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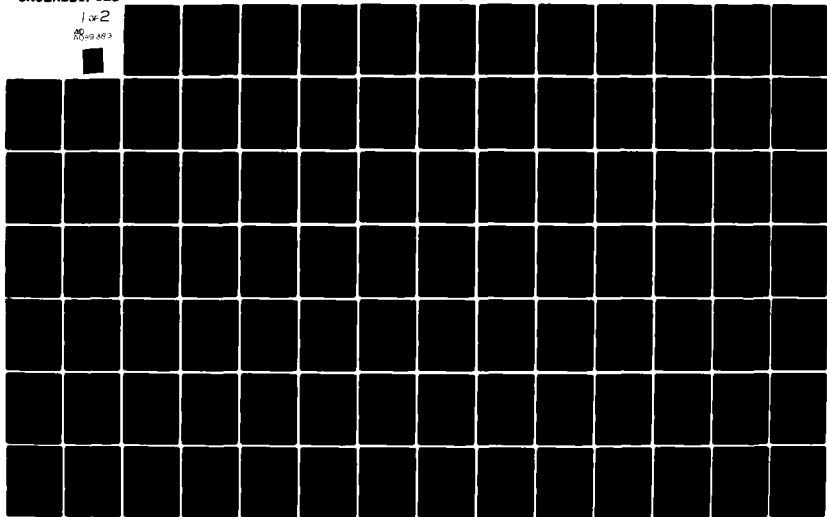
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Volume IV

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STRUCTURAL ANALYSIS VIA GENERALIZED INTERACTIVE GRAPHICS STAGING

Volume IV — Appendices to System Manual

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This technical report has been reviewed and is approved for publication.



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) STAGING (STRUCTURAL Analysis via Generalized Interactive Graphics) has been developed to give engineers an interactive graphics system for constructing and studying finite element models and for reviewing the results of a finite element analysis. Volume IV includes appendices to the System Manual. These appendices list the various STAGING procedures, loader directives, and cross-referenced tables of all entry names that occur in the STAGING system.		

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FOREWARD

This final report was prepared by the Columbus Laboratories of Battelle Memorial Institute, Columbus, Ohio, for the Structures and Dynamics Division, Air Force Flight Dynamics Laboratory, Wright-Patterson Air Force Base, Ohio. The work was performed under Contract No. F-33615-75-C-3125, which was initiated under Project No. 2401, "Structures and Dynamics", Task No. 02, "Design and Analysis Methods for Aerospace Vehicle Structures". Initially, Mr. L. Bernier (FBR) was the AFFDL project engineer for this effort, after which Mr. B.H. Groomes (FBR) was assigned the responsibility.

STAGING, as described in this report, represents a three-year combined Air Force-Navy effort, with specific support and contributions from Dr. Charles P. Porier, Chief, Scientific Systems Analysis Branch, ASD Computer Center, Wright-Patterson Air Force Base, Ohio, Messers. James M. McKee and Michael E. Golden, Computation Mathematics and Logistics Department, Code 1844, Mr. Paul Mayer and Miss Jane A. Figula, Structures Department, Code 1730.5, The David W. Taylor Naval Ship Research and Development Center, Bethesda, Maryland. The technical graphics expertise of these government researchers are gratefully acknowledged.

The report consists of four volumes. Volume I, "Final Summary Report", presents an overview of the capabilities of the STAGING (SStructural Analysis via Generalized INTERactive Graphics) system. Volume II, "Users Guide", gives detailed instructions on how to use STAGING for finite element analysis. Volume III, "System Manual", describes the internal structure of STAGING and details procedures for installation and Maintenance of the System on CDC CYBER and 6000 series mainframe computers. Volume IV, "Appendices to the System Manual", includes lists of STAGING procedures, loader directives and cross-referenced tables of all entry names that occur in STAGING.

The program manager of this development was Dr. L. E. Hulbert of the Transportation and Structures Department. He was supported by N. D. Ghadiali of the same department and by a number of specialists from the Computer, Information Systems, and Education Department including:

E. Edwards K. Cadmus
D. Kasik C. Scofield
W. Young F. Drobot

Kevin Cadmus was a major contributor to the preparation of this volume.

The work reported herein was conducted during the period of June 28, 1976 through June 1979. Some work on STAGING was carried out under contract F33615.

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APPENDIX A
STAGING PROCEDURES

APPENDIX A
STAGING PROCEDURES

This section contains listings of various STAGING procedures. In most cases two versions of each procedure are provided. The first, called the "PROFIL" version, is written in the University of Washington Control Language. The second, called the "PROCFIL" version, is written in the standard CYBER Control Language. Below is a list of the names of the procedures provided in this appendix:

A
C
R
STAGING
MENUGENABS
MPDBGENABS
SUPPORTLIB
MENUGEN
MENUTABLE
MPDBNEW
MPDBADD
STAGINGGEN
XGPRIME
UPDATE
NEWLIB

PROFIL VERSION

```
A(*LFN=,*PFN1=,*PFN2=,*PFN3=,*PFN4=,*ID=STAGING3)
/*
/* ATTACH A PERMANENT FILE
/*
RETURN(*LFN)
IFC(NE,*PFN1,,L1)
ATTACH(*LFN,$_*PFN1_*PFN2_*PFN3_*PFN4_$,ID=*ID,PW=XR)
ELSE(L1)
ATTACH(*LFN,ID=*ID,PW=XR)
ENDIF(L1)
REVERT.
EXIT(S)
REVERT(ABORT)
```

PROCFIL VERSION

```
.PROC,A,LFN=,PFN1=,PFN2=,PFN3=,PFN4=,ID=STAGING3.
.*
.* ATTACH A PERMANENT FILE
.*
RETURN(LFN)
ATTACH(LFN,PFN1_PFN2_PFN3_PFN4,#ID=ID,PW=XR)
REVERT.
EXIT(S)
REVERT(ABORT)
```

Figure A-1. Procedure A

PROFIL VERSION

```
C(*LFN=,*PFN1=,*PFN2=,*PFN3=,*PFN4=,*ID=STAGING3)
/*
/* CATALOG A PERMANENT FILE
/*
IFC(EQ,*PFN1,,L1)
CATALOG(*LFN,ID=*ID,XR=XR,PW=XR,RP=999)
ELSE(L1)
CATALOG(*LFN,$_*PFN1_*PFN2_*PFN3_*PFN4_$,ID=*ID,XR=XR,PW=XR,RP=999)
ENDIF(L1)
REVERT.
EXIT(S)
IFC(EQ,*PFN1,,L3)
BEGIN,P,*FILE,*LFN,ID=*ID.
CATALOG(*LFN,ID=*ID,XR=XR,PW=XR,RP=999)
ELSE(L3)
BEGIN,P,*FILE,*PFN1,*PFN2,*PFN3,*PFN4,ID=*ID.
CATALOG(*LFN,$_*PFN1_*PFN2_*PFN3_*PFN4_$,ID=*ID,XR=XR,PW=XR,RP=999)
ENDIF(L3)
SKIP(1)
EXIT(S)
REVERT.
```

PROCFIL VERSION

```
.PROC,C,LFN=,PFN1=,PFN2=,PFN3=,PFN4=,ID=STAGING3.
.*
.* CATALOG A PERMANENT FILE
.*
CATALOG(LFN,PFN1_PFN2_PFN3_PFN4,#ID=ID,XR=XR,PW=XR,RP=999)
REVERT.
EXIT(S)
RETURN(JUNK)
PURGE(JUNK,PFN1_PFN2_PFN3_PFN4,#ID=ID,PW=XR,LC=1)
RETURN(JUNK)
CATALOG(LFN,PFN1_PFN2_PFN3_PFN4,#ID=ID,XR=XR,PW=XR,RP=999)
SKIP(L4)
EXIT(S)
ENDIF(L4)
REVERT.
```

Figure A-2. Procedure C

PROFIL VERSION

```
R(*LFN)
/*
/* REQUEST A PERMANENT FILE
/*
RETURN(*LFN)
REQUEST(*LFN,*PF)
SKIP(1)
EXIT(S)
REVERT.
```

PROCFIL VERSION

```
.PROC,R,LFN=.
.*
.* REQUEST A PERMANENT FILE
.*
RETURN(LFN)
REQUEST(LFN,*PF)
SKIP(L1)
EXIT(S)
ENDIF(L1)
REVERT.
```

Figure A-3. Procedure R

PROFIL VERSION:

```
STAGING(*CY=1,*ETL=500)
/*
/* RUN (COMPIO) VERSION OF STAGING SYSTEM
/*
RETURN(ST)
RETURN(PROCFIL)
ATTACH(PROCFIL,DUMMYPROCFILFORBATTELLE,ID=STAGING3,CY=1)
ATTACH(ST,STAGINGABS,ID=STAGING3,CY=*CY)
ETL(*ETL)
ST.
RETURN(GLOBAL,EXEC,DANDE,PREP,POST,MATER,PROCFIL)
SKIP(1)
EXIT(S)
REVERT.
```

PROCFIL VERSION

```
.PROC,STAGING,CY=1,ETL=300.
.*
.* RUN STAGING3 VERSION OF STAGING3
.*
RETURN(ST)
ATTACH(ST,STAGINGABS,ID=STAGING3,#CY=CY)
#ETL(ETL)
ST.
RETURN(ST,MATER,GLOBAL,EXEC,DANDE,PREP,POST)
SKIP(L1)
EXIT(S)
ENDIF(L1)
REVERT.
```

Figure A-4. Procedure STAGING

PROFIL VERSION:

```
MENUGENABS.  
/*  
/* CREATE NEW MENU GENERATOR ABSOLUTE  
/*  
BEGIN, A, *FILE, BIN, MENUGENBIN.  
BEGIN, A, *FILE, SUPLIB, SUPPORTLIB.  
BEGIN, R, *FILE, MENG.  
LOAD(BIN)  
LDSET(LIB=SUPLIB)  
NOGO(MENG)  
BEGIN, C, *FILE, MENG, MENUGENABS.  
SKIP(1)  
EXIT(S)  
RETURN(MENG, BIN, SUPLIB)  
REVERT.
```

PROCFIL VERSION

```
.PROC, MENUGENABS, TYPE=REGEN.  
.*  
.* CREATE NEW MENU GENERATOR ABSOLUTE  
.*  
IFE, $TYPE$.EQ.$REGEN$, L2.  
BEGIN, A, PROCFIL, OLDPL, MENUGENPL.  
BEGIN, A, PROCFIL, IN, MENUGENIN.  
BEGIN, A, PROCFIL, BINOLD, MENUGENBIN.  
BEGIN, R, PROCFIL, NEWPL.  
BEGIN, R, PROCFIL, INNEW.  
BEGIN, R, PROCFIL, BINNEW.  
UPDATE(N, I=IN, L=1)  
FTN(I, Z, R=3, OPT=2, S=CPCTEXT)  
COPYL(BINOLD, LGO, BINNEW, , RA)  
BEGIN, C, PROCFIL, BINNEW, MENUGENBIN.  
COPYBF(#DATA, INNEW)  
BEGIN, C, PROCFIL, INNEW, MENUGENIN.  
BEGIN, C, PROCFIL, NEWPL, MENUGENPL.  
RETURN(OLDPL, NEWPL, BINOLD, LGO, BINNEW, INNEW)  
ENDIF(L2)  
BEGIN, A, PROCFIL, BIN, MENUGENBIN.  
BEGIN, A, PROCFIL, SUPLIB, SUPPORTLIB.  
BEGIN, R, PROCFIL, MENG.  
LOAD(BINNEW)  
LDSET(LIB=SUPLIB)  
NOGO(MENG)  
BEGIN, C, PROCFIL, MENG, MENUGENABS.  
SKIP(L1)  
EXIT(S)  
ENDIF(L1)  
RETURN(MENG, BIN, SUPLIB)  
REVERT.  
.DATA  
*ID MENUNEW  
.EOR
```

