

(0426) SUBROUTINE SEADW  
 (0427) C  
 (0427) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (0427) C  
 (0427) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (0427) 1 DRW,SHTN,REV,NEO,EOREF,  
 (0427) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (0427) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (0427) C  
 (0427) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (0427) C  
 (0427) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (0427) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (0427) 1 IDR(4),KNT,TTIT(19)  
 (0427) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (0427) 1 EGREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (0427) 1 FIRST,SECOND  
 (0427) C  
 (0427) C  
 (0428) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0428) NOLIST  
 (0429) INTEGER\*2 IDES,IOP1  
 (0430) C  
 (0431) C THIS IS THE SEARCH DRIVER ROUTINE FOR THE DRAW FILE  
 (0432) C  
 (0433) J=:401  
 (0434) R=0  
 (0435) CALL SRCH\$(K\$RDWR+K\$NSAM,'OUT',6,3,0,0)  
 (0436) WRITE(7,9999)J  
 (0437) 9999 FORMAT(1A2)  
 (0438) WRITE(1,1)  
 (0439) 1 FORMAT(' YOU ARE NOW VALIDATED TO SEARCH DATA IN THE ',/  
 (0440) 1' DRAWING FILE - THE FOLLOWING SEARCH MODES ',/  
 (0441) 1' ARE AVAILABLE FOR YOUR USE - ',/  
 (0442) 1'MODE KEY',/  
 (0443) 2'TITLE TITLE',/  
 (0444) 3'DRAWING NUMBER DRAW',/  
 (0445) 4'DRAWING DATE DATE',/

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```
(0446)      5*SYSTEM                SYS*,/
(0447)      1*VEHICLE                VEH*,/
(0448)      1*SECTION                SECT*,/
(0449)      1*VENDOR CODE            CODE*,/
(0450)      1*ALL                    ALL*,/
(0451)      1*REV ACTION DUE         ACT*,/
(0452)      1*E.O. NUMBER            EO*,/
(0453)      1*QUIT                  QUIT*,/
(0454)      1* PLEASE SELECT THE DESIRED MODE*,//)
(0455)      REWIND 6
(0456)      6  READ(1,3)IDES
(0457)      3  FORMAT(1A2)
(0458)      IF(IDES.EQ.*QU*) GOTO 10
(0459)      100 WRITE(1,110)
(0460)      110 FORMAT(1X,*DO YOU DESIRE THE OPTIONAL BRIEF OUTPUT*,/,
(0461)      1* RECOMMENDED FOR ALL AND ACTION DUE SEARCHES*,/,
(0462)      1* (YES OR NO)*//)
(0463)      READ(1,3)IOPT
(0464)      IF(IOPT.EQ.*NO*) GOTO 111
(0465)      IF(IOPT.NE.*YE*) GOTO 100
(0466)      R=1
(0467)      111 IF(IDES.EQ.*TI*) CALL TITDW
(0468)      IF(IDES.EQ.*AL*) CALL ALDW
(0469)      IF(IDES.EQ.*AC*) CALL ACTDUE
(0470)      IF(IDES.EQ.*DR*) CALL DRAWN
(0471)      IF(IDES.EQ.*DA*) CALL DATDW
(0472)      IF(IDES.EQ.*SY*) CALL SYSDW
(0473)      IF(IDES.EQ.*VE*) CALL VEHND
(0474)      IF(IDES.EQ.*SE*) CALL SECTN
(0475)      IF(IDES.EQ.*CO*) CALL CODE
(0476)      IF(IDES.EQ.*EO*) CALL EONN
(0477)      99  WRITE(1,98)
(0478)      98  FORMAT(* TO CONTINUE, DEPRESS THE RETURN KEY*//)
(0479)      READ(1,9999)IDES
(0480)      IF(IDES.NE.* *) GOTO 99
(0481)      CALL CLEAR
(0482)      WRITE(1,1)
(0483)      REWIND 6
```

(0484) REWIND 12  
(0495) REWIND 18  
(0486) GO TO 6  
(0487) 10 WRITE(1,11)  
(0488) 11 FORMAT(' DO YOU WANT A HARD COPY OF THE INFORMATION FOUND',/,  
(0489) 1\* (YES OR NO)\*)  
(0490) READ(1,3) IDES  
(0491) IF(IDES.EQ.'YE') GO TO 20  
(0492) IF(IDES.EQ.'NO') GO TO 15  
(0493) GO TO 10  
(0494) 15 CALL SRCH\$\$ (K\$CLOS,'OUT' ,6,0,0,0)  
(0495) CALL SRCH\$\$ (K\$DELE,'OUT' ,6,0,0,0)  
(0496) RETURN  
(0497) 20 CALL SRCH\$\$ (K\$CLOS,'OUT' ,6,0,0,0)  
(0498) CALL SRCH\$\$ (K\$CLOS,'DRAW' ,6,0,0,0)  
(0499) CALL SRCH\$\$ (K\$CLOS,'EO' ,6,0,0,0)  
(0500) CALL SRCH\$\$ (K\$CLOS,'SHEET' ,6,0,0,0)  
(0501) CALL COMISS ('SOUT',4,12,IC)  
(0502) CALL EXIT  
(0503) END

ACTDUE R EXTERNAL 000000 0469  
 ALDW R EXTERNAL 000000 0468  
 CLEAR R EXTERNAL 000000 0481  
 CODE R EXTERNAL 000000 0475  
 COMISS R EXTERNAL 000000 0501  
 DATDW R EXTERNAL 000000 0471  
 DRAW J // 000000 0427S  
 DRAWN R EXTERNAL 000000 0470  
 DRW J // 000226 0427S  
 DT I // 000130 0427S  
 EDT I // 000437 0427S  
 EQN J // 000312 0427S  
 ECNN R EXTERNAL 000000 0476  
 EOREF J // 000242 0427S  
 EOREV I // 000436 0427S  
 EOVEH I // 000445 0427S  
 EPTIT J // 000370 0427S  
 ERDT I // 000442 0427S  
 ETIT J // 000316 0427S  
 EXIT R EXTERNAL 000000 0502  
 FEOREF J // 000156 0427S  
 FIRST I // 000465 0427S  
 FNEO I // 000155 0427S  
 PREV I // 000154 0427S  
 IC I 001147 0501A  
 IDES I 001150 0429S 0456M 0458 0467 0468 0469 0470  
 0471 0472 0473 0474 0475 0476 0479M  
 0480 0490M 0491 0492  
 IDR J // 000452 0427S  
 INEO I // 000462 0427S  
 IOPT I 001151 0429S 0463M 0464 0465  
 J I 001152 0433M 0436  
 K\$ALLO I PARAMETER 0428S  
 K\$CACC I PARAMETER 0428S  
 K\$CLOS I PARAMETER 0428S 0494 0497 0498 0499 0500  
 K\$CONV I PARAMETER 0428S  
 K\$CURR I PARAMETER 0428S  
 K\$DELE I PARAMETER 0428S 0495

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K\$MPB I	PARAMETER	0428S	
K\$OTIM I	PARAMETER	0428S	
K\$ENTR I	000000	0428S	
K\$EXST I	PARAMETER	0428S	
K\$GCND I	PARAMETER	0428S	
K\$GPOS I	PARAMETER	0428S	
K\$HOME I	PARAMETER	0428S	
K\$ICUR I	PARAMETER	0428S	
K\$IMFD I	PARAMETER	0428S	
K\$IRTN I	PARAMETER	0428S	
K\$ISEG I	PARAMETER	0428S	
K\$IUFD I	PARAMETER	0428S	
K\$MENT I	000000	0428S	
K\$MSIZ I	PARAMETER	0428S	
K\$MVT I	PARAMETER	0428S	
K\$NDAM I	PARAMETER	0428S	
K\$NRIN I	PARAMETER	0428S	
K\$NSAM I	PARAMETER	0428S	0435
K\$NSGD I	PARAMETER	0428S	
K\$NSGS I	PARAMETER	0428S	
K\$POSA I	PARAMETER	0428S	
K\$POSN I	PARAMETER	0428S	
K\$POSR I	PARAMETER	0428S	
K\$PREA I	PARAMETER	0428S	
K\$PRER I	PARAMETER	0428S	
K\$PROT I	PARAMETER	0428S	
K\$RDWR I	PARAMETER	0428S	0435
K\$READ I	PARAMETER	0428S	
K\$RPOS I	PARAMETER	0428S	
K\$RSUB I	PARAMETER	0428S	
K\$RWLK I	PARAMETER	0428S	
K\$SENT I	000000	0428S	
K\$SETC I	PARAMETER	0428S	
K\$SETH I	PARAMETER	0428S	
K\$SPOS I	PARAMETER	0428S	
K\$SRTN I	PARAMETER	0428S	
K\$TRNC I	PARAMETER	0428S	
K\$UPOS I	PARAMETER	0428S	

KSWRIT	I	PARAMETER	0428S						
KNT	J	//	000463	0427S					
NEO	I	//	000241	0427S					
NSHT	I	//	000153	0427S					
PTIT	J	//	000062	0427S					
R	I	//	000451	0427S	0434M	0466M			
REV	I	//	000240	0427S					
SEADW	R		000000	0426S					
SECOND	I	//	000466	0427S					
SECT	J	//	000145	0427S					
SECTN	R	EXTERNAL	000000	0474					
SHTN	I	//	000236	0427S					
SRCHSS	R	EXTERNAL	000000	0435	0494	0495	0497	0498	0499 0500
SYS	J	//	000133	0427S					
SYSW	R	EXTERNAL	000000	0472					
TIT	J	//	000010	0427S					
TITDW	R	EXTERNAL	000000	0467					
TTIT	J	//	000467	0427S					
VEH	I	//	000141	0427S					
VEHND	R	EXTERNAL	000000	0473					

_1	000041	0438	0439D	0482	
_10	000766	0458	0487D	0493	
_100	000475	0459D	0465		
_11	000772	0487	0488D		
_110	000501	0459	0460D		
_111	000620	0464	0467D		
_15	001056	0492	0494D		
_20	001100	0491	0497D		
_3	000463	0456	0457D	0463	0490
_6	000453	0456D	0486		
_98	000706	0477	0478D		
_99	000702	0477D	0480		
_9999	000030	0436	0437D	0479	

0000 ERRORS [ <SEADW >FTN-REV14.2 ]

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```
(0504) SUBROUTINE EONN
(0505) C
(0505) C COMMON BLOCK FOR THE DRAW-EO FILE
(0505) C
(0505) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,
(0505) 1 DRW,SHTN,REV,NEO,EOREF,
(0505) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,
(0505) 1 R,IDR,INEO,KNT,FIRST,SECONO,TTIT
(0505) C
(0505) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE
(0505) C
(0505) INTEGER*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),
(0505) 1 DRW(4),EOREF(10,2),EPTIT(19),FTIT(21),EON(2),
(0505) 1 IDR(4),KNT,TTIT(19)
(0505) INTEGER*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,
(0505) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,
(0505) 1 FIRST,SECOND
(0505) C
(0505) C
(0506) INTEGER*4 IEON(2),KNTT
(0507) INTEGER*2 ARRAY(15),IOPT
(0508) C
(0509) C THIS ROUTINE LOCATES A SPECIFIED E.O. NUMBER IN THE E.O. SUBFILE
(0510) C
(0511) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(0512) IPAGE=0
(0513) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT
(0514) ILINE=0
(0515) C INITIALIZE THE FOUND COUNTERS
(0516) KNT=0
(0517) KNTT=0
(0518) CALL CLEAR
(0519) 1 WRITE(1,2)
(0520) 2 FORMAT(' WHAT IS THE DESIRED E.O. NUMBER?')
(0521) READ(1,3,ERR=1)IEON
(0522) 3 FORMAT(2A4)
(0523) 99 WRITE(1,105)
(0524) 105 FORMAT(1X,'DO YOU DESIRE THE E.O. FILE SEARCH (EO)?,/,3X,
```

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```
(0525)      1*OR ALL DRAWINGS USING THIS E.O.   (DR)*//
(0526)      READ(1,110,ERR=99)IOPT
(0527)  110  FORMAT(1A2)
(0528)      IF(IOPT.EQ.*E0*) GOTO 260
(0529)      IF(IOPT.NE.*DR*) GOTO 99
(0530)  C    INITIALIZE FIRST SHEET FLAG
(0531)      FIRST=0
(0532)  C    INITIALIZE SECOND OR MORE SHEET FLAG
(0533)      SECOND=0
(0534)  C    INITIALIZE THE DRAW DATA PRINTED FLAG
(0535)      INEO=0
(0536)  15  READ(6,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0537)      DO 2000 I=1,6
(0538)      IF(IEON(1).NE.FEOREF(I,1)) GOTO 2000
(0539)      IF(IEON(2).EQ.FEOREF(I,2)) GOTO 2050
(0540)  2000 CONTINUE
(0541)      GO TO 18
(0542)  C    INCREMENT THE FOUND COUNTERS
(0543)  2050 KNT=KNT+1
(0544)      KNTT=KNTT+1
(0545)  C    INCREMENT LINE COUNTER FOR NEXT RECORD
(0546)      ILINE=ILINE+FNEO+4
(0547)  C    CHECK FOR BOTTOM OF PAGE
(0548)      IF(ILINE.LE.45) GOTO 31
(0549)  C    SET TO TOP OF PRINTER PAGE FLAG
(0550)      IPAGE=0
(0551)  C    SET LINE COUNTER BACK TO 0
(0552)      ILINE=0
(0553)  C    IS A HEADER REQUIRED NOW
(0554)  31  IF(IPAGE.NE.0) GOTO 17
(0555)  C    INCREMENT LINE COUNTER FOR HEADER
(0556)      ILINE=ILINE+12
(0557)  C    PRINT HEADER ON PRINTER OUTPUT
(0558)  C    FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0559)      CALL TINDAT(ARRAY,15)
(0560)      AMIN=ARRAY(4)
(0561)      AH=AMIN/60.0
(0562)      IH=AH
```

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```
(0563) IMM=IH*60
(0564) IMIN=AMIN
(0565) IDM=IMIN-IMM
(0566) WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
(0567) 8008 FORMAT('1',100X,I3,' ':',I3,4X,2(A2,'/'),A2)
(0568) WRITE(7,8000)
(0569) 8000 FORMAT(3X,120('**'))
(0570) WRITE(7,8001)IEON
(0571) 8001 FORMAT(40X,'DRAWING - E.O. NUMBER SEARCH ',2A4)
(0572) CALL HEADER
(0573) C SET HEADER DONE FLAG
(0574) IPAGE=1
(0575) C DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(0576) 17 FIRST=1
(0577) CALL MAIND
(0578) 18 IF(NSHT.GT.1) GOTO 19
(0579) FIRST=0
(0580) GO TO 15
(0581) 19 CONTINUE
(0582) DO 150 J=2,NSHT
(0583) 20 READ(12,END=1001)DRW,SHTN,REV,NEO,EOREF
(0584) DO 25 K=1,4
(0585) IF(DRW(K).NE.DRAW(K)) GOTO 20
(0586) 25 CONTINUE
(0587) DO 2500 I=1,6
(0588) IF(IEON(1).NE.EOREF(I,1)) GOTO 2500
(0589) IF(IEON(2).EQ.EOREF(I,2)) GOTO 2550
(0590) 2500 CONTINUE
(0591) GO TO 150
(0592) 2550 SECOND=1
(0593) C INCREMENT THE FOUND COUNTER
(0594) 45 IF(FIRST.EQ.0) KNT=KNT+1
(0595) KNTI=KNTI+1
(0596) C INCREMENT LINE COUNTER FOR NEXT RECORD
(0597) ILINE=ILINE+NEO+4
(0598) C CHECK FOR BOTTOM OF PAGE
(0599) IF(ILINE.LE.45) GOTO 32
(0600) C SET TO TOP OF PRINTER PAGE FLAG
```



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```
(0601)      IPAGE=0
(0602) C     SET LINE COUNTER BACK TO 0
(0603)      ILINE=0
(0604) C     IS A HEADER REQUIRED NOW
(0605) 32    IF(IPAGE.NE.0) GOTO 50
(0606) C     INCREMENT LINE COUNTER FOR HEADER
(0607)      ILINE=ILINE+12
(0608) C     PRINT HEADER ON PRINTER OUTPUT
(0609) C     FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0610)      CALL TIMDAT(ARRAY,15)
(0611)      AMIN=ARRAY(4)
(0612)      AH=AMIN/60.0
(0613)      IH=AH
(0614)      IMM=IH*60
(0615)      IMIN=AMIN
(0616)      IDM=IMIN-IMM
(0617)      WRITE(7,8008)IH, IDM, (ARRAY(I), I=1,3)
(0618)      WRITE(7,8000)
(0619)      WRITE(7,8001)IEON
(0620)      CALL HEADER
(0621) C     SET HEADER DONE FLAG
(0622)      IPAGE=1
(0623) C     DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(0624) 50    CALL MAIND
(0625) 150   CONTINUE
(0626)      FIRST=0
(0627)      SECOND=0
(0628)      INEO=0
(0629)      GO TO 15
(0630) 1001  WRITE(1,1002)
(0631) 1002  FORMAT(* AN ERROR HAS OCURRED DURING DATA SEARCH*)
(0632)      RETURN
(0633) 100   WRITE(1,200)KNT,KNTT,IEON
(0634) 200   FORMAT(1X,'THERE ARE ',I9,' DRAWINGS WITH A TOTAL OF ',I9,'/
(0635) 1* SHEET(S) IN THE DRAWING SUBFILE WHICH REFERENCES E.O. ',2A4)
(0636)      RETURN
(0637) 260   READ(18,END=350) EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(0638)      DO 266 I=1,2
```

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```
(0639)      IF(IEON(I).NE.EON(I)) GOTO 260
(0640) 266  CONTINUE
(0641)      KNT=KNT+1
(0642)      IF(IPAGE.NE.0) GOTO 302
(0643)  C    FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0644)      CALL TIMDAT(ARRAY,15)
(0645)      AMIN=ARRAY(4)
(0646)      AH=AMIN/60.0
(0647)      IH=AH
(0648)      IMM=IH*60
(0649)      IMIN=AMIN
(0650)      IDM=IMIN-IMM
(0651)      WRITE(7,1000)IH,IDM,(ARRAY(I),I=1,3)
(0652) 1000  FORMAT(*1',100X,I3,*',I3,4X,2(A2,'/'),A2)
(0653)      WRITE(7,300)
(0654) 300  FORMAT(4X,115(*'*'),/,50X,*E.O. SEARCH *,/,
(0655)      19X,*E.O. NUMBER',8X,*DATE',6X,*E.O. TITLE',/,4X,115(*'*'),/,1H0)
(0656)      IPAGE=1
(0657) 302  CONTINUE
(0658) 130  FORMAT(3X,19A4)
(0659)      IF(EOREV.EQ.*NC*) GOTO 250
(0660)      WRITE(7,230)KNT,EON,EOREV,ERDT,EPTIT
(0661) 230  FORMAT(1X,I4,*',2A4,1X,*REV ',A2,3X,2(I2,*-'),I2,
(0662)      13X,19A4,/)
(0663)      WRITE(1,140) KNT,EON,EOREV,ERDT,((EOVEH(I,J),J=1,2),I=1,2)
(0664) 140  FORMAT(2X,I4,*',2X,2A4,1X,*REV ',A2,5X,2(I2,*-'),I2,3X,2(2X,
(0665)      1 I3,A1))
(0666)      GO TO 60
(0667) 250  WRITE(7,230)KNT,EON,EOREV,EDT,EPTIT
(0668)      WRITE(1,140) KNT,EON,EOREV,EDT,((EOVEH(I,J),J=1,2),I=1,2)
(0669) 60   CONTINUE
(0670)      IF(EPTIT(1).NE.* ') WRITE(1,130)EPTIT
(0671)      IF(KNT/21.EQ.KNT/21.) IPAGE=0
(0672)      CALL PAUS
(0673)      GO TO 400
(0674) 350  WRITE(1,360)IEON
(0675) 360  FORMAT(* THERE IS NO E.O.',1X,2A4,* IN THE EO SUBFILE',/)
(0676) 400  RETURN
```

SUBROUTINE EONN

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(0577)

END

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AH	R	002233	0561M	0562	0612M	0613	0646M	0647		
AMIN	R	002235	0560M	0561	0564	0611M	0612	0615	0645M	
			0646	0649						
ARRAY	I	000002	0507S	0559A	0560	0566	0610A	0611	0617	
			0644A	0645	0651					
CLEAR	R EXTERNAL	000000	051E							
DRAW	J //	000000	0505S	0536M	0585					
JRW	J //	000226	0505S	0583M	0585					
DT	I //	000130	0505S	0536M						
EDT	I //	000437	0505S	0637M	0667	0668				
EON	J //	000312	0505S	0637M	0639	0560	0663	0667	0668	
EONN	R	000000	0504S							
EOREF	J //	000242	0505S	0583M	0588	0589				
EOREV	I //	000436	0505S	0637M	0659	0660	0663	0667	0668	
EOVEH	I //	000445	0505S	0637M	0663	0668				
EPTIT	J //	000370	0505S	0637M	0660	0667	0670			
ERDT	I //	000442	0505S	0637M	0660	0663				
ETIT	J //	000316	0505S	0637M						
FEOREF	J //	000156	0505S	0536M	0538	0539				
FIRST	I //	000465	0505S	0531M	0576M	0579M	0594	0626M		
FNEO	I //	000155	0505S	0536M	0546					
FREV	I //	000154	0505S	0536M						
HEADER	R EXTERNAL	000000	0572	0620						
I	I	002237	0537M	0538	0539	0566M	0587M	0588	0589	
			0617M	0638M	0639	0651M	0663M	0668M		
IDM	I	002241	0565M	0566	0616M	0617	0650M	0651		
IDR	J //	000452	0505S							
IECN	J	000021	0506S	0521M	0538	0539	0570	0588	0589	
			0619	0633	0639	0674				
IH	I	002242	0562M	0563	0566	0613M	0614	0617	0647M	
			0648	0651						
ILINE	I	002243	0514M	0546M	0548	0552M	0556M	0597M	0599	
			0603M	0607M						
IMIN	I	002244	0564M	0565	0615M	0616	0649M	0650		
IMM	I	002245	0563M	0565	0614M	0616	0648M	0650		
INEO	I //	000462	0505S	0535M	0628M					
IOPT	I	002246	0507S	0526M	0528	0529				
IPAGE	I	002247	0512M	0550M	0554	0574M	0601M	0605	0622M	

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			0642	0656M	0671M				
J	I	002250	0582M	0663M	0668M				
K	I	002251	0584M	0585					
KNT	J //	000463	0505S	0516M	0543M	0594M	0633	0641M	0660
			0663	0667	0568	0671			
KNTT	J	002252	0506S	0517M	0544M	0595M	0633		
MAIND	I EXTERNAL	000000	0577	0624					
NEO	I //	000241	0505S	0583M	0597				
NSHT	I //	000153	0505S	0536M	0578	0582			
PAUS	R EXTERNAL	000000	0572						
PTIT	J //	000062	0505S	0536M					
R	I //	000451	0505S						
REV	I //	000240	0505S	0583M					
SECOND	I //	000466	0505S	0533M	0592M	0627M			
SECT	J //	000145	0505S	0536M					
SHTN	I //	000236	0505S	0583M					
SYS	J //	000133	0505S	0536M					
TIMDAT	R EXTERNAL	000000	0559	0610	0644				
TIT	J //	000010	0505S	0536M					
TIIT	J //	000467	0505S						
VEH	I //	000141	0505S	0536M					
_1		000042	0519D	0521					
_100		001166	0536	0633D					
_1000		001471	0651	0652D					
_1001		001131	0593	0630D					
_1002		001135	0630	0631D					
_105		000113	0523	0524D					
_110		000205	0526	0527D					
_130		001605	0658D	0670					
_140		001755	0663	0664D	0668				
_15		000232	0536D	0580	0629				
_150		001115	0582	0591	0625D				
_17		000572	0554	0576D					
_18		000575	0541	0578D					
_19		000606	0578	0581D					
_2		000047	0519	0520D					
_20		000612	0583D	0585					

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_200	001204	0633	06340	
_2003	000335	0537	0538	05400
_2050	000343	0539	05430	
_230	001644	0660	06610	0667
_25	000660	0584	05860	
_250	002016	0559	06670	
_2500	000724	0587	0588	05900
_2550	000733	0589	05920	
_260	001301	0528	06370	0639
_266	001357	0638	06400	
_3	000103	0521	05220	
_300	001520	0653	06540	
_302	001605	0642	06570	
_31	000374	0548	05540	
_32	001000	0599	06050	
_350	002160	0637	06740	
_360	002167	0574	06750	
_400	002222	0673	06760	
_45	000736	05940		
_50	001114	0605	06240	
_60	002110	0666	06690	
_8000	000521	0568	05690	0618
_8001	000540	0570	05710	0619
_8008	000472	0566	05670	0617
_99	000107	05230	0526	0529

0000 ERRORS [ &lt;EONN &gt;FTN-REV14.2 ]

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(0678) SUBROUTINE TITDW  
(0679) C  
(0679) C COMMON BLOCK FOR THE DRAW-EO FILE  
(0679) C  
(0679) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(0679) 1 DRW,SHTN,REV,NEO,EOREF,  
(0679) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
(0679) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(0679) C  
(0679) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(0679) C  
(0679) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(0679) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(0679) 1 IDR(4),KNT,TTIT(19)  
(0679) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(0679) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(0679) 1 FIRST,SECOND  
(0679) C  
(0679) C  
(0680) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
(0680) C NOLIST  
(0681) C  
(0682) C  
(0683) C THIS IS THE TITLE SEARCH ROUTINE FOR THE DRAWING FILE  
(0684) C  
(0685) C INTEGER\*4 IT(21),IEX(4,3),BLNK  
(0686) C INTEGER\*2 DOC,T1,IN,ICON,IO,IOPT,ILINE,IPAGE,IC,ITY,ARRAY(15)  
(0687) C T1=0  
(0688) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
(0689) C IPAGE=0  
(0690) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
(0691) C ILINE=0  
(0692) C FILL EXTRA TITLE WITH BLANKS  
(0693) 99 DO 8003 I=1,4  
(0694) DO 8004 J=1,3  
(0695) IEX(I,J)=  
(0696) 8004 CONTINUE  
(0697) 8003 CONTINUE

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```
(0698)      CALL CLEAR
(0699) 1001  WRITE(1,2)
(0700)  2    FORMAT(* HOW MANY WORDS DO YOU WISH TO MATCH (MAX OF 4)*, /
(0701)      1/)
(0702)      READ(1,8,ERR=1001)ICON
(0703)  8    FORMAT(I2)
(0704)      IF(ICON.LT.1) GO TO 1001
(0705)      IF(ICON.GT.4) GO TO 1001
(0706)      DO 1000 LOOP=1,ICON
(0707)      WRITE(1,1)
(0708)  1    FORMAT(* WHAT IS THE DESIRED WORD*,//)
(0709)      LEN=10
(0710)      CALL TINPUT(IT,LEN)
(0711)      IF(IT(1).EQ.'QUIT') GO TO 1002
(0712)      CALL SRCH$(K$RDWR+K$NDAM,*T1      *,6,9,1,IC)
(0713)      CALL SRCH$(K$RDWR+K$NDAM,*T2      *,6,10,1,IC)
(0714)  C    SAVE WORD OF TITLE SEARCH
(0715)      DO 8006 K=1,3
(0716)      IEX(LOOP,K)=IT(K)
(0717)  8006  CONTINUE
(0718)      IF(T1.EQ.0) IN=6
(0719)      IF(T1.EQ.0) IO=13
(0720)      IF(T1.EQ.1) IN=13
(0721)      IF (T1.EQ.1)IO=14
(0722)      IF(T1.EQ.2) IN=14
(0723)      IF(T1.EQ.2) IO=13
(0724)      IF(T1.EQ.3) IN=13
(0725)      IF(T1.EQ.3) IO=14
(0726)      IF(T1.EQ.4) IN=14
(0727)      IF(T1.EQ.4) IO=13
(0728)      DOC=0
(0729)      REWIND IN
(0730)      REWIND IO
(0731)  5    READ(IN,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,
(0732)      1      FEOREF
(0733)      BLNK=' '
(0734)      DO 3 I=1,21
(0735)      IF(TIT(I).EQ.BLNK) GO TO 3
```



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(0736) IF(TIT(I).NE.IT(1)) GO TO 3
(0737) IF(TIT(I+1).EQ.BLNK) GO TO 4
(0738) IF(IT(2).EQ.BLNK) GO TO 4
(0739) IF(TIT(I+1).EQ.IT(2)) GO TO 4
(0740) 3 CONTINUE
(0741) GO TO 5
(0742) 4 DOC=DOC+1
(0743) WRITE(IO)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0744) WRITE(1,10)TIT
(0745) 10 FORMAT(7(1X,2A4,A2))
(0746) GO TO 5
(0747) 100 WRITE(1,1030)DOC,IT
(0748) 1030 FORMAT(' THERE ARE',I5,' DRAWINGS CONTAINING THE WORD',/
(0749) 17(1X,2A4,A2)//)
(0750) IF(DOC.EQ.0) GOTO 1020
(0751) ENDFILE IO
(0752) CALL SRCH$$ (K$CLOS,'T1',6,0,0,0)
(0753) CALL SRCH$$ (K$CLOS,'T2',6,0,0,0)
(0754) IF(IO.EQ.13) CALL SRCH$$ (K$DELE,'T2',6,0,0,0)
(0755) IF(IO.EQ.14) CALL SRCH$$ (K$DELE,'T1',6,0,0,0)
(0756) T1=T1+1
(0757) 1000 CONTINUE
(0758) 1002 CALL SRCH$$ (K$RDWR+K$NDAM,'T1',6,9,1,IC)
(0759) CALL SRCH$$ (K$RDWR+K$NDAM,'T2',6,10,1,IC)
(0760) IF(DOC.LT.1) GO TO 1020
(0761) DO 9999 I=1,DOC
(0762) READ(IO,END=1020)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,
(0763) 1 FEOREF
(0764) C GET RECORD NUMBER
(0765) KNT=I
(0766) C INCREMENT LINE COUNTER FOR NEXT RECORD
(0767) ILINE=ILINE+FNEO+NSHT+3
(0768) C CHECK FOR BOTTOM OF PAGE
(0769) IF(ILINE.LE.45) GOTO 31
(0770) C SET TO TOP OF PRINTER PAGE FLAG
(0771) IPAGE=0
(0772) C SET LINE COUNTER BACK TO 0
(0773) ILINE=0
```

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```
(0774) C      INCREMENT LINE COUNTER FOR NEXT RECORD
(0775)         ILINE=FNEO+NSMT+3
(0776) C      IS A HEADER REQUIRED NOW
(0777) 31     IF(IPAGE.NE.0) GOTO 150
(0778) C      INCREMENT LINE COUNTER FOR HEADER
(0779)         ILINE=ILINE+12
(0780) C      PRINT HEADER ON PRINTER OUTPUT
(0781) C      FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0782)         CALL TIMDAT(ARRAY,15)
(0783)         AMIN=ARRAY(4)
(0784)         AH=AMIN/60.0
(0785)         IH=AH
(0786)         IMM=IH*60
(0787)         IMIN=AMIN
(0788)         IDM=IMIN-IMM
(0789)         WRITE(7,8008) IH, IDM, (ARRAY(J), J=1,3)
(0790) 8008   FORMAT('1',100X,I3,' ':',I3,4X,2(A2,'/'),A2)
(0791)         WRITE(7,8000)
(0792) 8000   FORMAT(3X,120('**'))
(0793)         WRITE(7,8001) ((IEX(K,L),L=1,3),K=1,4)
(0794) 8001   FORMAT(43X,'DRAWING TITLE SEARCH : ',4(1X,2A4,A2))
(0795)         CALL HEADER
(0796) C      SET HEADER DONE FLAG
(0797)         IPAGE=1
(0798) C      DISPLAY AND PRINT HEADING ON TERMINAL AND PRINTER OUTPUT
(0799) 150    CALL DMAIN
(0800) C      INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(0801)         ILINE=ILINE+INEO
(0802) C      IS PRINTER AT BOTTOM OF PAGE
(0803)         IF(ILINE.LE.45) GOTO 9999
(0804) C      SET TOP OF PRINTER PAGE FLAG
(0805)         IPAGE=0
(0806) C      RESET THE LINE COUNTER FOR NEW PAGE
(0807)         ILINE=0
(0808) 9999   CONTINUE
(0809) 1020   CONTINUE
(0810)         CALL SRCH$$ (K$CLOS,'T1      ',6,0,0,0)
(0811)         CALL SRCH$$ (K$CLOS,'T2      ',6,0,0,0)
```