Figure A-5. Procedure MENUGENABS

PROFIL VERSION

```
MPDBGENABS(*TYPE=ADD)
/*
/* GENERATE NEW MPDB ABSOLUTE (MPDBNEWABS OR MPDBADDABS)
/*
BEGIN,A,*FILE,OLDPL,STAGINGPL.
UPDATE(Q,I=#DATA,L=0)
FTN(I,R=3,B=BIN)
BEGIN,A,*FILE,LIB,SUPPORTLIB.
LIBRARY(LIB)
LOAD(BIN)
NOGO(ABS)
BEGIN,C,*FILE,ABS,MPDB,*TYPE,ABS.
REVERT.
/DATA
*ID MPDB
*C MPDB_*TYPE
/EOR
```

PROCFIL VERSION:

```
.PROC,MPDBGENABS,TYPE=NEW.
.*
.* GENERATE NEW MPDB ABSOLUTE (FOR CREATE OR REVISE)
.*
BEGIN,A,PROCFIL,OLDPL,STAGINGPL.
UPDATE(Q,I=#DATA,L=0)
FTN(I,R=3,B=BIN)
BEGIN,A,PROCFIL,LIB,SUPPORT,LIB.
LIBRARY(LIB)
LOAD(BIN)
NOGO(ABS)
BEGIN,C,PROCFIL,ABS,MPDB,TYPE,ABS.
SKIP(L1)
EXIT(S)
ENDIF(L1)
REVERT.
.DATA
*ID MPDBGEN
*C MPDB_TYPE
.EOR
```

Figure A-6. Procedure MPDBGENABS


```

SUPPORTLIB.
/*
/* COMBINE LIBRARIES TO FORM NEW STAGING SUPPORT LIBRARY
/*
BEGIN,A,*FILE,BIN1,DATABASE,BIN.
BEGIN,A,*FILE,BIN2,RECOVERY,BIN.
BEGIN,A,*FILE,BIN3,XYGRAPH,BIN.
BEGIN,A,*FILE,BIN4,PERMFILE,BIN.
BEGIN,A,*FILE,BIN5,CONVERSION,BIN.
BEGIN,A,*FILE,BIN6,NEWCOMPPIO,BIN.
EDITLIB(I=*DATA,L=0)
BEGIN,C,*FILE,LIB,SUPPORTLIB.
REWIND(LIB)
ITEMIZE(LIB,E)
SKIP(1)
EXIT(S)
RETURN(BIN1,BIN2,BIN3,BIN4,BIN5,BIN6,LIB)
REVERT.
/DATA
LIBRARY(LIB,NEW)
ADD(*,BIN1)
ADD(*,BIN2)
ADD(*,BIN3)
ADD(*,BIN4)
ADD(*,BIN5)
ADD(*,BIN6)
FINISH.
ENDRUN.
/EOR

```

Figure A-7A. Procedure SUPPORTLIB (PROFIL Version)

```

.PROC,SUPPORTLIB.
.*
.* COMBINE LIBRARIES TO FORM NEW STAGING3 SUPPORT LIBRARY
.*
BEGIN,A,PROCFIL,BIN1,DATABASE,BIN.
BEGIN,A,PROCFIL,BIN2,RECOVERY,BIN.
BEGIN,A,PROCFIL,BIN3,XYGRAPH,BIN.
BEGIN,A,PROCFIL,BIN4,PERMFILE,BIN.
BEGIN,A,PROCFIL,BIN5,CONVERSION,BIN.
BEGIN,A,PROCFIL,BIN6,NEWCOMPPIO,BIN.
BEGIN,R,PROCFIL,LIB.
EDITLIB(I=#DATA,L=0)
BEGIN,C,PROCFIL,LIB,SUPPORTLIB.
REWIND(LIB)
ITEMIZE(LIB,E)
SKIP(L1)
EXIT(S)
ENDIF(L1)
RETURN(BIN1,BIN2,BIN3,BIN4,BIN5,BIN6,LIB)
REVERT.
.DATA
LIBRARY(LIB,NEW)
ADD(*,BIN1)
ADD(*,BIN2)
ADD(*,BIN3)
ADD(*,BIN4)
ADD(*,BIN5)
ADD(*,BIN6)
FINISH.
ENDRUN.
.EOR

```

Figure A-7B. Procedure SUPPORTLIB (PROCLIB Version)

PROFIL VERSION

```
MENUGENABS.  
/*  
/* CREATE NEW MENU GENERATOR ABSOLUTE  
/*  
BEGIN,A,*FILE,BIN,MENUGENBIN.  
BEGIN,A,*FILE,SUPLIB,SUPPORTLIB.  
BEGIN,R,*FILE,MENG.  
LOAD(BIN)  
LDSET(LIB=SUPLIB)  
NOGO(MENG)  
BEGIN,C,*FILE,MENG,MENUGENABS.  
SKIP(1)  
EXIT(S)  
RETURN(MENG,BIN,SUPLIB)  
REVERT.
```

PROCFIL VERSION

```
.PROC,MENUGEN,PREFIX=EXEC.  
.*  
.* CREATE NEW MENUS FOR NEW COMMAND TREE  
.*  
RETURN(TAPE9,TAPE31,TAPE32)  
BEGIN,R,PROCFIL,MENUS.  
BEGIN,R,PROCFIL,TAPE10.  
BEGIN,A,PROCFIL,MENG,MENUGENABS.  
BEGIN,A,PROCFIL,TAPE5,PREFIX,MENU,SOURCE.  
MENG(PL=777777)  
BEGIN,C,PROCFIL,TAPE10,PREFIX,MENUDRIVER.  
BEGIN,C,PROCFIL,MENUS,PREFIX,MENU.  
SKIP(L1)  
EXIT(S)  
ENDIF(L1)  
RETURN(TAPE9,TAPE31,TAPE32)  
REVERT.
```

Figure A-8. Procedure MENUGEN

```

MENUTABLE.
/*
/* REGENERATE THE TABLE OF MENU DRIVERS
/*
BEGIN, A, *FILE, OLDPL, STAGINGPL.
BEGIN, R, *FILE, TABLE.
BEGIN, A, *FILE, IN, GLOBAL, MENUDRIVER.
UPDATE(Q, I=IN, L=0)
FTN(I, Z, R=3, B=TABLE, S=0)
BEGIN, A, *FILE, IN, EXEC, MENUDRIVER.
UPDATE(Q, I=IN, L=0)
FTN(I, Z, R=3, B=TABLE, S=0)
BEGIN, A, *FILE, IN, PRE, MENUDRIVER.
UPDATE(Q, I=IN, L=0)
FTN(I, Z, R=3, B=TABLE, S=0)
BEGIN, A, *FILE, IN, POST, MENUDRIVER.
UPDATE(Q, I=IN, L=0)
FTN(I, Z, R=3, B=TABLE, S=0)
BEGIN, A, *FILE, IN, DISPLAY, MENUDRIVER.
UPDATE(Q, I=IN, L=0)
FTN(I, Z, R=3, B=TABLE, S=0)
BEGIN, C, *FILE, TABLE, MENUTABLE.
RETURN(TABLE)
SKIP(1)
EXIT(S)
REVERT.

```

Figure A-9A. Procedure MENUTABLE (PROFIL Version)

```

.PROC,MENUTABLE.
.*
.* REGENERATE THE TALBE OF MENU DRIVERS
.*
BEGIN,A,PROCFIL,OLDPL,STAGINGPL.
BEGIN,R,PROCFIL,TABLE.
BEGIN,A,PROCFIL,IN,GLOBAL,MENUDRIVER.
UPDATE(Q,I=IN,L=0)
FTN(I,Z,L=TABLIST,R=3,B=TABLE,S=0)
BEGIN,A,PROCFIL,IN,DISPLAY,MENUDRIVER.
UPDATE(Q,I=IN,L=0)
FTN(I,Z,L=TABLIST,R=3,B=TABLE,S=0)
BEGIN,A,PROCFIL,IN,EXEC,MENUDRIVER.
UPDATE(Q,I=IN,L=0)
FTN(I,Z,L=TABLIST,R=3,B=TABLE,S=0)
BEGIN,A,PROCFIL,IN,PRE,MENUDRIVER.
UPDATE(Q,I=IN,L=0)
FTN(I,Z,L=TABLIST,R=3,B=TABLE,S=0)
BEGIN,A,PROCFIL,IN,POST,MENUDRIVER.
UPDATE(Q,I=IN,L=0)
FTN(I,Z,L=TABLIST,R=3,B=TABLE,S=0)
BEGIN,C,PROCFIL,TABLE,MENUTABLE.
RETURN(TABLE)
SKIP(L1)
EXIT(S)
ENDIF(L1)
REVERT.

```

Figure A-9B. Procedure MENUTABLE (PROCFIL Version)

FIGURE A.9B - PROCEDURE MENUTABLE (PROCFIL VERSION)

PROFIL VERSION

```
MPDBNEW.  
/*  
/* RECONSTRUCT AN EMPTY STAGING MATERIAL PROPERTY DATA BASE  
/*  
BEGIN,R,*FILE,MATER.  
BEGIN,A,*FILE,ABS,MPDBNEWABS.  
ABS.  
BEGIN,C,*FILE,MATER,MPDB.  
RETURN(MATER,ABS)  
REVERT.
```

PROCFIL VERSION

```
.PROC,MPDBNEW.  
.*  
.* RECONSTRUCT STAGING MATERIAL PROPERTIES DATA BASE  
.*  
BEGIN,R,PROCFIL,MATER.  
BEGIN,A,PROCFIL,ABS,MPDBNEWABS.  
ABS.  
BEGIN,C,PROCFIL,MATER,MPDB.  
RETURN(MATER,ABS)  
REVERT.
```

Figure A-10. Procedure MPDBNEW

PROFIL VERSION

```
MPDBADD.  
/*  
/* MODIFY STAGING MPDB WITH ADDITIONS OR REVISIONS ON TAPE1  
/*  
BEGIN,A,*FILE,MATER,MPDB.  
BEGIN,A,*FILE,ABS,MPDBADDABS.  
ABS.  
EXTEND(MATER)  
RETURN(MATER,TAPE1,ABS)  
REVERT.
```

PROCFIL VERSION

```
.PROC,MPDBADD.  
.*  
.* MODIFY STAGING MPDB WITH ADDITIONS OR REVISIONS ON TAPE1  
.*  
BEGIN,A,PROCFIL,MATER,MPDB.  
BEGIN,A,PROCFIL,ABS,MPDBADDABS.  
ABS.  
EXTEND(MATER)  
RETURN(MATER,TAPE1,ABS)  
REVERT.
```

Figure A-11. Procedure MPDBADD

```

WPVERSION.
/*
/* CREATE NECESSARY MODIFICATIONS FOR WRIGHT-PATTERSON AFB
/*
RETURN(BIN1,BIN2,BIN3)
RETURN(IN1,IN2,IN3)
COPYBR(*DATA,IN1)
COPYBR(*DATA,IN2)
COPYBR(*DATA,IN3)
REWIND(IN1,IN2,IN3)
RETURN(*DATA)
BEGIN,A,*FILE,OLDPL,STAGINGPL.
UPDATE(I=IN1,L=1)
FTN(I,Z,R=3,B=BIN1)
BEGIN,A,*FILE,OLDPL,INTERTEKPL.
UPDATE(I=IN2,L=1)
FTN(I,Z,R=3,B=BIN2)
BEGIN,A,*FILE,OLDPL,PERMFILEPL.
UPDATE(I=IN3,L=1)
FTN(I,Z,R=3,B=BIN3,S=SCPTTEXT,S=PFMTEXT,S=IOTEXT)
REWIND(BIN1,BIN2,BIN3)
BEGIN,R,*FILE,BIN.
COPYBR(BIN1,BIN,999)
COPYBR(BIN2,BIN,999)
COPYBR(BIN3,BIN,999)
BEGIN,C,*FILE,BIN,WPAFB,MODBIN.
ITEMIZE(BIN,E)
SKIP(1)
EXIT(S)
RETURN(OLDPL,COMPILE,BIN,BIN1,BIN2,BIN3)
REVERT.
/DATA
*ID WPAFB1
*D GLOINT.31
    DATA IAC/7HD700370/
/EOR
*ID WPAFB2
*I GINIT.21
    CALL SETBAUD(120)
/EOR
*ID WPAFB3
*D PERMFIL.717,721
*D PERMFIL.724
    SA2    LSD        GET LEFT SHIFTED ACCOUNT AND
    LX2    48         FLOP IT OVER FOR WPAFB
    BX6    X1+X2
*D PERMFIL.772,774
*D PERMFIL.699
*D PERMFIL.416
*I PERMFIL.359
    EQ     AC=ID      DONT BOTHER WITH ACCOUNT CHECK
*D USERTBL.2,264
    SUBROUTINE USERTBL(IARRAY)

```

Figure A-12. Procedure WPVERSION (PROFIL Only)


```

STAGINGGEN(*MAP=PART,*BIN=NONE)
/*
/* GENERATE (COMPIO) VERSION OF STAGING
/*
BEGIN,A,*FILE,TABLE,MENUTABLE.
COPYBR(TABLE,LOADIN,99)
IFC(NE,*BIN,NONE,L2)
REWIND(*BIN)
COPYBR(*BIN,LOADIN,99)
ENDIF(L2)
BEGIN,R,*FILE,ST.
BEGIN,A,*FILE,SEGDIR,SEGDIR.
BEGIN,A,*FILE,LIB,STAGINGLIB.
BEGIN,A,*FILE,SUPLIB,SUPPORTLIB.
BEGIN,A,*FILE,GRLIB,INTERTEK,LIB.
LIBRARY(LIB,SUPLIB)
MAP(*MAP)
RFL(67700)
SEGLOAD(I=SEGDIR,B=ST)
LOAD(LOADIN)
LDSET(PRESET=ZERO,LIB=GRLIB)
NOGO.
BEGIN,C,*FILE,ST,STAGINGABS.
SKIP(1)
EXIT(S)
LIBRARY.
RETURN(*BIN,SEGDIR,LIB,GRLIB,SUPLIB,ST,LOADIN,TABLE)
REVERT.

```

Figure A-13A. Procedure STAGINGGEN (PROFIL Version)

```

.PROC,STAGINGGEN,MAP=PART.
.*
.* GENERATE STAGING ABSOLUTE
.*
BEGIN,A,PROCFIL,TABLE,MENUTABLE.
COPYBR(TABLE,LOADIN,99)
BEGIN,A,PROCFIL,WPMODS,WPMODSBIN.
COPYBR(WPMODS,LOADIN,99)
REWIND(LOADIN)
BEGIN,R,PROCFIL,ST.
BEGIN,A,PROCFIL,SEGDIR,SEGDIR.
BEGIN,A,PROCFIL,LIB,STAGING,LIB.
BEGIN,A,PROCFIL,SUPLIB,SUPPORT,LIB.
BEGIN,A,PROCFIL,GRLIB,INTERTEK,LIB.
LIBRARY(LIB,SUPLIB)
#MAP(MAP)
RFL(67700)
SEGLOAD(I=SEGDIR,B=ST)
LOAD(LOADIN)
LDSET(PRESET=ZERO,LIB=GRLIB)
NOGO.
BEGIN,C,PROCFIL,ST,STAGING,ABS.
SKIP(L1)
EXIT(S)
ENDIF(L1)
LIBRARY.
RETURN(BIN,SEGDIR,LIB,GRLIB,SUPLIB,ST,LOADIN,TABLE)

```

Figure A-13B. Procedure STAGINGEN (PROCFIL Version)

```

LOADGP *MIR... *NEW ALPH...
/*
/* LOADGP...
/*
BEGIN,A,*FILE,LIB1,LIB.
LIBRARY(LIB)
BEGIN,A,*FILE,LIB1,LIB2,LIB3,LIB4.
IFC(EQ,*NEWABS,YES,L1)
BEGIN,A,*FILE,AUTOBIN,AUTOBIN.
BEGIN,A,*FILE,OLDAUTO,GPRIMEPRE.
BEGIN,A,*FILE,NEWAUTO.
BEGIN,A,*FILE,LIB1,TEKLIB.
BEGIN,A,*FILE,LIB2,CAMVNEWLIB.
BEGIN,A,*FILE,LIB4,UTILJTYLIB.
BEGIN,A,*FILE,LIB5,PRIVLIB.
BEGIN,A,*FILE,PRE,CAMV,PRELOAD.
PRELOAD(PRE,CAMV,AUTOBIN,OLDAUTO,LIB1,LIB2,LIB3,LIB4,LIB5)
RETURN(LIB1,LIB2,LIB4,LIB5)
BEGIN,C,*FILE,NEWAUTO,GPRIMEPRE.
RETURN(PRE,OLDAUTO,NEWAUTO,AUTOBIN)
BEGIN,S,*FILE,NEWABS.
BEGIN,R,*FILE,LOADFIL.
REWIND(LOADF)
COPYR(LOADF,LOADFIL,2)
BEGIN,A,*FILE,VLIP,VLIP.
COPYR(VLIP,LOADFIL)
COPYR(LOADF,LOADFIL)
BEGIN,C,*FILE,LOADFIL,GPRIME,LOADF.
RETURN(VLIB,TRASH,LOADF)
ENDIF(L1)
BEGIN,A,*FILE,LOADFIL,GPRIME,LOADF.
BEGIN,A,*FILE,LIB1,GENERLB.
BEGIN,A,*FILE,LIB2,SUPPORTLIB.
RFL(67700)
MAP(ON)
LDSET(LIB=LIB1/LIB2/LIB3)
LOAD(LOADFIL)
NOGO.
REWIND(OVFILE)
BEGIN,A,*FILE,OLDABS,GPRIME.
BEGIN,A,*FILE,TSK,CAMV,TSKLOAD.
TSK(NEWABS,OVFILE,OLDABS)
BEGIN,C,*FILE,NEWABS,GPRIME.
SKIP(1)
EXIT(S)
LIBRARY.
REVERT.
/DATE
*C AUTO,OVLY
*ID UNDO
*D GM033178A.1
/EOR

```

Figure A-14. Procedure LOADGP (PROFIL Only)

```

XGPRIME(*MODE=INITIAL)
/*
/* EXECUTE GPRIME FROM STAGING
/*
DISCONT(INPUT,OUTPUT)
REWIND(OUTPUT,DESKRCH)
RETURN(TAPE1,TAPE61,TAPE62,SMF,AUTO,UMF,MACRODB)
ATTACH(SMF,SMF,ID=STAGING3)
ATTACH(AUTO,GPRIME,ID=STAGING3)
REQUEST(UMF,*PF)
IFC(EQ,*MODE,INITIAL,L1)
ATTACH(MACRODB,MACRODB,ID=STAGING3)
COPYBF(MACRODB,UMF)
RETURN(MACRODB)
ELSE(L1)
COPYBF(DESKRCH,UMF)
ENDIF(L1)
CONNECT(TAPE61,TAPE62)
AUTO(*DATA)
SKIP(1)
EXIT(S)
REWIND(UMF,DESKRCH)
COPYBF(UMF,DESKRCH)
RETURN(AUTO,SMF,UMF,HC,*DATA,TAPE61,TAPE62)
REVERT.
/DATA
*RESTART
*RATE,960
*INTERACTIVE,STORAGE
END
/EOR

```

Figure A-15A. Procedure XGPRIME (PROFIL Version)

```

.PROC,XGPRIME,MODE=INITIAL,CCLFILE=#FILE,CCLDATA=#DATA.
IFE(FILE(OUTPUT,AS),LAB4)
DISCONT(INPUT,OUTPUT)
ENDIF(LAB4)
RETURN,SMF,UMF,GPRIME,TAPE0,MACRODB.
FETCH,SMF,CAGM.
ATTACH,GPRIME,GPRIME,ID=CAGM,LC=1,MR=1.
REWIND(DESKRCH,UMF)
IFE($MODE$.EQ.$INITIAL$,LAB13)
ATTACH,MACRODB,MACRODB,ID=CARK,MR=1.
COPYBF(MACRODB,UMF)
RETURN,MACRODB.
SKIP(LAB14)
ENDIF(LAB13)
COPYBF(DESKRCH,UMF)
ENDIF(LAB14)
RETURN,TAPE61,TAPE62.
CONNECT,TAPE61,TAPE62.
IFE(FILE(INFILE,AS),LAB20)
REWIND,CCLDATA,INFILE.
COPYBR,INFILE,CCLDATA.
REWIND,CCLDATA.
ENDIF(LAB20)
GPRIME(CCLDATA)
RETURN,TAPE61,TAPE62.
REWIND,UMF,DESKRCH.
COPYBF,UMF,DESKRCH.
RETURN(AUTO,SMF,UMF,HC,CCLDATA)
BEGIN,RESTART,CCLFILE.
EXIT.
DMP,60000.
REWIND,UMF,DESKRCH.
COPYBF,UMF,DESKRCH.
RETURN,UMF.
RETURN(TAPE61,TAPE62,AUTO,SMF,HC,CCLDATA)
BEGIN,RESTART,CCLFILE.
EXIT.
BEGIN,RESTART,CCLFILE.
.DATA
*RESTART
*RATE,480
*INTERACTIVE,STORAGE
END

```

Figure A-15B. Procedure XGPRIME (PROCFIL Version)

```

UPDATE(*PREFIX=STAGING)
/*
/* STAGING SYSTEM MAINTENANCE PROCEDURE
/*
/* VALID PREFIXES: STAGING
/*             INTERTEK
/*             DATABASE
/*             CONVERSION
/*             PERMFILE
/*             RECOVERY
/*             XYGRAPH
/*             MENUGEN
/*
BEGIN,A,*FILE,IN,*PREFIX,IN.
BEGIN,A,*FILE,OLDPL,*PREFIX,PL.
BEGIN,A,*FILE,BINOLD,*PREFIX,BIN.
BEGIN,R,*FILE,NEWPL.
BEGIN,R,*FILE,BINNEW.
BEGIN,R,*FILE,EMPTY.
UPDATE(N,I=IN,O=LISTING)
RETURN(BIN)
FTN(I,Z,L=LISTING,R=3,B=BIN,S=SCPTXT)
COPYL(BINOLD,BIN,BINNEW,,RA)
BEGIN,C,*FILE,NEWPL,*PREFIX,PL.
BEGIN,C,*FILE,BINNEW,*PREFIX,BIN.
COPYBF(*DATA,EMPTY)
BEGIN,C,*FILE,EMPTY,*PREFIX,IN.
RETURN(BINOLD,BIN,BINNEW,IN,EMPTY,OLDPL,NEWPL)
IFC(EQ,*PREFIX,STAGING,L1)
BEGIN,NEWLIB,*FILE,STAGING.
ELSE(L1)
IFC(EQ,*PREFIX,INTERTEK,L2)
BEGIN,NEWLIB,*FILE,INTERTEK.
ELSE(L2)
IFC(EQ,*PREFIX,MENUGEN,L3)
BEGIN,MENUGENABS,*FILE.
ELSE(L3)
BEGIN,SUPPORTLIB,*FILE.
ENDIF(L3)
ENDIF(L2)
ENDIF(L1)
/*
/* IF PREFIX WAS STAGING, PROCEDURE STSEG IS NECESSARY TO BUILD ABSOLUTE
/*
SKIP(1)
EXIT(S)
,EVERT.
/DATE
*ID NEW
/EOR