```
(0812)      CALL SRCH$$ (K$DELE, *T1      *6,0,0,0)
(0813)      CALL SRCH$$ (K$DELE, *T2      *6,0,0,0)
(0814)      T1=0
(0815)      IF (DOC.NE.0) RETURN
(0816) 1999  WRITE(1,2000)
(0817) 2000  FORMAT(* DO YOU WISH TO TRY THE TITLE SEARCH AGAIN (YES OR NO)*)
(0818)      READ(1,2001,ERR=1999) IOPT
(0819) 2001  FORMAT(1A2)
(0820)      IF (IOPT.EQ.*YE*) GOTO 99
(0821)      IF (IOPT.NE.*NO*) GOTO 1999
(0822)      RETURN
(0823)      END
```

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AH	R	001647	0784M	0785						
AMIN	R	001651	0783M	0784	0787					
ARRAY	I	000002	0686S	0782A	0783	0789				
BLNK	J	001653	0585S	0733M	0735	0737	0738			
CLEAR	R	EXTERNAL	000000	0698						
DMAIN	R	EXTERNAL	000000	0799						
DGC	I	001655	0686S	0728M	0742M	0747	0750	0760	0761	
			0815							
DRAW	J	//	000000	0679S	0731M	0743	0762M			
DRW	J	//	000225	0579S						
DT	I	//	000130	0679S	0731M	0743	0762M			
EDT	I	//	000437	0679S						
EON	J	//	000312	0679S						
EOREF	J	//	000242	0679S						
EOREV	I	//	000436	0679S						
EOVEH	I	//	000445	0679S						
EPTIT	J	//	000370	0679S						
ERDT	I	//	000442	0679S						
ETIT	J	//	000316	0679S						
FEOREF	J	//	000156	0679S	0731M	0743	0762M			
FIRST	I	//	000465	0679S						
FNEO	I	//	000155	0679S	0731M	0743	0762M	0767	0775	
FREV	I	//	000154	0679S	0731M	0743	0762M			
HEADER	R	EXTERNAL	000000	0795						
I	I	001656	0693M	0695	0734M	0735	0736	0737	0739	
			0741M	0765						
IC	I	001660	0686S	0712A	0713A	0758A	0759A			
ICON	I	001661	0686S	0702M	0704	0705	0706			
IDM	I	001662	0788M	0789						
IDR	J	//	000452	0679S						
IEX	J	000021	0685S	0695M	0716M	0793				
IH	I	001663	0785M	0786	0789					
ILINE	I	001664	0686S	0691M	0757M	0769	0773M	0775M	0779M	
			0801M	0803	0807M					
IMIN	I	001665	0787M	0788						
IMM	I	001666	0786M	0788						
IN	I	001667	0586S	0718M	0720M	0722M	0724M	0726M	0729	
			0731							

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INEO	I //	000462	0579S	0801					
IO	I	001670	0686S	0719M	0721M	0723M	0725M	0727M	0730
			0743	0751	0754	0755	0762		
IOPT	I	001671	0686S	0818M	0820	0821			
IPAGE	I	001672	0686S	0689M	0771M	0777	0797M	0805M	
IT	J	000051	0685S	0710A	0711	0716	0736	0738	0739
			0747						
ITY	I	000000	0686S						
J	I	001673	0694M	0695	0789M				
K	I	001674	0715M	0716	0793M				
K\$ALLO	I	PARAMETER	0680S						
K\$CACC	I	PARAMETER	0620S						
K\$CLOS	I	PARAMETER	0680S	0752	0753	0810	0811		
K\$CONV	I	PARAMETER	0680S						
K\$CURR	I	PARAMETER	0680S						
K\$DELE	I	PARAMETER	0680S	0754	0755	0812	0813		
K\$DMPB	I	PARAMETER	0680S						
K\$DTIM	I	PARAMETER	0680S						
K\$ENTR	I	000000	0680S						
K\$EXST	I	PARAMETER	0680S						
K\$GOND	I	PARAMETER	0680S						
K\$GPOS	I	PARAMETER	0680S						
K\$HOME	I	PARAMETER	0680S						
K\$ICUR	I	PARAMETER	0680S						
K\$IMFD	I	PARAMETER	0680S						
K\$IRTN	I	PARAMETER	0680S						
K\$ISEG	I	PARAMETER	0680S						
K\$IUFD	I	PARAMETER	0680S						
K\$MENT	I	000000	0680S						
K\$MSIZ	I	PARAMETER	0680S						
K\$MVNT	I	PARAMETER	0680S						
K\$NDAM	I	PARAMETER	0680S	0712	0713	0758	0759		
K\$NRTN	I	PARAMETER	0680S						
K\$NSAM	I	PARAMETER	0680S						
K\$NSGD	I	PARAMETER	0680S						
K\$NSGS	I	PARAMETER	0680S						
K\$POSA	I	PARAMETER	0680S						
K\$POSN	I	PARAMETER	0680S						

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K\$POSR I PARAMETER 0680S  
 K\$PREA I PARAMETER 0680S  
 K\$PRER I PARAMETER 0680S  
 K\$PROT I PARAMETER 0680S  
 K\$RDWR I PARAMETER 0680S 0712 0713 0758 0759  
 K\$READ I PARAMETER 0680S  
 K\$RPOS I PARAMETER 0680S  
 K\$RSUB I PARAMETER 0680S  
 K\$RWLK I PARAMETER 0680S  
 K\$SENT I 000000 0680S  
 K\$SETC I PARAMETER 0680S  
 K\$SETH I PARAMETER 0680S  
 K\$SPOS I PARAMETER 0680S  
 K\$SRTN I PARAMETER 0680S  
 K\$TRNC I PARAMETER 0680S  
 K\$UPOS I PARAMETER 0680S  
 K\$WRIT I PARAMETER 0680S  
 KNT J // 000463 0679S 0765M  
 L I 001675 0793M  
 LEN I 001676 0709M 0710A  
 LOOP I 001677 0706M 0716  
 NEO I // 000241 0679S  
 NSHT I // 000153 0679S 0731M 0743 0762M 0767 0775  
 PTIT J // 000062 0679S 0731M 0743 0762M  
 R I // 000451 0679S  
 REV I // 000240 0679S  
 SECOND I // 000466 0679S  
 SECT J // 000145 0679S 0731M 0743 0762M  
 SHTN I // 000236 0679S  
 SRCH\$\$ R EXTERNAL 000000 0712 0713 0752 0753 0754 0755 0758  
 0759 0810 0811 0812 0813  
 SYS J // 000133 0679S 0731M 0743 0762M  
 T1 I 001700 0685S 0687M 0718 0719 0720 0721 0722  
 0723 0724 0725 0726 0727 0756M 0814M  
 TIMDAT R EXTERNAL 000000 0782  
 TINPUT R EXTERNAL 000000 0710  
 TIT J // 000010 0679S 0731M 0735 0736 0737 0739 0743  
 0744 0762M

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TITDW	R	000000	0678S			
TIIT	J //	000467	0679S			
VEH	I //	000141	0679S	0731M	0743	0752M
_1		000265	0707	0708D		
_10		000716	0744	0745D		
_100		000727	0731	0747D		
_1000		001066	0706	0757D		
_1001		000170	0699D	0702	0704	0705
_1002		001076	0711	0758D		
_1020		001500	0750	0760	0762	0809D
_1030		000741	0747	0748D		
_150		001457	0777	0799D		
_1999		001551	0816D	0818	0821	
_2		000175	0699	0700D		
_2000		001556	0816	0817D		
_2001		001625	0818	0819D		
_3		000631	0734	0735	0736	0740D
_31		001227	0769	0777D		
_4		000640	0737	0738	0739	0742D
_5		000501	0731D	0741	0746	
_8		000242	0702	0703D		
_8000		001354	0791	0792D		
_8001		001424	0793	0794D		
_8003		000160	0693	0697D		
_8004		000151	0694	0696D		
_8006		000365	0715	0717D		
_8008		001325	0789	0790D		
_99		000132	0693D	0820		
_9999		001472	0761	0803	0808D	

0000 ERRORS [<TITDW >FTN-REV14.2]

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```
(0824) SUBROUTINE ACTDUE
(0825) C
(0825) C COMMON BLOCK FOR THE DRAW-EO FILE
(0825) C
(0825) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,
(0825) 1 DRW,SHTN,REV,NEO,EOREF,
(0825) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,
(0825) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT
(0825) C
(0825) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE
(0825) C
(0825) INTEGER*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),
(0825) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),
(0825) 1 IDR(4),KNT,TTIT(19)
(0825) INTEGER*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,
(0825) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,
(0825) 1 FIRST,SECOND
(0825) C
(0825) C
(0826) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977
(0826) NOLIST
(0827) INTEGER*4 KNTT
(0828) INTEGER*2 IPAGE,ILINE,ARRAY(15)
(0829) C
(0830) C
(0831) C THIS SUBROUTINE PERFORMS CHECKS ON ALL DRAWINGS HAVING
(0832) C FIVE (5) OR MORE E.O.'S
(0833) C
(0834) C INITIALIZE FIRST SHEET FLAG
(0835) FIRST=0
(0836) C INITIALIZE SECOND OR MORE SHEET FLAG
(0837) SECOND=0
(0838) C INITIALIZE THE DRAW DATA PRINTED FLAG
(0839) INEO=0
(0840) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(0841) IPAGE=0
(0842) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT
(0843) ILINE=0
```



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```
(0844) C      INITIALIZE THE FOUND COUNTERS
(0845)      KNT=0
(0846)      KNNT=0
(0847)      CALL BREAK$(.TRUE.)
(0848)      WRITE(1,1)
(0849) 1     FORMAT(* THIS IS THE REVISION ACTION DUE SEARCH ROUTINE.*,/,
(0850)      1* ALL DRAWINGS WITH FIVE (5) OR MORE E.O.*'S ARE FOUND AND *,
(0851)      1*SPOOLED.*)
(0852) 15    READ(6,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0853)      IF(FNEO.LT.5) GOTO 18
(0854) C      INCREMENT THE FOUND COUNTER
(0855)      KNT=KNT+1
(0856)      KNNT=KNNT+1
(0857) C      INCREMENT LINE COUNTER FOR NEXT RECORD
(0858)      ILINE=ILINE+FNEO+4
(0859) C      CHECK FOR BOTTOM OF PAGE
(0860)      IF(ILINE.LE.45) GOTO 31
(0861) C      SET TO TOP OF PRINTER PAGE FLAG
(0862)      IPAGE=0
(0863) C      SET LINE COUNTER BACK TO 0
(0864)      ILINE=0
(0865) C      IS A HEADER REQUIRED NOW
(0866) 31    IF(IPAGE.NE.0) GOTO 17
(0867) C      INCREMENT LINE COUNTER FOR HEADER
(0868)      ILINE=ILINE+12
(0869) C      PRINT HEADER ON PRINTER OUTPUT
(0870) C      FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0871)      CALL TIMDAT(ARRAY,15)
(0872)      AMIN=ARRAY(4)
(0873)      AH=AMIN/60.0
(0874)      IH=AH
(0875)      IMM=IH*60
(0876)      IMIN=AMIN
(0877)      IDM=IMIN-IMM
(0878)      WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
(0879) 8008  FORMAT(*1*,100X,I3,*:*,I3,4X,2(A2,*/*),A2)
(0880)      WRITE(7,8000)
(0881) 8000  FORMAT(3X,120(**))
```

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```
(0882)      WRITE(7,8001)
(0883) 8001  FORMAT(46X,'REVISION ACTION DUE SEARCH')
(0884)      CALL HEADER
(0885) C     SET HEADER DONE FLAG
(0886)      IPAGE=1
(0887) C     DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(0888) 17    FIRST=1
(0889)      CALL MAIND
(0890) 18    IF(NSHT.GT.1) GOTO 19
(0891)      FIRST=0
(0892)      GO TO 15
(0893) 19    CONTINUE
(0894)      DO 150 J=2,NSHT
(0895) 20    READ(12,END=1000)DRW,SHTN,REV,NEO,EOREF
(0896)      DO 25 K=1,4
(0897)      IF(DRW(K).NE.DRAW(K)) GOTO 20
(0898) 25    CONTINUE
(0899)      IF(NEO.LT.5) GOTO 150
(0900)      SECOND=1
(0901) C     INCREMENT THE FOUND COUNTER
(0902) 45    IF(FIRST.EQ.0) KNT=KNT+1
(0903)      KNTT=KNTT+1
(0904) C     INCREMENT LINE COUNTER FOR NEXT RECORD
(0905)      ILINE=ILINE+NEO+4
(0906) C     CHECK FOR BOTTOM OF PAGE
(0907)      IF(ILINE.LE.45) GOTO 32
(0908) C     SET TO TOP OF PRINTER PAGE FLAG
(0909)      IPAGE=0
(0910) C     SET LINE COUNTER BACK TO 0
(0911)      ILINE=0
(0912) C     IS A HEADER REQUIRED NOW
(0913) 32    IF(IPAGE.NE.0) GOTO 50
(0914) C     INCREMENT LINE COUNTER FOR HEADER
(0915)      ILINE=ILINE+12
(0916) C     PRINT HEADER ON PRINTER OUTPUT
(0917) C     FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0918)      CALL TIMDAT(ARRAY,15)
(0919)      AMIN=ARRAY(4)
```

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```
(0920)      AH=AMIN/60.0
(0921)      IH=AH
(0922)      IMM=IH*60
(0923)      IMIN=AMIN
(0924)      IDM=IMIN-IMM
(0925)      WRITE(7,8008)IH, IDM,(ARRAY(I),I=1,3)
(0926)      WRITE(7,8000)
(0927)      WRITE(7,8001)
(0928)      CALL HEADER
(0929)      C      SET HEADER DONE FLAG
(0930)      IPAGE=1
(0931)      C      DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(0932)      50    CALL MAIND
(0933)      150   CONTINUE
(0934)      FIRST=0
(0935)      SECOND=0
(0936)      INEO=0
(0937)      GO TO 15
(0938)      100   WRITE(1,200)KNT,KNTT
(0939)      200   FORMAT(1X,'THERE ARE ',I9,' DRAWINGS WITH A TOTAL OF ',I9,'/
(0940)      1* SHEET(S) IN THE DRAWING SUBFILE WHICH MUST BE REVISED*)
(0941)      IF(KNT.EQ.0) RETURN
(0942)      CALL SRCH$$ (KSCLOS,'DRAW  ',6,0,0,0)
(0943)      CALL SRCH$$ (KSCLOS,'EO    ',6,0,0,0)
(0944)      CALL SRCH$$ (KSCLOS,'SHEET ',6,0,0,0)
(0945)      CALL SRCH$$ (KSCLOS,'OUT   ',6,0,0,0)
(0946)      CALL COMISS('SOUT',4,12,IC)
(0947)      CALL EXIT
(0948)      1000  WRITE(1,1001)
(0949)      1001  FORMAT(' AN ERROR HAS OCCURRED DURING DATA SEARCH! ')
(0950)      RETURN
(0951)      END
```

ACTDUE	R	000000	0824S							
AH	R	001154	0873M	0874	0920M	0921				
AMIN	R	001156	0872M	0873	0876	0919M	0920	0923		
ARRAY	I	000002	082PS	0871A	0872	0878	0918A	0919	0925	
BREAKS	R EXTERNAL	000000	0847							
COMISS	R EXTERNAL	000000	0946							
DRAW	J //	000000	0825S	0852M	0897					
DRW	J //	000226	0825S	0895M	0897					
DT	I //	000130	0825S	0852M						
EDT	I //	000437	0825S							
EON	J //	000312	0925S							
EOREF	J //	000242	0825S	0895M						
EOREV	I //	000436	0825S							
EOVEH	I //	000445	0825S							
EPTIT	J //	000370	0825S							
ERDT	I //	000442	0825S							
ETIT	J //	000316	0825S							
EXIT	R EXTERNAL	000000	0947							
FEOREF	J //	000156	0825S	0852M						
FIRST	I //	000465	0825S	0835M	0888M	0891M	0902	0934M		
FNEO	I //	000155	0825S	0852M	0853	0858				
FREV	I //	000154	0825S	0852M						
HEADER	R EXTERNAL	000000	0884	0928						
I	I	001160	0878M	0925M						
IC	I	001162	0946A							
IDM	I	001163	0877M	0878	0924M	0925				
IDR	J //	000452	0825S							
IH	I	001164	0874M	0875	0878	0921M	0922	0925		
ILINE	I	001165	0828S	0843M	0858M	0860	0864M	0868M	0905M	
			0907	0911M	0915M					
IMIN	I	001166	0876M	0877	0923M	0924				
IMM	I	001167	0875M	0877	0922M	0924				
INEO	I //	000462	0825S	0839M	0936M					
IPAGE	I	001170	082FS	0841M	0862M	0866	0886M	0909M	0913	
			0930M							
J	I	001171	0894M							
K	I	001172	0896M	0897						
KSALLO	I PARAMETER		0826S							

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K\$CACC	I	PARAMETER	0826S				
K\$CLOS	I	PARAMETER	0826S	0942	0943	0944	0945
K\$CONV	I	PARAMETER	0826S				
K\$CURR	I	PARAMETER	0826S				
K\$DELE	I	PARAMETER	0826S				
K\$DMPB	I	PARAMETER	0826S				
K\$DTIM	I	PARAMETER	0826S				
K\$ENTR	I	000000	0826S				
K\$EXST	I	PARAMETER	0826S				
K\$GOND	I	PARAMETER	0826S				
K\$GPOS	I	PARAMETER	0826S				
K\$HOME	I	PARAMETER	0826S				
K\$ICUR	I	PARAMETER	0826S				
K\$IMFD	I	PARAMETER	0826S				
K\$IRTN	I	PARAMETER	0826S				
K\$ISEG	I	PARAMETER	0826S				
K\$IUFD	I	PARAMETER	0826S				
K\$MENT	I	000000	0826S				
K\$MSIZ	I	PARAMETER	0826S				
K\$MVNT	I	PARAMETER	0826S				
K\$NDAM	I	PARAMETER	0826S				
K\$NRTN	I	PARAMETER	0826S				
K\$NSAM	I	PARAMETER	0826S				
K\$NSGD	I	PARAMETER	0826S				
K\$NSGS	I	PARAMETER	0826S				
K\$POSA	I	PARAMETER	0826S				
K\$POSN	I	PARAMETER	0826S				
K\$PREA	I	PARAMETER	0826S				
K\$PRER	I	PARAMETER	0826S				
K\$PROT	I	PARAMETER	0826S				
K\$RDWR	I	PARAMETER	0826S				
K\$RCAD	I	PARAMETER	0826S				
K\$RPOS	I	PARAMETER	0826S				
K\$RSUB	I	PARAMETER	0826S				
K\$RWLK	I	PARAMETER	0826S				
K\$SENT	I	000000	0826S				
K\$SETC	I	PARAMETER	0826S				

K\$SETH	I	PARAMETER	0826S						
K\$SPOS	I	PARAMETER	0825S						
K\$SRTN	I	PARAMETER	0826S						
K\$TRNC	I	PARAMETER	0826S						
K\$UPOS	I	PARAMETER	0826S						
K\$WRIT	I	PARAMETER	0826S						
KNT	J	//	000463	0825S	0845M	0855M	0902M	0938	0941
KNTT	J		001173	0827S	0846M	0856M	0903M	0938	
MAIND	I	EXTERNAL	000000	0889	0932				
NEO	I	//	000241	0825S	0895M	0899	0905		
NSHT	I	//	000153	0825S	0852M	0890	0894		
PTIT	J	//	000062	0825S	0852M				
R	I	//	000451	0825S					
REV	I	//	000240	0825S	0895M				
SECOND	I	//	000466	0825S	0837M	0900M	0935M		
SECT	J	//	000145	0825S	0852M				
SHTN	I	//	000236	0825S	0895M				
SRCH\$	R	EXTERNAL	000000	0942	0943	0944	0945		
SYS	J	//	000133	0825S	0852M				
TIMDAT	R	EXTERNAL	000000	0871	0918				
TIT	J	//	000010	0825S	0852M				
TTIT	J	//	000467	0825S					
VEH	I	//	000141	0825S	0852M				
1			000052	0848	0849D				
100			000730	0852	0938D				
1000			001114	0895	0948D				
1001			001121	0948	0949D				
15			000152	0852D	0892	0937			
150			000714	0894	0899	0933D			
17			000446	0866	0888D				
18			000452	0853	0890D				
19			000463	0890	0893D				
20			000467	0895D	0897				
200			000742	0938	0939D				
25			000536	0896	0898D				
31			000257	0860	0866D				
32			000612	0907	0913D				

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_45	000554	0902D		
_50	000713	0913	0932D	
_8000	000404	0880	0881D	0926
_8001	000420	0882	0883D	0927
_8008	000355	0878	0879D	0925

0000 ERRORS [<ACTOUE>FTN-REV14.2]

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(0952) SUBROUTINE ALDW  
 (0953) C  
 (0953) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (0953) C  
 (0953) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (0953) 1 DRW,SHTN,REV,NEO,EOREF,  
 (0953) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (0953) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (0953) C  
 (0953) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (0953) C  
 (0953) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (0953) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (0953) 1 IDR(4),KNT,TTIT(19)  
 (0953) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (0953) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (0953) 1 FIRST,SECOND  
 (0953) C  
 (0953) C  
 (0954) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (0954) NOLIST  
 (0955) INTEGER\*2 IOPT,ARRAY(15)  
 (0956) C  
 (0957) C PRINT ALL ROUTINE  
 (0958) C  
 (0959) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
 (0960) IPAGE=0  
 (0961) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
 (0962) ILINE=0  
 (0963) C INITIALIZE THE FOUND COUNTER  
 (0964) KNT=0  
 (0965) CALL BREAKS(.TRUE.)  
 (0966) 1 WRITE(1,2)  
 (0967) 2 FORMAT(' WHICH PRINT ALL OPTION DO YOU WISH:\*,/,  
 (0968) 114X,'DRAWING AND E.O.'\*S (DE)\*,/,14X,'E.O.'\*S ONLY (EO)\*)  
 (0969) READ(1,3)IOPT  
 (0970) 3 FORMAT(1A2)  
 (0971) IF(IOPT.EQ.'EO') GOTO 259

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```
(0972)      IF(IOPT.NE.'DE') GOTO 1
(0973)  5    WRITE(1,10)
(0974)  10   FORMAT(* THIS IS THE PRINT ALL ROUTINE */,/
(0975)      1 * ALL DRAWINGS STORED IN THE DRAW FILE WILL BE SPOOLED*/,/
(0976)      2 * AND A TOTAL COUNT OF THE DRAWINGS WILL BE GIVEN*/,//)
(0977)  20   READ(6,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(0978)  C    INCREMENT THE FOUND COUNTER
(0979)      KNT=KNT+1
(0980)  C    INCREMENT LINE COUNTER FOR NEXT RECORD
(0981)      ILINE=ILINE+FNEO+NSHT+3
(0982)  C    CHECK FOR BOTTOM OF PAGE
(0983)      IF(ILINE.LE.45) GOTO 31
(0984)  C    SET TO TOP OF PRINTER PAGE FLAG
(0985)      IPAGE=0
(0986)  C    SET LINE COUNTER BACK TO 0
(0987)      ILINE=0
(0988)  C    INCREMENT LINE COUNTER FOR NEXT RECORD
(0989)      ILINE=FNEO+NSHT+3
(0990)  C    IS A HEADER REQUIRED NOW
(0991)  31   IF(IPAGE.NE.0) GOTO 150
(0992)  C    INCREMENT LINE COUNTER FOR HEADER
(0993)      ILINE=ILINE+12
(0994)  C    PRINT HEADER ON PRINTER OUTPUT
(0995)  C    FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(0996)      CALL TIMDAT(ARRAY,15)
(0997)      AMIN=ARRAY(4)
(0998)      AH=AMIN/60.0
(0999)      IH=AH
(1000)     IMM=IH*60
(1001)     IMIN=AMIN-IMM
(1002)     IDM=IMIN-IMM
(1003)     WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
(1004)  8008  FORMAT(*1*,100X,I3,*:*,I3,4X,2(A2,'/'),A2)
(1005)     WRITE(7,8000)
(1006)  8000  FORMAT(3X,120('**'))
(1007)     WRITE(7,8001)
(1008)  8001  FORMAT(50X,* PRINT ALL DRAWINGS*)
(1009)     CALL HEADER
```

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```
(1010) C      SET HEADER DONE FLAG
(1011)      IPAGE=1
(1012) C      DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(1013) 150    CALL DMAIN
(1014) C      INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1015)      ILINE=ILINE+INEO
(1016) C      IS THE PRINTER AT BOTTOM OF PAGE
(1017)      IF(ILINE.LE.45) GOTO20
(1018) C      SET TO TOP OF PRINTER PAGE FLAG
(1019)      IPAGE=0
(1020) C      RESET THE LINE COUNTER TO 0
(1021)      ILINE=0
(1022)      GO TO 20
(1023) 100    WRITE(1,200) KNT
(1024) 200    FORMAT(' THERE ARE *19* DRAWINGS IN THE DRAW FILE',/)
(1025) 240    CALL SRCH$(K$CLOS,'DRAW  *6,0,0,0)
(1026)      CALL SRCH$(K$CLOS,'EO   *6,0,0,0)
(1027)      CALL SRCH$(K$CLOS,'SHEET *6,0,0,0)
(1028)      CALL SRCH$(K$CLOS,'OUT  *6,0,0,0)
(1029)      CALL COMI$( 'SOUT',4,12,IC)
(1030)      CALL EXIT
(1031) 259    WRITE(1,11)
(1032) 11     FORMAT(' THIS IS THE PRINT ALL ROUTINE ',/,
(1033)      1 * ALL ENGINEERING ORDERS STORED IN THE EO FILE WILL BE SPOOLED*,/
(1034)      2 * AND A TOTAL COUNT OF THE E.O.*S WILL BE GIVEN*,//)
(1035) 260    READ(18,END=350) EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1036)      KNT=KNT+1
(1037)      IF(IPAGE.NE.0) GOTO 302
(1038) C      FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(1039)      CALL TIMDAT(ARRAY,15)
(1040)      AMIN=ARRAY(4)
(1041)      AH=AMIN/60.0
(1042)      IH=AH
(1043)      IMM=IH*60
(1044)      IMIN=AMIN
(1045)      IDM=IMIN-IMM
(1046)      WRITE(7,8008) IH, IDM, (ARRAY(I), I=1,3)
(1047)      WRITE(7,300)
```

(1048) 300 FORMAT(4X,115('\*')),/,45X,'E.O. SEARCH - PRINT ALL',/,  
(1049) 19X,'E.O. NUMBER',8X,'DATE',6X,'E.O. TITLE',/,4X,115('\*')),/,1H0)  
(1050) IPAGE=1  
(1051) 302 CONTINUE  
(1052) 130 FORMAT(3X,I2,'. E.O. TITLE',/,3X,19A4)  
(1053) IF(EOREV.EQ.'NC') GOTO 250  
(1054) WRITE(7,230)KNT,EON,EOREV,ERDT,EPTIT  
(1055) 230 FORMAT('0',I4,'. '2A4,1X,'REV ',A2,3X,2(I2,'-'),I2,  
(1056) 13X,19A4)  
(1057) . WRITE(1,140) KNT,EON,EOREV,ERDT,((EOVEH(I,J),J=1,2),I=1,2)  
(1058) 140 FORMAT(2X,I4,'. '2X,2A4,1X,'REV ',A2,5X,2(I2,'-'),I2,3X,2(2X,  
(1059) 1 I3,A1))  
(1060) GO TO 60  
(1061) 250 WRITE(7,230)KNT,EON,EOREV,EDT,EPTIT  
(1062) WRITE(1,140) KNT,EON,EOREV,EDT,((EOVEH(I,J),J=1,2),I=1,2)  
(1063) 60 IF(KNT/21.EQ.KNT/21.) IPAGE=0  
(1064) CALL PAUS  
(1065) GO TO 260  
(1066) 350 WRITE(1,360)KNT  
(1067) 360 FORMAT(' THERE ARE 'I9' E.O.'S IN THE EO SUBFILE',/)  
(1068) GO TO 240  
(1069) END

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AH	R	001702	0998M	0999	1041M	1042				
ALDW	R	000000	0952S							
AMIN	R	001704	0997M	0998	1001	1040M	1041	1044		
ARRAY	I	000002	0955S	0996A	0997	1003	1039A	1040	1046	
BREAKS	R EXTERNAL	000000	0965							
COMISS	R EXTERNAL	000000	1029							
DMAIN	R EXTERNAL	000000	1013							
DRAW	J //	000000	0953S	0977M						
DRW	J //	000226	0953S							
DT	I //	000130	0953S	0977M						
EDT	I //	000437	0953S	1035M	1061	1062				
EON	J //	000312	0953S	1035M	1054	1057	1061	1062		
EOREF	J //	000242	0953S							
EOREV	I //	000436	0953S	1035M	1053	1054	1057	1061	1062	
EOVEH	I //	000445	0953S	1035M	1057	1062				
EPTIT	J //	000370	0953S	1035M	1054	1061				
ERDT	I //	000442	0953S	1035M	1054	1057				
ETIT	J //	000316	0953S	1035M						
EXIT	R EXTERNAL	000000	1030							
FEOREF	J //	000156	0953S	0977M						
FIRST	I //	000465	0953S							
FNEO	I //	000155	0953S	0977M	0981	0989				
FREV	I //	000154	0953S	0977M						
HEADER	R EXTERNAL	000000	1009							
I	I	001706	1003M	1046M	1057M	1062M				
IC	I	001707	1029A							
IDM	I	001710	1002M	1003	1045M	1046				
IDR	J //	000452	0953S							
IH	I	001711	0999M	1000	1003	1042M	1043	1046		
ILINE	I	001712	0962M	0981M	0983	0987M	0989M	0993M	1015M	
			1017	1021M						
IMIN	I	001713	1001M	1002	1044M	1045				
IMM	I	001714	1000M	1002	1043M	1045				
INEO	I //	000462	0953S	1015						
IOPT	I	001715	0955S	0969M	0971	0972				
IPAGE	I	001716	0960M	0985M	0991	1011M	1019M	1037	1050M	
			1063M							
J	I	001717	1057M	1062M						

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1/10

K\$ALLD	I	PARAMETER	0954S				
K\$CACC	I	PARAMETER	0954S				
K\$CLOS	I	PARAMETER	0954S	1025	1026	1027	1028
K\$CONV	I	PARAMETER	0954S				
K\$CURR	I	PARAMETER	0954S				
K\$DELE	I	PARAMETER	0954S				
K\$DMPB	I	PARAMETER	0954S				
K\$DTIM	I	PARAMETER	0954S				
K\$ENTR	I	000000	0954S				
K\$EXST	I	PARAMETER	0954S				
K\$GOND	I	PARAMETER	0954S				
K\$GPOS	I	PARAMETER	0954S				
K\$HOME	I	PARAMETER	0954S				
K\$ICUR	I	PARAMETER	0954S				
K\$IMFD	I	PARAMETER	0954S				
K\$IRTN	I	PARAMETER	0954S				
K\$ISEG	I	PARAMETER	0954S				
K\$IUFD	I	PARAMETER	0954S				
K\$MENT	I	000000	0954S				
K\$MSIZ	I	PARAMETER	0954S				
K\$MVNT	I	PARAMETER	0954S				
K\$NDAM	I	PARAMETER	0954S				
K\$NRTN	I	PARAMETER	0954S				
K\$NSAM	I	PARAMETER	0954S				
K\$NSGD	I	PARAMETER	0954S				
K\$NSGS	I	PARAMETER	0954S				
K\$POSA	I	PARAMETER	0954S				
K\$POSN	I	PARAMETER	0954S				
K\$POSR	I	PARAMETER	0954S				
K\$PREA	I	PARAMETER	0954S				
K\$PRER	I	PARAMETER	0954S				
K\$PROT	I	PARAMETER	0954S				
K\$RDWR	I	PARAMETER	0954S				
K\$READ	I	PARAMETER	0954S				
K\$RPOS	I	PARAMETER	0954S				
K\$RSUB	I	PARAMETER	0954S				
K\$RWLK	I	PARAMETER	0954S				
K\$SENT	I	000000	0954S				

K\$SETC	I	PARAMETER	0954S						
K\$SETH	I	PARAMETER	0954S						
K\$SPOS	I	PARAMETER	0954S						
K\$SRTN	I	PARAMETER	0954S						
K\$TRNC	I	PARAMETER	0954S						
K\$UPOS	I	PARAMETER	0954S						
K\$WRIT	I	PARAMETER	0954S						
KNT	J	//	000463	0953S	0964M	0979M	1023	1036M	1054 1057
				1061	1062	1063	1066		
NEO	I	//	000241	0953S					
NSHT	I	//	000153	0953S	0977M	0981	0989		
PAUS	R	EXTERNAL	000000	1064					
PTIT	J	//	000062	0953S	0977M				
R	I	//	000451	0953S					
REV	I	//	000240	0953S					
SECOND	I	//	000466	0953S					
SECT	J	//	000145	0953S	0977M				
SHTN	I	//	000236	0953S					
SRCH\$\$	R	EXTERNAL	000000	1025	1026	1027	1028		
SYS	J	//	000133	0953S	0977M				
TIMDAT	R	EXTERNAL	000000	0996	1039				
TIT	J	//	000010	0953S	0977M				
TTIT	J	//	000467	0953S					
VEH	I	//	000141	0953S	0977M				
_1			000035	0966D	0972				
_10			000161	0973	0974D				
_100			000577	0977	1023D				
_11			000713	1031	1032D				
_130			001270	1052D					
_140			001453	1057	1058D	1062			
_150			000562	0991	1013D				
_2			000042	0966	0967D				
_20			000274	0977D	1017	1022			
_200			000607	1023	1024D				
_230			001343	1054	1055D	1061			
_240			000640	1025D	1068				
_250			001514	1053	1061D				

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101

_259	000707	0971	1031D	
_260	001032	1035D	1065	
_3	000137	0969	0970D	
_300	001174	1047	1048D	
_302	001270	1037	1051D	
_31	000375	0983	0991D	
_350	001637	1035	1066D	
_360	001646	1066	1067D	
_5	000155	0973D		
_60	001607	1060	1063D	
_8000	000522	1005	1006D	
_8001	000536	1007	1008D	
_8008	000473	1003	1004D	1046

0000 ERRORS [<ALDW >FTN-REV14.2]

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402

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999

```
(1070) SUBROUTINE VEHND
(1071) C
(1071) C COMMON BLOCK FOR THE DRAW-EO FILE
(1071) C
(1071) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,
(1071) 1 DRW,SHTN,REV,NEO,EOREF,
(1071) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,
(1071) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT
(1071) C
(1071) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE
(1071) C
(1071) INTEGER*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),
(1071) 1 DRW(4),ECREF(10,2),EPTIT(19),ETIT(21),EON(2),
(1071) 1 IDR(4),KNT,TTIT(19)
(1071) INTEGER*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,
(1071) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,
(1071) 1 FIRST,SECOND
(1071) C
(1071) C
(1072) INTEGER*2 IOPT,ARRAY(15)
(1073) C
(1074) C
(1075) C THIS ROUTINE LOCATED ALL ENTRIES IN THE DRAWING FILE
(1076) C WHICH ARE RELATED TO EITHER A SPECIFIC VEHICLE OR VEHICLE
(1077) C
(1078) INTEGER*2 VEH1(2),VS(4)
(1079) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(1080) IPAGE=0
(1081) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT
(1082) ILINE=0
(1083) C INITIALIZE THE FOUND COUNTER
(1084) KNT=0
(1085) CALL CLEAR
(1086) 1 WRITE(1,2)
(1087) 2 FORMAT(*WHAT IS THE DESIRED VEHICLE NUMBER*)
(1088) READ(1,3,ERR=1)VEH1
(1089) 3 FORMAT(2(I3,A1))
(1090) 999 WRITE(1,100)
```



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1194

```
(1091) 100  FORMAT('WHAT IS THE FIRST VALID VEHICLE NUMBER',/)
(1092)      READ(1,101,ERR=999)(VS(I),I=1,2)
(1093) 998  WRITE(1,102)
(1094) 102  FORMAT('WHAT IS THE LAST VALID VEHICLE NUMBER',/,
(1095)      1*NOTE - THE DEFAULT IS VEHICLE 999')
(1096)      READ(1,101,ERR=998)(VS(I),I=3,4)
(1097) 101  FORMAT(I3,A1,2X,I3,A1)
(1098)      IF(VEH1(1).LT.VS(1)) GO TO 999
(1099)      IF(VS(3).EQ.0) VS(3)=999
(1100)      IF(VS(3).LT.VEH1(1)) GO TO 998
(1101) 10   WRITE(1,11)
(1102) 11   FORMAT(' DO YOU WISH A LIST OF ALL E.O.'S FOR A SPECIFIC VEHICLE
(1103)      1: ENTER EO',/, ' OR A LIST OF DRAWINGS RELATED TO SPECIFIC VEHICLE
(1104)      1 : ENTER DR')
(1105)      READ(1,12)IOPT
(1106) 12   FORMAT(A2)
(1107)      IF(IOPT.EQ.'EO') GOTO 300
(1108)      IF(IOPT.NE.'DR') GOTO 10
(1109) 4    READ(6,END=202)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(1110)      IF(VEH(1,1).LT.VS(1)) GO TO 4
(1111)      IF(VEH(2,1).GT.VS(3)) GO TO 4
(1112)      IF(VEH(1,2).NE.'S'.AND.VEH(1,1).EQ.VEH1(1)) GO TO 1001
(1113)      IF(VEH(1,2).EQ.'S'.AND.VEH(1,1).LE.VEH1(1)) GO TO 1001
(1114)      GO TO 4
(1115) 1001 CONTINUE
(1116) C    INCREMENT THE FOUND COUNTER
(1117)      KNT=KNT+1
(1118) C    INCREMENT LINE COUNTER FOR NEXT RECORD
(1119)      ILINE=ILINE+FNEO+NSHT+3
(1120) C    CHECK FOR BOTTOM OF PAGE
(1121)      IF(ILINE.LE.45) GOTO 31
(1122) C    SET TO TOP OF PRINTER PAGE FLAG
(1123)      IPAGE=0
(1124) C    SET LINE COUNTER BACK TO 0
(1125)      ILINE=0
(1126) C    INCREMENT LINE COUNTER FOR NEXT RECORD
(1127)      ILINE=FNEO+NSHT+3
(1128) C    IS A HEADER REQUIRED NOW
```

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```
(1129) 31   IF(IPAGE.NE.0) GOTO 150
(1130) C    INCREMENT LINE COUNTER FOR HEADER
(1131)      ILINE=ILINE+12
(1132) C    PRINT HEADER ON PRINTER OUTPUT
(1133) C    FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(1134)      CALL TIMDAT(ARRAY,15)
(1135)      AMIN=ARRAY(4)
(1136)      AH=AMIN/60.0
(1137)      IH=AH
(1138)      IMM=IH*60
(1139)      IMIN=AMIN
(1140)      IDM=IMIN-IMM
(1141)      WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
(1142) 8008  FORMAT(*1',100X,I3,*':',I3,4X,2(A2,'/'),A2)
(1143)      WRITE(7,8000)
(1144) 8000  FORMAT(3X,120('**'))
(1145)      WRITE(7,8001)VEH1
(1146) 8001  FORMAT(45X,'VEHICLE SEARCH : ',I3,A1)
(1147)      CALL HEADER
(1148) C    SET HEADER DONE FLAG
(1149)      IPAGE=1
(1150) C    DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(1151) 150   CALL DMAIN
(1152) C    INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1153)      ILINE=ILINE+INEO
(1154) C    IS THE PRINTER AT BOTTOM OF PAGE
(1155)      IF(ILINE.LE.45) GOTO 4
(1156) C    SET TO TOP OF PRINTER PAGE FLAG
(1157)      IPAGE=0
(1158) C    RESET THE LINE COUNTER TO 0
(1159)      ILINE=0
(1160)      GO TO 4
(1161) 202   WRITE(1,201)KNT,VEH1
(1162) 201   FORMAT(*THERE ARE *I10* DRAWINGS RELATING*./,
(1163) 1*TO VEHICLE *I3,A1/)
(1164)      RETURN
(1165) 300   READ(18,END=400) EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1166)      IF(EOVEH(1,1).LT.VS(1)) GO TO 300
```