```

Figure A-16A. Procedure Update (PROFIL Version)

```

.PROC,UPDATE,PREFIX=STAGING.
* STAGING SYSTEM MAINTENANCE PROCEDURE
* VALID PREFIXES: STAGING
*
* INTERTEK
*
* DATABASE
*
* CONVERSION
*
* PERMFILE
*
* RECOVERY
*
* XYGRAPH
*
* MENUGEN
BEGIN,A,PROCFIL,IN,PREFIX,IN.
BEGIN,A,PROCFIL,OLDPL,PREFIX,OLDPL.
BEGIN,A,PROCFIL,BINOLD,PREFIX,BIN.
BEGIN,R,PROCFIL,NEWPL.
BEGIN,R,PROCFIL,BINNEW.
BEGIN,R,PROCFIL,EMPTY.
UPDATE(N,I=IN,O=LISTING)
RETURN(BIN)
FTN(1,2,L=LISTING,R=3,B=BIN,S=SCPTXT)
COPYL(BINOLD,BIN,BINNEW,,RA)
BEGIN,C,PROCFIL,NEWPL,PREFIX,PL.
BEGIN,C,PROCFIL,BINNEW,PREFIX,BIN.
COPYBF(#DATA,EMPTY)
BEGIN,C,PROCFIL,EMPTY,PREFIX,IN.
RETURN(BINOLD,BIN,BINNEW,IN,EMPTY,OLDPL,NEWPL)
IFE,$PREFIX$.EQ.$STAGING$,L1.
BEGIN,NEWLIB,PROCFIL,STAGING.
ENDIF(L1)
IFE,$PREFIX$.EQ.$INTERTEK$,L2.
BEGIN,NEWLIB,PROCFIL,INTERTEK.
ENDIF(L2)
IFE,$PREFIX$.EQ.$MENUGEN$,L3.
BEGIN,MENUGENABS,PROCFIL.
ENDIF(L3)
IFE,$PREFIX$.EQ.$DATABASE$,L4.
BEGIN,SUPPORTLIB,PROCFIL.
ENDIF(L4)
IFE,$PREFIX$.EQ.$CONVERSION$,L5.
BEGIN,SUPPORTLIB,PROCFIL.
ENDIF(L5)
IFE,$PREFIX$.EQ.$PERMFILE$,L6.
BEGIN,SUPPORTLIB,PROCFIL.
ENDIF(L6)
IFE,$PREFIX$.EQ.$RECOVERY$,L7.
BEGIN,SUPPORTLIB,PROCFIL.
ENDIF(L7)
IFE,$PREFIX$.EQ.$XYGRAPH$,L8.
BEGIN,SUPPORTLIB,PROCFIL.
ENDIF(L8)
SKIP(L9)
EXIT(S)
ENDIF(L9)
REVERT.
.DATA
*ID NEW
.EOR

```

Figure A-16B. Procedure Update (PROCFIL Version)

PROFIL VERSION

```
NEWLIB(*PREFIX=STAGING)
/*
/* CREATE NEW STAGING OR INTERTEK LIBRARY
/*
BEGIN,R,*FILE,LIB.
BEGIN,A,*FILE,BIN,*PREFIX,BIN.
EDITLIB(I=*DATA,L=0)
BEGIN,C,*FILE,LIB,*PREFIX,LIB.
REWIND(LIB)
ITEMIZE(LIB,E)
SKIP(1)
EXIT(S)
RETURN(BIN,LIB)
REVERT.
/DATA
LIBRARY(LIB,NEW)
ADD(*,BIN)
FINISH.
ENDRUN.
/EOR
```

PROCFIL VERSION

```
.PROC,NEWLIB,PREFIX=STAGING.
.*
.* CREATE NEW STAGING OR INTERTEK LIBRARY
.*
BEGIN,R,PROCFIL,LIB.
BEGIN,A,PROCFIL,BIN,PREFIX,BIN.
EDITLIB(I=#DATA,L=0)
BEGIN,C,PROCFIL,LIB,PREFIX,LIB.
REWIND(LIB)
ITEMIZE(LIB,E)
SKIP(L1)
EXIT(S)
ENDIF(L1)
RETURN(BIN,LIB)
REVERT.
.DATA
LIBRARY(LIB,NEW)
ADD(*,BIN)
FINISH.
ENDRUN.
.EOR
```

Figure A-17. Procedure NEWLIB

APPENDIX B
STAGING LOADER DIRECTIVES

APPENDIX B
STAGING LOADER DIRECTIVES

This section contains the list of loader directives that are input to the CYBER Loader Version 1.4. The list is presented in six tables which correspond to the six segment levels of the STAGING segmentation scheme:

- ROOT
- SWAPPABLE COMMON BLOCKS
- APPLICATION SUBROUTINES
- MISCELLANEOUS SUBROUTINES
- GRAPHICS SUBROUTINES
- SYSTEM AND DATA HANDLER SUBROUTINES

```

*
* TEKTRONIX VERSION OF STAGING
*
BEGIN TREE    DRIVE
* DRIVER IS THE MAIN PROGRAM
* OF THE STAGING SYSTEM
DRIVE INCLUDE DRIVER
DRIVE INCLUDE GLOINT
DRIVE INCLUDE ATT
DRIVE INCLUDE RCOVER
DRIVE INCLUDE SWITCH
DRIVE INCLUDE STARTM
DRIVE INCLUDE EXTABLE
DRIVE INCLUDE DETABLE
DRIVE INCLUDE PRTABLE
DRIVE INCLUDE PPTABLE
DRIVE INCLUDE GLTABLE
DRIVE INCLUDE GLINIT
* COMMON BLOCK DMTBL MUST BE LOW IN
* CORE FOR PROPER OPERATION OF DATA HANDLER
DRIVE GLOBAL DMTBL
DRIVE GLOBAL ACTSTR
DRIVE GLOBAL ATTRIB
DRIVE GLOBAL AXDAD
DRIVE GLOBAL CATS
DRIVE GLOBAL CHDAT
DRIVE GLOBAL CHECK
DRIVE GLOBAL CHKDF
DRIVE GLOBAL CNTDE
DRIVE GLOBAL CODES
DRIVE GLOBAL CREATR
DRIVE GLOBAL DEFORM
DRIVE GLOBAL DRAWBUF
DRIVE GLOBAL EDITT
DRIVE GLOBAL ELEMEN
DRIVE GLOBAL ERASEC
DRIVE GLOBAL ERROR
DRIVE GLOBAL EXMENU
DRIVE GLOBAL GLIN
DRIVE GLOBAL GLOBAL
DRIVE GLOBAL LIMIT
DRIVE GLOBAL MASKS
DRIVE GLOBAL MAXSSS
DRIVE GLOBAL MCODES
DRIVE GLOBAL MENUS
DRIVE GLOBAL PERMEN
DRIVE GLOBAL PIC
DRIVE GLOBAL PLANE
DRIVE GLOBAL ROTANG
DRIVE GLOBAL SWTCH
DRIVE GLOBAL TERMT
DRIVE GLOBAL VU3D
DRIVE GLOBAL ZZFILE

```

Table B-1. Root Level

LEVEL

* THIS LEVEL IS FOR SHARING CORE
 * BETWEEN GROUPS OF COMMON BLOCKS

B1	TREE	BL1
BL1	INCLUDE	BL1INT
BL1	INCLUDE	ATT1
BL1	GLOBAL	DATBAS-SAVE
BL1	GLOBAL	PXY777-SAVE
BL1	GLOBAL	IDENTS-SAVE
BL1	GLOBAL	MENBLK-SAVE
BL1	GLOBAL	CNINT-SAVE
*		
B2	TREE	BL2
BL2	INCLUDE	BL2INT
BL2	GLOBAL	TBLOCK-SAVE

Table B-2. Swappable Common Blocks Level

```

LEVEL
TREE1 TREE MEN1-(EX,GL)
*
MEN1 INCLUDE EXSTAR
MEN1 INCLUDE REACT
MEN1 INCLUDE FILNAM
*
EX INCLUDE IEXDEC
EX INCLUDE EXEC
EX INCLUDE EXECC
EX INCLUDE FILATT
*
GL TREE GLO-(GL1,GL2,GL3,GL4)
*
GLO INCLUDE IGLDEC
GLO INCLUDE MORDRW
GLO INCLUDE MOAXES
GLO INCLUDE MOLAX
GLO INCLUDE MOZSRS
GLO INCLUDE MORCNT
GLO INCLUDE MOZCRS
GLO INCLUDE MOZPLS
*
GL1 INCLUDE GLSTOP
GL1 INCLUDE GLCHCK
GL1 INCLUDE GLCLOK
GL1 INCLUDE GLHIST
GL1 INCLUDE GLLUP
GL1 INCLUDE GLLDN
*
GL2 INCLUDE GLSTDB
GL2 INCLUDE GLSTDS
GL2 INCLUDE GLDEFP
GL2 INCLUDE GLDEFS
GL2 INCLUDE IGNM
*
GL3 INCLUDE FRONTVU
GL3 INCLUDE SIDEVU
GL3 INCLUDE TOPVU
GL3 INCLUDE MOFILL
GL3 INCLUDE MODRW
GL3 INCLUDE SVIEW
GL3 INCLUDE SVIEWP
GL3 INCLUDE MOSPLT
GL3 INCLUDE MOSOS
GL3 INCLUDE MOFRE
GL3 INCLUDE MOFRZ
GL3 INCLUDE MOASHK
GL3 INCLUDE MOISHK
GL3 INCLUDE MOSSHK
*
GL4 INCLUDE SROTET
GL4 INCLUDE SROTST

```

Figure B-3. Application Routine Level

```

POST  TREE  PP
PP    INCLUDE IPPDEC
PP    INCLUDE PRINCP
PP    INCLUDE PRINC3
PP    INCLUDE EQSTR
PP    INCLUDE PROOT
*
PR    TREE  PRO-(PR1-(PR11,PR12),PR2)
* THERE ARE TWO PREPROCESSOR TREES---
*   PR---DRAFTING PACKAGE
*   PRM---MATERIAL PROPERTY DATA BASE
PRO   INCLUDE IPRDEC
PRO   INCLUDE DRAWFR
PRO   GLOBAL PDRAW-SAVE
*
PR1   INCLUDE ICPART
*
PR11  INCLUDE CNNEW
PR11  INCLUDE CNELEM
PR11  INCLUDE CNNODE
*
PR12  INCLUDE CNTERM
PR12  INCLUDE CINTER
PR12  INCLUDE CNSORT
*
PR2   INCLUDE NODE
PR2   INCLUDE GRID
PR2   INCLUDE CHNGP1
PR2   INCLUDE CHNGP2
PR2   INCLUDE BDSTR
PR2   INCLUDE FIXDAT
PR2   INCLUDE SETLN
PR2   INCLUDE SETND
PR2   INCLUDE IDRXT
PR2   INCLUDE CLROUT
*
PRM   TREE  PRM0-(PRM1,PRM2)
*
PRM0  INCLUDE CNTABL
*
PRM1  INCLUDE MYINIT
PRM1  INCLUDE ASUB4
PRM1  INCLUDE ASUB5
PRM1  INCLUDE ASUB7
PRM1  INCLUDE DISPLB
PRM1  INCLUDE DRELN
PRM1  INCLUDE ELNAM
PRM1  INCLUDE GETRAG
PRM1  INCLUDE INTSUB
PRM1  INCLUDE LIBIN
*
PRM2  INCLUDE MATDEF
PRM2  INCLUDE MATIN
PRM2  INCLUDE LIBINS

```

Figure B-3. Application Routines Level (Cont'd)

```

DE      TREE      DE0-(DE1,DE2,DE3,DE4,DE5,DE7,DE9)
*
DE0     INCLUDE  IDEDEC
DE0     INCLUDE  ICKRNG
DE0     INCLUDE  ALLON
DE0     INCLUDE  ALLOFF
DE0     INCLUDE  ASUBS
DE0     INCLUDE  IECPRC
DE0     GLOBAL  IGSIGS-SAVE
*
DE1     INCLUDE  DZRST
DE1     INCLUDE  RTYPSV
DE1     INCLUDE  CNTPRD
DE1     INCLUDE  RNGDEL
DE1     INCLUDE  RNGDRW
DE1     INCLUDE  PONPEN
DE1     INCLUDE  PTYPE
DE1     INCLUDE  EQNUM
DE1     INCLUDE  EMERG
DE1     INCLUDE  EMERGE
DE1     INCLUDE  DRWATA
DE1     INCLUDE  DRWATT
DE1     INCLUDE  DELPIC
DE1     INCLUDE  EONPD
DE1     INCLUDE  EONPEN
DE1     INCLUDE  PORG
*
DE2     INCLUDE  EDINIT
DE2     INCLUDE  ELREPL
DE2     INCLUDE  ELREPP
DE2     INCLUDE  RETAIN
DE2     INCLUDE  RETAIS
DE2     INCLUDE  EMOVE
DE2     INCLUDE  MXYI
DE2     INCLUDE  MXYP
DE2     INCLUDE  EUPPNT
*
DE3     INCLUDE  DYDRDE
DE3     INCLUDE  DYLOAD
DE3     INCLUDE  DYSFPU
DE3     INCLUDE  DYSSTP
DE3     INCLUDE  DYUNDE
DE3     INCLUDE  ICKSL
DE3     INCLUDE  ATTLST
DE3     INCLUDE  ATTPRC
DE3     INCLUDE  ATTREN
DE3     INCLUDE  ATTRNG
DE3     INCLUDE  ATTRNP
DE3     INCLUDE  LANODE
DE3     INCLUDE  LFNODE
DE3     INCLUDE  NODON
DE3     INCLUDE  NODAEL
DE3     INCLUDE  NODFEL
DE3     INCLUDE  LFNOD