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1167 IF(EOVEH(2,1).GT.VS(3)) GO TO 300  
1168 IF(EOVEH(1,2).NE.'S'.AND.EOVEH(1,1).EQ.VEH1(1)) GO TO 1002  
1169 IF(EOVEH(1,2).EQ.'S'.AND.EOVEH(1,1).LE.VEH1(1)) GO TO 1002  
1170 GO TO 300  
1171 1002 CONTINUE  
1172 KNT=KNT+1  
1173 IF(IPAGE.NE.0) GOTO 302  
1174 C FETCH AND WRITE TIME AND DATE TO OUTPUT FILE  
1175 CALL TIMDAT(ARRAY,15)  
1176 AMIN=ARRAY(4)  
1177 AH=AMIN/60.0  
1178 IH=AH  
1179 IMM=IH\*60  
1180 IMIN=AMIN  
1181 IDM=IMIN-IMM  
1182 WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)  
1183 WRITE(7,349)VEH1  
1184 349 FORMAT(4X,115('\*')),/,50X,'E.O. VEHICLE SEARCH ',2(I3,A1,2X))  
1185 WRITE(7,351)  
1186 351 FORMAT(14X,'E.O. NUMBER',9X,'DATE',6X,'E.O. TITLE',/,4X,115('\*'))  
1187 IPAGE=1  
1188 302 IF(EOREV.EQ.'NC') GOTO 350  
1189 WRITE(1,310)KNT,EON,EOREV,ERDT  
1190 310 FORMAT(3X,I9,'. ',  
1191 1'E.O. NUMBER: ',2A4,5X,'E.O. REV ',A2,5X,'DATE ',  
1192 12(I2,'-'),I2)  
1193 WRITE(7,320)KNT,EON,EOREV,ERDT,EPTIT  
1194 320 FORMAT('0',2X,I7,'. ',2A4,2X,'REV ',A2,3X,2(I2,'-'),I2,  
1195 13X,19A4)  
1196 GO TO 325  
1197 350 WRITE(1,310)KNT,EON,EOREV,EDT  
1198 WRITE(7,320)KNT,EON,EOREV,EDT,EPTIT  
1199 325 CONTINUE  
1200 IF(EPTIT(1).NE.' ') WRITE(1,311)EPTIT  
1201 311 FORMAT(3X,19A4)  
1202 IF(KNT/21.EQ.KNT/21.) IPAGE=0  
1203 CALL PAUS  
1204 GO TO 300

SUBROUTINE VEHND

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```
(1205) 400 WRITE(1,402)KNT,VEH1  
(1206) 402 FORMAT(' THERE ARE ',I7,' E.O.'S RELATED TO VEHICLE ',I3,A1/)  
(1207) RETURN  
(1208) END
```

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66A  
1492

D-89  
9/89

AH	R	002010	1136M	1137	1177M	1178				
AMIN	R	002012	1135M	1136	1139	1176M	1177	1180		
ARRAY	I	000002	1072S	1134A	1135	1141	1175A	1176	1182	
CLEAR	R EXTERNAL	000000	1085							
DMAIN	R EXTERNAL	000000	1151							
DRAW	J //	000000	1071S	1109M						
DRW	J //	000226	1071S							
DT	I //	000130	1071S	1109M						
EDT	I //	000437	1071S	1165M	1197	1198				
EON	J //	000312	1071S	1165M	1189	1193	1197	1198		
EOREF	J //	000242	1071S							
EOREV	I //	000436	1071S	1165M	1188	1189	1193	1197	1198	
EOVEH	I //	000445	1071S	1165M	1166	1167	1168	1169		
EPTIT	J //	000370	1071S	1165M	1193	1198	1200			
ERDT	I //	000442	1071S	1165M	1189	1193				
ETIT	J //	000316	1071S	1165M						
FEOREF	J //	000156	1071S	1109M						
FIRST	I //	000465	1071S							
FNEO	I //	000155	1071S	1109M	1119	1127				
FREV	I //	000154	1071S	1109M						
HEADER	R EXTERNAL	000000	1147							
I	I	002014	1092M	1096M	1141M	1182M				
IDM	I	002017	1140M	1141	1181M	1182				
IDR	J //	000452	1071S							
IH	I	002020	1137M	1138	1141	1178M	1179	1182		
ILINE	I	002021	1082M	1119M	1121	1125M	1127M	1131M	1153M	
			1155	1159M						
IMIN	I	002022	1139M	1140	1180M	1181				
IMM	I	002023	1138M	1140	1179M	1181				
INEO	I //	000462	1071S	1153						
IOPT	I	002024	1072S	1105M	1107	1108				
IPAGE	I	002025	1080M	1123M	1129	1149M	1157M	1173	1187M	
			1202M							
KNT	J //	000463	1071S	1084M	1117M	1161	1172M	1189	1193	
			1197	1198	1202	1205				
NEO	I //	000241	1071S							
NSHT	I //	000153	1071S	1109M	1119	1127				
PAUS	R EXTERNAL	000000	1203							

PTIT	J //	000062	1071S	1109M						
R	I //	000451	1071S							
REV	I //	000240	1071S							
SECOND	I //	000466	1071S							
SECT	J //	000145	1071S	1109M						
SHTN	I //	000236	1071S							
SYS	J //	000133	1071S	1109M						
TIMDAT	R EXTERNAL	000000	1134	1175						
TIT	J //	000010	1071S	1109M						
TTIT	J //	000467	1071S							
VEH	I //	000141	1071S	1109M	1110	1111	1112	1113		
VEH1	I	000021	1078S	1088M	1098	1100	1112	1113	1145	
			1151	1168	1169	1183	1205			
VEHND	R	000000	1070S							
VS	I	000023	1078S	1092M	1096M	1098	1099M	1100	1110	
			1111	1166	1167					
_1		000042	1086D	1088						
_10		000325	1101D	1108						
_100		000116	1090	1091D						
_1001		000603	1112	1113	1115D					
_1002		001222	1168	1169	1171D					
_101		000276	1092	1096	1097D					
_102		000177	1093	1094D						
_11		000331	1101	1102D						
_12		000450	1105	1106D						
_150		001030	1129	1151D						
_2		000047	1086	1087D						
_201		001057	1161	1162D						
_202		001044	1109	1161D						
_3		000104	1088	1089D						
_300		001120	1107	1165D	1166	1167	1170	1204		
_302		001436	1173	1188D						
_31		000637	1121	1129D						
_310		001465	1189	1190D	1197					
_311		001677	1200	1201D						
_320		001556	1193	1194D	1198					
_325		001560	1196	1199D						

_349	001335	1183	1184D				
_350	001615	1188	1197D				
_351	001375	1185	1186D				
_A	000465	1109D	1110	1111	1114	1155	1160
_400	001736	1165	1205D				
_402	001750	1205	1206D				
_8000	000765	1143	1144D				
_8001	001004	1145	1146D				
_8008	000736	1141	1142D	1182			
_998	000173	1093D	1096	1100			
_999	000112	1090D	1092	1098			

0000 ERRORS [ <VEHND >FTN-REV14.2 ]

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(1209) SUBROUTINE SECTN  
 (1210) C  
 (1210) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1210) C  
 (1210) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1210) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1210) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (1210) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1210) C  
 (1210) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1210) C  
 (1210) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1210) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1210) 1 IDR(4),KNT,TTIT(19)  
 (1210) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1210) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (1210) 1 FIRST,SECOND  
 (1210) C  
 (1210) C  
 (1211) C  
 (1212) C  
 (1213) C THIS ROUTINE LOCATES A DRAWING WITH A SPECIFIED  
 (1214) C SECTION  
 (1215) C  
 (1216) C INTEGER\*4 ISECT(3)  
 (1217) C INTEGER\*2 ARRAY(15)  
 (1218) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
 (1219) C IPAGE=0  
 (1220) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
 (1221) C ILINE=0  
 (1222) C INITIALIZE THE FOUND COUNTER  
 (1223) C KNT=0  
 (1224) 3 WRITE(1,1)  
 (1225) 1 FORMAT(' WHAT IS THE DESIRED SECTION?')  
 (1226) 1 READ(1,2,ERR=3)ISECT  
 (1227) 2 FORMAT(3A4)  
 (1228) 1 WRITE(1,2)ISECT  
 (1229) 100 READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

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10501



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1000

```
(1230)      DO 1000 I=1,3
(1231)      IF(ISECT(I).NE.SECT(I)) GO TO 100
(1232) 1000 CONTINUE
(1233) C      INCREMENT THE FOUND COUNTER
(1234)      KNT=KNT+1
(1235) C      INCREMENT LINE COUNTER FOR NEXT RECORD
(1236)      ILINE=ILINE+FNEO+NSHT+3
(1237) C      CHECK FOR BOTTOM OF PAGE
(1238)      IF(ILINE.LE.45) GOTO 31
(1239) C      SET TO TOP OF PRINTER PAGE FLAG
(1240)      IPAGE=0
(1241) C      SET LINE COUNTER BACK TO 0
(1242)      ILINE=0
(1243) C      INCREMENT LINE COUNTER FOR NEXT RECORD
(1244)      ILINE=FNEO+NSHT+3
(1245) C      IS A HEADER REQUIRED NOW
(1246) 31    IF(IPAGE.NE.0) GOTO 150
(1247) C      INCREMENT LINE COUNTER FOR HEADER
(1248)      ILINE=ILINE+12
(1249) C      PRINT HEADER ON PRINTER OUTPUT
(1250) C      FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(1251)      CALL TIMDAT(ARRAY,15)
(1252)      AMIN=ARRAY(4)
(1253)      AH=AMIN/60.0
(1254)      IH=AH
(1255)      IMM=IH*60
(1256)      IMIN=AMIN
(1257)      IDM=IMIN-IMM
(1258)      WRITE(7,8008)IH, IDM, (ARRAY(I), I=1,3)
(1259) 8008  FORMAT(*1*,100X,I3,*:*,I3,4X,2(A2,*/*),A2)
(1260)      WRITE(7,8000)
(1261) 8000  FORMAT(3X,120(* **))
(1262)      WRITE(7,8001)ISECT
(1263) 8001  FORMAT(45X,* SECTION SEARCH : *,3A4)
(1264)      CALL HEADER
(1265) C      SET HEADER DONE FLAG
(1266)      IPAGE=1
(1267) C      DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
```

```
(1268) 150 CALL DMAIN
(1269) C INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1270) ILINE=ILINE+INEO
(1271) C IS THE PRINTER AT BOTTOM OF PAGE
(1272) IF(ILINE.LE.45) GOTO 100
(1273) C SET TO TOP OF PRINTER PAGE FLAG
(1274) IPAGE=0
(1275) C RESET THE LINE COUNTER TO 0
(1276) ILINE=0
(1277) GO TO 100
(1278) 200 WRITE(1,250)KNT,ISECT
(1279) 250 FORMAT(' THERE ARE ',I9,' DRAWINGS RELATED TO SECTION',/,
(1280) 11X,3A4)
(1281) RETURN
(1282) END
```

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5103

AH R 000526 1253M 1254  
 AMIN R 000530 1252M 1253 1256  
 ARRAY I 000002 1217S 1251A 1252 1258  
 MAIN R EXTERNAL 000000 1268  
 DRAW J // 000000 1210S 1229M  
 DRW J // 000226 1210S  
 CT I // 000130 1210S 1229M  
 EDT I // 000437 1210S  
 EON J // 000312 1210S  
 EOREF J // 000242 1210S  
 EOREV I // 000436 1210S  
 EOVH I // 000445 1210S  
 EPTIT J // 000370 1210S  
 ERDT I // 000442 1210S  
 ETIT J // 000316 1210S  
 FEOREF J // 000156 1210S 1229M  
 FIRST I // 000465 1210S  
 FNEO I // 000155 1210S 1229M 1236 1244  
 FREV I // 000154 1210S 1229M  
 HEADER R EXTERNAL 000000 1264  
 I I 000532 1230M 1231 1258M  
 IDM I 000534 1257M 1258  
 IDR J // 000452 1210S  
 IH I 000535 1254M 1255 1258  
 ILINE I 000536 1221M 1236M 1238 1242M 1244M 1248M 1270M  
 1272 1276M  
 IMIN I 000537 1256M 1257  
 IMM I 000540 1255M 1257  
 INEO I // 000462 1210S 1270  
 IPAGE I 000541 1219M 1240M 1246 1266M 1274M  
 ISECT J 000021 1216S 1226M 1228 1231 1262 1278  
 KNT J // 000463 1210S 1223M 1234M 1278  
 NEO I // 000241 1210S  
 NSHT I // 000153 1210S 1229M 1236 1244  
 PTIT J // 000062 1210S 1229M  
 R I // 000451 1210S  
 REV I // 000240 1210S  
 SECOND I // 000466 1210S

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 50

SUBROUTINE SECTN

PAGE 0085

SECT	J //	000145	1210S	1229M	1231	
SECTN	R	000000	1209S			
SMTN	I //	000236	1210S			
SYS	J //	000133	1210S	1229M		
TIMDAT	R EXTERNAL	000000	1251			
TIT	J //	000010	1210S	1229M		
TTIT	J //	000467	1210S			
VEH	I //	000141	1210S	1229M		
_1		000046	1224	1225D		
_100		000114	1229D	1231	1272	1277
_1000		000205	1230	1232D		
_150		000434	1246	1268D		
_2		000101	1226	1227D	1228	
_200		000451	1229	1278D		
_250		000464	127E	1279D		
_3		000041	1224D	1226		
_31		000245	1238	1246D		
_8000		000370	1260	1261D		
_8001		000407	1262	1263D		
_8008		000341	1258	1259D		

0000 ERRORS [ <SECTN >FTN-REV14.2 ]

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(1283) SUBROUTINE CODE  
 (1284) C  
 (1284) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1284) C  
 (1284) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1284) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1284) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (1284) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1284) C  
 (1284) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1284) C  
 (1284) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1284) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1284) 1 IDR(4),KNT,TTIT(19)  
 (1284) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1284) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (1284) 1 FIRST,SECOND  
 (1284) C  
 (1284) C  
 (1285) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1285) C NOLIST  
 (1286) C  
 (1287) C  
 (1283) C THIS ROUTINE LOCATES A DRAWING WITH A SPECIFIED  
 (1289) C VENDOR CODE  
 (1290) C  
 (1291) C INTEGER\*2 ICODE(2),COD(2),ARRAY(15)  
 (1292) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
 (1293) C IPAGE=0  
 (1294) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
 (1295) C ILINE=0  
 (1296) C INITIALIZE THE FOUND COUNTER  
 (1297) C KNT=0  
 (1298) C CALL SRCH\$(K\$RDWR+K\$NDAM,'T3 \*6,6,1,IC)  
 (1299) 3 WRITE(1,1)  
 (1300) 1 FORMAT(' WHAT IS THE DESIRED VENDOR CODE?')  
 (1301) 1 READ(1,2,ERR=3)ICODE  
 (1302) 2 FORMAT(1A2,1A1)

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04

(1303) WRITE(1,2)ICODE  
(1304) 100 READ(6,END=200)DRAW,TIT,PTIT,CT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF  
(1305) REWIND 10  
(1306) WRITE(10,5)DRAW(1)  
(1307) 5 FORMAT(1A4)  
(1308) REWIND 10  
(1309) READ(10,2)COD  
(1310) IF(ICODE(1).EQ.\*23\*) GOTO 30  
(1311) DO 20 I=1,2  
(1312) IF(ICODE(I).NE.COD(I)) GOTO 100  
(1313) 20 CONTINUE  
(1314) GO TO 40  
(1315) 30 IF(ICODE(1).NE.COD(1)) GOTO 100  
(1316) C INCREMENT THE FOUND COUNTER  
(1317) 40 KNT=KNT+1  
(1318) C INCREMENT LINE COUNTER FOR NEXT RECORD  
(1319) ILINE=ILINE+FNEO+NSHT+3  
(1320) C CHECK FOR BOTTOM OF PAGE  
(1321) IF(ILINE.LE.45) GOTO 31  
(1322) C SET TO TOP OF PRINTER PAGE FLAG  
(1323) IPAGE=0  
(1324) C SET LINE COUNTER BACK TO 0  
(1325) ILINE=0  
(1326) C INCREMENT LINE COUNTER FOR NEXT RECORD  
(1327) ILINE=FNEG+NSHT+3  
(1328) C IS A HEADER REQUIRED NOW  
(1329) 31 IF(IPAGE.NE.0) GOTO 150  
(1330) C INCREMENT LINE COUNTER FOR HEADER  
(1331) ILINE=ILINE+12  
(1332) C PRINT HEADER ON PRINTER OUTPUT  
(1333) C FETCH AND WRITE TIME AND DATE TO OUTPUT FILE  
(1334) CALL TIMEAT(ARRAY,15)  
(1335) AMIN=ARRAY(4)  
(1336) AH=AMIN/60.0  
(1337) IH=AH  
(1338) IMM=IH\*60  
(1339) IMIN=AMIN  
(1340) IDM=IMIN-IMM

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```
(1341) WRITE(7,8008)IH, IDM, (ARRAY(I), I=1,3)
(1342) 8008 FORMAT(*1*,100X,I3,*:* ,I3,4X,2(A2,*/*),A2)
(1343) WRITE(7,8000)
(1344) 8000 FORMAT(3X,120(***))
(1345) WRITE(7,8001) ICODE
(1346) 8001 FORMAT(45X,* VENDOR CODE SEARCH : *,1A2,A1)
(1347) CALL HEADER
(1348) C SET HEADER DONE FLAG
(1349) IPAGE=1
(1350) C DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(1351) 150 CALL DMAIN
(1352) C INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1353) ILINE=ILINE+INFO
(1354) C IS THE PRINTER AT BOTTOM OF PAGE
(1355) IF(ILINE.LE.45) GOTO 100
(1356) C SET TO TOP OF PRINTER PAGE FLAG
(1357) IPAGE=0
(1358) C RESET THE LINE COUNTER TO 0
(1359) ILINE=0
(1360) GO TO 100
(1361) 200 WRITE(1,250)KNT,ICODE
(1362) 250 FORMAT(* THERE ARE *,I9,* DRAWINGS WITH THE SPECIFIED */,
(1363) 1* VENDOR CODE *,1A2,1A1)
(1364) CALL SRCH$$ (K$CLOS,*T3 *,6,0,0,0)
(1365) CALL SRCH$$ (K$DELE,*T3 *,6,0,0,0)
(1366) RETURN
(1367) END
```





K\$CONV	I	PARAMETER	1285S	
K\$CURR	I	PARAMETER	1285S	
K\$DELE	I	PARAMETER	1285S	1365
K\$DMPB	I	PARAMETER	1285S	
K\$DTIM	I	PARAMETER	1285S	
K\$ENTR	I	000000	1285S	
K\$FXST	I	PARAMETER	1285S	
K\$GOND	I	PARAMETER	1285S	
K\$GPOS	I	PARAMETER	1285S	
K\$HOME	I	PARAMETER	1285S	
K\$ICUR	I	PARAMETER	1285S	
K\$IMFD	I	PARAMETER	1285S	
K\$IRTN	I	PARAMETER	1285S	
K\$ISEG	I	PARAMETER	1285S	
K\$IUFD	I	PARAMETER	1285S	
K\$MENT	I	000000	1285S	
K\$MSIZ	I	PARAMETER	1285S	
K\$MVNT	I	PARAMETER	1285S	
K\$NDAM	I	PARAMETER	1285S	1298
K\$NRTN	I	PARAMETER	1285S	
K\$NSAM	I	PARAMETER	1285S	
K\$NSGD	I	PARAMETER	1285S	
K\$NSGS	I	PARAMETER	1285S	
K\$POSA	I	PARAMETER	1285S	
K\$POSN	I	PARAMETER	1285S	
K\$POSR	I	PARAMETER	1285S	
K\$PREA	I	PARAMETER	1285S	
K\$PRER	I	PARAMETER	1285S	
K\$PROT	I	PARAMETER	1285S	
K\$RDWR	I	PARAMETER	1285S	1298
K\$READ	I	PARAMETER	1285S	
K\$RPOS	I	PARAMETER	1285S	
K\$RSUB	I	PARAMETER	1285S	
K\$RWLK	I	PARAMETER	1285S	
K\$SENT	I	000000	1285S	
K\$SETC	I	PARAMETER	1285S	
K\$SETH	I	PARAMETER	1285S	
K\$SPOS	I	PARAMETER	1285S	

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SUBROUTINE CODE

PAGE 0091

K\$SRTN	I	PARAMETER	1285S				
K\$TRNC	I	PARAMETER	1285S				
K\$UPOS	I	PARAMETER	1285S				
K\$WRIT	I	PARAMETER	1285S				
KNT	J	//	000463	1284S	1297M	1317M	1361
NEO	I	//	000241	1284S			
NSHT	I	//	000153	1284S	1304M	1319	1327
PTIT	J	//	000062	1284S	1304M		
R	I	//	000451	1284S			
REV	I	//	000240	1284S			
SECOND	I	//	000466	1284S			
SECT	J	//	000145	1284S	1304M		
SHTN	I	//	000236	1284S			
SRCH\$	R	EXTERNAL	000000	1298	1364	1365	
SYS	J	//	000133	1284S	1304M		
TIMDAT	R	EXTERNAL	000000	1334			
TIT	J	//	000010	1284S	1304M		
TTIT	J	//	000467	1284S			
VEH	I	//	000141	1284S	1304M		
_1			000054	1299	1300D		
_100			000126	1304D	1312	1315	1355 1360
_150			000501	1329	1351D		
_2			000111	1301	1302D	1303	1309
_20			000241	1311	1313D		
_200			000516	1304	1361D		
_250			000531	1361	1362D		
_3			000047	1299D	1301		
_30			000250	1310	1315D		
_31			000306	1321	1329D		
_40			000254	1314	1317D		
_5			000207	1306	1307D		
_8000			000431	1343	1344D		
_8001			000450	1345	1346D		
_8008			000402	1341	1342D		

0000 ERRORS [<CODE >FTN-REV14.2]

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115 1511

(1368) SUBROUTINE DATDW  
(1369) C  
(1369) C COMMON BLOCK FOR THE DRAW-EO FILE  
(1369) C  
(1369) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(1369) 1 DRW,SHTN,REV,NEO,EOREF,  
(1369) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
(1369) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(1369) C  
(1369) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(1369) C  
(1369) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(1369) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(1369) 1 IDR(4),KNT,TTIT(19)  
(1369) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(1369) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(1369) 1 FIRST,SECOND  
(1369) C  
(1369) C  
(1370) C  
(1371) C  
(1372) C THIS ROUTINE LOCATED ALL DRAWINGS WITH A SPECIFIED DATE  
(1373) C  
(1374) INTEGER\*2 D(3),ARRAY(15)  
(1375) C INITIALIZE THE TCP OF PRINTER PAGE FLAG  
(1376) IPAGE=0  
(1377) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
(1378) ILINE=0  
(1379) C INITIALIZE THE FOUND COUNTER  
(1380) KNT=0  
(1381) 20 WRITE(1,21)  
(1382) 21 FORMAT(' WHAT IS THE DATE THAT YOU WANT',/,,'!MMDDYY!'/)  
(1383) READ(1,22,ERR=20)D  
(1384) 22 FORMAT(1X,3I2)  
(1385) 100 READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF  
(1386) IF(D(1).EQ.0) GO TO 110  
(1387) IF(D(1).NE.DT(1)) GO TO 100  
(1388) 110 IF(D(2).EQ.0) GO TO 120

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5/12

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15/5/74

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(1389)      IF(D(2).NE.DT(2)) GO TO 100
(1390) 120  IF(D(3).EQ.0) GO TO 130
(1391)      IF(D(3).NE.DT(3)) GO TO 100
(1392) 130  CONTINUE
(1393) C    INCREMENT THE FOUND COUNTER
(1394)      KNT=KNT+1
(1395) C    INCREMENT LINE COUNTER FOR NEXT RECORD
(1396)      ILINE=ILINE+FNEO+NSHT+3
(1397) C    CHECK FOR BOTTOM OF PAGE
(1398)      IF(ILINE.LE.45) GOTO 31
(1399) C    SET TO TOP OF PRINTER PAGE FLAG
(1400)      IPAGE=0
(1401) C    SET LINE COUNTER BACK TO 0
(1402)      ILINE=0
(1403) C    INCREMENT LINE COUNTER FOR NEXT RECORD
(1404)      ILINE=FNEO+NSHT+3
(1405) C    IS A HEADER REQUIRED NOW
(1406) 31  IF(IPAGE.NE.0) GOTO 150
(1407) C    INCREMENT LINE COUNTER FOR HEADER
(1408)      ILINE=ILINE+12
(1409) C    PRINT HEADER ON PRINTER OUTPUT
(1410) C    FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(1411)      CALL TIMDAT(ARRAY,15)
(1412)      AMIN=ARRAY(4)
(1413)      AH=AMIN/60.0
(1414)      IH=AH
(1415)      IMM=IH*60
(1416)      IMIN=AMIN
(1417)      IDM=IMIN-IMM
(1418)      WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
(1419) 8008  FORMAT('1',100X,I3,' ':',I3,4X,2(A2,'/'),A2)
(1420)      WRITE(7,8000)
(1421) 8000  FORMAT(3X,120('**'))
(1422)      WRITE(7,8001)D
(1423) 8001  FORMAT(45X,' DRAWING DATE SEARCH : ',2(I2,'-'),I2)
(1424)      CALL HEADER
(1425) C    SET HEADER DONE FLAG
(1426)      IPAGE=1
```

```
(1427) C      DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
(1428) 150    CALL DMAIN
(1429) C      INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1430)      ILINE=ILINE+INEO
(1431) C      IS THE PRINTER AT BOTTOM OF PAGE
(1432)      IF(ILINE.LE.45) GOTO 100
(1433) C      SET TO TOP OF PRINTER PAGE FLAG
(1434)      IPAGE=0
(1435) C      RESET THE LINE COUNTER TO 0
(1436)      ILINE=0
(1437)      GO TO 100
(1438) 200    WRITE(1,250)KNT,D
(1439) 250    FORMAT(' THERE ARE *I9* DRAWINGS WITH A DATE OF *2(I2*-*),I2)
(1440)      RETURN
(1441)      END
```

AH	R	000530	1413M	1414					
AMIN	R	000532	1412M	1413	1416				
ARRAY	I	000002	1374S	1411A	1412	1418			
D	I	000021	1374S	1383M	1386	1387	1388	1389	1390
			1391	1422	1438				
DATDW	R	000000	1368S						
DMAIN	R EXTERNAL	000000	1428						
DRAW	J //	000000	1369S	1385M					
DRW	J //	000226	1369S						
DT	I //	000130	1369S	1385M	1387	1389	1391		
EDT	I //	000437	1369S						
EON	J //	000312	1369S						
EORIF	J //	000242	1369S						
EGREV	I //	000436	1369S						
EOVEH	I //	000445	1369S						
EPTIT	J //	000370	1369S						
ERDT	I //	000442	1369S						
ETIT	J //	000316	1369S						
FEOREF	J //	000156	1369S	1385M					
FIRST	I //	000465	1369S						
FNEO	I //	000155	1369S	1385M	1396	1404			
FREV	I //	000154	1369S	1385M					
HEADER	R EXTERNAL	000000	1424						
I	I	000534	1418M						
IDM	I	000535	1417M	1418					
IDR	J //	000452	1369S						
IM	I	000536	1414M	1415	1418				
ILINE	I	000537	1378M	1396M	1398	1402M	1404M	1408M	1430M
			1432	1436M					
IMIN	I	000540	1416M	1417					
IMM	I	000541	1415M	1417					
INEO	I //	000462	1369S	1430					
IPAGE	I	000542	1376M	1400M	1406	1426M	1434M		
KNT	J //	000463	1369S	1380M	1394M	1438			
NEO	I //	000241	1369S						
NSHT	I //	000153	1369S	1385M	1396	1404			
PTIT	J //	000062	1369S	1385M					
R	I //	000451	1369S						

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REV	I //	000240	1369S						
SECOND	I //	000466	1369S						
SECT	J //	000145	1369S	1385M					
SHTN	I //	000236	1369S						
SYS	J //	000133	1369S	1385M					
TIMDAT	R EXTERNAL	000000	1411						
TIT	J //	000010	1369S	1385M					
TTIT	J //	000467	1369S						
VEH	I //	000141	1369S	1385M					
_100		000113	1385D	1387	1389	1391	1432	1437	
_110		000171	1386	1388D					
_120		000200	1388	1390D					
_130		000207	1390	1392D					
_150		000440	1406	1428D					
_20		000036	1381D	1383					
_200		000455	1385	1438D					
_21		000043	1381	1382D					
_22		000106	1383	1384D					
_250		000470	1438	1439D					
_31		000241	1398	1406D					
_8000		000365	1420	1421D					
_8001		000404	1422	1423D					
_8008		000336	1419	1419D					

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0000 ERRORS [ <DATDW >FTN-REV14.2 ]

815  
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```
(1442) SUBROUTINE SYSDW
(1443) C
(1443) C COMMON BLOCK FOR THE DRAW-EO FILE
(1443) C
(1443) COMMON DRAW,TIT,PTIT,DT,SY,VEH,SECT,NSHT,FREV,FNEO,FEOREF,
(1443) 1 DRW,SHTN,REV,NEO,EOREF,
(1443) 1 FON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,
(1443) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT
(1443) C
(1443) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE
(1443) C
(1443) INTEGER*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),
(1443) 1 DRW(4),COREF(10,2),EPTIT(19),ETIT(21),EON(2),
(1443) 1 IDR(4),KNT,TTIT(19)
(1443) INTEGER*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,
(1443) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,
(1443) 1 FIRST,SECOND
(1443) C
(1443) C
(1444) C
(1445) C
(1446) C THIS ROUTINE LOCATES ALL DRAWINGS WITH A SPECIFIED SYSTEM
(1447) C
(1448) INTEGER*4 DS
(1449) INTEGER*2 ARRAY(15)
(1450) C INITIALIZE THE TOP OF PRINTER PAGE FLAG
(1451) IPAGE=0
(1452) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT
(1453) ILINE=0
(1454) C INITIALIZE THE FOUND COUNTER
(1455) KNT=0
(1456) 3 WRITE(1,1)
(1457) 1 FORMAT(* WHAT IS THE DESIRED SYSTEM*)
(1458) READ(1,2,ERR=3)DS
(1459) 2 FORMAT(3A4)
(1460) 100 READ(6,END=200)DRAW,TIT,PTIT,DT,SY,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(1461) DO 150 I=1,3
(1462) IF(DS.EQ.SYS(I)) GO TO 175
```



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59

```
(1463) 150 CONTINUE
(1464) GO TO 100
(1465) 175 CONTINUE
(1466) C INCREMENT THE FOUND COUNTER
(1467) KNT=KNT+1
(1468) C INCREMENT LINE COUNTER FOR NEXT RECORD
(1469) ILINE=ILINE+FNEO+NSHT+3
(1470) C CHECK FOR BOTTOM OF PAGE
(1471) IF(ILINE.LF.45) GOTO 31
(1472) C SET TO TOP OF PRINTER PAGE FLAG
(1473) IPAGE=0
(1474) C SET LINE COUNTER BACK TO 0
(1475) ILINE=0
(1476) C INCREMENT LINE COUNTER FOR NEXT RECORD
(1477) ILINE=FNEO+NSHT+3
(1478) C IS A HEADER REQUIRED NOW
(1479) 31 IF(IPAGE.NE.0) GOTO 190
(1480) C INCREMENT LINE COUNTER FOR HEADER
(1481) ILINE=ILINE+12
(1482) C PRINT HEADER ON PRINTER OUTPUT
(1483) C FETCH AND WRITE TIME AND DATE TO OUTPUT FILE
(1484) CALL TIMDAT(ARRAY,15)
(1485) AMIN=ARRAY(4)
(1486) AH=AMIN/60.0
(1487) IH=AH
(1488) IMM=IH*60
(1489) IMIN=AMIN
(1490) IDM=IMIN-IMM
(1491) WRITE(7,8008)IH, IDM,(ARRAY(I),I=1,3)
(1492) 8008 FORMAT('1',100X,I3,' ':',I3,4X,2(A2,'/'),A2)
(1493) WRITE(7,8000)
(1494) 8000 FORMAT(3X,120('**'))
(1495) WRITE(7,8001)DS
(1496) 8001 FORMAT(45X,' SYSTEM SEARCH : ',3A4)
(1497) CALL HEADER
(1498) C SET HEADER DONE FLAG
(1499) IPAGE=1
(1500) C DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT
```

```
(1501) 190 CALL DMAIN
(1502) C INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1503) ILINE=ILINE+INEO
(1504) C IS THE PRINTER AT BOTTOM OF PAGE
(1505) IF(IILINE.LE.45) GOTO 100
(1506) C SET TO TOP OF PRINTER PAGE FLAG
(1507) IPAGE=0
(1508) C RESET THE LINE COUNTER TO 0
(1509) ILINE=0
(1510) GO TO 100
(1511) 200 WRITE(1,250)KNT,DS
(1512) 250 FORMAT(' THERE ARE 'I9' DRAWINGS WITH A SYSTEM OF '3A4)
(1513) RETURN
(1514) END
```

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AH	R	000502	1486M	1487					
AMIN	R	000504	1485M	1486	1489				
ARRAY	I	000002	1449S	1484A	1485	1491			
DMAIN	R EXTERNAL	000000	1501						
DRAW	J //	000000	1443S	1460M					
DRW	J //	000226	1443S						
DS	J	000506	1448S	1458M	1462	1495	1511		
DT	I //	000130	1443S	1460M					
EDT	I //	000437	1443S						
ECN	J //	000312	1443S						
EOREF	J //	000242	1443S						
EOREV	I //	000436	1443S						
EGVEH	I //	000445	1443S						
EPTIT	J //	000370	1443S						
ERDT	I //	000442	1443S						
ETIT	J //	000316	1443S						
FEOREF	J //	000156	1443S	1460M					
FIRST	I //	000465	1443S						
FNEO	I //	000155	1443S	1460M	1469	1477			
FREV	I //	000154	1443S	1460M					
HEADER	R EXTERNAL	000000	1497						
I	I	000510	1461M	1462	1491M				
IDM	I	000511	1490M	1491					
IDR	J //	000452	1443S						
IH	I	000512	1487M	1488	1491				
ILINE	I	000513	1453M	1469M	1471	1475M	1477M	1481M	1503M
			1505	1509M					
IMIN	I	000514	1489M	1490					
IMM	I	000515	1488M	1490					
INEO	I //	000462	1443S	1503					
IPAGE	I	000516	1451M	1473M	1479	1499M	1507M		
KNT	J //	000463	1443S	1455M	1467M	1511			
NEO	I //	000241	1443S						
NSHT	I //	000153	1443S	1460M	1469	1477			
PTIT	J //	000062	1443S	1460M					
R	I //	000451	1443S						
REV	I //	000240	1443S						
SECOND	I //	000466	1443S						

SUBROUTINE SYSOW

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SECT	J //	000145	1443S	1460M		
SHTN	I //	000236	1443S			
SYS	J //	000133	1443S	1460M	1462	
SYSOW	R	000000	1442S			
TIMDAT	R EXTERNAL	000000	1484			
TIT	J //	000010	1443S	1460M		
TTIT	J //	000467	1443S			
VEH	I //	000141	1443S	1460M		
_1		000040	1456	1457D		
_100		000076	1460D	1464	1505	1510
_150		000164	1461	1463D		
_175		000173	1462	1465D		
_190		000414	1479	1501D		
_2		000072	1458	1459D		
_200		000431	1460	1511D		
_250		000444	1511	1512D		
_3		000033	1456D	1458		
_31		000224	1471	1479D		
_8000		000347	1493	1494D		
_8001		000366	1495	1496D		
_8008		000320	1491	1492D		

0000 ERRORS [<SYSOW>FTN-REV14.2]

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(1515) SUBROUTINE DRAWN  
(1516) C  
(1516) C COMMON BLOCK FOR THE DRAW-EO FILE  
(1516) C  
(1516) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(1516) 1 DRW,SHTN,REV,NEO,EOREF,  
(1516) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
(1516) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(1516) C  
(1516) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(1516) C  
(1516) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(1516) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(1516) 1 IDR(4),KNT,TTIT(19)  
(1516) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(1516) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
(1516) 1 FIRST,SECOND  
(1516) C  
(1516) C  
(1517) C  
(1518) C  
(1519) C THIS ROUTINE LOCATES A DRAWING WITH A SPECIFIED  
(1520) C DRAW-EO NUMBER  
(1521) C  
(1522) C INTEGER\*4 IDRAW(4)  
(1523) C INTEGER\*2 ARRAY(15)  
(1524) C INITIALIZE THE TOP OF PRINTER PAGE FLAG  
(1525) C IPAGE=0  
(1526) C INITIALIZE THE LINE COUNTER FOR PRINTER OUTPUT  
(1527) C ILINE=0  
(1528) C INITIALIZE THE FOUND COUNTER  
(1529) C KNT=0  
(1530) 3 WRITE(1,1)  
(1531) 1 FORMAT(' WHAT IS THE DESIRED DRAWING NUMBER?/')  
(1532) 1 READ(1,2,ERR=3)IDRAW  
(1533) 2 FORMAT(3A4,A2)  
(1534) 1 WRITE(1,2)IDRAW  
(1535) 100 READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

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(1536) DO 1000 I=1,4  
(1537) IF(IDRAW(I).NE.DRAW(I)) GO TO 100  
(1538) 1000 CONTINUE  
(1539) C INCREMENT THE FOUND COUNTER  
(1540) KNT=KNT+1  
(1541) C INCREMENT LINE COUNTER FOR NEXT RECORD  
(1542) ILINE=ILINE+FNEO+NSHT+3  
(1543) C CHECK FOR BOTTOM OF PAGE  
(1544) IF(ILINE.LE.45) GOTO 31  
(1545) C SET TO TOP OF PRINTER PAGE FLAG  
(1546) IPAGE=0  
(1547) C SET LINE COUNTER BACK TO 0  
(1548) ILINE=0  
(1549) C INCREMENT LINE COUNTER FOR NEXT RECORD  
(1550) ILINE=FNEO+NSHT+3  
(1551) C IS A HEADER REQUIRED NOW  
(1552) 31 IF(IPAGE.NE.0) GOTO 150  
(1553) C INCREMENT LINE COUNTER FOR HEADER  
(1554) ILINE=ILINE+12  
(1555) C PRINT HEADER ON PRINTER OUTPUT  
(1556) C FETCH AND WRITE TIME AND DATE TO OUTPUT FILE  
(1557) CALL TIMDAT(ARRAY,15)  
(1558) AMIN=ARRAY(4)  
(1559) AH=AMIN/60.0  
(1560) IH=AH  
(1561) IMM=IH\*60  
(1562) IMIN=AMIN  
(1563) IDM=IMIN-IMM  
(1564) WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)  
(1565) 8008 FORMAT(\*1\*,100X,I3,\*,\*,I3,4X,2(A2,\*/\*),A2)  
(1566) WRITE(7,8000)  
(1567) 8000 FORMAT(3X,120(\*\*))  
(1568) WRITE(7,8001)IDRAW  
(1569) 8001 FORMAT(45X,\* DRAWING NUMBER SEARCH : \*,3A4,A2)  
(1570) CALL HEADER  
(1571) C SET HEADER DONE FLAG  
(1572) IPAGE=1  
(1573) C DISPLAY AND PRINT DRAWING ON TERMINAL AND PRINTER OUTPUT

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```
(1574) 150  CALL DMAIN
(1575) C    INCREMENT LINE COUNTER FOR DRAWING RECORD PRINTED FOR OUTPUT
(1576)      ILINE=ILINE+INEO
(1577) C    IS THE PRINTER AT BOTTOM OF PAGE
(1578)      IF(ILINE.LE.45) GOTO 300
(1579) C    SET TO TOP OF PRINTER PAGE FLAG
(1580)      IPAGE=0
(1581) C    RESET THE LINE COUNTER TO 0
(1582)      ILINE=0
(1583)      GO TO 300
(1584) 200  WRITE(1,250)IDRAW
(1585) 250  FORMAT(* THERE IS NO DRAWING WITH NUMBER *3A4,A2,/,
(1586)      1 * IN THE DRAWING FILE*/)
(1587) 300  RETURN
(1588)      END
```

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525

AH	R	000546	1559M	1560					
AMIN	R	000550	1558M	1559	1562				
ARRAY	I	000002	1523S	1557A	1558	1564			
DMAIN	R EXTERNAL	000000	1574						
DRAW	J //	000000	1516S	1535M	1537				
DRAWN	R	000000	1515S						
DRW	J //	000226	1516S						
DT	I //	000130	1516S	1535M					
EDT	I //	000437	1516S						
EON	J //	000312	1516S						
EOREF	J //	000242	1516S						
EOREV	I //	000436	1516S						
EOVEH	I //	000445	1516S						
EPTIT	J //	000370	1516S						
ERDT	I //	000442	1516S						
ETIT	J //	000316	1516S						
FLORES	J //	000156	1516S	1535M					
FIRST	I //	000465	1516S						
FNEO	I //	000155	1516S	1535M	1542	1550			
FREV	I //	000154	1516S	1535M					
HEADER	R EXTERNAL	000000	1570						
I	I	000552	1536M	1537	1564M				
IOM	I	000554	1563M	1564					
IDR	J //	000452	1516S						
IDRAW	J	000021	1522S	1532M	1534	1537	1568	1584	
IH	I	000555	1560M	1561	1564				
ILINE	I	000556	1527M	1542M	1544	1548M	1550M	1554M	1576M
			1578	1582M					
IMIN	I	000557	1562M	1563					
IYM	I	000560	1561M	1563					
INEO	I //	000462	1516S	1576					
IPAGE	I	000561	1525M	1546M	1552	1572M	1580M		
KNT	J //	000463	1516S	1529M	1540M				
NEO	I //	000241	1516S						
NSHT	I //	000153	1516S	1535M	1542	1550			
PTIT	J //	000052	1516S	1535M					
R	I //	000451	1516S						
REV	I //	000240	1516S						

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SECOND	I //	000466	1516S	
SECT	J //	000145	1516S	1535M
SHTN	I //	000236	1516S	
SYS	J //	000133	1516S	1535M
TIMDAT	R EXTERNAL	000000	1557	
TIT	J //	000010	1516S	1535M
TTIT	J //	000467	1516S	
VEH	I //	000141	1516S	1535M

_1		000050	1530	1531D	
_100		000122	1535D	1537	
_1000		000213	1536	1538D	
_150		000451	1552	1574D	
_2		000106	1532	1533D	1534
_200		000466	1535	1584D	
_250		000476	1554	1585D	
_3		000043	1530E	1532	
_300		000542	1578	1583	1587D
_31		000254	1544	1552D	
_8000		000377	1565	1567D	
_8001		000416	1568	1569D	
_8008		000350	1564	1565D	

0000 ERRORS [DRAWN &gt;FTN-REV14.2]

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(1589) SUBROUTINE REVSOW  
 (1590) C  
 (1590) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1590) C  
 (1590) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1590) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1590) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (1590) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1590) C  
 (1590) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1590) C  
 (1590) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1590) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1590) 1 IDR(4),KNT,TTIT(19)  
 (1590) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1590) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (1590) 1 FIRST,SECOND  
 (1590) C  
 (1590) C  
 (1591) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (1591) C  
 (1592) C NOLIST  
 (1593) C  
 (1593) INTEGER\*4 IDRAW(4),IEO(2)  
 (1594) INTEGER\*2 IOPT,FINISH,A(15)  
 (1595) C  
 (1596) C THIS IS THE REVISE ROUTINE FOR THE DRAW-EO FILE  
 (1597) C  
 (1598) C VALIDATE USER  
 (1599) CALL TIMDAT(A,15)  
 (1600) IF(A(13).EQ.\*JW\*.OR.A(13).EQ.\*NH\*.OR.A(13).EQ.\*RJ\*.OR.A(13).EQ.  
 (1601) 1\*DK\*) GOTO 3  
 (1602) WRITE(1,4)  
 (1603) 4 FORMAT(' SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.',/,  
 (1604) 1' IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT.2621  
 (1605) 1.')
 (1606) RETURN  
 (1607) 3 CONTINUE  
 (1608) CALL SRCH\$(K\$RDWR+K\$NDAM,\*REVS \*,6,4,1,IC)

6011-0

```
(1609)      IF(IC.NE.0) GOTO 3000
(1610)      FINISH=0
(1611) 300  WRITE(1,301)
(1612) 301  FORMAT(* DO YOU WISH THE E.O. OR THE DRAWING FILE (EO OR DRAW)**
(1613)      READ(1,302) IANS
(1614) 302  FORMAT(1A1)
(1615)      IF(IANS.EQ.*E*) GOTO 31
(1616)      IF(IANS.NE.*D*) GOTO 300
(1617)      5  WRITE(1,1)
(1618)      1  FORMAT(* PLEASE INPUT THE SPO DRAWING NUMBER OF THE *,/
(1619) 1* RECORD TO BE REVISED*,/,*!* ,14X,*!*)
(1620)      READ(1,2,ERR=5) IDRAW
(1621)      2  FORMAT(1X,3A4,A2)
(1622)      REWIND 6
(1623) 100  READ(6,END=200) DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(1624)      IF(FINISH.EQ.1) GOTO 125
(1625)      DO 110 I=1,4
(1626)      IF(IDRAW(I).NE.DRAW(I)) GO TO 125
(1627) 110  CONTINUE
(1628)      CALL SHOWDW
(1629)      WRITE(1,1700)
(1630) 1700 FORMAT(/,1H0,/,*,* IS THIS THE CORRECT RECORD TO BE REVISED OR DELET
(1631) 1ED*,/,* (YES OR NO)**
(1632) 1800 READ(1,50) IOPT
(1633)      50  FORMAT(1A2)
(1634)      IF(IOPT.EQ.*NO*) GOTO 125
(1635)      IF(IOPT.NE.*YE*) GOTO 1700
(1636) 1900 WRITE(1,2000)
(1637) 2000 FORMAT(* IS THIS RECORD TO BE REVISED OR DELETED*,/,
(1638) 1 * (REV OR DEL)*
(1639)      READ(1,50) IOPT
(1640)      IF(IOPT.EQ.*RE*) GOTO 120
(1641)      IF(IOPT.VE.*DE*) GOTO 1900
(1642)      FINISH=1
(1643)      GOTO 100
(1644) 120  R=1
(1645)      CALL INPSDW
(1646) 119  WRITE(1,122)
```

(1647) READ(1,50)IOPT  
(1648) IF(IOPT.EQ.'RE') GOTO 120  
(1649) IF(IOPT.NE.'CO') GOTO 119  
(1650) FINISH=1  
(1651) 125 WRITE(6)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF  
(1652) GO TO 100  
(1653) 200 ENDFILE 8  
(1654) CALL SRCH\$\$ (K\$CLOS,'DRAW ',6,0,0,0)  
(1655) CALL SRCH\$\$ (K\$DELE,'DRAW ',6,0,0,0)  
(1656) CALL CNAM\$\$ ('REVS ',6,'DRAW ',6,IC)  
(1657) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'DRAW ',6,2,1,IC)  
(1658) RETURN  
(1659) 3000 WRITE(1,3001)  
(1660) 3001 FORMAT(1X,'SORRY, FILE IS IN USE. TRY AGAIN LATER.')(1661) RETURN  
(1662) C  
(1663) C BEGIN THE E.O. SUBFILE REVISION ROUTINE  
(1664) C  
(1665) 31 WRITE(1,11)  
(1666) 11 FORMAT(' PLEASE INPUT THE SPO EO NUMBER OF THE ',/  
(1667) 1' RECORD TO BE REVISED'/)  
(1668) READ(1,21,ERR=31)IEO  
(1669) 21 FORMAT(1A4,1A2)  
(1670) REWIND 18  
(1671) 101 READ(18,END=201)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(1672) IF(FINISH.EQ.1) GOTO 126  
(1673) DO 111 I=1,2  
(1674) IF(IEO(I).NE.EON(I)) GO TO 126  
(1675) 111 CONTINUE  
(1676) CALL SHOWEO  
(1677) WRITE(1,1700)  
(1678) 1801 READ(1,50)IOPT  
(1679) IF(IOPT.EQ.'NO') GOTO 126  
(1680) IF(IOPT.NE.'YE') GOTO 1801  
(1681) 1901 WRITE(1,2000)  
(1682) READ(1,50) IOPT  
(1683) IF(IOPT.EQ.'RE') GOTO 121  
(1684) IF(IOPT.NE.'DE') GOTO 1901

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(1685) FINISH=1  
(1686) GOTO 101  
(1687) 121 R=1  
(1688) CALL INPSE  
(1689) FINISH=1  
(1690) 123 WRITE(1,122)  
(1691) 122 FORMAT(1H0,/,1X, 'CHECK RECORD: IF CORRECT, '  
(1692) 1\* ENTER (CO)',/,16X, 'IF REVISE NEEDED, ENTER (RE)')  
(1693) READ(1,50)IOPT  
(1694) IF(IOPT.EQ.'RE') GOTO 121  
(1695) IF(IOPT.NE.'CO') GOTO 123  
(1696) 126 WRITE(8)EON,ETIT,EPTIT,EOREV,EDT,ERDT,E0VEH  
(1697) GO TO 101  
(1698) 201 ENDFILE 2  
(1699) CALL SRCH\$\$ (K\$CLOS,'EO',6,0,0,0)  
(1700) CALL SRCH\$\$ (K\$DELE,'EO',6,0,0,0)  
(1701) CALL CNAM\$\$ ('REVS',6,'EO',6,IC)  
(1702) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,'EO',6,14,1,IC)  
(1703) C  
(1704) C  
(1705) C  
(1706) RETURN  
(1707) END

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A I 000002 1594S 1599A 1600  
 C-VAMSS R EXTERNAL 000000 1656 1701  
 DRAH J // 000000 1590S 1623M 1626 1651  
 DR2 J // 000226 1590S  
 DT I // 000130 1590S 1623M 1651  
 EDT I // 000437 1590S 1671M 1696  
 EON J // 000312 1590S 1671M 1674 1696  
 EOREF J // 000242 1590S  
 EOREV I // 000436 1590S 1671M 1696  
 EOVEH I // 000445 1590S 1671M 1696  
 EPTIT J // 000370 1590S 1671M 1696  
 ERNT I // 000442 1590S 1671M 1696  
 ETIT J // 000316 1590S 1671M 1696  
 FEGREF J // 000156 1590S 1623M 1651  
 FINISH I 001561 1594S 1610M 1624 1642M 1650M 1672 1685M  
 1689M  
 FTRST I // 000465 1590S  
 FHEO I // 000155 1590S 1623M 1651  
 FREV I // 000154 1590S 1623M 1651  
 I I 001562 1625M 1626 1673M 1674  
 IANS I 001564 1613M 1615 1616  
 IC I 001565 1608A 1609 1656A 1657A 1701A 1702A  
 IOR J // 000452 1590S  
 ICRAW J 000021 1593S 1620M 1626  
 IEO J 000031 1593S 1668M 1674  
 INEG I // 000452 1590S  
 JNPSDW I EXTERNAL 000000 1645  
 JNPSE I EXTERNAL 000000 1688  
 IPT I 001566 1594S 1632M 1634 1635 1639M 1640 1641  
 1647M 1648 1649 1678M 1679 1680 1682M  
 1683 1684 1693M 1694 1695  
 K\$ALLD I PARAMETER 1591S  
 K\$CACC I PARAMETER 1591S  
 K\$CLOS I PARAMETER 1591S 1654 1699  
 K\$CCNV I PARAMETER 1591S  
 K\$CURR I PARAMETER 1591S  
 K\$DLE I PARAMETER 1591S 1655 1700  
 K\$DIPB I PARAMETER 1591S

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KSDTIM	I	PARAMETER				1591S
KSENTR	I		000000			1591S
KSEXST	I	PARAMETER				1591S
KSGOND	I	PARAMETER				1591S
KSGPOS	I	PARAMETER				1591S
KSHOME	I	PARAMETER				1591S
KSICUR	I	PARAMETER				1591S
KSIMFD	I	PARAMETER				1591S
KSIRTN	I	PARAMETER				1591S
KSISFG	I	PARAMETER				1591S
KSIUFD	I	PARAMETER				1591S
KSMENT	I		000000			1591S
KMSIZ	I	PARAMETER				1591S
KSMVNT	I	PARAMETER				1591S
KNDAM	I	PARAMETER		1608	1657	1702
KSNRTN	I	PARAMETER				1591S
KNSAM	I	PARAMETER				1591S
KNSGD	I	PARAMETER				1591S
KNSGS	I	PARAMETER				1591S
KPOSA	I	PARAMETER				1591S
KPOSN	I	PARAMETER				1591S
KPOSR	I	PARAMETER				1591S
KSPREA	I	PARAMETER				1591S
KSPRER	I	PARAMETER				1591S
KSPROT	I	PARAMETER				1591S
KSRDWR	I	PARAMETER		1608	1657	1702
KSRCAD	I	PARAMETER				1591S
KSRPOS	I	PARAMETER				1591S
KRSUB	I	PARAMETER				1591S
KRWLK	I	PARAMETER				1591S
KSENT	I		000000			1591S
KSETC	I	PARAMETER				1591S
KSETH	I	PARAMETER				1591S
KSPUS	I	PARAMETER				1591S
KSNRTN	I	PARAMETER				1591S
KSYRNC	I	PARAMETER				1591S
KSUPDS	I	PARAMETER				1591S
KSHRT	I	PARAMETER				1591S

KNT	J //	000463	1590S						
NEO	I //	000241	1590S						
NSHT	I //	000153	1590S	1623M	1651				
PTIT	J //	000062	1590S	1623M	1651				
R	I //	000451	1590S	1644M	1687M				
REV	I //	000240	1590S						
REVSDW	R	000000	1589S						
SECCNO	I //	000466	1590S						
SECT	J //	000145	1590S	1623M	1651				
SHOWDW	R EXTERNAL	000000	1628						
SHOWEO	R EXTERNAL	000000	1675						
SHTM	I //	000236	1590S						
SROHSS	R EXTERNAL	000000	1608	1654	1655	1657	1699	1700	1702
SYS	J //	000133	1590S	1623M	1651				
TIMDAT	R EXTERNAL	000000	1599						
TIT	J //	000010	1590S	1623M	1651				
TTIT	J //	000467	1590S						
VH	I //	000141	1590S	1623M	1651				
_1		000315	1617	1618D					
_100		000415	1623D	1643	1652				
_101		001207	1571D	1686	1697				
_11		001121	1655	1666D					
_110		000511	1625	1627D					
_111		001267	1673	1675D					
_119		000721	1546D	1649					
_120		000715	1640	1644D	1648				
_121		001354	1583	1687D	1694				
_122		001366	1646	1690	1691D				
_123		001362	1690D	1695					
_125		000746	1624	1626	1634	1651D			
_126		001463	1672	1674	1679	1696D			
_1700		000526	1629	1630D	1635	1677			
_1800		000600	1532D						
_1801		001303	1578D	1680					
_1900		000625	1635D	1641					
_1901		001324	1581D	1684					
_?		000403	1620	1621D					

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_200	001014	1623	1653D						
_2000	000631	1535	1637D	1681					
_201	001515	1671	1698D						
_21	001176	1668	1669D						
_3	000203	1600	1607D						
_300	000222	1611D	1616						
_3000	001056	1609	1659D						
_3001	001062	1659	1660D						
_301	000226	1611	1612D						
_302	000273	1613	1614D						
_31	001114	1615	1665D	1668					
_4	000104	1602	1603D						
_5	000311	1617D	1620						
_50	000607	1532	1633D	1639	1647	1678	1682	1693	

0000) ERRORS [<REVSDW>FTN-REV14.2]

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(1708) SUBROUTINE SHOWDW  
 (1709) C  
 (1709) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1709) C  
 (1709) COMMON DRAW,TTIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1709) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1709) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (1709) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1709) C  
 (1709) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1709) C  
 (1709) INTEGER\*4 DRAW(4),TTIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1709) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1709) 1 IDR(4),KNT,TTIT(19)  
 (1709) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1709) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (1709) 1 FIRST,SECOND  
 (1709) C  
 (1709) C  
 (1710) C  
 (1711) CALL CLEAR  
 (1712) WRITE(1,10) PTIT  
 (1713) 10 FORMAT(2X,'1. TITLE:',/,3X,19A4)  
 (1714) WRITE(1,20)DRAW,DT,SYS  
 (1715) 20 FORMAT(2X,'2. ',3A4,A2,3X,'3. ',2(I2,'-'),I2,7X,  
 (1716) 1'A. ',3(1X,A4))  
 (1717) WRITE(1,30)((VEH(I,J),J=1,2),I=1,2),SECT,NSHT  
 (1718) 30 FORMAT(2X,'5. ',2(1X,I3,A1,1X),5X,'6. ',3A4,3X,'7. ',I2,  
 (1719) 1'SHEETS')  
 (1720) WRITE(1,35)FREV  
 (1721) 35 FORMAT(2X,'8. SHEET# 1',6X,'REV ',A2)  
 (1722) WRITE(1,70)  
 (1723) IF(FNEO.NE.0) GOTO 36  
 (1724) WRITE(1,72)  
 (1725) GO TO 81  
 (1726) 36 DO 81 J=1,FNEO  
 (1727) WRITE(1,85)(FEOREF(J,K),K=1,2)  
 (1728) 81 CONTINUE

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```
(1729) IF(NSHT.EQ.1) GOTO 300
(1730) REWIND 12
(1731) DO 100 L=2,NSHT
(1732) 40 READ(12,END=150) DRW,SHTN,REV,NEO,EOREF
(1733) DO 50 I=1,4
(1734) IF(DRAW(I).NE.DRW(I)) GOTO 40
(1735) 50 CONTINUE
(1736) IF(SHTN(2).EQ.0) GOTO 55
(1737) WRITE(1,52)(SHTN(K),K=1,2),REV
(1738) 62 FORMAT(2X,'8. SHEET# ',I2,'.',I2,3X,'REV ',A2)
(1739) GO TO 65
(1740) 55 WRITE(1,60) SHTN(1),REV
(1741) 60 FORMAT(2X,'8. SHEET# ',I2,6X,'REV ',A2)
(1742) 65 WRITE(1,70)
(1743) 70 FORMAT(2X,'9. REFERENCED E.O. '*S')
(1744) IF(NEO.NE.0) GOTO 75
(1745) WRITE(1,72)
(1746) 72 FORMAT(6X,'NONE')
(1747) GO TO 100
(1748) 75 DO 80 J=1,NEO
(1749) WRITE(1,85)(EOREF(J,K),K=1,2)
(1750) 85 FORMAT(6X,1A4,1A2)
(1751) 80 CONTINUE
(1752) 100 CONTINUE
(1753) GO TO 200
(1754) 150 WRITE(1,160) DRW
(1755) 160 FORMAT(' THERE IS AN ERROR IN THE NUMBER OF SHEETS FOR',/,
(1756) 1' DRAWING ',3A4,A2)
(1757) 200 READ(12,END=300) DRW,SHTN,REV,NEO,EOREF
(1758) GO TO 200
(1759) 300 CONTINUE
(1760) RETURN
(1761) END
```

CLEAR	R	EXTERNAL	000000	1711					
DRAW	J	//	000000	1709S	1714	1734			
DRW	J	//	000226	1709S	1732M	1734	1754	1757M	
ET	I	//	000130	1709S	1714				
EDT	I	//	000437	1709S					
EON	J	//	000312	1709S					
EOREF	J	//	000242	1709S	1732M	1749	1757M		
EDREV	I	//	000436	1709S					
EDVEH	I	//	000445	1709S					
EPIT	J	//	000370	1709S					
ERDT	I	//	000442	1709S					
ETIT	J	//	000316	1709S					
FEOREF	J	//	000156	1709S	1727				
FIRST	I	//	000465	1709S					
FNEO	I	//	000155	1709S	1723	1726			
FREV	I	//	000154	1709S	1720				
I	I		000757	1717M	1733M	1734			
IDR	J	//	000452	1709S					
JNEO	I	//	000462	1709S					
J	I		000761	1717M	1726M	1727	1748M	1749	
K	I		000762	1727M	1737M	1749M			
KNT	J	//	000463	1709S					
L	I		000753	1731M					
NEO	I	//	000241	1709S	1732M	1744	1748	1757M	
NSHT	I	//	000153	1709S	1717	1729	1731		
PTIT	J	//	000062	1709S	1712				
R	I	//	000451	1709S					
REV	I	//	000240	1709S	1732M	1737	1740	1757M	
SECOND	I	//	000466	1709S					
SECT	J	//	000145	1709S	1717				
SHOWDW	R		000000	1706S					
SHTN	I	//	000236	1709S	1732M	1736	1737	1740	1757M
SYS	J	//	000133	1709S	1714				
TIT	J	//	000010	1709S					
TIT	J	//	000467	1709S					
VEH	I	//	000141	1709S	1717				
_10			000012	1712	1713D				

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_100	000640	1731	1747	1752D
_150	000646	1732	1754D	
_160	000655	1754	1755D	
_20	000046	1714	1715D	
_200	000722	1753	1757D	1758
_30	000152	1717	1718D	
_300	000750	1729	1757	1759D
_35	000221	1720	1721D	
_36	000260	1723	1726D	
_40	000333	1732D	1734	
_50	000401	1733	1735D	
_52	000442	1737	1738D	
_55	000471	1736	1740D	
_60	000503	1740	1741D	
_65	000525	1739	1742D	
_70	000531	1722	1742	1743D
_72	000561	1724	1745	1746D
_75	000571	1744	1748D	
_80	000632	1748	1751D	
_81	000312	1725	1726	1728D
_85	000623	1727	1749	1750D

0000 ERRORS [&lt;SHOWDW&gt;FTN-REV14.2]

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(1762) SUBROUTINE SHOWEO  
(1763) C  
(1763) C COMMON BLOCK FOR THE DRAW-EO FILE  
(1763) C  
(1763) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(1763) 1 DRW,SHTN,REV,NEO,EOREF,  
(1763) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
(1763) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(1763) C  
(1763) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(1763) C  
(1763) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(1763) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(1763) 1 IDR(4),KNT,TTIT(19)  
(1763) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(1763) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(1763) 1 FIRST,SECOND  
(1763) C  
(1763) C  
(1764) C  
(1765) CALL CLEAR  
(1766) WRITE(1,10) EPTIT  
(1767) 10 FORMAT(2X,\*1. TITLE:\*,/,3X,19A4)  
(1768) WRITE(1,20)EON,EOREV,EDT  
(1769) 20 FORMAT(2X,\*2. \*,2A4,5X,\*3. \*,A2,5X,\*4. \*,2(I2,\*-\*),I2)  
(1770) WRITE(1,30)ERDT,((EOVEH(I,J),J=1,2),I=1,2)  
(1771) 30 FORMAT(2X,\*5. \*,2(I2,\*-\*),I2,5X,\*6. \*,2(I3,A1,1X))  
(1772) RETURN  
(1773) END

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CLEAR	R	EXTERNAL	000000	1765		
DRAW	J	//	000000	1763S		
DRW	J	//	000226	1763S		
DT	I	//	000130	1763S		
EOT	I	//	000437	1763S	1768	
EON	J	//	000312	1763S	1768	
EOREF	J	//	000242	1763S		
EOREV	I	//	000436	1763S	1768	
EOVEH	I	//	000445	1763S	1770	
EPTIT	J	//	000370	1763S	1766	
ERDT	I	//	000442	1763S	1770	
ETIT	J	//	000316	1763S		
FEOREF	J	//	000156	1763S		
FIRST	I	//	000465	1763S		
FNEO	I	//	000155	1763S		
FREV	I	//	000154	1763S		
I	I		000174	1770M		
IDR	J	//	000452	1763S		
INEO	I	//	000462	1763S		
J	I		000175	1770M		
KNT	J	//	000463	1763S		
NEO	I	//	000241	1763S		
NSHT	I	//	000153	1763S		
PRIT	J	//	000062	1763S		
R	I	//	000451	1763S		
REV	I	//	000240	1763S		
SECOND	I	//	000466	1763S		
SECT	J	//	000145	1763S		
SHOWEO	R		000000	1762S		
SHTN	I	//	000236	1763S		
SYS	J	//	000133	1763S		
TIT	J	//	000010	1763S		
TTIT	J	//	000467	1763S		
VEH	I	//	000141	1763S		
..10			000012	1766	1767D	
..20			000046	1768	1769D	
..30			000142	1770	1771D	

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SUBROUTINE SHOWEO

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0000 ERRORS [(<SHOWEO>FTN-REV14.2)]

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(1774) SUBROUTINE DMAIN  
(1775) C  
(1775) C COMMON BLOCK FOR THE DRAW-EO FILE  
(1775) C  
(1775) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(1775) 1 DRW,SHTN,REV,NEO,EOREF,  
(1775) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
(1775) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(1775) C  
(1775) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(1775) C  
(1775) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(1775) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(1775) 1 IDR(4),KNT,TTIT(19)  
(1775) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(1775) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(1775) 1 FIRST,SECOND  
(1775) C  
(1775) C  
(1776) C INTEGER\*2 EOKNT,II  
(1777) C  
(1778) C  
(1779) C THIS IS THE BASIC OUTPUT ROUTINE FOR THE SPOOLER AND TERMINAL  
(1780) C  
(1781) INEO=0  
(1782) EOKNT=1  
(1783) WRITE(1,998)  
(1784) 998 FORMAT(//)  
(1785) 999 FORMAT(1H0)  
(1786) WRITE(7,999)  
(1787) WRITE(1,100)KNT,PTIT  
(1788) 100 FORMAT(1X,I9,'. DRAWING TITLE',/,3X,19A4)  
(1789) 10 WRITE(1,120)DRAW,DT  
(1790) 120 FORMAT(10X,'DRAWING NUMBER ',3A4,A2,3X,'DATE ',2(I2,'-'),I2)  
(1791) WRITE(7,220)KNT,PTIT,DRAW,DT  
(1792) 220 FORMAT(1X,I8,'. ',19A4,3X,3A4,A2,8X,2(I2,'-'),I2)  
(1793) WRITE(1,231) FREV  
(1794) WRITE(7,231) FREV

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(1795) 231  FORMAT(11X,'SHEET# 1',AX,'REV ',A2)
(1796)      IF(FNEO.EQ.0) GOTO 301
(1797)      IF(R.EQ.0) GO TO 32
(1798)      II=FNEO
(1799)      IF(FNEO.GT.10) II=10
(1800)      DO 35 I=1,II
(1801)      IF(FEOREF(I,1).EQ.' ') GOTO 301
(1802)      WRITE(1,38) I,(FEOREF(I,K),K=1,2)
(1803)      WRITE(7,38) I,(FEOREF(I,K),K=1,2)
(1804) 38   FORMAT(11X,I2,'. ',2A4)
(1805) 35   CONTINUE
(1806)      GO TO 301
(1807) 32   II=FNEO
(1808)      IF(FNEO.GT.10) II=10
(1809)      DO 301 I=1,II
(1810) 31   READ(18,END=91)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1811) C    SEARCH FOR EOREF=EON
(1812)      DO 401 N=1,2
(1813)      IF(EON(N).NE.FEOREF(I,N)) GOTO 31
(1814) 401  CONTINUE
(1815)      IF(EOREV.EQ.'NC') GOTO 151
(1816)      WRITE(7,230)EOKNT,EON,EOREV,ERDT,EPTIT
(1817)      WRITE(1,140)EOKNT,EON,EOREV,ERDT
(1818)      GO TO 61
(1819) 151  WRITE(7,240)EOKNT,EON,EOREV,EDT,EPTIT
(1820)      WRITE(1,140)EOKNT,EON,EOREV,EDT
(1821) 61   EOKNT=EOKNT+1
(1822)      IF(EPTIT(1).NE.' ') WRITE(1,130)EPTIT
(1823) 91   REWIND 18
(1824) 301  CONTINUE
(1825)      IF(NSHT.EQ.1) GOTO 190
(1826)      DO 190 K=2,NSHT
(1827)      EOKNT=1
(1828) 160  READ(12,END=190)DRW,SHTN,REV,NEO,EOREF
(1829)      DO 170 J=1,4
(1830)      IF(DRW(J).NE.DRAW(J)) GOTO 160
(1831) 170  CONTINUE
(1832)      IF(SHTN(2).EQ.0) GOTO 265
```

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(1833) WRITE(1,260)(SHTN(J),J=1,2),REV
(1834) WRITE(7,260)(SHTN(J),J=1,2),REV
(1835) 260 FORMAT(11X,'SHEET# ',I2,'.',I2,5X,'REV ',A2)
(1836) GO TO 275
(1837) 265 WRITE(1,270) SHTN(1),REV
(1838) WRITE(7,270) SHTN(1),REV
(1839) 270 FORMAT(11X,'SHEET# ',I2,8X,'REV ',A2)
(1840) 275 CONTINUE
(1841) INEO=INEO+NEO
(1842) IF(NEO.EQ.0) GOTO 190
(1843) IF(R.EQ.0) GOTO 33
(1844) II=NEO
(1845) IF(NEO.GT.10) II=10
(1846) DO 37 I=1,II
(1847) IF(EOREF(I,1).EQ.' ') GOTO 300
(1848) WRITE(1,38) I,(EOREF(I,K),K=1,2)
(1849) WRITE(7,38) I,(EOREF(I,K),K=1,2)
(1850) 37 CONTINUE
(1851) GO TO 300
(1852) 33 II=NEO
(1853) IF(NEO.GT.10) II=10
(1854) DO 300 I=1,II
(1855) 30 READ(18,END=90)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1856) C SEARCH FOR EOREF=EON
(1857) DO 400 N=1,2
(1858) IF(EON(N).NE.EOREF(I,N)) GOTO 30
(1859) 400 CONTINUE
(1860) 130 FORMAT(3X,19A4)
(1861) IF(EOREV.EQ.'NC') GOTO 150
(1862) WRITE(7,230)EOKNT,EON,EOREV,ERDT,EPTIT
(1863) 230 FORMAT(11X,I2,'.',2A4,1X,'REV ',A2,3X,2(I2,'-'),I2,
(1864) 13X,19A4)
(1865) WRITE(1,140)EOKNT,EON,EOREV,ERDT
(1866) 140 FORMAT(11X,I2,'.',2A4,1X,'REV ',A2,5X,2(I2,'-'),I2)
(1867) GO TO 60
(1868) 150 WRITE(7,240)EOKNT,EON,EOREV,EDT,EPTIT
(1869) 240 FORMAT(11X,I2,'.',2A4,1X,'REV ',A2,3X,2(I2,'-'),I2,
(1870) 13X,19A4)
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(1871) WRITE(1,140)EOKNT,EON,EOREV,EDT
(1872) 60 EOKNT=EOKNT+1
(1873) IF(EPTIT(1).NE.' *) WRITE(1,130)EPTIT
(1874) 90 REWIND 18
(1875) 300 CONTINUE
(1876) 190 CONTINUE
(1877) REWIND 12
(1878) CALL RECYCL
(1879) CALL PAUS
(1880) RETURN
(1881) END
```

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DMAIN	R	000000	1774S							
DRAW	J //	000000	1775S	1789	1791	1830				
DRW	J //	000226	1775S	1828M	1830					
DT	I //	000130	1775S	1789	1791					
EDT	I //	000437	1775S	1810M	1819	1820	1855M	1868	1871	
EOKNT	I	001674	1776S	1782M	1816	1817	1819	1820	1821M	
			1827M	1862	1865	1868	1871	1872M		
EON	J //	000312	1775S	1810M	1813	1816	1817	1819	1820	
			1855M	1858	1862	1865	1868	1871		
EOREF	J //	000242	1775S	1828M	1847	1848	1849	1858		
EOREV	I //	000436	1775S	1810M	1815	1816	1817	1819	1820	
			1855M	1861	1862	1865	1868	1871		
EOVEH	I //	000445	1775S	1810M	1855M					
EPTIT	J //	000370	1775S	1810M	1816	1819	1822	1855M	1862	
			1868	1873						
ERDT	I //	000442	1775S	1810M	1816	1817	1855M	1862	1865	
EXIT	J //	000316	1775S	1810M	1855M					
FEOREF	J //	000156	1775S	1801	1802	1803	1813			
FIRST	I //	000465	1775S							
FREC	I //	000155	1775S	1796	1798	1799	1807	1808		
FREV	I //	000154	1775S	1793	1794					
I	I	001675	1800M	1801	1802	1803	1809M	1813	1846M	
			1847	1848	1849	1854M	1858			
IDR	J //	000452	1775S							
II	I	001677	1776S	1798M	1799M	1800	1807M	1808M	1809	
			1844M	1845M	1846	1852M	1853M	1854		
INEO	I //	000462	1775S	1781M	1841M					
J	I	001700	1829M	1830	1833M	1834M				
K	I	001701	1802M	1803M	1826M	1848M	1849M			
KNT	J //	000463	1775S	1787	1791					
N	I	001702	1812M	1813	1857M	1858				
NEJ	I //	000241	1775S	1828M	1841	1842	1844	1845	1852	
			1853							
NSHT	I //	000153	1775S	1825	1826					
PAUS	R EXTERNAL	000300	1879							
PTIT	J //	000062	1775S	1787	1791					
R	I //	000451	1775S	1797	1843					
RECYCL	R EXTERNAL	000000	1878							