```

Figure B-3. Application Routines Level (Cont'd)

```

DE4   TREE      DE40-(DE41,DE42)
*
DE40  INCLUDE  PROCXA
DE40  INCLUDE  SORTXY
DE40  INCLUDE  GETDAT

DE41  INCLUDE  INITXY
DE41  INCLUDE  INTFLG
DE41  INCLUDE  TABLIN
DE41  INCLUDE  PROCTIT
DE41  INCLUDE  TABVAL
DE41  INCLUDE  TABIND
*
DE42  INCLUDE  PROCCHR
DE42  INCLUDE  TABDEL
*
DE5   INCLUDE  ECHOND
DE5   INCLUDE  ECPROC
DE5   INCLUDE  ECREAN
DE5   INCLUDE  ERD
DE5   INCLUDE  ERDOWD
DE5   INCLUDE  ERDOWN
DE5   INCLUDE  ERNDLD
*
DE7   INCLUDE  EACTPN
DE7   INCLUDE  EADOWN
DE7   INCLUDE  EALLS
DE7   INCLUDE  EATS
DE7   INCLUDE  EATF
DE7   INCLUDE  ENDOWN
DE7   INCLUDE  EPUTDN
DE7   INCLUDE  ESERCH
DE7   INCLUDE  ASERCH
DE7   INCLUDE  SSAOFF
*
DE9   INCLUDE  CNTOR
DE9   INCLUDE  CNTPRE
DE9   INCLUDE  CNTINT
DE9   INCLUDE  CNTITL
DE9   INCLUDE  CNTIT2
DE9   INCLUDE  GETCNT

```

Figure B-3. Application Routines Level (Cont'd)

MISC	LEVEL	
	TREE	MO-(M1,M3,M5,M8)
*		
M0	INCLUDE	EQPEN
M0	INCLUDE	STRACT
*		
M1	INCLUDE	CORSHF
M1	INCLUDE	RASTOU
M1	INCLUDE	GIFETS
M1	INCLUDE	CNELM
M1	INCLUDE	ELNCHK
M1	INCLUDE	ECHKL
M1	INCLUDE	IENEXT
M1	GLOBAL	IENX-SAVE
*		
M3	TREE	M30-(M31,M32,M33)
*		
M30	INCLUDE	TYPNAM
M30	INCLUDE	PAGER
M30	INCLUDE	ERASER
M30	INCLUDE	IPICK
M30	INCLUDE	PUTEDT
M30	INCLUDE	SELATT
M30	INCLUDE	GLTOP
*		
M31	INCLUDE	TABACT
M31	INCLUDE	TABACK
M31	INCLUDE	TABPRC
M31	INCLUDE	TABXYP
M31	INCLUDE	TABXYM
M31	INCLUDE	TABSCX
M31	INCLUDE	TABSCL
M31	INCLUDE	TABDM
M31	INCLUDE	TABXI
M31	INCLUDE	PUTLST
M31	INCLUDE	SSOFF
M31	INCLUDE	DACTSN
M31	INCLUDE	PUTNAM
*		
M32	INCLUDE	GIASID
M32	INCLUDE	EXINIT
M32	INCLUDE	DEINIT
M32	INCLUDE	PRINIT
M32	INCLUDE	PPINIT
M32	INCLUDE	DEINIT1
M32	INCLUDE	IGPCKM
M32	INCLUDE	IPPRMT
M32	INCLUDE	IREAD
M32	INCLUDE	MENNIT
M32	INCLUDE	INDATA
M32	GLOBAL	INPUT-SAVE

Figure B-4. Miscellaneous Level

```

M33    INCLUDE MOPUT
M33    INCLUDE MOREC
M33    INCLUDE PLINIT
M33    INCLUDE SPSEL
M33    INCLUDE PUTATT
M33    INCLUDE ACTATT
M33    INCLUDE PROFAC
M33    INCLUDE REPFA
M33    INCLUDE QTITLE
*
M5     INCLUDE RESTART
M5     INCLUDE GRFNIT
M5     INCLUDE GRDNIT
M5     INCLUDE INIT2D
M5     INCLUDE INIT3N
M5     INCLUDE CLRPIC
M5     INCLUDE XYERAS
M5     INCLUDE SETWZ
M5     INCLUDE SET1
M5     INCLUDE MOBOTH
M5     INCLUDE GINIT
M5     INCLUDE GIZOOM
*
M8     TREE    M80-(M81,M82)
*
M80    INCLUDE ICKBYT
*
M81    TREE    M810-(M811,M812,M813,M814)
*
M810   INCLUDE METAZZ
M810   INCLUDE LINZZ
M810   INCLUDE QIKGRF
M810   INCLUDE LEGNDG
M810   INCLUDE LINESG
M810   INCLUDE NUMBRG
M810   INCLUDE SCALZZ
M810   INCLUDE SETSMG
M810   INCLUDE RSETMG
M810   GLOBAL IGSCOM-SAVE
*
M811   INCLUDE TITLEG
M811   INCLUDE POINTG
*
M812   TREE    M8120-(M8121,M8122)
*
M8120  INCLUDE MLTPLG
M8120  INCLUDE SEGMTG
*
M8121  INCLUDE GRIDG
*
M8122  INCLUDE LABELG

```

Figure B-4. Miscellaneous Level (Cont'd)

```

M813 TREE M8130-(M8131,M8132)
*
M8130 INCLUDE SETUPG
M8131 INCLUDE OBJCTG
M8132 INCLUDE SUBJEG
*
M814 TREE M8140-(M8141,M8142)
*
M8140 INCLUDE LTEST
M8140 INCLUDE STEST
M8140 GLOBAL TMCOM2
*
M8141 INCLUDE SCAN
M8141 INCLUDE SHELL
M8141 INCLUDE CONHUL
M8141 INCLUDE TRIORD
M8141 INCLUDE TMESH3
*
M8142 INCLUDE TMESH2
*
M82 TREE M820-(M821,M822)
*
M820 INCLUDE IDRWLN
M820 INCLUDE IDRWEL
M820 INCLUDE IDRWND
M820 INCLUDE IDRWAT
M820 INCLUDE DRWACT
M820 INCLUDE GETCSS
M820 INCLUDE GETCEN
M820 INCLUDE GETCOR
M820 INCLUDE EQEUP
M820 GLOBAL EQARR-SAVE
*
M821 INCLUDE DRWSS
M821 INCLUDE IDRWSS
M821 INCLUDE IDRWST
M821 INCLUDE IDRW
M821 INCLUDE ICON
*
M822 INCLUDE ARROW
M822 INCLUDE IARSET

```

Figure B-4. Miscellaneous Level (Cont'd)

GRAPH	LEVEL	TREE	GO-(G11,G12,G13,G14)
*			
*			
GO	INCLUDE	COMP	IO
GO	INCLUDE	GERASE	
GO	INCLUDE	GFLUSH	
GO	INCLUDE	GPRESET	
GO	INCLUDE	GCGARR	
GO	INCLUDE	GCGMM	
GO	INCLUDE	GCGTYP	
GO	INCLUDE	GCSSF	
GO	INCLUDE	GCRCAT	
GO	INCLUDE	GCUCAT	
GO	INCLUDE	GCRESI	
GO	INCLUDE	GCUPXY	
GO	INCLUDE	GISUBF	
GO	INCLUDE	GIALRM	
GO	INCLUDE	GCDRAW	
GO	INCLUDE	GCDSF	
GO	INCLUDE	GCUNPK	
GO	INCLUDE	GCDRIT	
GO	INCLUDE	GCCHMM	
GO	INCLUDE	GCFILL	
GO	INCLUDE	GCWORK	
GO	INCLUDE	GCDLIM	
GO	INCLUDE	GULIN	
GO	INCLUDE	GCC	
GO	INCLUDE	GCHIGH	
GO	INCLUDE	GITEM	
GO	INCLUDE	GCUPSF	
GO	INCLUDE	GIDELT	
GO	INCLUDE	GUBUF	
GO	INCLUDE	GCPKDS	
GO	INCLUDE	GCUNPK	
GO	INCLUDE	IDISER	
GO	INCLUDE	DELETE	
GO	GLOBAL	TEKCOM	
GO	GLOBAL	GCGI1	
GO	GLOBAL	GCGI	
GO	GLOBAL	GCBUF	
GO	GLOBAL	GCCODE	
GO	GLOBAL	GCDR	
GO	GLOBAL	GCGU	

Figure B-5. Graphics Routine Level

```

G11    INCLUDE GIBUTN
G11    INCLUDE GTSNGL
G11    INCLUDE GITRAK
G11    INCLUDE GCINPC
G11    INCLUDE TRKOFF
G11    INCLUDE GICLRQ
*
G12    INCLUDE ESLOT
G12    INCLUDE ONPEN
G12    INCLUDE SETCAT
G12    INCLUDE GICAT
G12    INCLUDE GIDAE
G12    INCLUDE TABPEN
G12    INCLUDE GUTEXT
G12    INCLUDE GUSETP
G12    INCLUDE DELSF
G12    INCLUDE GISHOW
*
G13    INCLUDE GIDUP
G13    INCLUDE SETVU
G13    INCLUDE GIDFON
G13    INCLUDE ERASEM
G13    INCLUDE ACOSIN=
G13    INCLUDE ATAN2
G13    INCLUDE SYS=AID
G13    INCLUDE GCMAT
G13    INCLUDE GC3DA
G13    INCLUDE CNVTOU
*
G14    INCLUDE MEXTN
G14    INCLUDE MITEM
G14    INCLUDE ICAN
G14    INCLUDE IDINF
G14    INCLUDE GIXTND

```

Figure B-5. Graphics Routine Level (Cont'd)

SYS	LEVEL	SO-(S1,DB)
*		
SO	INCLUDE	SCALST
SO	INCLUDE	EDITTI
SO	INCLUDE	UTORAS
SO	INCLUDE	ICCHR
SO	INCLUDE	IBEAUT
SO	INCLUDE	IALATT
SO	INCLUDE	NAMFNM
SO	INCLUDE	UNPACK
SO	INCLUDE	GET.PUT
SO	INCLUDE	SORT
SO	INCLUDE	SYSAID=
SO	INCLUDE	SINCOS=
SO	INCLUDE	CNVTOC
SO	INCLUDE	GCGET
SO	INCLUDE	GCSET
SO	INCLUDE	FORSYS=
SO	INCLUDE	Q8NTRY=
SO	INCLUDE	CLS.FRM
SO	INCLUDE	OPEN.SQ
SO	INCLUDE	OPEN.RM
SO	INCLUDE	OSUB.RM
SO	INCLUDE	OPEX.SQ
SO	INCLUDE	GOTOER=
SO	INCLUDE	ITJ=
SO	INCLUDE	FORUTL=
SO	INCLUDE	FECMSK=
SO	INCLUDE	Z.SQ
SO	INCLUDE	GET.SQ
SO	INCLUDE	BTRT.SQ
SC	INCLUDE	PUT.SQ
SO	INCLUDE	REW.SQ
SO	INCLUDE	WEOX.SQ
SO	INCLUDE	ERR.RM
SO	INCLUDE	CLS.FSQ
SO	INCLUDE	CLS.FRM
SO	INCLUDE	CIO.RM
SO	INCLUDE	CHWR.SQ
SO	INCLUDE	CLSV.SQ
SO	INCLUDE	FSU.SQ
SO	INCLUDE	MOVE.RM
SO	INCLUDE	WAR.SQ
SO	INCLUDE	SKFL.SQ
SO	INCLUDE	RLEQ.RM
SO	INCLUDE	SYS.RM
SO	GLOBAL	AOB.RM-SAVE
SO	GLOBAL	CLS.FO-SAVE
SO	GLOBAL	CLSV.FO-SAVE
SO	GLOBAL	CON.RM-SAVE
SO	GLOBAL	FCL.C.-SAVE
SO	GLOBAL	GET.BT-SAVE
SO	GLOBAL	GET.FO-SAVE
SO	GLOBAL	GET.RT-SAVE