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REV	I //	G00240	1775S	1828M	1833	1834	1837	1838
SECOND	I //	000466	1775S					
SECT	J //	000145	1775S					
SHTN	I //	000236	1775S	1828M	1832	1833	1834	1837 1838
SYS	J //	000133	1775S					
YIT	J //	000010	1775S					
YIIT	J //	000467	1775S					
VEH	I //	000141	1775S					
_10		000065	1789D					
_100		000042	1787	1788D				
_120		000077	1789	1790D				
_130		001351	1822	1860D	1873			
_140		001464	1817	1820	1865	1866D	1871	
_150		001515	1861	1868D				
_151		000556	1815	1819D				
_150		000666	1828D	1830				
_170		000735	1829	1831D				
_190		001651	1825	1826	1828	1842	1876D	
_220		000153	1791	1792D				
_230		001410	1816	1862	1863D			
_231		000220	1793	1794	1795D			
_240		001540	1819	1868	1869D			
_260		001022	1833	1834	1835D			
_265		001047	1832	1837D				
_270		001073	1837	1838	1839D			
_275		001114	1836	1840D				
_30		001261	1855D	1858				
_300		001641	1847	1851	1854	1875D		
_301		000645	1796	1801	1806	1809	1824D	
_31		000412	1810D	1813				
_32		000401	1797	1807D				
_33		001250	1843	1852D				
_35		000373	1800	1805D				
_37		001240	1846	1850D				
_38		000361	1802	1803	1804D	1848	1849	
_400		001343	1857	1859D				
_401		000474	1812	1814D				

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_50	001615	1867	1872D
_51	000621	1818	1821D
_90	001637	1855	1874D
_91	000643	1810	1823D
_998	000014	1783	1784D
_999	000017	1785D	1786

0000 ERRORS [ <DMAIN >FTN-REV14.2 ]

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(1882) SUBROUTINE MAIND  
 (1883) C  
 (1883) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1883) C  
 (1883) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1883) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1883) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (1883) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1883) C  
 (1883) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1883) C  
 (1883) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1883) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1883) 1 IDR(4),KNT,TTIT(19)  
 (1883) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1883) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (1883) 1 FIRST,SECOND  
 (1883) C  
 (1883) C  
 (1884) INTEGER\*2 EOKNT,II  
 (1885) C  
 (1886) C  
 (1887) C THIS IS THE ACTION DUE OUTPUT ROUTINE FOR THE SPOOLER AND TERMINAL  
 (1888) C  
 (1889) EOKNT=1  
 (1890) IF(INEO.EQ.1.AND.SECOND.EQ.1) GOTO 222  
 (1891) WRITE(1,998)  
 (1892) 998 FORMAT(//)  
 (1893) 999 FORMAT(1H0)  
 (1894) WRITE(7,999)  
 (1895) WRITE(1,100)KNT,PTIT  
 (1896) 100 FORMAT(1X,I9,\*,. DRAWING TITLE\*,/,3X,19A4)  
 (1897) 10 WRITE(1,120)DRAW,DT  
 (1898) 120 FORMAT(10X,'DRAWING NUMBER ',3A4,A2,3X,'DATE ',2(I2,'-'),I2)  
 (1899) WRITE(7,220)KNT,PTIT,DRAW,DT  
 (1900) 220 FORMAT(1X,I8,\*,',19A4,3X,3A4,A2,8X,2(I2,'-'),I2)  
 (1901) INEO=1  
 (1902) IF(FIRST.EQ.0) GOTO 222

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(1903) WRITE(1,160)FREV
(1904) WRITE(7,160)FREV
(1905) 160 FORMAT(11X,*SHEET# 1*,8X,*REV *,A2)
(1906) IF(R.EG.0) GOTO 32
(1907) II=FNEO
(1908) IF(FNEO.GT.10) II=10
(1909) DO 35 I=1,II
(1910) IF(FEOREF(I,1).EQ.* *) GO TO 190
(1911) WRITE(1,38) I,(FEOREF(I,K),K=1,2)
(1912) WRITE(7,38) I,(FEOREF(I,K),K=1,2)
(1913) 38 FORMAT(11X,I2,*,*,2A4)
(1914) 35 CONTINUE
(1915) GO TO 190
(1916) 32 II=FNEO
(1917) IF(FNEO.GT.10) II=10
(1918) DO 301 I=1,II
(1919) 31 READ(18,END=91)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1920) DO 401 N=1,2
(1921) IF(EON(N).NE.FEOREF(I,N)) GOTO 31
(1922) 401 CONTINUE
(1923) IF(EOREV.EQ.*NC*) GOTO 151
(1924) WRITE(7,230)EOKNT,EON,EOREV,ERDT,EPTIT
(1925) WRITE(1,140)EOKNT,EGN,EOREV,ERDT
(1926) GO TO 61
(1927) 151 WRITE(7,230)EOKNT,EON,EOREV,EDT,EPTIT
(1928) WRITE(1,140)EOKNT,EON,EOREV,EDT
(1929) 61 EOKNT=EOKNT+1
(1930) IF(EPTIT(1).NE.* *) WRITE(1,130)EPTIT
(1931) 91 REWIND 18
(1932) 301 CONTINUE
(1933) GO TO 190
(1934) 222 IF(SHTN(2).EQ.0) GOTO 223
(1935) WRITE(1,260)(SHTN(K),K=1,2),REV
(1936) WRITE(7,260)SHTN,REV
(1937) 260 FORMAT(11X,*SHEET# *,I2,*,*,I2,5X,*REV *,A2)
(1938) GO TO 280
(1939) 223 WRITE(1,270) SHTN(1),REV
(1940) WRITE(7,270) SHTN(1),REV
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(1941) 270   FORMAT(11X,'SHEET# ',I2,8X,'REV ',A2)
(1942) 280   CONTINUE
(1943)       IF(R.EQ.0) GOTO 33
(1944)       II=NEO
(1945)       IF(NEO.GT.10) II=10
(1946)       DO 37 I=1,II
(1947)         IF(EOREF(I,1).EQ.' ') GOTO 190
(1948)         WRITE(1,38) I,(EOREF(I,K),K=1,2)
(1949)         WRITE(7,38) I,(EOREF(I,K),K=1,2)
(1950) 37    CONTINUE
(1951)       GO TO 190
(1952) 33    II=NEO
(1953)       IF(NEO.GT.10) II=10
(1954)       DO 300 I=1,II
(1955) 30    READ(18,END=90)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(1956) C     SEARCH FOR EOREF=EON
(1957)       DO 400 N=1,2
(1958)       IF(EON(N).NE.EOREF(I,N)) GOTO 30
(1959) 400   CONTINUE
(1960) 130   FORMAT(3X,19A4)
(1961)       IF(EOREV.EQ.'NC') GOTO 150
(1962)       WRITE(7,230)EOKNT,EON,EOREV,ERDT,EPTIT
(1963) 230   FORMAT(11X,I2,'. ',2A4,1X,'REV ',A2,3X,2(I2,'-'),I2,
(1964)       13X,19A4)
(1965)       WRITE(1,140)EOKNT,EON,EOREV,ERDT
(1966) 140   FORMAT(3X,I2,'. ',2A4,1X,'REV ',A2,5X,2(I2,'-'),I2)
(1967)       GO TO 60
(1968) 150   WRITE(7,230)EOKNT,EON,EOREV,EDT,EPTIT
(1969)       WRITE(1,140)EOKNT,EON,EOREV,EDT
(1970) 60    EOKNT=EOKNT+1
(1971)       IF(EPTIT(1).NE.' ') WRITE(1,130)EPTIT
(1972) 90    REWIND 18
(1973) 300   CONTINUE
(1974) 190   CONTINUE
(1975)       CALL RECYCL
(1976)       CALL PAUS
(1977)       RETURN
(1978)       END
```

DRAW	J //	000000	1883S	1897	1899				
DRW	J //	000226	1883S						
DT	I //	000130	1883S	1897	1899				
EOT	I //	000437	1883S	1919M	1927	1928	1955M	1968	1969
EOKNT	I	001525	1884S	1889M	1924	1925	1927	1928	1929M
			1962	1965	1968	1969	1970M		
EON	J //	000312	1883S	1919M	1921	1924	1925	1927	1928
			1955M	1958	1962	1965	1968	1969	
EOREF	J //	000242	1883S	1947	1948	1949	1958		
EOREV	I //	000436	1883S	1919M	1923	1924	1925	1927	1928
			1955M	1961	1962	1965	1968	1969	
EOVEH	I //	000445	1883S	1919M	1955M				
EPTIT	J //	000370	1883S	1919M	1924	1927	1930	1955M	1962
			1968	1971					
ERDT	I //	000442	1883S	1919M	1924	1925	1955M	1962	1965
ETIT	J //	000316	1883S	1919M	1955M				
FLOREF	J //	000156	1883S	1910	1911	1912	1921		
FIRST	I //	000465	1883S	1902					
FNEO	I //	000155	1883S	1907	1908	1916	1917		
FREV	I //	000154	1883S	1903	1904				
I	I	001526	1909M	1910	1911	1912	1918M	1921	1946M
			1547	1948	1949	1954M	1958		
IDR	J //	000452	1883S						
II	I	001530	1884S	1907M	1908M	1909	1916M	1917M	1918
			1944M	1945M	1946	1952M	1953M	1954	
INEO	I //	000462	1883S	1890	1901M				
I	I	001531	1911M	1912M	1935M	1948M	1949M		
KNT	J //	000463	1883S	1895	1899				
MAIND	I	000000	1882S						
N	I	001533	1920M	1921	1957M	1958			
NEC	I //	000241	1883S	1944	1945	1952	1953		
NSHT	I //	000153	1883S						
PAUS	R EXTERNAL	000000	1976						
PTIT	J //	000062	1883S	1895	1899				
R	I //	000451	1883S	1906	1943				
RECYCL	R EXTERNAL	000000	1975						
REV	I //	000240	1883S	1935	1936	1939	1940		
SECOND	I //	000466	1883S	1890					

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SECT	J //	000145	1883S					
SHTN	I //	000236	1883S	1934	1935	1936	1939	1940
SYS	J //	000133	1883S					
TTT	J //	000010	1883S					
TTIT	J //	000467	1883S					
VEH	I //	000141	1883S					
10		000076	1897D					
100		000053	1895	1896D				
120		000110	1897	1898D				
130		001252	1930	1960D	1971			
140		001366	1925	1928	1965	1966D	1969	
150		001417	1961	1968D				
151		000572	1923	1927D				
160		000237	1903	1904	1905D			
190		001516	1910	1915	1933	1947	1951	1974D
220		000164	1899	1900D				
222		000671	1890	1902	1934D			
223		000762	1934	1939D				
230		001311	1924	1927	1962	1963D	1968	
260		000735	1935	1936	1937D			
270		001006	1939	1940	1941D			
280		001027	1938	1942D				
30		001162	1955D	1958				
300		001506	1954	1973D				
301		000661	1918	1932D				
31		000426	1919D	1921				
32		000415	1906	1916D				
33		001151	1943	1952D				
35		000407	1909	1914D				
37		001143	1946	1950D				
38		000375	1911	1912	1913D	1948	1949	
400		001244	1957	1959D				
401		000510	1920	1922D				
60		001462	1967	1970D				
61		000635	1926	1929D				
90		001504	1955	1972D				
91		000657	1919	1931D				

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_998	000025	1891	1892D
_999	000030	1893D	1894

0000 ERRORS [ <MAIND >FTN-REV14.2 ]

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(1979) SUBROUTINE HEADER  
 (1980) C  
 (1981) C THIS SUBROUTINE PERFORMS A PRINT OF HEADER INFORMATION TO  
 (1982) C THE OUTPUT FILE TO BE SPOOLED  
 (1983) C  
 (1984) C  
 (1984) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (1984) C  
 (1984) 1 COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (1984) 1 DRW,SHTN,REV,NEO,EOREF,  
 (1984) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (1984) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (1984) C  
 (1984) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (1984) C  
 (1984) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (1984) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (1984) 1 IDR(4),KNT,TTIT(19)  
 (1984) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (1984) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (1984) 1 FIRST,SECOND  
 (1984) C  
 (1984) C  
 (1985) WRITE(7,200)  
 (1986) 200 FORMAT(11X,'DRAWING TITLE',66X,'DRAWING NUMBER',10X,'DATE')  
 (1987) IF(R.EQ.1) GOTO 400  
 (1988) WRITE(7,300)  
 (1989) 300 FORMAT(12X,'SHEET NUMBER',/,  
 (1990) 113X,'E.O. NUMBER',12X,'DATE',6X,'E.O. TITLE',/,3X,120('\*\*'))  
 (1991) GO TO 600  
 (1992) 400 WRITE(7,500)  
 (1993) 500 FORMAT(12X,'SHEET NUMBER',/,13X,'E.O. NUMBER',/,  
 (1994) 1 3X,120('\*\*'))  
 (1995) 600 RETURN  
 (1996) END

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DRAW	J	//	000000	1984S	
DRW	J	//	000226	1984S	
DT	I	//	000130	1984S	
EDT	I	//	000437	1984S	
ECN	J	//	000312	1984S	
ECREF	J	//	000242	1984S	
EUREV	I	//	000436	1984S	
EOVEH	I	//	000445	1984S	
EPTIT	J	//	000370	1984S	
ERDT	I	//	000442	1984S	
ETIT	J	//	000316	1984S	
FEOREF	J	//	000156	1984S	
FIRST	I	//	000465	1984S	
FNEC	I	//	000155	1984S	
FREV	I	//	000154	1984S	
HEADER	R		000000	1979S	
IDR	J	//	000452	1984S	
INEO	I	//	000462	1984S	
KNT	J	//	000463	1984S	
NEO	I	//	000241	1984S	
NSHT	I	//	000153	1984S	
PTIT	J	//	000062	1984S	
P	I	//	000451	1984S	1987
REV	I	//	000240	1984S	
SECOND	I	//	000466	1984S	
SECT	J	//	000145	1984S	
SHTN	I	//	000236	1984S	
SYS	J	//	000133	1984S	
TIT	J	//	000010	1984S	
TTIT	J	//	000467	1984S	
VEH	I	//	000141	1984S	
200			000006	1985	1986D
300			000054	1988	1989D
400			000127	1987	1992D
500			000133	1992	1993D
600			000167	1991	1995D

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SUBROUTINE HEADER

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(1997) SUBROUTINE INPTDW  
(1998) C  
(1998) C COMMON BLOCK FOR THE DRAW-EO FILE  
(1998) C  
(1998) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(1998) 1 DRW,SHTN,REV,NEO,EOREF,  
(1998) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
(1998) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(1998) C  
(1998) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(1998) C  
(1998) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(1998) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(1998) 1 IDR(4),KNT,TTIT(19)  
(1998) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(1998) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(1998) 1 FIRST,SECOND  
(1998) C  
(1998) C  
(1999) C  
(2000) C  
(2001) C  
(2002) C INPUT SUBROUTINE FOR THE DRAW-EO FILE  
(2003) C  
(2004) C  
(2005) C CALL CLEAR  
(2006) C  
(2007) C VALIDATE THE INCOMING USER  
(2008) C  
(2008) FIRST=0  
(2009) CALL BREAKS(.TRUE.)  
(2010) CALL TIMDAT(A,15)  
(2011) IF(A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.  
(2012) 1'DK') GOTO 3  
(2013) WRITE(1,4)  
(2014) 4 FORMAT(' SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.',/  
(2015) 1' IF IT IS NECESSARY, PLEASE CONTACT SYSTEM OPERATOR AT EXT.2621  
(2016) 1.')  
(2017) RETURN

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(2018) 3 CONTINUE  
(2019) 200 CALL BREAK\$(.FALSE.)  
(2020) C  
(2021) C POSITION THE DRAW FILE TO THE END OF RECORD MARK  
(2022) C  
(2023) 2000 READ(6,END=2001)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,  
(2024) 1 FEOREF  
(2025) GO TO 2000  
(2026) 2001 READ(18,END=2002)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(2027) GO TO 2001  
(2028) 2002 READ(12,END=2003)DRW,SHTN,REV,NEO,EOREF  
(2029) GO TO 2002  
(2030) 2003 CONTINUE  
(2031) WRITE(1,1)  
(2032) 1 FORMAT(\* WELCOME TO THE DRAW-EO FILE INPUT ROUTINE\*,/  
(2033) 1\* PLEASE INPUT INFORMATION BETWEEN EXCLAMATION MARKS\*,/  
(2034) 2\* AND LEFT JUSTIFY ALL ENTRIES\*,/)  
(2035) 1010 R=0  
(2036) 100 WRITE(1,101)  
(2037) 101 FORMAT(\* IS THIS A DRAWING OR AN E.O. (DRAW OR EO)\*//)  
(2038) READ(1,1002)IANS  
(2039) IF(IANS.EQ.\*D\*) GOTO 1020  
(2040) IF(IANS.NE.\*E\*) GOTO 100  
(2041) CALL INPSE  
(2042) WRITE(18)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(2043) 120 READ(12,END=1000)DRW,SHTN,REV,NEO,EOREF  
(2044) GO TO 120  
(2045) 1020 CALL INPSOW  
(2046) WRITE(6)DRAW,TIT,TTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF  
(2047) 1000 WRITE(1,1001)  
(2048) 1001 FORMAT(\* IS THERE ANY FURTHER INFORMATION TO BE INPUT\*,  
(2049) 1\* (YES OR NO)\*//)  
(2050) READ(1,1002)IANS  
(2051) IF(IANS.EQ.\*Y\*) GOTO 1010  
(2052) IF(IANS.NE.\*N\*) GOTO 1000  
(2053) 1002 FORMAT(1A1)  
(2054) REWIND 6  
(2055) REWIND 12

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(2056) REWIND 18  
(2057) RETURN  
(2058) END

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A	I	000002	1999S	2010A	2011			
BREAKS	R EXTERNAL	000000	2009	2019				
CLEAR	R EXTERNAL	000000	2004					
DRAW	J //	000000	1998S	2023M	2046			
DRW	J //	000226	1998S	2028M	2043M			
DT	I //	000130	1998S	2023M	2046			
EOT	I //	000437	1998S	2026M	2042			
EON	J //	000312	1998S	2026M	2042			
EOREF	J //	000242	1993S	2028M	2043M			
EOREV	I //	000436	1998S	2026M	2042			
EOVEH	I //	000445	1998S	2026M	2042			
EPTIT	J //	000370	1998S	2026M	2042			
ERDT	I //	000442	1998S	2026M	2042			
ETIT	J //	000316	1998S	2026M	2042			
FEOREF	J //	000156	1998S	2023M	2046			
FIRST	I //	000465	1998S	2008M				
FNEO	I //	000155	1998S	2023M	2046			
FREV	I //	000154	1998S	2023M	2046			
IANS	I	000753	2038M	2039	2040	2050M	2051	2052
IDR	J //	000452	1998S					
INEO	I //	000462	1998S					
INPSDW	I EXTERNAL	000000	2045					
INPSE	I EXTERNAL	000000	2041					
INPTDW	I	000000	1997S					
KNT	J //	000463	1998S					
NEO	I //	000241	1998S	2028M	2043M			
NSHT	I //	000153	1998S	2023M	2046			
PTIT	J //	000062	1998S	2023M				
R	I //	000451	1998S	2035M				
REV	I //	000240	1998S	2028M	2043M			
SECOND	I //	000466	1998S					
SECT	J //	000145	1998S	2023M	2046			
CHTN	I //	000236	1998S	2028M	2043M			
SYS	J //	000133	1995S	2023M	2046			
TIMDAT	R EXTERNAL	000000	2010					
TIT	J //	000010	1998S	2023M	2046			
TTIT	J //	000467	1998S	2046				
VEH	I //	000141	1998S	2023M	2046			

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_1	000335	2031	2032D	
_100	000445	2036D	2040	
_1000	000650	2043	2047D	2052
_1001	000654	2047	2048D	
_1002	000736	2038	2050	2053D
_101	000451	2036	2037D	
_1010	000442	2035D	2051	
_1020	000602	2039	2045D	
_120	000555	2043D	2044	
_200	000175	2019D		
_2000	000177	2023D	2025	
_2001	000247	2023	2026D	2027
_2002	000303	2025	2028D	2029
_2003	000331	2028	2030D	
_3	000175	2011	2018D	
_4	000076	2013	2014D	

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(2059) SUBROUTINE INPSDW  
 (2060) C  
 (2060) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (2060) C  
 (2060) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (2060) 1 DRW,SHTN,REV,NEO,EOREF,  
 (2060) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (2060) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (2060) C  
 (2060) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (2060) C  
 (2060) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (2060) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (2060) 1 IDR(4),KNT,TTIT(19)  
 (2060) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (2060) 1 EOREV,EDT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (2060) 1 FIRST,SECOND  
 (2060) C  
 (2060) C  
 (2061) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2061) C NOLIST  
 (2062) C  
 (2063) C  
 (2064) C INTEGER\*2 IER(3),IOPT,IEOUP,NEWSHT,FINISH,ISHTN(2)  
 (2065) C  
 (2066) C THIS ROUTINE PROVIDES THE BASIC I/O FOR THE  
 (2067) C DRAWING SUBFILE INPUT/REVISE ROUTINES  
 (2068) C  
 (2069) C INITIALIZE THE UPDATE E.O.'S ON REVISED SHEET FLAG  
 (2070) IEOUP=0  
 (2071) NEWSHT=0  
 (2072) IF(R.EQ.0) GO TO 100  
 (2073) 2 WRITE(1,1)  
 (2074) 1 FORMAT(' HOW MANY ITEMS DO YOU WISH TO REVISE (MAX OF 9) ',/)  
 (2075) 10 READ(1,10,ERR=2)IKNT  
 (2076) 10 FORMAT(I3)  
 (2077) IF(IKNT.LT.0) GO TO 2  
 (2078) IF(IKNT.GT.9) GO TO 2  
 (2079) DO 3800 LOOP=1,IKNT,1

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(2079) 5    WRITE(1,3)
(2080) 3    FORMAT(* INPUT THE ITEM NUMBER THAT YOU WISH TO REVISE*,/)
(2081)      READ(1,10,ERR=5)IR
(2082)      IF(IR.NE.8.AND.IR.NE.7) GOTO 100
(2083)      IF(IR.EQ.8) GOTO 19
(2084) 9    WRITE(1,11)
(2085) 11   FORMAT(* IS THIS A CORRECTION OF SHEET ITEM: ENTER YES*,/
(2086)      1* OR IS THIS A NEW SHEET ENTRY FOR A DRAWING: ENTER NEW*)
(2087)      READ(1,25,ERR=9)IOPT
(2088)      IF(IOPT.EQ.*YE*) GOTO 100
(2089)      IF(IOPT.NE.*NE*) GOTO 9
(2090)      NEWSHT=1
(2091)      GO TO 100
(2092) 19   WRITE(1,20)
(2093) 20   FORMAT(* IS THIS A REVISION ENTRY FOR A NEW DRAWING SHEET*,
(2094)      1* (YES OR NO)*,/,*, NOTE: A NO ANSWER INDICATES A REVISION ITEM
(2095)      1*CORRECTION*,/,7X,*, A YES ANSWER WILL DELETE ALL E.O.*S *,
(2096)      1*FOR THIS SHEET.*)
(2097)      READ(1,25,ERR=19)IOPT
(2098) 25   FORMAT(1A2)
(2099)      IF(IOPT.EQ.*NO*) GOTO 100
(2100)      IF(IOPT.NE.*YE*) GOTO 19
(2101)      IEGUP=1
(2102) C
(2103) C    BEGIN INPUT
(2104) C
(2105) 100  IF(R.EQ.1.AND.IR.NE.1) GO TO 200
(2106) 103  WRITE(1,101)
(2107) 101  FORMAT(* (1) TITLE (7 WORDS - 10 CHAR.)*,/,!*!,76X,*!*!*/)
(2108) 110  FORMAT(1X,17A4,A2)
(2109)      LEN=10
(2110)      CALL TINPUT(TIT,LEN)
(2111)      WRITE(1,102)TIT
(2112) 102  FORMAT(7(1X,2A4,A2)/)
(2113)      WRITE(1,105)PTIT
(2114) 105  FORMAT(1X,19A4)
(2115)      DO 104 I=1,19
(2116)      TTIT(I)=PTIT(I)
```

(2117) 104 CONTINUE  
 (2118) 200 IF(R.EQ.1.AND.IR.NE.2) GO TO 400  
 (2119) 201 WRITE(1,202)  
 (2120) 202 FORMAT(' (2) DRAWING NUMBER',/,\*,14X,\*/  
 (2121) READ(1,203,ERR=201)DRAW  
 (2122) 203 FORMAT(1X,3A4,A2)  
 (2123) WRITE(1,203)DRAW  
 (2124) 400 IF(R.EQ.1.AND.IR.NE.3) GO TO 500  
 (2125) 401 WRITE(1,402)  
 (2126) 402 FORMAT(' (3) DRAWING DATE',/,\*,MMDDYY!\*/  
 (2127) READ(1,403,ERR=401)DT  
 (2128) 403 FORMAT(1X,3I2)  
 (2129) WRITE(1,403)DT  
 (2130) 500 IF(R.EQ.1.AND.IR.NE.4) GO TO 900  
 (2131) 501 WRITE(1,502)  
 (2132) 502 FORMAT(' (4) SYSTEM',  
 (2133) 11X,\*(ELEC,GSE,GUID,MECH,PROP,RF,SOP,MGS,EGS,PERF)\*,  
 (2134) 1,/,3(\*!,4X,\*/  
 (2135) READ(1,503,ERR=501)SYS  
 (2136) 503 FORMAT(1X,3(A4,2X))  
 (2137) WRITE(1,503) SYS  
 (2138) 900 IF(R.EQ.1.AND.IR.NE.5) GO TO 2200  
 (2139) 901 WRITE(1,902)  
 (2140) 902 FORMAT(' (5) VEHICLE',/2(\*! !\*/  
 (2141) READ(1,903,ERR=901)((VEH(I,J),J=1,2),I=1,2)  
 (2142) 903 FORMAT(2(1X,I3,A1,1X))  
 (2143) WRITE(1,903) ((VEH(I,J),J=1,2),I=1,2)  
 (2144) 2200 CONTINUE  
 (2145) IF(R.EQ.1.AND.IR.NE.6) GOTO 2300  
 (2146) 2201 WRITE(1,2202)  
 (2147) 2202 FORMAT(' (6) SECTION',/,  
 (2148) 15X,\*E SECT ,UPPER B ,LOWER B ,ALCYONE IA ,ALCYONE IIA\*,/  
 (2149) 1,5X,\*G SECT ,UPPER C ,LOWER C ,ALGOL IIA ,ALGOL IIIA\*,/  
 (2150) 1,5X,\*EG SECT ,UPPER D ,LOWER D ,ANTARES IIA ,ANTARES IIIA\*,/  
 (2151) 1,/,5X,\*BASE A ,UPPER F ,LOWER F ,ALTAIR IIIA ,\*,/  
 (2152) 1\*CASTOR IIA\*,/,13X,\*H/S 25/34 ,H/S 40/34 ,H/S 45/42\*,/  
 (2153) 1\*!,12X,\*/  
 (2154) READ(1,2203,ERR=2201)SECT

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(2155) 2203 FORMAT(1X,3A4)  
(2156) WRITE(1,2203)SECT  
(2157) 2300 IF(R.EQ.1.AND.IR.NE.7) GOTO 2400  
(2158) IF(R.EQ.0) GOTO 2301  
(2159) IF(NEWSHT.EQ.1) CALL FIXSHT  
(2160) 2301 WRITE(1,2302)  
(2161) 2302 FORMAT(\* (7) NUMBER OF SHEETS\*,/!\*!,2X,\*!\*/)  
(2162) READ(1,2303,ERR=2301)NSHT  
(2163) 2303 FORMAT(1X,I2)  
(2164) WRITE(1,2303)NSHT  
(2165) IF(R.EQ.1.AND.NEWSHT.EQ.1) CALL SHTADD  
(2166) IF(R.EQ.0) CALL INPSS  
(2167) GO TO 3800  
(2168) 2400 IF(R.EQ.1.AND.IR.NE.8) GO TO 2500  
(2169) 2407 WRITE(1,2408)  
(2170) 2408 FORMAT(\* WHAT SHEET NUMBER IS TO BE REVISED\*,/,\* EXAMPLE:\*,  
(2171) 1\* SHEET # 2-1 !02!!10!\*,/,\*! !! !\*/)  
(2172) FINISH=0  
(2173) READ(1,2409,ERR=2407) (ISHTN(K),K=1,2)  
(2174) 2409 FORMAT(1X,I2,2X,I2)  
(2175) IF(ISHTN(1).NE.1.OR.ISHTN(2).NE.0) GOTO 2411  
(2176) 2448 WRITE(1,2402)  
(2177) READ(1,2403,ERR=2448)FREV  
(2178) IF(IEOUP.EQ.0) GOTO 3800  
(2179) IF(FNEO.NE.0) FNEO=0  
(2180) DO 2449 K=1,10  
(2181) FEOREF(K,1)=\* \*  
(2182) FEOREF(K,2)=\* \*  
(2183) 2449 CONTINUE  
(2184) GO TO 3800  
(2185) 2411 CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*STEMP \*,6,10,1,IC)  
(2186) REWIND 12  
(2187) 2410 READ(12,END=2470)DRW,SHTN,REV,NEO,EOREF  
(2188) IF(FINISH.EQ.1) GOTO 2460  
(2189) DO 2415 I=1,4  
(2190) IF(DRAW(I).NE.DRW(I)) GOTO 2460  
(2191) 2415 CONTINUE  
(2192) DO 2420 I=1,2

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(2193)      IF(ISHTN(I).NE.SHTN(I)) GOTO 2460
(2194) 2420 CONTINUE
(2195) 2401 WRITE(1,2402)
(2195) 2402 FORMAT(* SHEET REVISION: IF NONE, ENTER NC*,/,*!*,2X,*!*/)
(2197)      READ(1,2403,ERR=2448)REV
(2193) 2403 FORMAT(1X,1A2)
(2199)      WRITE(1,2403)REV
(2200)      IF(IEOUP.EQ.0) GOTO 2455
(2201)      IF(NEO.NE.0) NEO=0
(2202)      DO 2450 K=1,10
(2203)      EOREF(K,1)=*
(2204)      EOREF(K,2)=*
(2205) 2450 CONTINUE
(2206) 2455 FINISH=1
(2207) 2460 WRITE(14) DRW,SHTN,REV,NEO,EOREF
(2208)      GO TO 2410
(2209) 2470 CALL SRCH$$ (K$CLOS,*STEMP *,6,0,0,0)
(2210)      CALL SRCH$$ (K$CLOS,*SHEET *,6,0,0,0)
(2211)      CALL SRCH$$ (K$DELE,*SHEET *,6,0,0,0)
(2212)      CALL CNAM$$ (*STEMP *,6,*SHEET *,6,IC)
(2213)      CALL SRCH$$ (K$RDWR+K$NDAM,*SHEET *,6,8,1,IC)
(2214) 2500 IF(R.EQ.1.AND.IR.NE.9) GOTO 3800
(2215)      REWIND 12
(2216) 2510 WRITE(1,2511)
(2217) 2511 FORMAT(* WHAT SHEET NUMBER DO YOU WISH TO REVISE A REFERENCED *,
(2218) 1*E.0*,/,* EXAMPLE: SHEET # 2.1 !02!!10!*,/,*! !! !*/)
(2219)      READ(1,2512,ERR=2510)(ISHTN(K),K=1,2)
(2220) 2512 FORMAT(1X,I2,2X,I2)
(2221)      IF(ISHTN(1).NE.1.OR.ISHTN(2).NE.0) GOTO 2515
(2222)      DO 2550 I=1,10
(2223)      IF(FOREF(I,1).NE.* *) GOTO 2553
(2224)      GO TO 2563
(2225) 2553 WRITE(1,2505) I,(FOREF(I,J),J=1,2)
(2226) 2550 CONTINUE
(2227) 2563 WRITE(1,2605)
(2228)      READ(1,2620,ERR=2563) IOPT
(2229)      DO 2570 J=1,IOPT
(2230)      IF(IOPT.LT.0.OR.IOPT.GT.1) GOTO 2563
```

(2231) IF(IOPT.EQ.0) GO TO 3800  
(2232) 2564 WRITE(1,2650) I  
(2233) READ(1,2620,ERR=2564) K  
(2234) 2565 WRITE(1,2660)  
(2235) READ(1,2670,ERR=2565)(EOREF(K,N),N=1,2)  
(2236) 2570 CONTINUE  
(2237) GO TO 3800  
(2238) 2515 CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*STEMP ',6,10,1,IC)  
(2239) 2516 READ(12,END=2800)DRW,SHTN,REV,NEO,EOREF  
(2240) DO 2520 I=1,4  
(2241) IF(DRAW(I).NE.DRW(I)) GOTO 2750  
(2242) 2520 CONTINUE  
(2243) DO 2530 I=1,2  
(2244) IF(ISHTN(I).NE.SHTN(I)) GOTO 2750  
(2245) 2530 CONTINUE  
(2246) DO 2600 I=1,10  
(2247) IF(EOREF(I,1).NE.' ') GOTO 2503  
(2248) GO TO 2603  
(2249) 2503 WRITE(1,2505) I,(EOREF(I,J),J=1,2)  
(2250) 2505 FORMAT(3X,I2,'. ',2A4)  
(2251) 2600 CONTINUE  
(2252) 2603 WRITE(1,2605)  
(2253) 2605 FORMAT(' HOW MANY DO YOU WISH TO REVISE')  
(2254) READ(1,2620,ERR=2603)IOPT  
(2255) 2620 FORMAT(I2)  
(2256) IF(IOPT.LT.0.OR.IOPT.GT.I) GOTO 2603  
(2257) IF(IOPT.EQ.0) GOTO 2700  
(2258) DO 2700 J=1,IOPT  
(2259) 2640 WRITE(1,2650)I  
(2260) 2650 FORMAT(' ENTER THE REFERENCED E.O. NUMBER TO BE REVISED',  
(2261) 1/,' NOTE: MUST BE FROM 1 TO',I2)  
(2262) READ(1,2620,ERR=2640)K  
(2263) WRITE(1,2660)  
(2264) 2660 FORMAT(' ENTER REVISED REFERENCED E.O.',/,',!',8X, '!')  
(2265) READ(1,2670,ERR=2660)(EOREF(K,N),N=1,2)  
(2266) 2670 FORMAT(1X,2A4)  
(2267) 2700 CONTINUE  
(2268) 2750 WRITE(14) DRW,SHTN,REV,NEO,EOREF

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(2269)      GO TO 2516
(2270) 2800 CALL SRCH$$ (K$CLOS, *STEMP ' ,6,0,0,0)
(2271)      CALL SRCH$$ (K$CLOS, *SHEET ' ,6,0,0,0)
(2272)      CALL SRCH$$ (K$DELE, *SHEET ' ,6,0,0,0)
(2273)      CALL CNAM$$ (*STEMP ' ,6, *SHEET ' ,6, IC)
(2274)      CALL SRCH$$ (K$RDWR+K$NDAM, *SHEET ' ,6,8,1, IC)
(2275) 3800 CONTINUE
(2276) C
(2277) C      END OF INPUT/REVISE ITEMS AS OF 7/26/78
(2278) C
(2279) 9999 CALL SHOWDW
(2280)      RETURN
(2281)      END
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CNAMSS	R	EXTERNAL	000000	2212	2273						
DRAW	J	//	000000	2060S	2121M	2123	2190	2241			
DRW	J	//	000226	2060S	2187M	2190	2207	2239M	2241	2268	
DT	I	//	000130	2060S	2127M	2129					
EDT	I	//	000437	2060S							
EON	J	//	000312	2060S							
EOREF	J	//	000242	2060S	2187M	2203M	2204M	2207	2239M	2247	
				2249	2265M	2268					
EOREV	I	//	000436	2060S							
EOVEH	I	//	000445	2060S							
EPIT	J	//	000370	2060S							
EKDT	I	//	000442	2060S							
ETIT	J	//	000316	2060S							
FEOREF	J	//	000156	2060S	2181M	2182M	2223	2225	2235M		
FINISH	I		003761	2063S	2172M	2188	2206M				
FIKST	I	//	000465	2060S							
FIXSHT	R	EXTERNAL	000000	2159							
FNEG	I	//	000155	2060S	2179M						
FREV	I	//	000154	2060S	2177M						
I	I		003762	2115M	2116	2141M	2143M	2189M	2190	2192M	
				2193	2222M	2223	2225	2230	2232	2240M	
				2241	2243M	2244	2246M	2247	2249	2256	
				2259							
IC	I		003764	2185A	2212A	2213A	2238A	2273A	2274A		
IDR	J	//	000452	2060S							
IEDUP	I		003765	2063S	2069M	2101M	2178	2200			
IER	I		000002	2063S							
IKNT	I		003766	2074M	2076	2077	2078				
INZO	I	//	000462	2060S							
INPSDW	I		000000	2059S							
INPS	I	EXTERNAL	000000	2166							
IGPT	I		003767	2063S	2087M	2088	2089	2097M	2099	2100	
				2228M	2229	2230	2231	2254M	2256	2257	
				2258							
IR	I		003770	2081M	2082	2083	2105	2118	2124	2130	
				2138	2145	2157	2168	2214			
ISHTM	I		000005	2063S	2173M	2175	2193	2219M	2221	2244	
J	I		003771	2141M	2143M	2225M	2229M	2249M	2258M		

K	I	003772	2173M	2180M	2181	2182	2202M	2203	2204
			2219M	2233M	2235	2262M	2265		
K\$ALLD	I	PARAMETER	2061S						
K\$CACC	I	PARAMETER	2061S						
K\$CLOS	I	PARAMETER	2061S	2209	2210	2270	2271		
K\$CONV	I	PARAMETER	2061S						
K\$CURR	I	PARAMETER	2061S						
K\$DELE	I	PARAMETER	2061S	2211	2272				
K\$DMPB	I	PARAMETER	2061S						
K\$DTIM	I	PARAMETER	2061S						
K\$ENTR	I	000000	2061S						
K\$EXST	I	PARAMETER	2061S						
K\$GOND	I	PARAMETER	2061S						
K\$GPOS	I	PARAMETER	2061S						
K\$HOME	I	PARAMETER	2061S						
K\$ICUR	I	PARAMETER	2061S						
K\$IMFD	I	PARAMETER	2061S						
K\$IRTN	I	PARAMETER	2061S						
K\$ISEG	I	PARAMETER	2061S						
K\$IUFD	I	PARAMETER	2061S						
K\$MENT	I	000000	2061S						
K\$MSIZ	I	PARAMETER	2061S						
K\$MVNT	I	PARAMETER	2061S						
K\$NDAM	I	PARAMETER	2061S	2185	2213	2238	2274		
K\$NRTN	I	PARAMETER	2061S						
K\$NSAM	I	PARAMETER	2061S						
K\$NSGD	I	PARAMETER	2061S						
K\$NSGS	I	PARAMETER	2061S						
K\$POSA	I	PARAMETER	2061S						
K\$POSN	I	PARAMETER	2061S						
K\$POSR	I	PARAMETER	2061S						
K\$PREA	I	PARAMETER	2061S						
K\$PRER	I	PARAMETER	2061S						
K\$PROT	I	PARAMETER	2061S						
K\$RDWR	I	PARAMETER	2061S	2185	2213	2238	2274		
K\$READ	I	PARAMETER	2061S						
K\$RPOS	I	PARAMETER	2061S						
K\$RSUB	I	PARAMETER	2061S						

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KSRWLK	I	PARAMETER	2061S																		
KSEENT	I	000000	2061S																		
KSETC	I	PARAMETER	2061S																		
KSETH	I	PARAMETER	2061S																		
KISPOS	I	PARAMETER	2061S																		
KSRTN	I	PARAMETER	2061S																		
KSTRNC	I	PARAMETER	2061S																		
KSUPOS	I	PARAMETER	2061S																		
KSWRIT	I	PARAMETER	2061S																		
KNT	J	//	000463	2060S																	
LEN	I		003774	2109M	2110A																
LOOP	I		003775	2078M																	
N	I		003776	2235M	2265M																
NEU	I	//	000241	2060S	2187M	2201M	2207	2239M	2268												
NEWSHT	I		003777	2063S	2070M	2090M	2159	2165													
NSHT	I	//	000153	2060S	2162M	2164															
PTIT	J	//	000062	2060S	2113	2116															
R	I	//	000451	2060S	2071	2105	2118	2124	2130	2138											
				2145	2157	2158	2165	2166	2168	2214											
REV	I	//	000240	2060S	2187M	2197M	2199	2207	2239M	2268											
SECOND	I	//	000466	2060S																	
SECT	J	//	000145	2060S	2154M	2156															
SPOWDW	R	EXTERNAL	000000	2279																	
SP-TADD	R	EXTERNAL	000000	2165																	
SHIN	I	//	000236	2060S	2187M	2193	2207	2239M	2244	2268											
SRCH\$\$	R	EXTERNAL	000000	2185	2209	2210	2211	2213	2238	2270											
				2271	2272	2274															
SYS	J	//	000133	2060S	2135M	2137															
TINPUT	R	EXTERNAL	000000	2110																	
TIT	J	//	000010	2060S	2110A	2111															
TTIT	J	//	000467	2060S	2116M																
VEH	I	//	000141	2060S	2141M	2143															
_1			000025	2072	2073D																
_10			000072	2074	2075D	2081															
_100			000524	2071	2082	2088	2091	2099	2105D												
_101			000543	2106	2107D																
_102			000623	2111	2112D																

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103	000537	21060			
104	000664	2115	21170		
105	000643	2113	21140		
11	000207	2084	20850		
110	000575	21080			
19	000325	2083	20920	2097	2100
2	000020	20720	2074	2076	2077
20	000331	2092	20930		
200	000673	2105	21180		
201	000707	21190	2121		
202	000713	2119	21200		
203	000750	2121	21220	2123	
2200	001345	2138	21440		
2201	001362	21460	2154		
2202	001366	2146	21470		
2203	001656	2154	21550	2156	
2300	001672	2145	21570		
2301	001716	2158	21600	2162	
2302	001722	2160	21610		
2303	001757	2162	21630	2164	
2400	002012	2157	21680		
2401	002355	21950			
2402	002362	2176	2195	21960	
2403	002426	2177	2197	21980	2199
2407	002026	21690	2173		
2408	002032	2169	21700		
2409	002143	2173	21740		
2410	002256	21870	2208		
2411	002243	2175	21850		
2415	002327	2189	21910		
2420	002347	2192	21940		
2448	002167	21760	2177	2197	
2449	002234	2180	21830		
2450	002467	2202	22050		
2455	002475	2200	22060		
2460	002500	2188	2190	2193	22070
2470	002524	2187	22090		
25	000505	2087	2097	20980	

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2500	002573	2168	2214D						
2503	003310	2247	2249D						
2505	003342	2225	2249	22500					
2510	002613	2216D	2219						
2511	002617	2216	2217D						
2512	002741	2219	2220D						
2515	003165	2221	2238D						
2516	003175	2239D	2269						
2520	003244	2240	2242D						
2530	003264	2243	2245D						
2550	003040	2222	2226D						
2553	003004	2223	2225D						
2563	003046	2224	2227D	2228	2230				
2564	003103	2232D	2233						
2565	003123	2234D	2235						
2570	003157	2229	2236D						
2600	003354	2246	2251D						
2603	003363	2248	2252D	2254	2256				
2605	003367	2227	2252	2253D					
2620	003424	2228	2233	2254	2255D	2262			
2640	003450	2259D	2262						
2650	003457	2232	2259	2260D					
2660	003547	2234	2263	2264D	2265				
2670	003632	2235	2265	2266D					
2700	003637	2257	2258	2267D					
2750	003646	2241	2244	2268D					
2800	003672	2239	2270D						
3	000114	2079	2080D						
3800	003741	2078	2167	2178	2184	2214	2231	2237	
		2275D							
400	000766	2118	2124D						
401	001001	2125D	2127						
402	001005	2125	2126D						
403	001041	2127	2128D	2129					
5	000110	2079D	2081						
500	001055	2124	2130D						
501	001070	2131D	2135						
502	001075	2131	2132D						

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_503	001161	2135	2136D	2137
_9	000203	2084D	2087	2089
_900	001200	2130	2138D	
_901	001214	2139D	2141	
_902	001220	2139	2140D	
_903	001301	2141	2142D	2143
_9999	003751	2279D		

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(2282)      SUBROUTINE INPSS
(2283)  C
(2283)  C      COMMON BLOCK FOR THE DRAW-EO FILE
(2283)  C
(2283)      COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,
(2283)  1      DRW,SHTN,REV,NEO,EOREF,
(2283)  1      EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,
(2283)  1      R,IDR,INEO,KNT,FIRST,SECOND,TTIT
(2283)  C
(2283)  C      DATA DECLARATION BLOCK FOR THE DRAW-EO FILE
(2283)  C
(2283)      INTEGER*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),
(2283)  1      DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),
(2283)  1      IDR(4),KNT,TTIT(19)
(2283)      INTEGER*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,
(2283)  1      EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,
(2283)  1      FIRST,SECOND
(2283)  C
(2283)  C
(2284)  1000 WRITE(1,1001)
(2285)  1001 FORMAT(* ENTER THE FOLLOWING DATA:*,/,,* SHEET# 1*,/,,* REVISION*,
(2286)  1*, IF NONE, NC*,/,,*! !*/)
(2287)      READ(1,1003,ERR=1000)FREV
(2288)  1003 FORMAT(1X,A2)
(2289)  1005 WRITE(1,1006)
(2290)  1006 FORMAT(* NUMBER OF E.O.**S*,/,,*! !*/)
(2291)      READ(1,1008,ERR=1005)FNEO
(2292)  1008 FORMAT(1X,I2)
(2293)      DO 1009 I=1,10
(2294)      DO 1010 J=1,2
(2295)      FEOREF(I,J)=*
(2296)  1010 CONTINUE
(2297)  1009 CONTINUE
(2298)      IF(FNEO.EQ.0) GOTO 1200
(2299)      WRITE(1,2502)
(2300)      DO 1200 K=1,FNEO
(2301)  1201 WRITE(1,2510)
(2302)      READ(1,2520,ERR=1201)(FEOREF(K,L),L=1,2)

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(2303)      REWIND 18
(2304) 1203  READ(18,END=1210)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(2305)      DO 1206 L=1,2
(2306)      IF(EON(L).NE.FEOREF(K,L)) GOTO 1203
(2307) 1206  CONTINUE
(2308)      GO TO 1200
(2309) 1210  R=0
(2310)      FIRST=1
(2311)      WRITE(1,1205)
(2312) 1205  FORMAT(* ENTER ANY FURTHER AVAILABLE DATA FOR EACH E.O.*/)
(2313) 1211  READ(18,END=1215)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(2314)      GO TO 1211
(2315) 1215  CALL INPSE
(2316)      DO 1216 M=1,2
(2317)      EON(M)=FEOREF(K,M)
(2318) 1216  CONTINUE
(2319)      WRITE(18)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
(2320) 1200  CONTINUE
(2321)      IF(NSHT.LT.2) RETURN
(2322) 2400  DO 2800 J=2,NSHT
(2323) 2401  WRITE(1,2402)
(2324) 2402  FORMAT(* ENTER THE FOLLOWING DATA:*,/,2X,*EXAMPLE SHEET ENTRY:*,
(2325) 1* SHEET# 2-1 !02!!10!*,/,*! !! !*/)
(2326)      READ(1,2403,ERR=2401)(SHTN(K),K=1,2)
(2327) 2403  FORMAT(1X,I2,2X,I2)
(2328) 2404  WRITE(1,2405)
(2329) 2405  FORMAT(* REVISION: IF NONE, NC*,/,*! !*/)
(2330)      READ(1,1003,ERR=2404)REV
(2331) 2406  WRITE(1,1006)
(2332)      READ(1,1008,ERR=2406)NEO
(2333)      DO 2451 K=1,10
(2334)      DO 2450 L=1,2
(2335)      EOREF(K,L)=*
(2336) 2450  CONTINUE
(2337) 2451  CONTINUE
(2338)      IF(NEO.EQ.0) GOTO 2700
(2339)      IF(NEO.LT.0) GOTO 2401
(2340) 2500  WRITE(1,2502)
```

(2341) 2502 FORMAT(' (9) REFERENCED E.O.'\*S\*')  
(2342) DO 2550 K=1,NEO  
(2343) 2508 WRITE(1,2510)  
(2344) 2510 FORMAT('!\*',8X,'!\*')  
(2345) READ(1,2520,ERR=2508) (EOREF(K,L),L=1,2)  
(2346) 2520 FORMAT(1X,2A4)  
(2347) WRITE(1,1205)  
(2348) REWIND 18  
(2349) 2530 READ(18,END=1240)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(2350) DO 2532 L=1,2  
(2351) IF(EON(L).NE.EOREF(K,L)) GOTO 2530  
(2352) 2532 CONTINUE  
(2353) GO TO 2550  
(2354) 1240 R=0  
(2355) FIRST=1  
(2356) 2522 READ(18,END=2545)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(2357) GO TO 2522  
(2358) 2545 CALL INPSE  
(2359) DO 2546 M=1,2  
(2360) EON(M)=EOREF(K,M)  
(2361) 2546 CONTINUE  
(2362) WRITE(18)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH  
(2363) 2550 CONTINUE  
(2364) 2700 WRITE(12)DRAW,SHTN,REV,NEO,EOREF  
(2365) 2800 CONTINUE  
(2366) RETURN  
(2367) END

DRAW	J //	000000	2283S	2364						
DRW	J //	000226	2283S							
DT	I //	000130	2283S							
EET	I //	000437	2283S	2304M	2313M	2319	2349M	2356M	2362	
EGH	J //	000312	2283S	2304M	2306	2313M	2317M	2319	2349M	
			2351	2356M	2360M	2362				
EGREF	J //	000242	2283S	2335M	2345M	2351	2360	2364		
ECREV	I //	000436	2283S	2304M	2313M	2319	2349M	2356M	2362	
EJVEH	I //	000445	2283S	2304M	2313M	2319	2349M	2356M	2362	
EPTIT	J //	000370	2283S	2304M	2313M	2319	2349M	2356M	2362	
EKDT	I //	000442	2283S	2304M	2313M	2319	2349M	2356M	2362	
ETIT	J //	000316	2283S	2304M	2313M	2319	2349M	2356M	2362	
FEOREF	J //	000156	2283S	2295M	2302M	2306	2317			
FIRST	I //	000465	2283S	2310M	2355M					
FNEO	I //	000155	2283S	2291M	2298	2300				
FFEVE	I //	000154	2283S	2287M						
I	I	001371	2293M	2295						
IDR	J //	000452	2283S							
INEO	I //	000462	2283S							
INPSE	I EXTERNAL	000000	2315	2358						
IMPSS	I	000600	2282S							
J	I	001373	2294M	2295	2322M					
K	I	001374	2300M	2302	2306	2317	2326M	2333M	2335	
			2342M	2345	2351	2360				
KNT	J //	000463	2283S							
L	I	001375	2302M	2305M	2306	2334M	2335	2345M	2350M	
			2351							
M	I	001376	2316M	2317	2359M	2360				
NEO	I //	000241	2283S	2332M	2338	2339	2342	2364		
NSHT	I //	000153	2283S	2321	2322					
PLIT	J //	000062	2283S							
R	I //	000451	2283S	2309M	2354M					
REV	I //	000240	2283S	2330M	2364					
SECOND	I //	000466	2283S							
SECT	J //	000145	2283S							
SHTN	I //	000236	2283S	2326M	2364					
SYS	J //	000133	2283S							
TIT	J //	000010	2283S							

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TTIT	J //	000467	2283S		
VEH	I //	000141	2283S		
_1000		000001	2284D	2287	
_1001		000006	2284	2285D	
_1003		000073	2287	2288D	2330
_1005		000100	2289D	2291	
_1006		000104	2289	2290D	2331
_1008		000136	2291	2292D	2332
_1009		000174	2293	2297D	
_1010		000165	2294	2296D	
_1200		000522	2298	2300	2308 23200
_1201		000215	2301D	2302	
_1203		000255	2304D	2306	
_1205		000355	2311	2312D	2347
_1206		000335	2305	2307D	
_1210		000343	2304	2309D	
_1211		000410	2313D	2314	
_1215		000443	2313	2315D	
_1216		000464	2316	2318D	
_1240		001202	2343	2354D	
_2400		000537	2322D		
_2401		000542	2323D	2326	2339
_2402		000547	2323	2324D	
_2403		000657	2326	2327D	
_2404		000667	2328D	2330	
_2405		000673	2328	2329D	
_2406		000730	2331D	2332	
_2450		000766	2334	2336D	
_2461		000774	2333	2337D	
_2500		001010	2340D		
_2502		001014	2299	2340	2341D
_2508		001035	2343D	2345	
_2510		001041	2301	2343	2344D
_2520		001100	2302	2345	2346D
_2522		001210	2356D	2357	
_2530		001114	2349D	2351	
_2532		001174	2350	2352D	

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SUBROUTINE INPSS

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2545	001243	2356	23580	
2546	001265	2359	23610	
2550	001324	2342	2353	23630
2700	001332	2338	23640	
2800	001355	2322	23650	

0000 ERRORS [ <INPSS >FTN-REV14.2 ]

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(2368) SUBROUTINE FIXSHT  
 (2369) C  
 (2369) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (2369) C  
 (2369) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (2369) 1 DRW,SHTN,REV,NEO,EOREF,  
 (2369) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (2369) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (2369) C  
 (2369) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (2369) C  
 (2369) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (2369) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (2369) 1 IDR(4),KNT,TTIT(19)  
 (2369) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (2369) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (2369) 1 FIRST,SECOND  
 (2369) C  
 (2369) C  
 (2370) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2370) NOLIST  
 (2371) REWIND 12  
 (2372) CALL SRCH\$\$ (K\$RDWR+K\$NDAM,\*STEMP \*,6,10,1,IC)  
 (2373)  
 (2374) 50 READ(12,END=1000) DRW,SHTN,REV,NEO,EOREF  
 (2375) DO 100 I=1,4  
 (2376) IF(DRAW(I).NE.DRW(I)) GOTO 200  
 (2377) 100 CONTINUE  
 (2378) RETURN  
 (2379) 200 WRITE(14)DRW,SHTN,REV,NEO,EOREF  
 (2380) GO TO 50  
 (2381) 1000 WRITE(1,300)  
 (2382) 300 FORMAT(\* AN ERROR HAS OCCURRED DURING THIS OPERATION\*)  
 (2383) CALL SRCH\$\$ (K\$CLOS,\*STEMP \*,6,0,0,0)  
 (2384) CALL SRCH\$\$ (K\$CLOS,\*DRAW \*,6,0,0,0)  
 (2385) CALL SRCH\$\$ (K\$CLOS,\*EO \*,6,0,0,0)  
 (2386) CALL SRCH\$\$ (K\$CLOS,\*SHEET \*,6,0,0,0)  
 (2387) CALL SRCH\$\$ (K\$CLOS,\*REVS \*,6,0,0,0)

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SUBROUTINE FIXSHT

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(2388)  
(2389)

CALL EXIT  
END

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DRAW	J //	000000	2369S	2376				
DRW	J //	000226	2369S	2374M	2376	2379		
DT	I //	000130	2369S					
EDT	I //	000437	2369S					
EON	J //	000312	2369S					
EOREF	J //	000242	2369S	2374M	2379			
EOREV	I //	000436	2369S					
EOVEH	I //	000445	2369S					
EPTIT	J //	000370	2369S					
ERDT	I //	000442	2369S					
ETIT	J //	000316	2369S					
EXIT	R EXTERNAL	000000	2388					
FEOREF	J //	000156	2369S					
FIRST	I //	000465	2369S					
FIXSHT	R	000000	2368S					
FNEO	I //	000155	2369S					
FREV	I //	000154	2369S					
I	I	000227	2375M	2376				
IC	I	000231	2372A					
IDR	J //	000452	2369S					
INEO	I //	000462	2369S					
K\$ALLD	I PARAMETER		2370S					
K\$CACC	I PARAMETER		2370S					
K\$CLOS	I PARAMETER		2370S	2383	2384	2385	2386	2387
K\$CONV	I PARAMETER		2370S					
K\$CURR	I PARAMETER		2370S					
K\$DELE	I PARAMETER		2370S					
K\$DMPB	I PARAMETER		2370S					
K\$DTIM	I PARAMETER		2370S					
K\$ENTR	I	000000	2370S					
K\$EXST	I PARAMETER		2370S					
K\$GGND	I PARAMETER		2370S					
K\$GPOS	I PARAMETER		2370S					
K\$HOME	I PARAMETER		2370S					
K\$ICUR	I PARAMETER		2370S					
K\$IMFD	I PARAMETER		2370S					
K\$IRTN	I PARAMETER		2370S					
K\$ISEG	I PARAMETER		2370S					

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K\$IUFD I PARAMETER 2370S  
 K\$MENT I 000000 2370S  
 K\$MSIZ I PARAMETER 2370S  
 K\$MVNT I PARAMETER 2370S  
 K\$NDAM I PARAMETER 2370S 2372  
 K\$NRIN I PARAMETER 2370S  
 K\$NSAM I PARAMETER 2370S  
 K\$NSGD I PARAMETER 2370S  
 K\$NSGS I PARAMETER 2370S  
 K\$POSA I PARAMETER 2370S  
 K\$FOSN I PARAMETER 2370S  
 K\$POSR I PARAMETER 2370S  
 K\$PREA I PARAMETER 2370S  
 K\$PRER I PARAMETER 2370S  
 K\$PROT I PARAMETER 2370S  
 K\$RDWR I PARAMETER 2370S 2372  
 K\$READ I PARAMETER 2370S  
 K\$RPOS I PARAMETER 2370S  
 K\$RSUB I PARAMETER 2370S  
 K\$RWLK I PARAMETER 2370S  
 K\$SENT I 000000 2370S  
 K\$SETC I PARAMETER 2370S  
 K\$SETH I PARAMETER 2370S  
 K\$SPOS I PARAMETER 2370S  
 K\$SRTN I PARAMETER 2370S  
 K\$TRNC I PARAMETER 2370S  
 K\$UPOS I PARAMETER 2370S  
 K\$WRIT I PARAMETER 2370S  
 KNT J // 000463 2369S  
 NEG I // 000241 2369S 2374M 2379  
 NSHT I // 000153 2369S  
 PIIT J // 000062 2369S  
 R I // 000451 2369S  
 REV I // 000240 2369S 2374M 2379  
 SECOND I // 000466 2369S  
 SECT J // 000145 2369S  
 SHTN I // 000236 2369S 2374M 2379  
 SRCH\$\$ R EXTERNAL 000000 2372 2383 2384 2385 2386 2387

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SUBROUTINE FIXSHT

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SYS	J //	000133	2369S
YIT	J //	000010	2369S
TTIT	J //	000467	2369S
VEH	I //	000141	2369S

_100	000063	2375	2377D
_1000	000117	2374	2381D
_200	000073	2376	2379D
_300	000124	2381	2382D
_50	000014	2374D	2380

0000 ERRORS [<FIXSHT>FTN-REV14.2]

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(2390) SUBROUTINE SHTADD  
 (2391) C  
 (2391) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (2391) C  
 (2391) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (2391) 1 DRW,SHTN,REV,NEO,EOREF,  
 (2391) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH,  
 (2391) 1 R,IDR,INFO,KNT,FIRST,SECOND,TTIT  
 (2391) C  
 (2391) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (2391) C  
 (2391) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (2391) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (2391) 1 IDR(4),KNT,TTIT(19)  
 (2391) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (2391) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
 (2391) 1 FIRST,SECOND  
 (2391) C  
 (2391) C  
 (2392) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2392) NOLIST  
 (2393) INTEGER\*2 IIREV,IISHTN(2),IINEO,FINISH  
 (2394) INTEGER\*4 IIEORE(10,2)  
 (2395) FINISH=0  
 (2396) 5 WRITE(1,10)  
 (2397) 10 FORMAT(' ENTER SHEET NUMBER: EXAMPLE SHEET#2.1 !02!!!10!\*,/,  
 (2398) 1\*! !! !\*/)  
 (2399) READ(1,15,ERR=5)(IISHTN(N),N=1,2)  
 (2400) 15 FORMAT(1X,I2,2X,I2)  
 (2401) IF(IISHTN(1).EG.1) GOTO 30  
 (2402) 16 IF(IISHTN(1).EG.SHTN(1)) GOTO 105  
 (2403) DO 20 I=1,4  
 (2404) IF(DRW(I).NE.DRAW(I)) GOTO 30  
 (2405) 20 CONTINUE  
 (2406) GO TO 105  
 (2407) 30 IIREV='NC'  
 (2408) IINEO=0  
 (2409) WRITE(14)DRW,IISHTN,IIREV,IINEO,IIEORE

```
(2410)      WRITE(14)DRW,SHTN,REV,NEO,EOREF
(2411)      FINISH=1
(2412)  100  READ(12,END=200)DRW,SHTN,REV,NEO,EOREF
(2413)      IF(FINISH.EQ.0) GOTO 16
(2414)  105  WRITE(14)DRW,SHTN,REV,NEO,EOREF
(2415)      GO TO 100
(2416)  200  CALL SRCH$$ (K$CLOS,*SHEET *,6,0,0,0)
(2417)      CALL SRCH$$ (K$CLOS,*STEMP *,6,0,0,0)
(2418)      CALL SRCH$$ (K$DELE,*SHEET *,6,0,0,0)
(2419)      CALL CNAM$$ (*STEMP *,6,*SHEET *,6,IC)
(2420)      CALL SRCH$$ (K$RDWR+K$NDAM,*SHEET *,6,8,1,IC)
(2421)      RETURN
(2422)      END
```

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CNAMSS	R	EXTERNAL	000000	2419					
DRAW	J	//	000600	2391S	2404				
DRW	J	//	000226	2391S	2404	2409	2410	2412M	2414
DT	I	//	000130	2391S					
EDT	I	//	000437	2391S					
EON	J	//	000312	2391S					
EDREF	J	//	000242	2391S	2410	2412M	2414		
EDREV	I	//	000436	2391S					
EOVEH	I	//	000445	2391S					
EPTIT	J	//	000370	2391S					
ERDT	I	//	000442	2391S					
ETIT	J	//	000316	2391S					
FEGREF	J	//	000156	2391S					
FINISH	I		000434	2393S	2395M	2411M	2413		
FIRST	I	//	000465	2391S					
FNEC	I	//	000155	2391S					
FREV	I	//	000154	2391S					
I	I		000435	2403M	2404				
IC	I		000437	2419A	2420A				
IDR	J	//	000452	2391S					
IIEORE	J		000002	2394S	2409				
IINEO	I		000440	2393S	2408M	2409			
IIREV	I		000441	2393S	2407M	2409			
IISHTN	I		000052	2393S	2399M	2401	2402	2409	
INEO	I	//	000462	2391S					
K\$ALLD	I	PARAMETER		2392S					
K\$CACC	I	PARAMETER		2392S					
K\$CLOS	I	PARAMETER		2392S	2416	2417			
K\$CONV	I	PARAMETER		2392S					
K\$CURR	I	PARAMETER		2392S					
K\$DELE	I	PARAMETER		2392S	2418				
K\$DMPB	I	PARAMETER		2392S					
K\$DTIM	I	PARAMETER		2392S					
K\$ENTR	I		000000	2392S					
K\$EXST	I	PARAMETER		2392S					
K\$GOND	I	PARAMETER		2392S					
K\$GPOS	I	PARAMETER		2392S					
K\$HOME	I	PARAMETER		2392S					

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K\$ICUR	I	PARAMETER	2392S		
K\$IMFD	I	PARAMETER	2392S		
K\$IRTN	I	PARAMETER	2392S		
K\$ISEG	I	PARAMETER	2392S		
K\$IUFD	I	PARAMETER	2392S		
K\$MENT	I	000000	2392S		
K\$MSIZ	I	PARAMETER	2392S		
K\$MVNT	I	PARAMETER	2392S		
K\$NDAM	I	PARAMETER	2392S	2420	
K\$NRTN	I	PARAMETER	2392S		
K\$NSAM	I	PARAMETER	2392S		
K\$NSGD	I	PARAMETER	2392S		
K\$NSGS	I	PARAMETER	2392S		
K\$POSA	I	PARAMETER	2392S		
K\$POSN	I	PARAMETER	2392S		
K\$PCSR	I	PARAMETER	2392S		
K\$PREA	I	PARAMETER	2392S		
K\$PRER	I	PARAMETER	2392S		
K\$PROT	I	PARAMETER	2392S		
K\$RDWR	I	PARAMETER	2392S	2420	
K\$READ	I	PARAMETER	2392S		
K\$RPOS	I	PARAMETER	2392S		
K\$RSUB	I	PARAMETER	2392S		
K\$RWLK	I	PARAMETER	2392S		
K\$SENT	I	000000	2392S		
K\$SETC	I	PARAMETER	2392S		
K\$SETH	I	PARAMETER	2392S		
K\$SPOS	I	PARAMETER	2392S		
K\$SKTN	I	PARAMETER	2392S		
K\$TRNC	I	PARAMETER	2392S		
K\$UPOS	I	PARAMETER	2392S		
K\$WRIT	I	PARAMETER	2392S		
KNT	J	//	000463	2391S	
N	I		000442	2399M	
NEO	I	//	000241	2391S	2410 2412M 2414
NSHT	I	//	000153	2391S	
PTIT	J	//	000062	2391S	
R	I	//	000451	2391S	

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2412

REV	I //	000240	2391S	2410	2412M	2414
SECOND	I //	000466	2391S			
SECT	J //	000145	2391S			
SHTADD	R	000000	2390S			
SHTN	I //	000236	2391S	2402	2410	2412M 2414
SRCH\$\$	R EXTERNAL	000000	2416	2417	2418	2420
SYS	J //	000133	2391S			
TIT	J //	000010	2391S			
TYIT	J //	000467	2391S			
VEH	I //	000141	2391S			
-10		000064	2396	2397D		
-100		000306	2412D	2415		
-105		000336	2402	2406	2414D	
-15		000155	2399	2400D		
-16		000171	2402D	2413		
-20		000221	2403	2405D		
-200		000361	2412	2416D		
-30		000230	2401	2404	2407D	
-5		000057	2396D	2399		

0000 ERRORS [ <SHTADD>FTN-REV14.2 ]

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(2423) SUBROUTINE INPSE  
(2424) C  
(2424) C COMMON BLOCK FOR THE DRAW-EO FILE  
(2424) C  
(2424) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
(2424) 1 DRW,SHTN,REV,NEO,EOREF,  
(2424) 1 EON,ETIT,EPTIT,EOREV,EDT,EROT,EOVEH,  
(2424) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
(2424) C  
(2424) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
(2424) C  
(2424) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
(2424) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
(2424) 1 IDR(4),KNT,TTIT(19)  
(2424) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
(2424) 1 EOREV,EDT(3),ERDT(3),EOVEH(2,2),R,INEO,  
(2424) 1 FIRST,SECOND  
(2424) C  
(2424) C  
(2425) C  
(2426) C INTEGER\*2 IER(3),IOPT  
(2427) C  
(2428) C THIS ROUTINE PROVIDES THE BASIC I/O FOR THE  
(2429) C E.O. SUBFILE INPUT/REVISE ROUTINES  
(2430) C  
(2431) C IE0ADD=0  
(2432) C IF(R.EQ.0) GO TO 100  
(2433) 2 WRITE(1,1)  
(2434) 1 FORMAT(\* HOW MANY ITEMS DO YOU WISH TO REVISE (MAX OF 6)\*,/)   
(2435) READ(1,10,ERR=2)IKNT  
(2436) 10 FORMAT(I3)  
(2437) IF(IKNT.LT.0) GO TO 2  
(2438) IF(IKNT.GT.6) GO TO 2  
(2439) DO 3800 LOOP=1,IKNT,1  
(2440) 5 WRITE(1,3)  
(2441) 3 FORMAT(\* INPUT THE ITEM NUMBER THAT YOU WISH TO REVISE\*,/)  
(2442) READ(1,10,ERR=5)IR  
(2443) C

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(2444) C BEGIN INPUT  
(2445) C  
(2446) 100 IF(R.EQ.1.AND.IR.NE.1) GO TO 200  
(2447) 103 WRITE(1,101)  
(2448) 101 FORMAT(\* (1) TITLE (7 WORDS - 10 CHAR.)\*,/,!\* ,76X,\*!\*/)   
(2449) LEN=10  
(2450) CALL TINPUT(ETIT,LEN)  
(2451) WRITE(1,102)ETIT  
(2452) 102 FORMAT(7(1X,2A4,A2)/)  
(2453) DO 105 L=1,19  
(2454) EPTIT(L)=PTIT(L)  
(2455) 105 CONTINUE  
(2456) WRITE(1,110)EPTIT  
(2457) 110 FORMAT(1X,19A4)  
(2458) 200 IF(R.EQ.1.AND.IR.NE.2) GO TO 300  
(2459) IF(R.EQ.0.AND.FIRST.EQ.1) GOTO 300  
(2460) 201 WRITE(1,202)  
(2461) 202 FORMAT(\* (2) E.O. NUMBER\*,/  
(2462) 1!\* ,8X,\*!\*/)   
(2463) READ(1,203,ERR=201)EON  
(2464) 203 FORMAT(1X,2A4)  
(2465) WRITE(1,203)EON  
(2466) 300 CONTINUE  
(2467) 400 IF(R.EQ.1.AND.IR.NE.3) GO TO 900  
(2468) 401 WRITE(1,501)  
(2469) 501 FORMAT(\* (3) REVISION: IF NONE, ENTER NC\*,/,!\* !\*/)   
(2470) READ(1,502,ERR=401)EOREV  
(2471) 502 FORMAT(1X,1A2)  
(2472) WRITE(1,502)EOREV  
(2473) 900 IF(R.EQ.1.AND.IR.NE.4) GO TO 1000  
(2474) 901 WRITE(1,902)  
(2475) 902 FORMAT(\* (4) E.O. DATE\*,/,!\*MMDDYY!\*/)   
(2476) READ(1,903,ERR=901)EDT  
(2477) 903 FORMAT(1X,3I2)  
(2478) WRITE(1,903)EDT  
(2479) 1000 IF(R.EQ.1.AND.IR.NE.5) GOTO 1200  
(2480) 1001 WRITE(1,1002)  
(2481) 1002 FORMAT(\* (5) E.O. REVISION DATE\*,/,!\*MMDDYY!\*/)

```
(2482)      READ(1,903,ERR=1001)ERDT
(2483)      WRITE(1,903)ERDT
(2484) 1200  IF(R.EQ.1.AND.IR.NE.6) GOTO 2200
(2485) 1201  WRITE(1,1202)
(2486) 1202  FORMAT(' (6) VEHICLE',/2('!  !')/)
(2487)      READ(1,1203,ERR=1201)((EOVEH(I,J),J=1,2),I=1,2)
(2488) 1203  FORMAT(2(1X,I3,A1,1X))
(2489)      WRITE(1,1203) ((EOVEH(I,J),J=1,2),I=1,2)
(2490) 2200  CONTINUE
(2491) 3800  CONTINUE
(2492) C
(2493) C      IF E.O. IS A NEW ENTRY, UPDATE SHEET DATA SUBFILE
(2494) C      AND CHECK FOR WARNING MESSAGES
(2495) C
(2496)      IF(R.EQ.0.AND.FIRST.EQ.1) RETURN
(2497)      IF(R.EQ.0) CALL NEOADD
(2498)      CALL SHOWEO
(2499)      RETURN
(2500)      END
```