Figure B-6. System and Data Handler Level

```

S0 GLOBAL JMPS.RM-SAVE
S0 GLOBAL PUT.FO-SAVE
S0 GLOBAL PUT.RT-SAVE
S0 GLOBAL Q8.IO.-SAVE
S0 GLOBAL REW.FO-SAVE
S0 GLOBAL SKFL.FO-SAVE
S0 GLOBAL STP.END-SAVE
S0 GLOBAL TERM.RM-SAVE
S0 GLOBAL MEMC.RM-SAVE
S0 GLOBAL OPEN.FO-SAVE
S0 GLOBAL OPES.FO-SAVE
*
S1 INCLUDE YIELD1=
S1 INCLUDE YIELD=
S1 INCLUDE HOLD
S1 INCLUDE DMP
S1 INCLUDE DMP.CFK
S1 INCLUDE COPYFL
S1 INCLUDE IPFUT
S1 INCLUDE PERMFL
S1 INCLUDE ICRACK
S1 INCLUDE ICHKED
S1 INCLUDE COMPAC
S1 INCLUDE GIERR
S1 INCLUDE CLOCK=
S1 INCLUDE REQUEST
S1 INCLUDE MCT.RM
S1 INCLUDE ALOG
S1 INCLUDE EXP
S1 INCLUDE XTOY=
S1 INCLUDE SYS=1ST
S1 INCLUDE XTOI=
S1 GLOBAL ICHKD-SAVE
*
DB TREE DB0-(DB1,DB2,DB3)
*
DB0 INCLUDE IDBFND
DB0 INCLUDE CPC
DB0 INCLUDE PDUMP
DB0 INCLUDE IGFTR
DB0 INCLUDE DMREAD
DB0 INCLUDE DMWRITE
DB0 INCLUDE DMGTBD
DB0 INCLUDE DMRLBD
DB0 INCLUDE DMSTGT
DB0 INCLUDE DMBDAD
DB0 INCLUDE DMFV
DB0 INCLUDE SYSTEM
DB0 INCLUDE INBUF
DB0 INCLUDE OUTBUF
DB0 INCLUDE READR
DB0 INCLUDE RWRITE
DB0 INCLUDE RWRITER
DB0 INCLUDE FCHPRAM
DB0 INCLUDE SETPRAM
DB0 INCLUDE FETSTAT
DB0 INCLUDE WRITE

```

Figure B-6. System and Data Handler Level (Cont'd)

```

DB0    INCLUDE DFCHBD
DB0    INCLUDE IFATT
DB0    INCLUDE IGATT
DB0    INCLUDE ISACT
DB0    INCLUDE IDBRVS
DB0    INCLUDE NUMFNM
DB0    INCLUDE DWRITE
DB0    INCLUDE IDBRIT
DB0    INCLUDE IDBUPP
DB0    INCLUDE MFEAD
DB0    INCLUDE GETSIZ
*
DB1    INCLUDE DMFLSH
DB1    INCLUDE DMINIT
DB1    INCLUDE DBINIT
DB1    INCLUDE CLOSE
DB1    INCLUDE RFILEB
DB1    INCLUDE WRITER
DB1    INCLUDE SETFETR
DB1    INCLUDE DZSAVE
DB1    INCLUDE DBLKUP
DB1    INCLUDE DECHNM
DB1    INCLUDE RETURN
*
DB2    INCLUDE ACTIVA
DB2    INCLUDE NEXTIN
DB2    INCLUDE ICKACT
DB2    INCLUDE IDBCAN
DB2    INCLUDE DBCHA
DB2    INCLUDE DBUPT
DB2    INCLUDE IDBADB
DB2    INCLUDE DBDEL
DB2    INCLUDE EADDEL
DB2    GLOBAL  NSAVE-SAVE
*
DB3    INCLUDE DBTGET
DB3    INCLUDE GETCES
DB3    INCLUDE GETLIM
DB3    INCLUDE ICKATT
DB3    INCLUDE IDBARR
DB3    INCLUDE IDBTFM
DB3    INCLUDE IGETCH
DB3    INCLUDE SPCHK
DB3    GLOBAL  IATTYP-SAVE
DB3    GLOBAL  TABLEC-SAVE
DB3    END      DRIVER

```

Figure B-6. System and Data Handler Level (Cont'd)

APPENDIX C
STAGING SYSTEM CROSS-REFERENCE

APPENDIX C
STAGING SYSTEM CROSS-REFERENCE

This appendix is an alphabetized listing of all entry names that occur in the STAGING system. Each entry has information associated with it, such as:

- entry classification - indicates whether the entry name is the name of the object module (MAIN) or a secondary entry point (SECONDARY);
- description - a brief explanation of an entry name's function (if available);
- length - length of object module in octal words;
- language - source language of object module;
- secondary entry point information - for a main entry point: a list of secondary entry points (if any) - for a secondary entry point: the associated main entry point;
- names of callers - names of all modules that contain this entry name as an external reference - if entry has none, then a message to that effect will appear;
- names of callees - names of all external references by this module - if there are none then a message to that effect will appear - in the case of a secondary entry point this information is not applicable;

An example of two entries is given below, "SINCOS =" and "SIN.", where the latter is a secondary entry point for the former:

SINCOS = ENTRY CLASS: MAIN SEGMENT: (SØ)
DESC: TRIGONOMETRIC SINE OR COSINE OF X
LENGTH: 66 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

COS. SIN.

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

CAN CALL THE FOLLOWING:

SYSIST

SIN. ENTRY CLASS: SECONDARY SEGMENT: (SØ)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: SINCOS =

CAN BE CALLED BY:

SROTET SETVU GC3DA CNVTOC

ABNORM. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FORSYS=
CAN BE CALLED BY:
GOTOER=

AB1. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FORSYS=
CAN BE CALLED BY:
Q8.IO. STP.END

ACOSIN= ENTRY CLASS: MAIN SEGMENT: (G13)
DESC: COMPUTE THE INVERSE SINE OR COSINE OF X.
LENGTH: 71 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
ACOS.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYSIST.

ACOS. ENTRY CLASS: SECONDARY SEGMENT: (G13)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : ACOSIN=
CAN BE CALLED BY:
GC30A CNVTOU

ACTATT ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: PROCESS CROSSHAIR PICK OF ATTRIBUTE NAME DISPLAYED BY #SELATT#
LENGTH: 25 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ATTOFF
CAN BE CALLED BY:
DETABLE PROCXA
CAN CALL THE FOLLOWING:
SELATC

ACTIVA ENTRY CLASS: MAIN SEGMENT: (DB2)
DESC: ACTIVATE BEAD FOR DISPLAY
LENGTH: 141 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
BOSTR FIXCAT ASUB4 ALLON ASUJS
RNGORW NODAEI NOGFEL LFNOD ECPROC
ASERCH TABACT
CAN CALL THE FOLLOWING:
D80AD D8DLF D8DRT D80AC I8D8LF
ICKACT

ALLOFF ENTRY CLASS: MAIN SEGMENT: (DE0)
DESC: DELETE AND DEACTIVATE ALL BEADS ON A LEVEL
LENGTH: 24 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

DETABLE
CAN CALL THE FOLLOWING:
DELETE

ALLON ENTRY CLASS: MAIN SEGMENT: (DE0)
DESC: ACTIVATE ALL BEADS ON A LEVEL
LENGTH: 112 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ALLSON
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
IDRW IDISER ACTIVA NEXTIN NEXTB

ALLSON ENTRY CLASS: SECONDARY SEGMENT: (DE0)
DESC: ACTIVATE ALL NODES OR ELEMENTS IN ACTIVE SUBSTRUCTURES ONLY
SECONDARY ENTRY POINT FOR : ALLON
CAN BE CALLED BY:
DETABLE

ALOG10. ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : ALOG
CAN BE CALLED BY:
SCALZZ SETSMG SETUPG LABELG OBJCTG
SUBJEG

ALOG ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: COMPUTE COMMON AND NATURAL LOGARITHMS. OPT=ALL
LENGTH: 73 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
ALOG. ALOG10.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYSIST.

ALOG. ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : ALOG
CAN BE CALLED BY:
XTOY=

AMAC.SQ ENTRY CLASS: SECONDARY SEGMENT: (SQ)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : GET.SQ
CAN BE CALLED BY:
BTRT.SQ FSU.SQ

ANBL.SQ ENTRY CLASS: SECONDARY SEGMENT: (SQ)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : GET.SQ
CAN BE CALLED BY:
BTRT.SQ

ARROW ENTRY CLASS: MAIN SEGMENT: (M822)
DESC: DRAW AN ARROW ALONG WITH ANY OF THE COORDINATE AXES

LENGTH: 362 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MOAXES IDRWT
 CAN CALL THE FOLLOWING:
 IORWLN IARSET GCMAT UTORAS SQRT.

ASERCHA ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: SEARCH FOR ALL BEADS ON A LEVEL WITH SPECIFIED ATTRIBUTES
 SECONDARY ENTRY POINT FOR : ASERCH
 CAN BE CALLED BY:
 DETABLE

ASERCH ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: SEARCH FOR ALL BEADS IN ACTIVE SUBSTRUCTURES BY ATTRIBUTE
 LENGTH: 106 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 ASERCHA
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ELNCHK PUTEOT PUTAT IDRW IDISER
 ICHKED COMPAC ACTIVA NEXTIN NEXTB
 ICKATT

ASUBS ENTRY CLASS: MAIN SEGMENT: (DE0)
 DESC: ACTIVATE STRUCTURES OR SUBSTRUCTURES BY NAME
 LENGTH: 22 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTNM MBEAD ACTIVA

ASUB4 ENTRY CLASS: MAIN SEGMENT: (PRM1)
 DESC: PROCESS SUBSTRUCTURE PICKS FOR MATERIAL PROPERTY GENERATION
 LENGTH: 37 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABLE
 CAN CALL THE FOLLOWING:
 DRELN PUTNM DRWSS MBEAD ACTIVA

ASUB5 ENTRY CLASS: MAIN SEGMENT: (PRM1)
 DESC: PROCESS ELEMENT PICKS FOR MATERIAL PROPERTY GENERATION
 LENGTH: 41 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABLE
 CAN CALL THE FOLLOWING:
 MBEAD

ASUB7S ENTRY CLASS: SECONDARY SEGMENT: (PRM1)
 DESC: SET FLAG TO INDICATE THAT MP TO BE DEFINED FOR ALL ELEMENTS
 SECONDARY ENTRY POINT FOR : ASUB7
 CAN BE CALLED BY:

PRTABLE

ASU37	ENTRY CLASS: MAIN	SEGMENT: (PRM1)
	DESC: PROCESS ELEMENT TYPE FOR MATERIAL PROPERTY GENERATION	
	LENGTH: 41	LANGUAGE: FTN
	SECONDARY ENTRY POINTS:	
	ASUB7S	
	CAN BE CALLED BY:	
	PRTABLE	
	CAN CALL THE FOLLOWING:	
	CNELM	
ATAN2	ENTRY CLASS: MAIN	SEGMENT: (G13)
	DESC: ARCTAN OF RATIO OF Y TO X. OPT = ALL.	
	LENGTH: 73	LANGUAGE: COMPASS
	SECONDARY ENTRY POINTS:	
	ATAN2.	
	THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS	
	CAN CALL THE FOLLOWING:	
	SYSID.	
ATAN2.	ENTRY CLASS: SECONDARY	SEGMENT: (G13)
	DESC: (NOT AVAILABLE)	
	SECONDARY ENTRY POINT FOR : ATAN2	
	CAN BE CALLED BY:	
	GC3DA	CNVTOU
ATTLSC	ENTRY CLASS: SECONDARY	SEGMENT: (OE3)
	DESC: CHECK TO SEE IF MORE ATTRIBUTE NAMES ARE TO BE DISPLAYED	
	SECONDARY ENTRY POINT FOR : ATTLST	
	CAN BE CALLED BY:	
	ATTPRC	
ATTLST	ENTRY CLASS: MAIN	SEGMENT: (OE3)
	DESC: DISPLAY ATTRIBUTE NAMES FOR THIS DATA BASE LEVEL	
	LENGTH: 70	LANGUAGE: FTN
	SECONDARY ENTRY POINTS:	
	ATTLSC	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	
	TYPVAL	SETCAT
ATTOFF	ENTRY CLASS: SECONDARY	SEGMENT: (M33)
	DESC: TURN OFF ATTRIBUTE DISPLAY	
	SECONDARY ENTRY POINT FOR : ACTATT	
	CAN BE CALLED BY:	
	DETABLE	
ATTPRC	ENTRY CLASS: MAIN	SEGMENT: (OE3)
	DESC: PROCESS ATTRIBUTE PICK	
	LENGTH: 33	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	