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DRAW	J //	000000	2424S																	
DRW	J //	000226	2424S																	
DT	I //	000130	2424S																	
EDT	I //	000437	2424S	2476M	2478															
EON	J //	000312	2424S	2463M	2465															
EOREF	J //	000242	2424S																	
EGREV	I //	000436	2424S	2470M	2472															
EOVEH	I //	000445	2424S	2487M	2489															
EPTIT	J //	000370	2424S	2454M	2456															
ERDT	I //	000442	2424S	2482M	2483															
ETIT	J //	000316	2424S	2450A	2451															
FEGREF	J //	000156	2424S																	
FIRST	I //	000465	2424S	2459	2496															
FNEO	I //	000155	2424S																	
FREV	I //	000154	2424S																	
I	I	001067	2487M	2489M																
IOR	J //	000452	2424S																	
IEOADD	I	001070	2431M																	
IER	I	000002	2426S																	
IKNT	I	001071	2435M	2437	2436	2439														
INEO	I //	000462	2424S																	
INPSE	I	000000	2423S																	
IOFT	I	000000	2426S																	
IR	I	001072	2442M	2446	2458	2467	2473	2479	2484											
J	I	001073	2487M	2489M																
KNT	J //	000463	2424S																	
L	I	001074	2453M	2454																
LEN	I	001077	2449M	2450A																
LOOP	I	001100	2439M																	
NEO	I //	000241	2424S																	
NEGADD	I EXTERNAL	000000	2497																	
NSHT	I //	000153	2424S																	
PTIT	J //	000062	2424S	2454																
R	I //	000451	2424S	2432	2446	2458	2459	2467	2473											
			2479	2484	2496	2497														
REV	I //	000240	2424S																	
SECOND	I //	000466	2424S																	
SECT	J //	000145	2424S																	

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SHOWED	R	EXTERNAL	000000	2498	
SHTN	I	//	000236	2424S	
SYS	J	//	000133	2424S	
TINPUT	R	EXTERNAL	000000	2450	
TIT	J	//	000010	2424S	
TTIT	J	//	000467	2424S	
VEH	I	//	000141	2424S	
_1			000021	2433	2434D
_10			000066	2435	2436D 2442
_100			000154	2432	2446D
_1000			000577	2473	2479D
_1001			000614	2480D	2482
_1002			000620	2480	2481D
_101			000174	2447	2448D
_102			000245	2451	2452D
_103			000170	2447D	
_105			000271	2453	2455D
_110			000307	2456	2457D
_1200			000665	2479	2484D
_1201			000700	2485D	2487
_1202			000704	2485	2486D
_1203			000765	2487	2488D 2489
_2			000014	2433D	2435 2437 2438
_200			000315	2446	2458D
_201			000341	2460D	2463
_202			000345	2460	2461D
_203			000400	2463	2464D 2465
_2200			001032	2484	2490D
_3			000110	2440	2441D
_300			000415	2458	2459 2466D
_3800			001032	2439	2491D
_400			000415	2467D	
_401			000431	2468D	2470
_5			000104	2440D	2442
_501			000435	2468	2469D
_502			000476	2470	2471D 2472
_900			000512	2467	2473D

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SUBROUTINE INPSE

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_901	000525	2474D	2476				
_902	000531	2474	2475D				
_903	000563	2476	2477D	2478	2482	2483	

0000 ERRORS [ <INPSE >FTN-REV14.2 ]

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(2501) SUBROUTINE NEOADD  
 (2502) C  
 (2502) C COMMON BLOCK FOR THE DRAW-EO FILE  
 (2502) C  
 (2502) COMMON DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF,  
 (2502) 1 DRW,SHTN,REV,NEO,EOREF,  
 (2502) 1 EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVEH,  
 (2502) 1 R,IDR,INEO,KNT,FIRST,SECOND,TTIT  
 (2502) C  
 (2502) C DATA DECLARATION BLOCK FOR THE DRAW-EO FILE  
 (2502) C  
 (2502) INTEGER\*4 DRAW(4),TIT(21),PTIT(19),SYS(3),SECT(3),FEOREF(10,2),  
 (2502) 1 DRW(4),EOREF(10,2),EPTIT(19),ETIT(21),EON(2),  
 (2502) 1 IDR(4),KNT,TTIT(19)  
 (2502) INTEGER\*2 DT(3),VEH(2,2),NSHT,SHTN(2),FREV,FNEO,REV,NEO,  
 (2502) 1 EOREV,ECT(3),ERDT(3),EVEH(2,2),R,INEO,  
 (2502) 1 FIRST,SECOND  
 (2502) C  
 (2502) C  
 (2503) C SYSCOM>KEYS.F MNEMONIC KEYS FOR FILE SYSTEM (FTN) 31 MAY, 1977  
 (2503) NOLIST  
 (2504) INTEGER\*2 FINISH,IOPT,IAN5,ISHT(2)  
 (2505) 1 WRITE(1,2)  
 (2506) 2 FORMAT(' HOW MANY DRAWINGS DOES THIS E.O. REFERENCE\*')  
 (2507) READ(1,3,ERR=1)IOPT  
 (2508) 3 FORMAT(I2)  
 (2509) IF(IOPT.LE.0) GOTO 1  
 (2510) DO 300 I=1,IOPT  
 (2511) REWIND 12  
 (2512) 4 WRITE(1,5)  
 (2513) 5 FORMAT(' WHAT IS THE DRAWING NUMBER\*,/,\*!\*',14X,\*!\*')  
 (2514) READ(1,6,ERR=4)IOR  
 (2515) 6 FORMAT(1X,3A4,A2)  
 (2516) 7 WRITE(1,8)  
 (2517) 8 FORMAT(' HOW MANY SHEETS OF THIS DRAWING ARE REFERENCED BY THIS \*,  
 (2518) 1'E.O.\*')  
 (2519) READ(1,3,ERR=7)IAN5  
 (2520) IF(IAN5.LE.0) GOTO 7

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D-181  
1001

```
(2521)      DO 250 J=1,IANS
(2522) 12   WRITE(1,13)
(2523) 13   FORMAT(' WHAT IS THE SHEET NUMBER:  EXAMPLE SHEET# 2.1  !02!!!10!')
(2524)      1,/,?!  !!  !?/)
(2525)      READ(1,15,ERR=12)(ISHT(N),N=1,2)
(2526) 15   FORMAT(1X,I2,2X,I2)
(2527)      IF(ISHT(1).LE.0) GOTO 12
(2528)      IF(ISHT(1).EQ.1.AND.ISHT(2).EQ.0) GOTO 255
(2529)      CALL SRCH$(K$RDWR+K$NDAM,'STEMP ',6,10,1,IC)
(2530)      FINISH=0
(2531)      REWIND 12
(2532) 10   READ(12,END=200)DRW,SHTN,REV,NEO,EOREF
(2533)      IF(FINISH.EQ.1) GOTO 100
(2534)      DO 20 L=1,4
(2535)      IF(IDR(L).NE.DRW(L)) GOTO 100
(2536) 20   CONTINUE
(2537)      DO 25 N=1,2
(2538)      IF(ISHT(N).NE.SHTN(N)) GOTO 100
(2539) 25   CONTINUE
(2540)      NEO=NEO+1
(2541)      IF(NEO.EQ.4) WRITE(1,30) (ISHT(N),N=1,2),DRW
(2542)      IF(NEO.EQ.5) WRITE(1,40) (ISHT(N),N=1,2),DRW
(2543)      IF(NEO.GE.6) WRITE(1,50) (ISHT(N),N=1,2),DRW,NEO
(2544) 30   FORMAT(1X,54('**'),/,,' WARNING!!! SHEET# ',I2,',',I2,',',
(2545)      1',3A4,A2,/,',12X,'NOW HAS FOUR E.O.**S',/,',1X,54('**'))
(2546) 40   FORMAT(1X,61('**'),/,,' ATTENTION!!! SHEET# ',I2,',',I2,',',
(2547)      1G ',3A4,A2,/,,' NOW HAS THE MAXIMUM ALLOWABLE OF FIVE E.O.**S',/,',
(2548)      11X,61('**'))
(2549) 50   FORMAT(1X,75('**'),/,,' ATTENTION!!! IMPORTANT!!! REVISION PAST',
(2550)      1'DUE!! IMMEDIATE ACTION REQUIRED!!!',/,,' SHEET#',I2,',',I2,',',
(2551)      1RAWING ',3A4,A2,', NOW HAS ',I2,', E.O.**S',/,',1X,75('**'))
(2552)      DO 150 K=1,2
(2553)      EOREF(NEO,K)=EON(K)
(2554) 150  CONTINUE
(2555)      IF(J.EQ.IANS) FINISH=1
(2556) 100  WRITE(14) DRW,SHTN,REV,NEO,EOREF
(2557)      GO TO 10
(2558) 255  CONTINUE
```

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1002

```
(2559) CALL SRCH$$ (K$RDWR+K$NDAM,*TEMP *6,6,1,IC)
(2560) FINISH=0
(2561) REWIND 6
(2562) ISHT(1)=1
(2563) ISHT(2)=0
(2564) 260 READ(6,END=285)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,
(2565) 1 FEOREF
(2566) IF(FINISH.EQ.1) GOTO 275
(2567) DO 265 L=1,4
(2568) IF(IDR(L).NE.DRAW(L)) GOTO 275
(2569) 265 CONTINUE
(2570) FNEO=FNEO+1
(2571) IF(FNEO.EQ.4) WRITE(1,30) (ISHT(N),N=1,2),DRAW
(2572) IF(FNEO.EQ.5) WRITE(1,40) (ISHT(N),N=1,2),DRAW
(2573) IF(FNEO.GE.6) WRITE(1,50) (ISHT(N),N=1,2),DRAW,FNEO
(2574) DO 270 K=1,2
(2575) FEOREF(FNEO,K)=EON(K)
(2576) 270 CONTINUE
(2577) FINISH=1
(2578) 275 WRITE(10) DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
(2579) GO TO 260
(2580) 285 CALL SRCH$$ (K$CLOS,*TEMP *6,0,0,0)
(2581) CALL SRCH$$ (K$CLOS,*DRAW *6,0,0,0)
(2582) CALL SRCH$$ (K$DELE,*DRAW *6,0,0,0)
(2583) CALL CNAM$$ (*TEMP *6,*DRAW *6,IC)
(2584) CALL SRCH$$ (K$RDWR+K$NDAM,*DRAW *6,2,1,IC)
(2585) FINISH=0
(2586) GO TO 250
(2587) 200 CALL SRCH$$ (K$CLOS,*SHEET *6,0,0,0)
(2588) CALL SRCH$$ (K$CLOS,*STEMP *6,0,0,0)
(2589) CALL SRCH$$ (K$DELE,*SHFET *6,0,0,0)
(2590) CALL CNAM$$ (*STEMP *6,*SHEET *6,IC)
(2591) CALL SRCH$$ (K$RDWR+K$NDAM,*SHEET *6,8,1,IC)
(2592) FINISH=0
(2593) 250 CONTINUE
(2594) 300 CONTINUE
(2595) RETURN
(2596) END
```

CNAMSS	R	EXTERNAL	000000	2583	2590						
DRAW	J	//	000000	2502S	2564M	2558	2571	2572	2573	2578	
DRW	J	//	000226	2502S	2532M	2535	2541	2542	2543	2556	
DT	I	//	000130	2502S	2564M	2578					
EDT	I	//	000437	2502S							
EON	J	//	000312	2502S	2553	2575					
EOREF	J	//	000242	2502S	2532M	2553M	2556				
EOREY	I	//	000436	2502S							
EOVCH	I	//	000445	2502S							
EPTIT	J	//	000370	2502S							
ERDT	I	//	000442	2502S							
ETIT	J	//	000316	2502S							
FEOREF	J	//	000156	2502S	2564M	2575M	2578				
FINISH	I		001757	2504S	2530M	2533	2555M	2560M	2566	2577M	
				2585M	2592M						
FIRST	I	//	000465	2502S							
FNEO	I	//	000155	2502S	2564M	2570M	2571	2572	2573	2575	
				2578							
FREV	I	//	000154	2502S	2564M	2578					
I	I		001760	2510M							
IANS	I		001762	2504S	2519M	2520	2521	2555			
IC	I		001763	2529A	2559A	2583A	2584A	2590A	2591A		
IDR	J	//	000452	2502S	2514M	2535	2568				
INEQ	I	//	000462	2502S							
IOPY	I		001764	2504S	2507M	2509	2510				
ISHT	I		000002	2504S	2525M	2527	2528	2538	2541	2542	
				2543	2562M	2563M	2571	2572	2573		
J	I		001765	2521M	2555						
K	I		001766	2552M	2553	2574M	2575				
K\$ALLD	I	PARAMETER		2503S							
K\$CACC	I	PARAMETER		2503S							
K\$CLOS	I	PARAMETER		2503S	2580	2581	2587	2588			
K\$CONV	I	PARAMETER		2503S							
K\$CURR	I	PARAMETER		2503S							
K\$DELE	I	PARAMETER		2503S	2582	2589					
K\$DNPB	I	PARAMETER		2503S							
K\$DIIM	I	PARAMETER		2503S							
K\$ENFR	I		000000	2503S							

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KSEXST	I	PARAMETER	2503S				
KSGCND	I	PARAMETER	2503S				
KSGPOS	I	PARAMETER	2503S				
KSHOME	I	PARAMETER	2503S				
KSICHR	I	PARAMETER	2503S				
KSIMFD	I	PARAMETER	2503S				
KSIR7N	I	PARAMETER	2503S				
KSISEG	I	PARAMETER	2503S				
KS IUFD	I	PARAMETER	2503S				
KSMENT	I	000000	2503S				
KSMSIZ	I	PARAMETER	2503S				
KS MVNT	I	PARAMETER	2503S				
KSNDAM	I	PARAMETER	2503S	2529	2559	2584	2591
KS NR TN	I	PARAMETER	2503S				
KS NSAM	I	PARAMETER	2503S				
KS NSGD	I	PARAMETER	2503S				
KS NSGS	I	PARAMETER	2503S				
KS POSA	I	PARAMETER	2503S				
KS POSN	I	PARAMETER	2503S				
KS POSR	I	PARAMETER	2503S				
KS PREA	I	PARAMETER	2503S				
KS PRER	I	PARAMETER	2503S				
KS PROT	I	PARAMETER	2503S				
KS RQWR	I	PARAMETER	2503S	2529	2559	2584	2591
KS READ	I	PARAMETER	2503S				
KS RPOS	I	PARAMETER	2503S				
KS RSUB	I	PARAMETER	2503S				
KS RWLK	I	PARAMETER	2503S				
KS SENT	I	000000	2503S				
KS SETC	I	PARAMETER	2503S				
KS SETH	I	PARAMETER	2503S				
KS SPOS	I	PARAMETER	2503S				
KS SRTN	I	PARAMETER	2503S				
KS TRNC	I	PARAMETER	2503S				
KS UPOS	I	PARAMETER	2503S				
KS WRIT	I	PARAMETER	2503S				
KNT	J	//	000463				
L	I		001767	2535	2567M	2568	

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0001

N	I	001771	2525M	2537M	2538	2541M	2542M	2543M	2571M
			2572M	2573M					
NEO	I //	000241	2502S	2532M	2540M	2541	2542	2543	2553
			2556						
NEOADD	I	000000	2501S						
NSHT	I //	000153	2502S	2564M	2578				
PTIT	J //	000062	2502S	2564M	2578				
R	I //	000451	2502S						
REV	I //	000240	2502S	2532M	2556				
SECOND	I //	000466	2502S						
SECT	J //	000145	2502S	2564M	2578				
SHTN	I //	000236	2502S	2532M	2538	2556			
SRCH\$\$	R EXTERNAL	000000	2529	2559	2580	2581	2582	2584	2587
			2588	2589	2591				
SYS	J //	000133	2502S	2564M	2578				
TIT	J //	000010	2502S	2564M	2578				
TTIT	J //	000467	2502S						
VEH	I //	000141	2502S	2564M	2578				
_1		000004	2505D	2507	2509				
_10		000376	2532D	2557					
_100		001215	2533	2535	2538	2556D			
_12		000233	2522D	2525	2527				
_13		000237	2522	2523D					
_15		000334	2525	2526D					
_150		001175	2552	2554D					
_2		000011	2505	2506D					
_20		000450	2534	2536D					
_200		001661	2532	2587D					
_25		000470	2537	2539D					
_250		001732	2521	2586	2593D				
_255		001241	2528	2558D					
_260		001264	2564D	2579					
_265		001357	2567	2569D					
_270		001530	2574	2576D					
_275		001540	2566	2568	2578D				
_285		001606	2564	2580D					
_3		000053	2507	2508D	2519				

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605

_30	000617	2541	2544D	2571
_300	001742	2510	2594D	
_4	000070	2512D	2514	
_40	000710	2542	2546D	2572
_5	000074	2512	2513D	
_50	001015	2543	2549D	2573
_6	000135	2514	2515D	
_7	000144	2516D	2519	2520
_8	000150	2516	2517D	

0000 [ERRORS [<NEOADD>FTN-REV14.2]

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copy

APPENDIX E

SOURCE FOR MISCELLANEOUS EXTERNAL ROUTINES



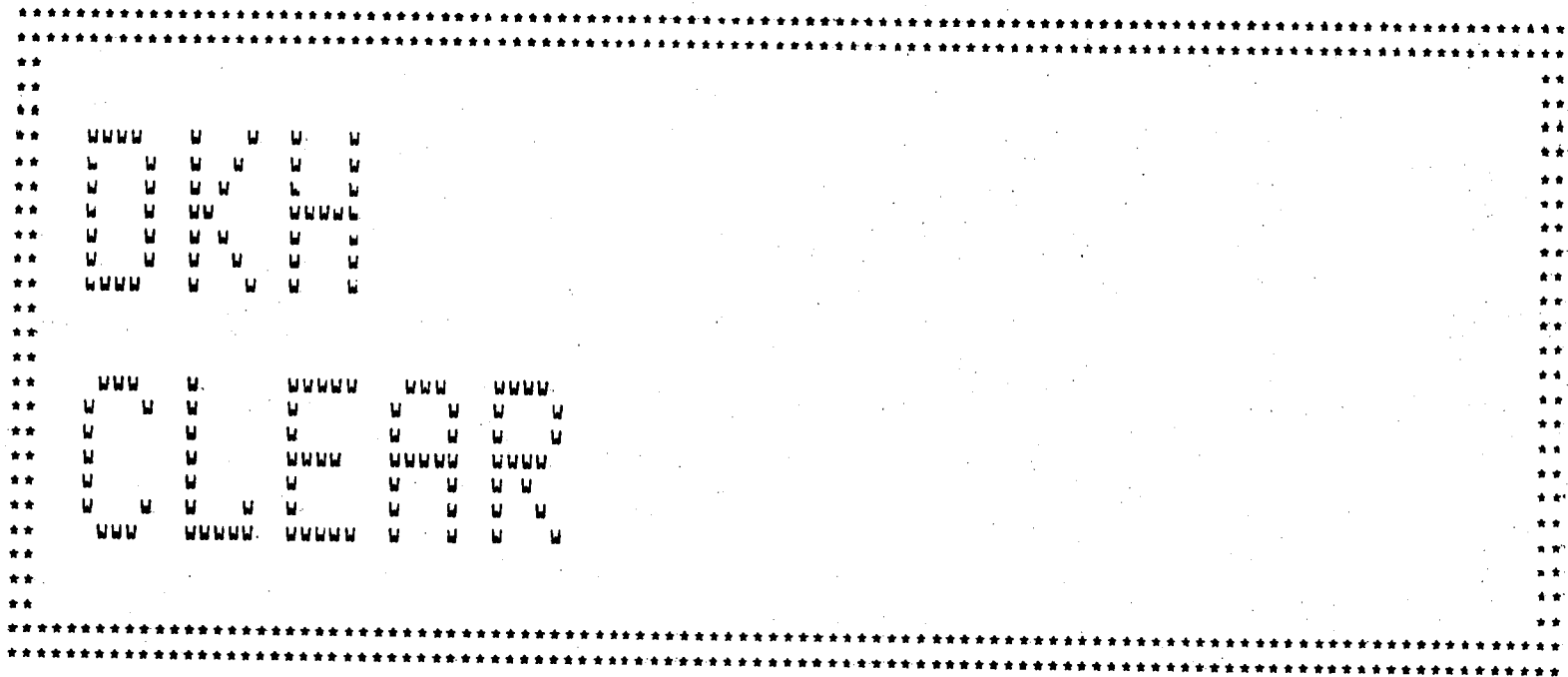


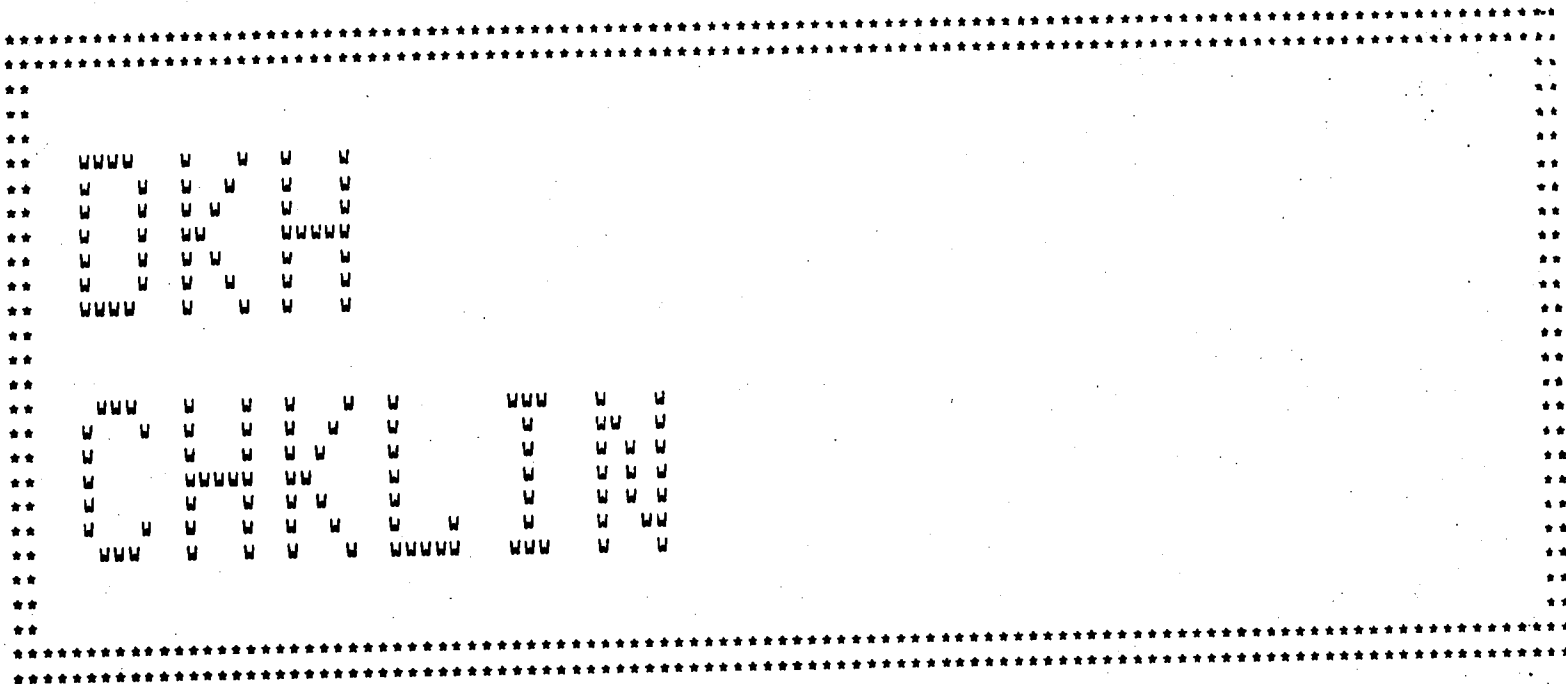
Figure 1

E-2

SUBROUTINE CLEAR

PAGE 0001

1  
SUBROUTINE CLEAR  
WRITE(1,1)  
FORMAT('EE')  
RETURN  
END



SUBR CHKLIN

SUBR CHKLIN  
 REL  
 C64R

\*  
 \* CALL CHKLIN(ICHAR)  
 \* WHEN ICHAR IS NOT EQUAL TO ZERO (0) A CHAR IS IN THE BUFFER  
 \* NOTE THE FIRST CHAR IN THE BUFFER IS LOST  
 \* SO MAKE THE FIRST CHAR A SPACE  
 \*

CHKLIN DAC \*\*  
 LDX CHKLIN  
 CRA  
 SKS \*704  
 JMP \*\*2  
 CALL T11B  
 STA\* 0+1  
 JMP 1+1  
 END

Figure 2

E-3

609

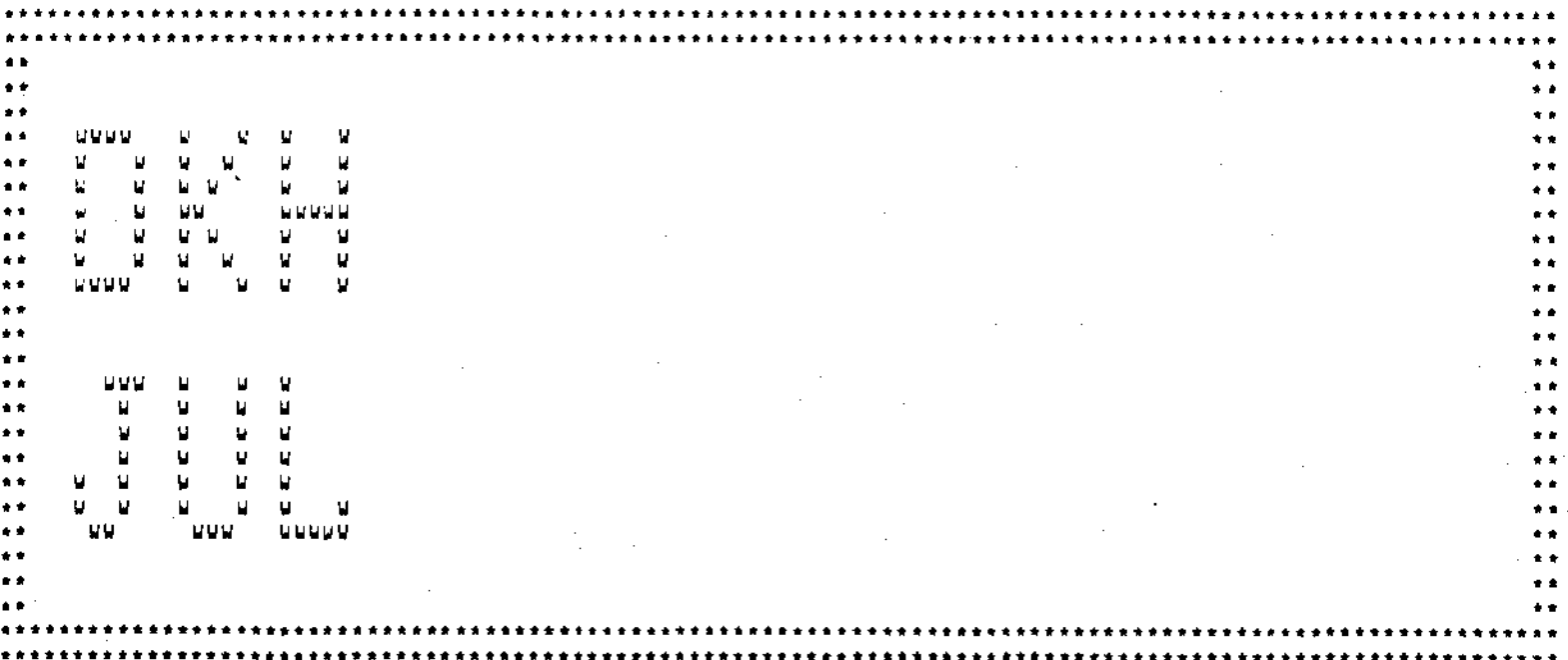


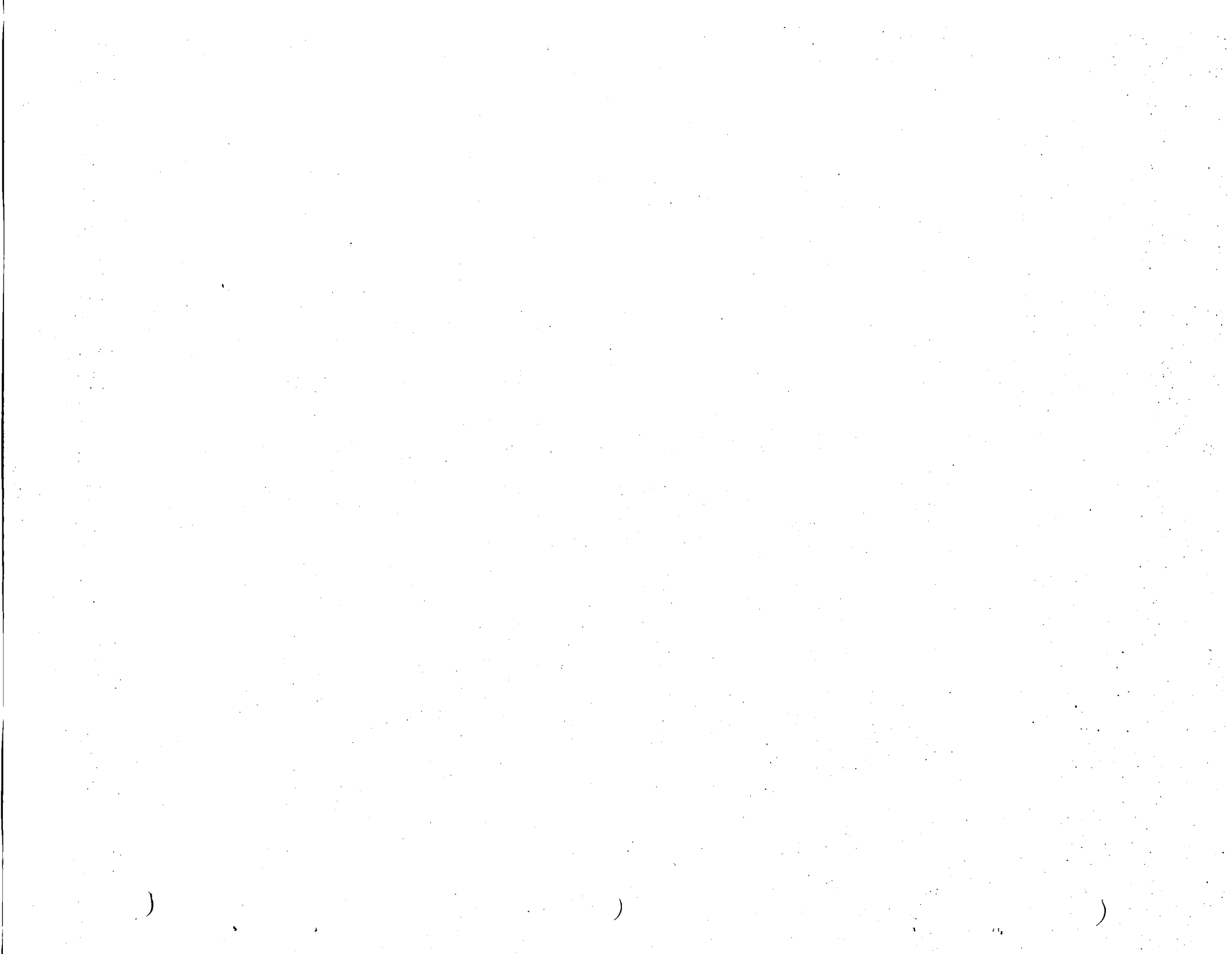
Figure 3

E-4

10/90

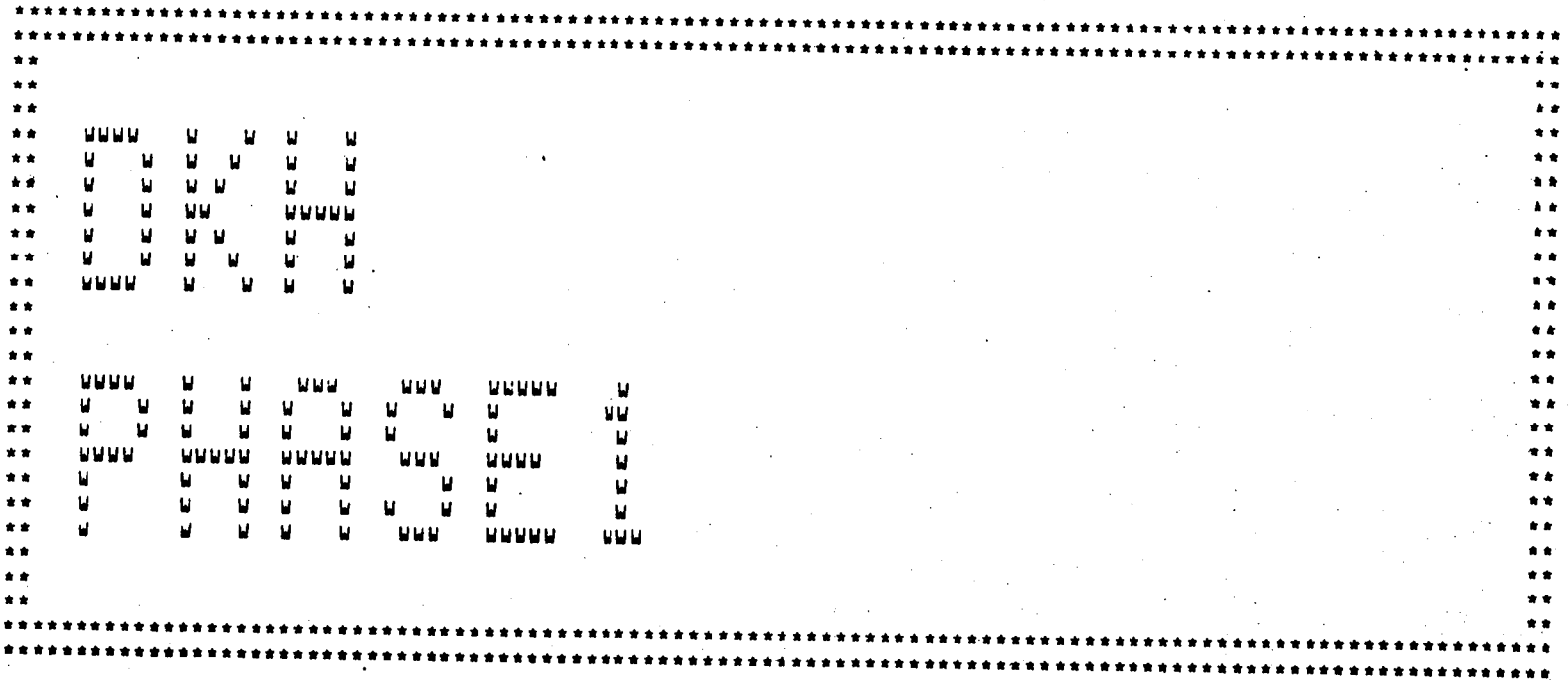
SUBROUTINE JTII(IYP,MON,IDA,IHR,MIN,SEC,TJUL)

SUBROUTINE JTIME(IYR,MON,IDA,IHR,MIN,SEC,TJUL)  
DOUBLE PRECISION TJUL  
SDAY=0  
DO 1 LTB=1,MON  
IF(LTB.EQ.MON) GO TO 2  
SDAY=SDAY+30  
IF(LTB.EQ.1.OR.LTB.EQ.3) SDAY=SDAY+1.0  
IF(LTB.EQ.5.OR.LTB.EQ.7) SDAY=SDAY+1.0  
IF(LTB.EQ.8.OR.LTB.EQ.10) SDAY=SDAY+1.0  
IF(LTB.EQ.12) SDAY=SDAY+1.0  
IF(LTB.NE.2) GO TO 3  
IYC=IABS(IRY-1904)  
AYC=IYC  
AKT=AMOD(AYC,4.0)  
IF(AKT.LT.0.1) SDAY=SDAY-1.0  
IF(AKT.GE.0.1) SDAY=SDAY-2.0  
3 CONTINUE  
1 CONTINUE  
2 CONTINUE  
DAY=IDA  
IYC=(IABS(IYR-1901))/4  
AYC=IYC  
SDAY=SDAY+DAY+AYC  
HR=IHR  
AMIN=MIN  
DJJX=SDAY+(HR/24.)+(AMIN/1440.0)+(SEC/86400.0)  
TJUL=365.0\*(IYR-1900.0)+DJJX+2415019.5  
RETURN  
END



APPENDIX F

SOURCE FOR SPECIAL SUPPORT ROUTINES



```

C
$INSERT SYSKOM>KEYS.F
  INTEGER BUFF(80)
  INTEGER*4 J
  INTEGER*2 IDD(3)
  CALL OPEN
  J=0
  CALL COMINP(6HTTY ,1)
3  WRITE(1,5)
5  FORMAT(1X,'ENTER DATE OF TAPE: MMDDYY')
  READ(1,6,ERR=3) IDD
  REWIND 14
  WRITE(14,7) IDD
7  FORMAT(1X,3I2)
6  FORMAT(3I2)
  REWIND 14
10 READ(6,100,END=900) (BUFF(I),I=1,80)
100 FORMAT(80A1)
  IF(BUFF(7).NE.'P') GOTO 101
  DO 210 I=7,15
  BUFF(I)=BUFF(I+1)
210 CONTINUE
  BUFF(16)='P'

```

Figure 1

F-2

1019

```

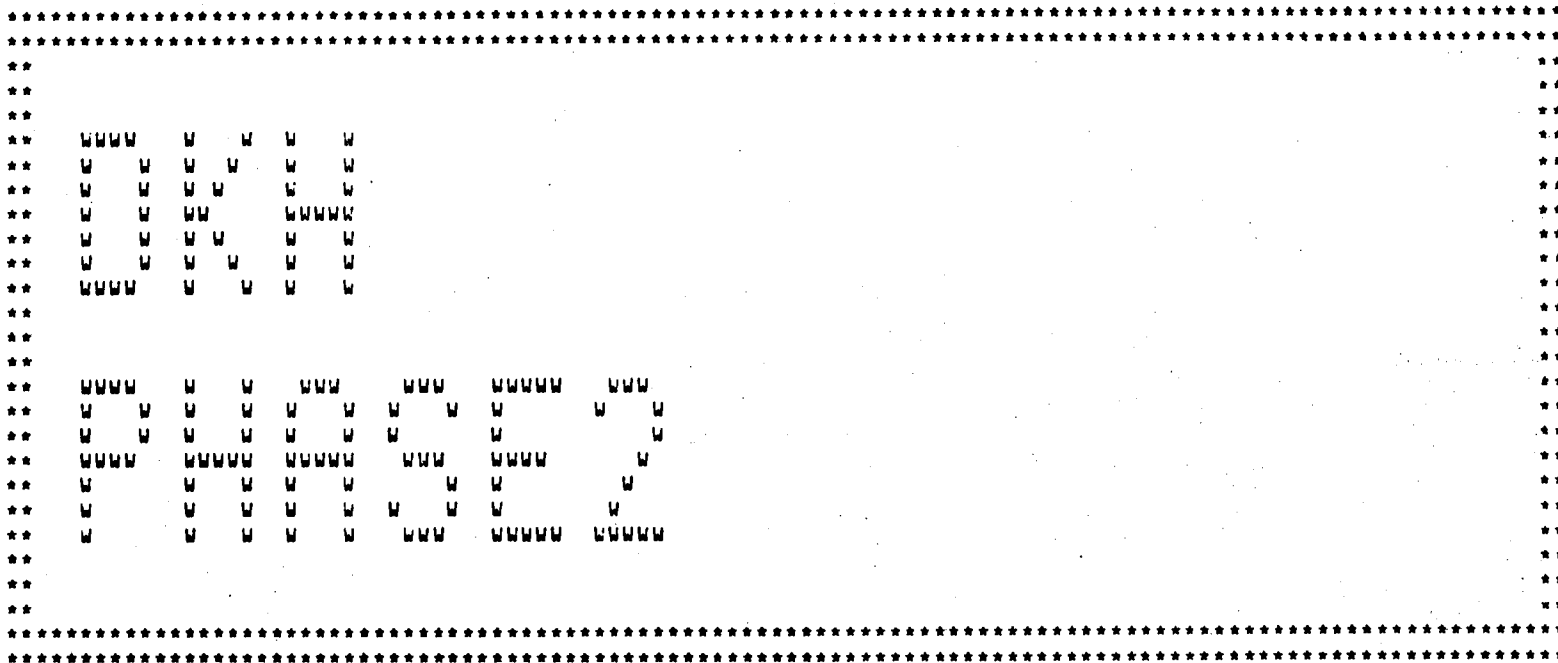
101 IF (BUFF(19).EQ.' ') BUFF(20)='0'
    BUFF(19)='0'
    IF (BUFF(63).EQ.' ') GOTO 103
    IF (BUFF(64).NE.' ') GOTO 103
    BUFF(64)='N'
    BUFF(65)='C'
103 IF (BUFF(71).EQ.'0') GOTO 102
    DO 90 M=71,78
    BUFF(M)='0'
90 CONTINUE
102 WRITE(7,100) (BUFF(I),I=7,21),(BUFF(K),K=27,65),(BUFF(L),L=68,78)
    J=J+1
    GO TO 10
900 CALL SRCH$$ (K$CLOS,'DDATA' ,.6,0,0,0)
    CALL SRCH$$ (K$CLOS,'NEW' ,.6,0,0,0)
    CALL SRCH$$ (K$CLOS,'DDATE' ,.6,0,0,0)
    WRITE(1,909) J
909 FORMAT(1X,I4,' RECORDS IN THE DRAWING DATA'//)
    CALL EXIT
    END
    SUBROUTINE OPEN
    $INSERT SYSCOM>KEYS.F
    CALL SRCH$$ (K$RDWR+K$NDAM,'DDATA' ,.6,2,1,IC)
    CALL SRCH$$ (K$RDWR+K$NDAM,'NEW' ,.6,3,1,IC)
    CALL SRCH$$ (K$RDWR+K$NDAM,'DDATE' ,.6,10,1,IC)
    REWIND 6
    REWIND 7
    REWIND 14
    RETURN
    END

```

F-3

6/19





```

C
$INSERT COMMON
$INSERT SYSCGM>KLYS.F<
  INTEGER BUFF(38),BUF(80)
  INTEGER*4 JJ,MM,NN,LL,KK,NW,MN,TEN
  CALL OPEN
  JJ=0
  CALL COMINP(6HTTY ,1)
10  READ(7,100,END=900) SYS,SHTN, (BUFF(I),I=1,31),EON,FOREV,REV,
  1  (BUFF(K),K=33,38)
100  FORMAT(2A4,A2,2I2,1X,31A1,1A4,A2,A2,A2,2X,3A1,1X,3A1)
  BUFF(32)=' '
  IF(BUFF(36).EQ.*S*) GOTO 800
  REWIND 10
  WRITE(10,700) (BUFF(K),K=33,38)
  FORMAT(2(1X,3A1,' '))
  REWIND 10
  READ(10,705,ERR=10) ((VEH(I,J),J=1,2),I=1,2)
  705  FORMAT(2(1X,I3,A1))
  GO TO 707
  800  CONTINUE
  REWIND 10
  WRITE(10,710) (BUFF(K),K=33,35)
  710  FORMAT(1X,3A1,*S*,1X,*000 *)
  REWIND 10

```

Figure 2

F-4

1/5

15

```

707 READ(10,705,ERR=10) ((VEH(I,J),J=1,2),I=1,2)
CONTINUE
REWIND 13
WRITE(13,750) (BUFF(K),K=1,32)
750 FORMAT(1X,32A1)
REWIND 13
READ(13,760,ERR=10) PTIT
760 FORMAT(1X,19A4)
REWIND 13
TEN=0
DO 805 I=1,80
BUF(I)=* *
805 CONTINUE
NW=2
MN=2
BUF(1)=BUFF(1)
DO 810 MM=2,31
IF(MN.LE.80) GOTO 811
MM=31
GO TO 810
811 IF(TEN.EQ.0) GOTO 815
IF(BUFF(MM).EQ.* *.OR.BUFF(MM).EQ.*.*) THEN=0
GO TO 810
815 IF(BUFF(MM).EQ.* *.OR.BUFF(MM).EQ.*.*) GOTO 820
BUF(MN)=BUFF(MM)
MN=MN+1
NW=NW+1
IF(NW.LE.10) GOTO 810
NW=1
MN=MN+1
TEN=1
GO TO 810
820 LL=(10-NW)+1
NN=MN+LL
MN=NN+1
NW=1
810 CONTINUE
REWIND 13
WRITE(13,840) (BUF(I),I=1,80)
840 FORMAT(1X,80A1)
REWIND 13
READ(13,850) TIT
850 FORMAT(7(1X,2A4,A2))
REWIND 13
DRW(1)=SYS(1)
DRW(2)=SYS(2)
DRW(3)=SYS(3)
DRW(4)=* *
C102 WRITE(1,500) DRW,SHTN,EON,EOREV,REV,((VEH(I,J),J=1,2),
C I=1,2),PTIT,TIT
C500 FORMAT(1X,4A4,3X,2(I2,1X),3X,1A4,A2,3X,A2,3X,A2)

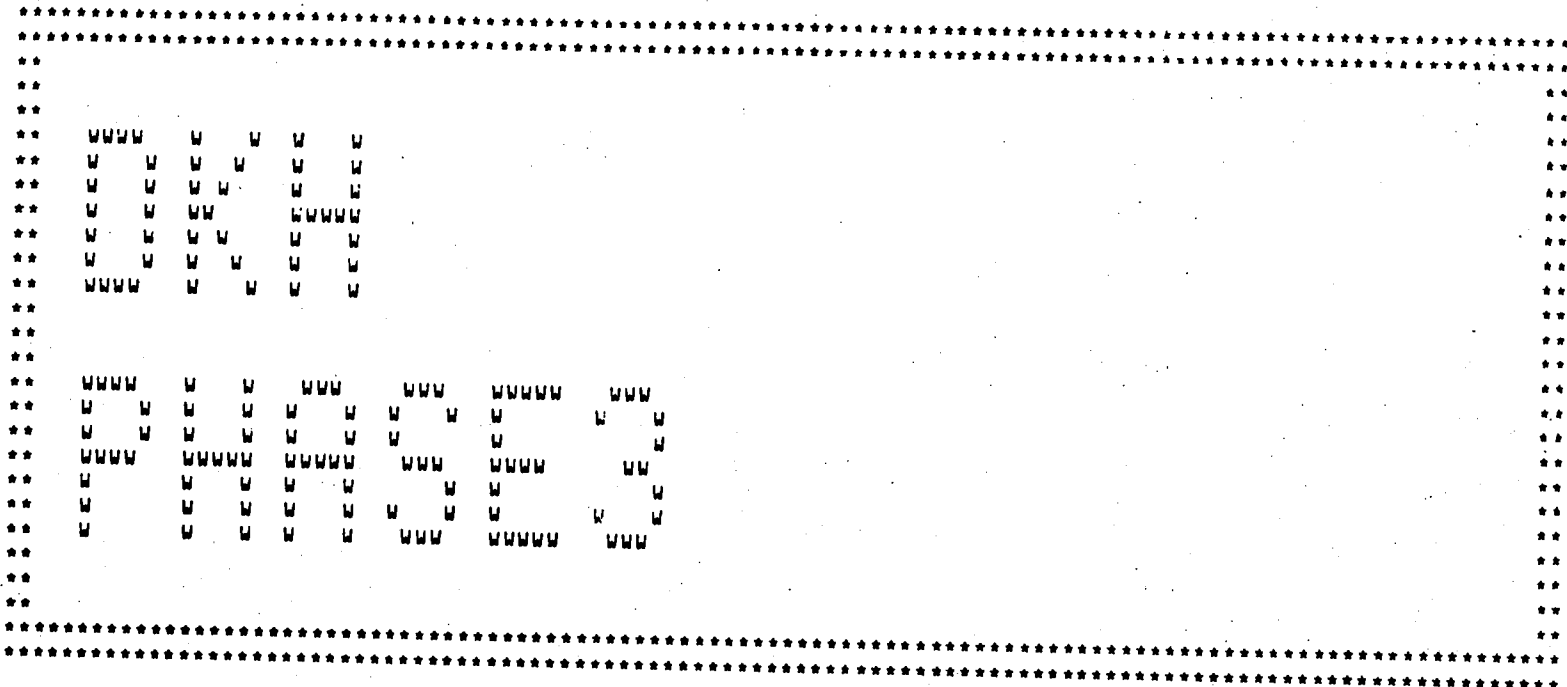
```

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```
C 8 3X,2(1X,I3,A1),/,1X,19A4,/,7(1X,2A4,A2),/,1X,1H0)
200 JJ=JJ+1
WRITE(16)DRW,TIT,PTIT,SHTN,REV,VFH,EON,EORFV
GO TO 10
900 CALL SRCH$$ (K$CLOS,*NEW *6,0,0,0)
CALL SRCH$$ (K$CLOS,*VV *6,0,0,0)
CALL SRCH$$ (K$DELE,*VV *6,0,0,0)
CALL SRCH$$ (K$CLOS,*TITLES*6,0,0,0)
CALL SRCH$$ (K$DELE,*TITLES*6,0,0,0)
CALL SRCH$$ (K$CLOS,*FINAL *6,0,0,0)
WRITE(1,1000) JJ
1000 FORMAT(1X,I4,' RECORDS')
CALL EXIT
END
SUBROUTINE OPEN
$INSERT SYSCOM>KEYS.F
CALL SRCH$$ (K$RDWR+K$NDAM,*NEW *6,3,1,IC)
CALL SRCH$$ (K$RDWR+K$NDAM,*VV *6,6,1,IC)
CALL SRCH$$ (K$RDWR+K$NDAM,*TITLES*6,9,1,IC)
CALL SRCH$$ (K$RDWR+K$NDAM,*FINAL *6,12,1,IC)
REWIND 7
REWIND 10
REWIND 13
REWIND 16
RETURN
END
```

F-6

107



```

$INSERT COMMON
$INSERT SYSCOM>KEYS.F
      INTEGER*4 EONN(2)
      INTEGER*2 IDD(3),JJ
      CALL OPEN
      CALL COMINP(6HTTY ,.1)
      INEO=0
      JJ=1
      DO 5 I=1,10
      DO 4 J=1,2
      FEOREF(I,J)=*
4      CONTINUE
5      CONTINUE
      DO 6 I=1,3
      SYS(I)=*
      SECT(I)=*
6      CONTINUE
      REWIND 14
      READ(14,50) (IDD(I),I=1,3)
50     FORMAT(1X,3I2)
      READ(16) DRAW,TIT,PTIT,SHIN,FREV,VFH,EON,EOREV
200    IF(EON(1).EQ.* *) GOTO 10
      IF(INEO.EQ.0) GOTO 210
      DO 201 I=1,2
      IF(FEOREF(INEO,I).NE.EON(I)) GOTO 210
201    CONTINUE
      GO TO 10

```

Figure 3

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```

210 INEO=INEO+1
    IF(INEO.GE.11) GOTO 10
        FEOREF(INEO,1)=EON(1)
        FEOREF(INEO,2)=EON(2)
10  READ(16,END=8000) DRW,ETIT,EPTIT,FIRST,SECOND,REV,EVEH,EONN,R
C   DRW=DRW  TIT=ETIT  PTIT=EPTIT
C   SHTN= FIRST & SECOND  FREV=REV
C   VEH=EVEH  EON=EONN  EOREV= R
C   XXXXXXXXXXXX BUILD DATA BASE : DRAW, SHEET, EO
    DO 100 I=1,4
        IF(DRW(I).NE.DRW(1)) GOTO 5000

100  CONTINUE
        IF(FIRST.EQ.1.AND.SECOND.EQ.0) GOTO 6000
        IF(SHTN(1).EQ.FIRST.AND.SHTN(2).EQ.SECOND) GOTO 10
            JJ=JJ+1
            SHTN(1)=FIRST
            SHTN(2)=SECOND
            GO TO 10
6000 IF(EONN(1).EQ.* *) GOTO 10
        IF(INEO.EQ.0) GOTO 6010
        DO 6001 I=1,2
            IF(FEOREF(INEO,I).NE.EONN(I)) GOTO 6010
6001 CONTINUE
        GO TO 10
6010 INEO=INEO+1
        IF(INEO.GE.11) GOTO 10
            FEOREF(INEO,1)=EONN(1)
            FEOREF(INEO,2)=EONN(2)
            GO TO 10
5000 WRITE(6) DRAW,TIT,PTIT,IDD,SYS,VEH,SECT,JJ,FREV,INEO,FEOREF
        DO 15 I=1,21
            TIT(I)=ETIT(I)
15  CONTINUE
        DO 20 I=1,19
            PTIT(I)=EPTIT(I)
20  CONTINUE
        DO 30 I=1,4
            DRAW(I)=DRW(I)
30  CONTINUE
        DO 40 I=1,2
            DO 35 J=1,2
                VEH(I,J)=EVEH(I,J)
35  CONTINUE
40  CONTINUE
        EOREV=R
        EON(1)=EONN(1)
        EON(2)=EONN(2)
        FREV=REV
        SHTN(1)=FIRST

```

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1219

```

SHTN(2)=SECOND
DO 42 I=1,10
DO 43 J=1,2
FEORFF(I,J)=
43 CONTINUE
42 CONTINUE
JJ=1
INEO=0
GO TO 200
8000 REWIND 16
WRITE(6)DRAW,TIT,PTIT,IDD,SYS,VEH,SECT,JJ,FREV,INEO,FEOREF
CALL SRCH$(K$CLOS,'DRAW ',6,0,0,0)
CALL BSHT
END
SUBROUTINE OPEN
$INSERT SYSCOM>KEYS.F
CALL SRCH$(K$RDWR+K$NDAM,'DRAW ',6,2,1,IC)
CALL SRCH$(K$RDWR+K$NDAM,'FINAL ',6,12,1,IC)
CALL SRCH$(K$RDWR+K$NDAM,'DDATE ',6,10,1,IC)
REWIND 6
REWIND 16
REWIND 14
RETURN
END
SUBROUTINE BSHT
$INSERT COMMON
$INSERT SYSCOM>KEYS.F
INTEGER*4 EONN(2)
INTEGER*2 IDD(3),JJ
CALL OPENN
INEO=0
JJ=1
DO 5 I=1,10
DO 4 J=1,2
FEOREF(I,J)=
4 CONTINUE
5 CONTINUE
DO 6 I=1,3

SYS(I)=
SECT(I)=
6 CONTINUE
REWIND 14
READ(14,50) (IDD(I),I=1,3)
50 FORMAT(1X,3I2)
8510 READ(16,END=7000) DRW,TIT,PTIT,SHTN,FREV,VFH,EON,EOREV
IF(SHTN(1).EQ.1.AND.SHTN(2).EQ.0) GOTO 8510
WRITE(12)DRW,SHTN,FREV,EON
GO TO 8510
7000 INEO=0
DO 7040 I=1,10
DO 7050 J=1,2
FEOREF(I,J)=
7050 CONTINUE
7040 CONTINUE

```

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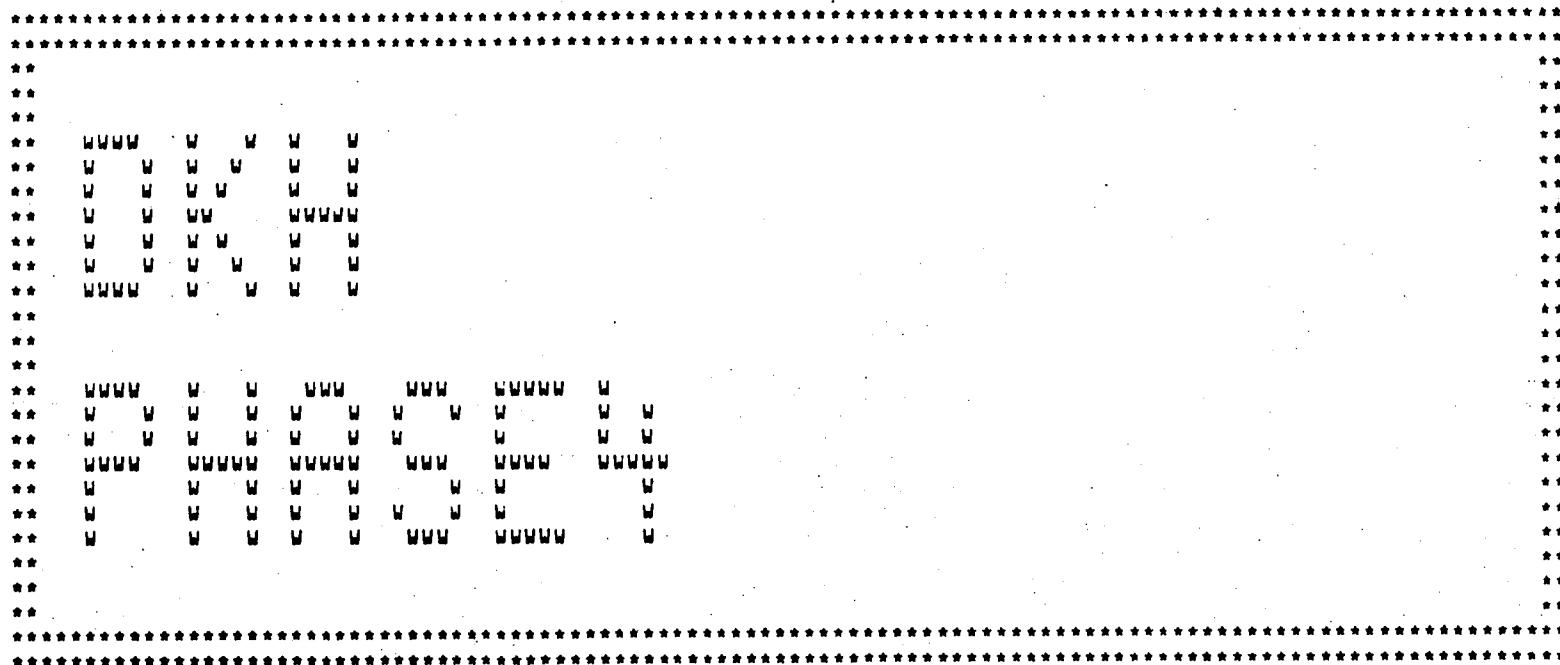
REWIND 12  
REWIND 8  
READ(12) DRAW,SHTN,FREV,EON  
7200 IF(EON(1).EQ.\* \*) GOTO 7010  
IF(INEO.EQ.0) GOTO 7250  
DO 7201 I=1,2  
IF(FEOREF(INEO,I).NE.EON(I)) GOTO 7250  
7201 CONTINUE  
GO TO 7010  
7250 INEO=INEO+1  
IF(INEO.GE.11) GOTO 7010  
FEOREF(INEO,1)=EON(1)  
FEOREF(INEO,2)=EON(2)  
7010 READ(12,END=9000) DRW,FIRST,SECOND,REV,EONN  
DO 7100 I=1,4  
IF(DRW(I).NE.DRAW(I)) GOTO 7500  
7100 CONTINUE  
IF(SHTN(1).EQ.FIRST.AND.SHTN(2).EQ.SECOND) GOTO 7700  
7500 WRITE(8) DRAW,SHTN,FREV,INEO,FEOREF  
SHTN(1)=FIRST  
SHTN(2)=SECOND  
EON(1)=EONN(1)  
EON(2)=EONN(2)  
FREV=REV  
DO 7030 I=1,4  
DRAW(I)=DRW(I)  
7030 CONTINUE  
INEO=0  
DO 7140 I=1,10  
DO 7150 J=1,2  
FEOREF(I,J)=\*  
7150 CONTINUE  
7140 CONTINUE  
GO TO 7200  
7700 IF(EONN(1).EQ.\* \*) GOTO 7010  
IF(INEO.EQ.0) GOTO 7720  
DO 7701 I=1,2  
IF(FEOREF(INEO,I).NE.EONN(I)) GOTO 7720  
7701 CONTINUE  
GO TO 7010  
7720 INEO=INEO+1  
IF(INEO.GE.11) GOTO 7010  
FEOREF(INEO,1)=EONN(1)  
FEOREF(INEO,2)=EONN(2)  
GO TO 7010

```
9000 WRITE(8) DRAW,SHTN,FREV,INEO,FEOREF
      CALL SRCH$$ (K$CLOS,'SHEET' ,6,0,0,0)
      CALL SRCH$$ (K$CLOS,'DDATE' ,6,0,0,0)
      CALL SRCH$$ (K$CLOS,'FINAL' ,6,0,0,0)
      CALL SRCH$$ (K$CLOS,'REVS' ,6,0,0,0)
      CALL SRCH$$ (K$DELE,'SHEET' ,6,0,0,0)
      CALL CNAME$(6HREVS ,6HSHEET )
      CALL EXIT
      END
SUBROUTINE OPENN
$INSERT SYSCOM>KEYS.F
      CALL SRCH$$ (K$RDWR+K$NDAM,'SHEET' ,6,8,1,IC)
      CALL SRCH$$ (K$RDWR+K$NDAM,'REVS' ,6,4,1,IC)
      REWIND 12
      REWIND 16
      REWIND 14
      REWIND 8
      RETURN
      END
```

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```

$INSERT COMMON
$INSERT SYSCOM>KEYS.F
  INTEGER*4 EONN(2)
  INTEGER*2 IDD(3),JJ
  CALL OPEN
  CALL COMINP(6HTTY ,1)
  INEO=0
  JJ=1
  DO 5 I=1,10
  DO 4 J=1,2
  FEOREF(I,J)=*
4   CONTINUE
5   CONTINUE
  DO 6 I=1,3
  SYS(I)=*
  SECT(I)=*
6   CONTINUE
  REWIND 14
  READ(14,50) (IDD(I),I=1,3)
50  FORMAT(1X,3I2)
  JJ=0
8010 READ(16,END=8500) DRW,TTIT,PTIT,SHTN,FREV,VEH,EON,EOREV
  IF(EON(1).EQ.* *) GOTO 8010
  REWIND 18
  DO 8015 I=1,19
  ETIT(I)=*
  EPTIT(I)=*
8015 CONTINUE

```

Figure 4

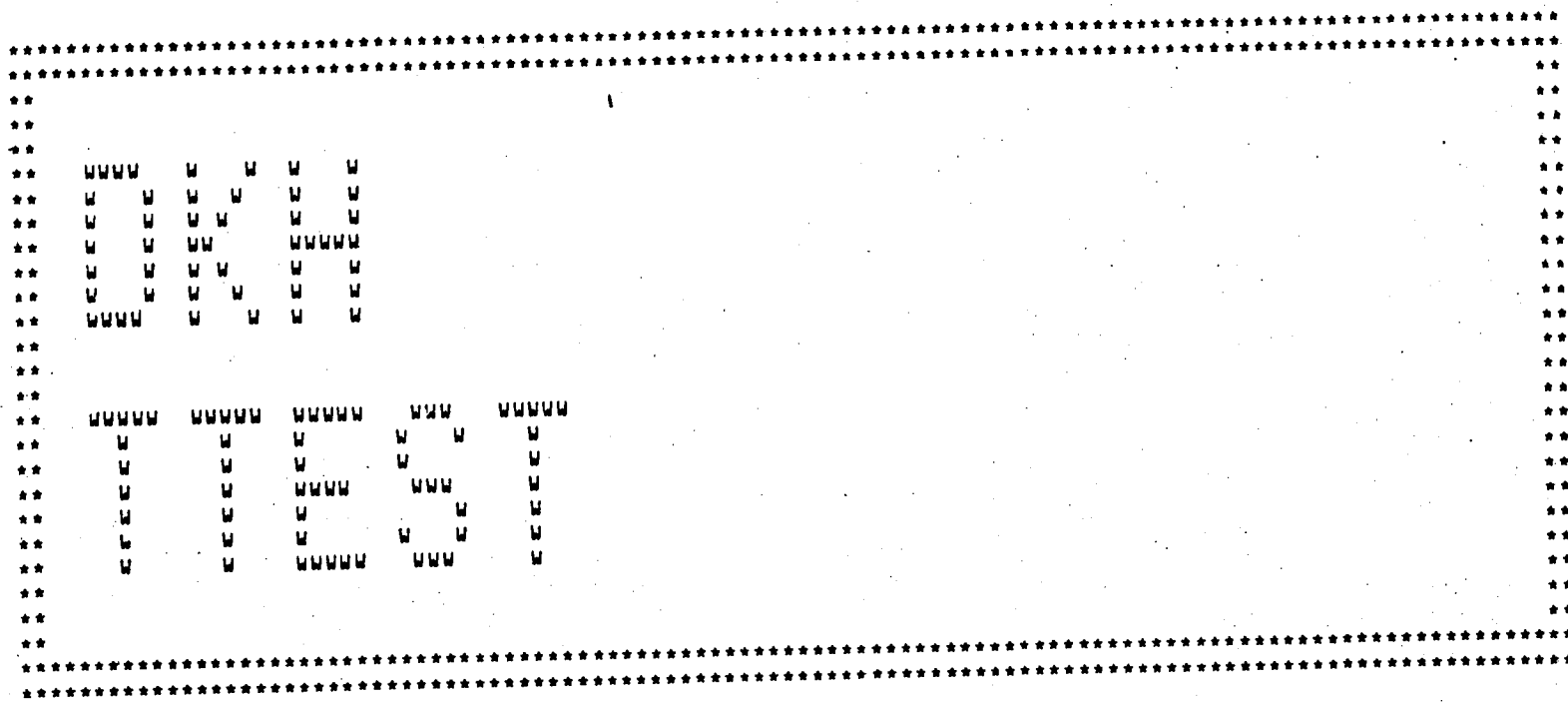
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```
ETIT(20)=*
ETIT(21)=*
IF(JJ.EQ.1) GOTO 8020
WRITE(18) EON,ETIT,EPTIT,EOREV,IDD,IDD,VEH
JJ=1
GO TO 8010
8020 READ(18,END=8030) EONN,ETIT,EPTIT,REV,EDT,ERDT,E0VEH
IF(EON(1).NE.EONN(1)) GOTO 8020
IF(EON(2).NE.EONN(2)) GOTO 8020
GO TO 8010
8030 WRITE(18) EON,ETIT,EPTIT,EOREV,IDD,IDD,VEH
GO TO 8010
8500 REWIND 16
ENDFILE 18
CALL SRCH$$ (K$CLOS,'EO',6,0,0,0)
CALL SRCH$$ (K$CLOS,'DDATE',6,0,0,0)
CALL SRCH$$ (K$CLOS,'FINAL',6,0,0,0)
CALL EXIT
END
SUBROUTINE OPEN
$INSERT SYSCOM>KEYS.F
CALL SRCH$$ (K$RDWR+K$NDAM,'EO',6,14,1,IC)
CALL SRCH$$ (K$RDWR+K$NDAM,'FINAL',6,12,1,IC)
CALL SRCH$$ (K$RDWR+K$NDAM,'DDATE',6,10,1,IC)
REWIND 16
REWIND 14
REWIND 18
RETURN
END
```

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```

C
$INSERT COMMON
  CALL OPEN
  CALL COMINP(6HTTY ,1)
10  READ(16,END=100) DRW,TIT,PTIT,SHTN,REV,VEH,FON,EOREV
  WRITE(1,500) DRW,SHTN,CON,EOREV,REV,((VEH(I,J),J=1,2),I=1,2),
  1 PTIT,TIT
500  FORMAT(1X,4A4,3X,2(I2,1X),3X,1A4,A2,3X,A2,3X,A2,
  1 3X,2(1X,13,A1),/,1X,19A4,/,7(1X,2A4,A2),/,1X,1H0)
  GO TO 10
100  CALL SRCH$$ (K$CLOS,*FINAL *.6,0,0,0)
  CALL EXIT
  END
SUBROUTINE OPEN
$INSERT SYSCOM>KEYS.F
  CALL SRCH$$ (K$RDWR+K$NDAM,*FINAL *.6,12,1,IC)
  RETURN
  END

```

Figure 5

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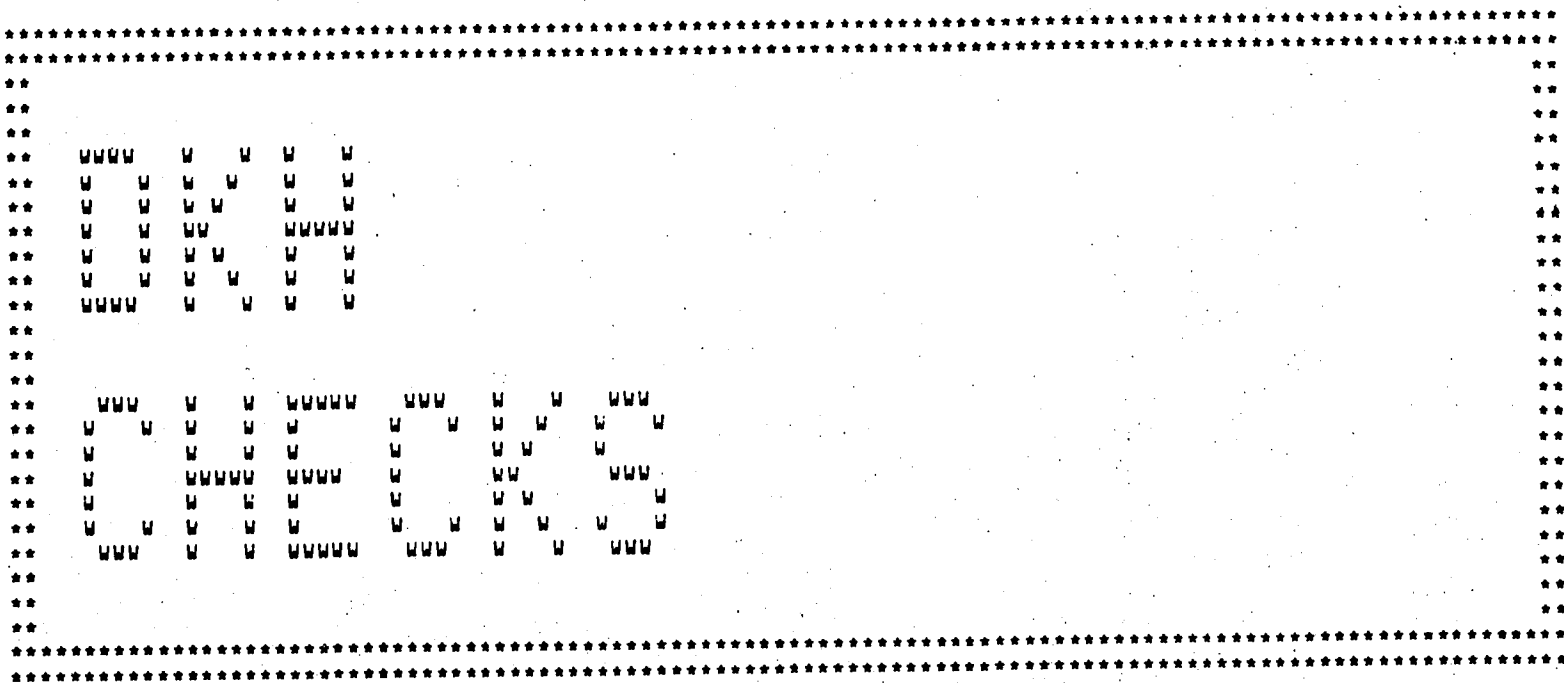


Figure 7

```

C
$INSERT COMMON
  KNT=0
  CALL OPEN
20  READ(12,END=1000) DRAW,SHTN,FREV,INED,FEOREF
  WRITE(7,100)DRAW,SHTN,FREV,INCO
100  FORMAT(1X,3A4,A2,3X,I2,*,*,12,5X,A2,5X,I2)
  WRITE(7,101) ((FEOREF(I,J),J=1,2),I=1,10)
101  FORMAT(10(1X,2A4),/,*,*/)
      KNT=KNT+1
      GO TO 20
1000 WRITE(1,103) KNT
103  FORMAT(1X,*THERE ARE *,I4,* SHEETS*/)
  CALL CLOSE
  END
  SUBROUTINE OPEN
$INSERT SYSCOM>KEYS.F
      CALL SRCH$$ (K$RDWR+K$NDAM,*SHEET *,6,8,1,IC)
      CALL SRCH$$ (K$RDWR+K$NSAM,*SHT *,6,3,0,0)
      REWIND 12
      RETURN
  END
  SUBROUTINE CLOSE
$INSERT SYSCOM>KEYS.F
      CALL SRCH$$ (K$CLOS,*SHEET *,6,0,0,0)
      CALL SRCH$$ (K$CLOS,*SHT *,6,0,0,0)
      CALL EXIT
  END

```

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