ATTLSO PUTEDT

ATTREC ENTRY CLASS: SECONDARY SEGMENT: (DE3)
DESC: CHECK TO SEE IF MORE ATTRIBUTES ARE TO BE PUT UP FOR RENAME
SECONDARY ENTRY POINT FOR : ATTREN
CAN BE CALLED BY:
ATTRNP

ATTREN ENTRY CLASS: MAIN SEGMENT: (DE3)
DESC: (NOT AVAILABLE)
LENGTH: 142 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ATTRNP
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT

ATTRNG ENTRY CLASS: MAIN SEGMENT: (DE3)
DESC: NOW PUT THE NEW ATTRIBUTE NAME TOGETHER FOR THIS DATA BASE
LENGTH: 127 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IDISER IBEAUT ICHKED COMPAC
IFATT

ATTRNP ENTRY CLASS: MAIN SEGMENT: (DE3)
DESC: PROCESS TYPE-IN FOR ATTRIBUTE RENAME
LENGTH: 55 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ATTREC ICHKED COMPAC

ATT1 ENTRY CLASS: MAIN SEGMENT: (BL1)
DESC: INITIALIZE MODEL DATA BASE DATA HANDLER CONSTANTS
LENGTH: 3 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ATT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ATT ENTRY CLASS: MAIN SEGMENT: (DRIVE)
DESC: CONTAINS ONLY DATA STATEMENTS
LENGTH: 4 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLOINT
CAN CALL THE FOLLOWING:
ATT1

BOSTR ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: INITIALIZE NODE STRING PICKING IN DRAFTING


```

LENGTH: 115 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  CNCT3D
CAN BE CALLED BY:
  PRTABLE
CAN CALL THE FOLLOWING:
  SETLN SETND IDRNXT CNELM IDRW
  ONPEN MBEAO ACTIVA OBCHA OSUPT
  DBONT

BFN. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FORUTL=
CAN BE CALLED BY:
  FORSYS=

BL1INT ENTRY CLASS: MAIN SEGMENT: (BL1)
DESC: BRING SEGMENT BL1 COMMON BLOCKS INTO CORE
LENGTH: 3 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DRIVER GLOINT CNTOR
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

BL2INT ENTRY CLASS: MAIN SEGMENT: (BL2)
DESC: BRING SEGMENT BL2 COMMON BLOCKS INTO CORE
LENGTH: 3 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  CNTOR
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

BTRT.SQ ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 114 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
  PUT.C
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
  ANGL.SQ AMAC.SQ RM.RCLA

CBD. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FORUTL=
CAN BE CALLED BY:
  FORSYS=

CHNGP1 ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: GET TYPE-IN TO CHANGE GRID UNITS IN DRAFTING
LENGTH: 40 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  PRTABLE
CAN CALL THE FOLLOWING:
  PUTEDT IBEAUT

```

CHNGP2 ENTRY CLASS: MAIN SEGMENT: (PR2)
 DESC: CHANGE GRID UNITS IN DRAFTING
 LENGTH: 52 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABE
 CAN CALL THE FOLLOWING:
 GRID GIDELT GOTOER. ICHKED COMPAC

CHWR.SQ ENTRY CLASS: MAIN SEGMENT: (SD)
 DESC: (NOT AVAILABLE)
 LENGTH: 7 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 OPEN.SQ PUT.SQ
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CIO.RM ENTRY CLASS: MAIN SEGMENT: (SD)
 DESC: (NOT AVAILABLE)
 LENGTH: 40 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 RM.CIO RM.RCLA RM.RCLP
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CLEAR2 ENTRY CLASS: MAIN SEGMENT: (PR1)
 DESC: SET ALL VALUES BETWEEN ADDRESSES SPECIFIED TO SPECIFIED VALUE
 LENGTH: 6 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ICPART CNELEM CNNOOE
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CLOCK= ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: ACCESS SYSTEM CLOCKS FOR FORTRAN.
 LENGTH: 31 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 TIME
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 SYS=

CLOSE ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: CLOSE DATA HANDLER FILE
 LENGTH: 4 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMFLSH
 CAN CALL THE FOLLOWING:
 CPC

CLRFEFR ENTRY CLASS: SECONDARY SEGMENT: (OB1)
 DESC: DATA HANDLER FET ROUTINE
 SECONDARY ENTRY POINT FOR : SETFEFR
 CAN BE CALLED BY:
 DMFLSH DMINIT

CLRLIB ENTRY CLASS: SECONDARY SEGMENT: (PRM2)
DESC: RESET MATERIAL PROPERTY DATA BASE SCREEN OPTIONS
SECONDARY ENTRY POINT FOR : LIBINS
CAN BE CALLED BY:
PRTABLE

CLR0UT ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: SAVE DRAFTING DATA BASE
LENGTH: 42 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE
CAN CALL THE FOLLOWING:
GIDEL TRKOFF DZSAVE RETURN

CLRPIC ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: (NOT AVAILABLE)
LENGTH: 142 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE INTSUB DZAST PROCXA INITXY
TABDEL INIT2D INIT3N XYERAS
CAN CALL THE FOLLOWING:
SETWZ SET1 GISUBF GIDEL GIDAE
GISHOW DBDAD DBDRT DBDAC IOBOLF

CLSF.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 23 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FORSYS= YIELD= RETURN
CAN CALL THE FOLLOWING:
ERR.RM MCT.RM

CLSF.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 23 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CLSF.SQ ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 133 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
RSPT.SQ
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
ERR.RM RM.CIO RM.RCLA

CLSV.SG ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 125 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:
GET.SQ PUT.SJ
CAN CALL THE FOLLOWING:
RSPT.SQ RM.CIO

CNCTBD ENTRY CLASS: SECONDARY SEGMENT: (PR2)
DESC: CONNECT NODES CREATED IN DRAFTING
SECONDARY ENTRY POINT FOR : BDSTR
CAN BE CALLED BY:
PRTABLE

CNELEM ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: CONVERSION(1) - CREATE ELEMENT BEAD
LENGTH: 246 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRAWER
CAN CALL THE FOLLOWING:
ICPART CLEAR2 CNELM IOBRSV DWRITE
DBLEFT DBSET

CNELM ENTRY CLASS: MAIN SEGMENT: (M1)
DESC: LOOK AT ATTRIBUTE TYPES
LENGTH: 36 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
BDSTR FIXDAT CNELEM ASUB7 ELNCHK
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CNNEW ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: INITIALIZE DUMMY DRAFTING DATA BASE
LENGTH: 314 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRAWER
CAN CALL THE FOLLOWING:
REQUEST DMGTBD IFATT ISACT IOBRSV
DMINIT RETURN

CNNOBE ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: CONVERSION(1) - CREATE NODE BEAD
LENGTH: 122 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRAWER
CAN CALL THE FOLLOWING:
CLEAR2 GETCOR DMSET IOBRSV

CNSORT ENTRY CLASS: MAIN SEGMENT: (PR12)
DESC: CONVERSION(1) - HASH-SORT NAMES AND ASSOCIATED BEAD ADDRESSES
LENGTH: 70 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNTERM CNTRF
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CNTABL ENTRY CLASS: MAIN SEGMENT: (PR0)
 DESC: CONVERSION(1) - CREATE TABLE
 LENGTH: 362 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MATIN LIBINS
 CAN CALL THE FOLLOWING:
 PUTLIN IDBFND DMSET IDBRVS DWRITE
 DBLEFT IDBLFT

CNTERM ENTRY CLASS: MAIN SEGMENT: (PR12)
 DESC: CONVERSION(1) - TERMINATION
 LENGTH: 762 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRAWFR
 CAN CALL THE FOLLOWING:
 CNTER CNSORT RESTART EOITTI IDBFND
 OMRL00 DWRITE DBLEFT DBONN DBONP
 IDBRIT IDBLFT IDRONN IDBDNP IDBGET
 DBLKUP DBUPT IDBACB DBARR

CNTER ENTRY CLASS: MAIN SEGMENT: (PR12)
 DESC: CONVERSION(1) - SET UP- AND DOWN-POINTERS
 LENGTH: 223 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTERM
 CAN CALL THE FOLLOWING:
 CNSORT IDBFND DBONN DBONP IDBRIT
 IDRONN IDBNAM DBUPT

CNTINT ENTRY CLASS: MAIN SEGMENT: (DE9)
 DESC: CONTOUR - INITIALIZE CONTOUR VALUES
 LENGTH: 61 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 RSETMG GCXMIN GCYMIN GCYMAX

CNTITL ENTRY CLASS: MAIN SEGMENT: (DE9)
 DESC: GET TYPE-IN FOR CONTOUR PLOT TITLE
 LENGTH: 34 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTEDT

CNTIT2 ENTRY CLASS: MAIN SEGMENT: (DE9)
 DESC: PROCESS TYPE-IN FOR CONTOUR PLOT TITLE
 LENGTH: 14 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE

DESC: MAKE TYPE-IN VALUES CONTIGUOUS

LENGTH: 46 LANGUAGE: FTN

SECONDARY ENTRY POINTS:

COMPAS

CAN BE CALLED BY:

MODRW SVIEWP SROTET CHNGP2 GETRAG

ICCPIC ETYPGV RNOFL RNOGRW PTYPE

EDNUM ELRPP EMOVE DYSFPU DYSSTP

ATTRG ATTRNP ERNOLD EATS ESERCH

ASERCH SSAOFF CNTPRE TABXYP TABSCL

TABOM PROFAC

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

COMP10 ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: FTN I/O FOR TEKTRONIX 4010/12/14

LENGTH: 1371 LANGUAGE: COMPASS

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GINIT GERASE GFLUSH GIALRM GCDRAW

GCWORK GCOLIM GIBUTN GCINPC GIDFON

CAN CALL THE FOLLOWING:

SYS= MSG=

CONHUL ENTRY CLASS: MAIN SEGMENT: (M8141)

DESC: CONTOUR - DETERMINE CONVEX HULL OF POINTS TO BE CONTOURED

LENGTH: 155 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

CNTOK

CAN CALL THE FOLLOWING:

POTLIN

COPYEL ENTRY CLASS: MAIN SEGMENT: (S1)

DESC: COPY ONE SEQUENTIAL FILE TO ANOTHER

LENGTH: 43 LANGUAGE: COMPASS

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

FILATT GLCHCK DRAWFR

CAN CALL THE FOLLOWING:

SYS=

CORSHE ENTRY CLASS: MAIN SEGMENT: (M1)

DESC: (NOT AVAILABLE)

LENGTH: 31 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

FIXOAT POWPEN MXYP

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

COS. ENTRY CLASS: SECONDARY SEGMENT: (S0)

DESC: (NOT AVAILABLE)

SECONDARY ENTRY POINT FOR: SINCOS=

CAN BE CALLED BY:

SROTET SETVU GC3DA CNVTOC

CPG ENTRY CLASS: MAIN SEGMENT: (DB0)

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CNTOR ENTRY CLASS: MAIN SEGMENT: (DE9)
DESC: CONTOUR - MAIN CONTOURING MODULE
LENGTH: 160 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
BL1INT BL2INT METAZZ LINESG OBJCTG
SUBJEG SCAN CONHUL TRIORD TMESH3
TMESH2 PUTLIN

CNTPRD ENTRY CLASS: MAIN SEGMENT: (DE1)
DESC: CONTOUR - PUT UP CURRENT CONTOUR PARAMETERS TO BE MODIFIED BY TYP
LENGTH: 54 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT

CNTPRE ENTRY CLASS: MAIN SEGMENT: (DE9)
DESC: CONTOUR - EDIT AND ACCEPT TYPED-IN PARAMETERS
LENGTH: 110 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IDISER ICHKED COMPAC COMPACS

CNVTOC ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: SCALING - CONVERT FROM USER SPACE TO CARTESIAN COORDINATES
LENGTH: 34 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MODRW PTYPE GETCEN GETCOR
CAN CALL THE FOLLOWING:
COS. SIN.

CNVTOU ENTRY CLASS: MAIN SEGMENT: (G13)
DESC: SCALING - CONVERT CARTESIAN COORDINATES TO USERS SPACE
LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOPUT
CAN CALL THE FOLLOWING:
ACOS. ATAN2. SORT.

COMPACS ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: SQUEEZE TYPE-IN VALUES INTO ARRAYS
SECONDARY ENTRY POINT FOR : COMPAC
CAN BE CALLED BY:
SVIEWP CNTPRE ELNCHK TABXYP ICHKED

COMPAC ENTRY CLASS: MAIN SEGMENT: (S1)

DESC: SYSTEM I/O ROUTINE
LENGTH: 253 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
READR RWRITE RWRITER WRITE CLOSE
WRITER
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CRK ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: ERROR RECOVERY COMMAND PARSER
SECONDARY ENTRY POINT FOR : DMP,CRK
CAN BE CALLED BY:
DMP

DACTSN ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: DISPLAY ACTIVE STRUCTURE AND SUBSTRUCTURE NAMES
LENGTH: 71 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
DACTS
CAN BE CALLED BY:
DETABE TABACK
CAN CALL THE FOLLOWING:
TYPNAM IDUSER IDBORT

DACTS ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: PUT UP REST OF STRUCTURE AND SUBSTRUCTURE NAMES
SECONDARY ENTRY POINT FOR : DACTSN
CAN BE CALLED BY:
TABPRO SGOFF

IDARR ENTRY CLASS: SECONDARY SEGMENT: (OB3)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : IDBARR
CAN BE CALLED BY:
CNTERM ECPROC ECHKL

IDATT ENTRY CLASS: SECONDARY SEGMENT: (OB0)
DESC: GET NTH ATTRIBUTE
SECONDARY ENTRY POINT FOR : IDBUPP
CAN BE CALLED BY:
GLSTDB PRINCP EQSTR MATDEF EUPPNT
GETCNT GETOAT PUTATT IDRWEL IDRWAT
GETCEN GETCOR ICKATT IGETCH

IDCHA ENTRY CLASS: MAIN SEGMENT: (DB2)
DESC: CHANGE ATTRIBUTE VALUE IN DATA BASE
LENGTH: 66 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINCP EQSTR BDSTR FIXDAT MATDEF
EUPPNT EATS IDBADB
CAN CALL THE FOLLOWING:
IFATT DBSET IDBTYP IOBSTA IDBCAN

IDCHBD ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: CHECK IF READ IS ALREADY ON THE CHANGE LIST

LENGTH: 126 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DBRITE IDBCAN DBUPT IDBARR
 CAN CALL THE FOLLOWING:
 DMGTBD DMSET IDBTYP IDBLEN IDBGET

DBCHNM ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: CHANGE NAME OF EXISTING BEAD
 LENGTH: 213 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 EATS
 CAN CALL THE FOLLOWING:
 DBRITE DBLEFT DBNAME IDBRIT IDBLFT
 IDBTYP IDBNAM DBLKUP

DBDAC ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET ACTIVE FLAG
 SECONDARY ENTRY POINT FOR : DBRITE
 CAN BE CALLED BY:
 INTSUB CLRPIC IDRWT ACTIVA

DBDAD ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET #IDDAD#
 SECONDARY ENTRY POINT FOR : DBRITE
 CAN BE CALLED BY:
 INTSUB DZRST CLRPIC ICKBYT IDRWT
 DRWACT IDRWSS IDRWST IDRW DELETE
 ACTIVA

DBDEL ENTRY CLASS: MAIN SEGMENT: (DB2)
 DESC: DELETE A BEAD AT A LEVEL AND ALL REFERENCES TO IT
 LENGTH: 106 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRAWFR EQNUM EQPEN
 CAN CALL THE FOLLOWING:
 DBRITE DBLEFT IDBRIT IDBLFT IDBUPN
 IDBUNN IDBTYP IDBUPP IDBONP DBUPT
 DBDNT

DBDLF ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET LEFT ACTIVE POINTER
 SECONDARY ENTRY POINT FOR : DBRITE
 CAN BE CALLED BY:
 MXYP DELETE ACTIVA IDBCAN

DBDNN ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET NUMBER OF DOWN POINTERS
 SECONDARY ENTRY POINT FOR : DBRITE
 CAN BE CALLED BY:
 CNTERM CNTER DBUPT

DBDNP ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET NTH DOWN POINTER

SECONDARY ENTRY POINT FOR : DWRITE
 CAN BE CALLED BY:
 CNTERM CNTRF ELFEPP IOBCAN ODUPT

O6ONT ENTRY CLASS: SECONDARY SEGMENT: (DB2)
 DESC: SET OR REMOVE THE DOWN POINTER OF THE BEAD LISTED
 SECONDARY ENTRY POINT FOR : ODUPT
 CAN BE CALLED BY:
 OOSTR FIXCAT EMERGE PORG ERD
 ERNOLD EADOWN ESERCH DBDEL EADDEL

OPORT ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET RIGHT ACTIVE POINTER
 SECONDARY ENTRY POINT FOR : DWRITE
 CAN BE CALLED BY:
 REACT INTSUB OZRST RESTART CLRPIC
 TABACT DELETE ACTIVA IOBCAN

O6INIT ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: INITIALIZE CREATED DATA BASE
 LENGTH: 404 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 REACT FILATT DRAWFR
 CAN CALL THE FOLLOWING:
 ICCHR DMSET DMGET IFATT IOBRV
 DMINIT RETURN

OBLEFT ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET LEFT POINTER IN DATA BASE
 SECONDARY ENTRY POINT FOR : DWRITE
 CAN BE CALLED BY:
 CNELEM CNTERM CNTABL DBCHNM IOBCAN
 IOBACB DBDEL

OBLEN ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET BEAD LENGTH
 SECONDARY ENTRY POINT FOR : DWRITE
 CAN BE CALLED BY:
 IOBRV IOBCAN

OBLKUP ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: ALLOWS APPLICATION TO DELETE AND ADD BEADS
 LENGTH: 146 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTERM OZRST EQNUM ECPROC EQPEN
 OZSAVE DBCHNM
 CAN CALL THE FOLLOWING:
 DBTYP IOBRIT IOBTYP IOBNAM

O6NAME ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET NAME IN BEAD
 SECONDARY ENTRY POINT FOR : DWRITE
 CAN BE CALLED BY:
 DBCHNM IOBACB

DBRITE	ENTRY CLASS: MAIN	SEGMENT: (DB0)
	DESC: SET RIGHT POINTER IN DATA BASE	
	LENGTH: 356	LANGUAGE: FTN
	SECONDARY ENTRY POINTS:	
	DBLEFT DBUPS DBUPN DBUPP DBONN	
	DBDNP DBTYP DBLEN DBOAO DBSTAT	
	DBNAME DBSET UBDLF DBORT DBDAC	
	CAN BE CALLED BY:	
	CNELEM CINTER CNTABL DBCHNM IOBCAN	
	IOBAOB DRDFL	
	CAN CALL THE FOLLOWING:	
	DMSET DBCHBD IOBUPS IOBTYP IOBOAO	
	IOBSTA	
DBSET	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET NTH LOCATION IN BEAD	
	SECONDARY ENTRY POINT FOR : DBRITE	
	CAN BE CALLED BY:	
	CNELEM IOBCAN DBCHA DBUPT	
DBSTAT	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET START OF ATTRIBUTE LIST	
	SECONDARY ENTRY POINT FOR : DBRITE	
	CAN BE CALLED BY:	
	DBUPT IOBAOB	
DBTGET	ENTRY CLASS: MAIN	SEGMENT: (DB3)
	DESC: GET VALUE IN TABLE	
	LENGTH: 133	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	GETDAT	
	CAN CALL THE FOLLOWING:	
	DMSET DMGET IOBTYP IOBSTA IOBARR	
DBTYP	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET TYPE	
	SECONDARY ENTRY POINT FOR : DBRITE	
	CAN BE CALLED BY:	
	DBLKUP IOBAOB	
DBUPN	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET NUMBER OF UP POINTERS	
	SECONDARY ENTRY POINT FOR : DBRITE	
	CAN BE CALLED BY:	
	DBUPT	
DBUPP	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET NTH UP-POINTER	
	SECONDARY ENTRY POINT FOR : DBRITE	
	CAN BE CALLED BY:	
	IOBCAN DBUPT	
DBUPS	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: SET START OF UP-POINTERS	

SECONDARY ENTRY POINT FOR : DWRITE

CAN BE CALLED BY:

DBUPT ID3AUB

DBUPT ENTRY CLASS: MAIN SEGMENT: (DB2)
DESC: SET OR REMOVE THE UP POINTER OF THE BEAD LISTED
LENGTH: 361 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

DBUNT

CAN BE CALLED BY:

BOSTR FIXDAT CNTERM CNER EMERGE
PORG ELRPP ERO ERNDLO EADOWN
ESERCH OGOEL

CAN CALL THE FOLLOWING:

DBCHSD DBUPS DBUPN DBUPP DBDNN
DBONP DBSTAT DBSET IOBUPS IOBUPN
IDBONP IOBTYP IOBSTA IOBUPP IOBONP
IOBGET IOBCAN

DEINIT1 ENTRY CLASS: MAIN SEGMENT: (M32)

DESC: (NOT AVAILABLE)

LENGTH: 41 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

DRAWFR MYINIT DEINIT PRINT PPINIT

CAN CALL THE FOLLOWING:

GICAT EUIITI GIERR

DEINIT ENTRY CLASS: MAIN SEGMENT: (M32)

DESC: INITIALIZE DISPLAY-AND-EDIT MENUS

LENGTH: 16 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

EXTABLE

CAN CALL THE FOLLOWING:

STARTM DEINIT1

DELETE ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: DEACTIVATE BEAD AND ERASE THE PICTURE FROM THE SCREEN

LENGTH: 127 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

ALLOFF RNOEL EQNUM DELPIC RETAIN
SSAOFF EQPEN SSOFF

CAN CALL THE FOLLOWING:

GIDELY OGDAD DBDLF DBORT IDBDAD
IOBDF ICKACT

DELPIC ENTRY CLASS: MAIN SEGMENT: (DE1)

DESC: DELETE AND DEACTIVATE ALL PICKED BEADS ON A LEVEL

LENGTH: 15 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

OETABLE

CAN CALL THE FOLLOWING:

DELETE MBEAD

DELSF ENTRY CLASS: MAIN SEGMENT: (G12)
 DESC: DELETE INTERTEK SUBFILE
 LENGTH: 60 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MOFRZ
 CAN CALL THE FOLLOWING:
 GIDELT GISHOW

DETABLE ENTRY CLASS: MAIN SEGMENT: (DRIVE)
 DESC: DISPLAY-AND-EDIT SUBROUTINE SWITCH TABLE
 LENGTH: 507 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:

STARTM GLINIT
 CAN CALL THE FOLLOWING:

SWITCHS	IOEDEC	ALLON	ALLSON	ALLOFF
ASUBS	DZRST	ETYPSV	CNTPRD	RNGJEL
RNGDRW	PONPEN	PTYPE	EQNUM	EMERG
EMERGE	DRWATA	DRWATT	DELPIC	EONPO
EONPEN	EDINIT	ECHNIT	ELREPL	ELREPP
RETAIN	RETAIS	EMOVE	EMOVEP	MXYI
MXYP	DYDRDE	DYLOAD	DYMOOE	DYTIMS
DYSFPU	DYSFPR	OYSSTP	OYUNOE	OYDEF
ATLST	ATTPRC	ATTREN	ATTRNG	ATTRNP
LANODE	LFNODE	NOOON	NOOAEI	NOOFEL
ECHOND	ECHONU	ECPROC	ECREAN	ERDOWD
ERDOWU	ERDD	ERDU	ERMOLD	ERNAOD
ERNAOU	EACTPN	EACTP	EADOWN	EAUP
EALLS	EALLD	EALLSS	EATS	EATCH
ENDOWN	ENUP	EPUTDN	EPUTUP	ESERCH
ASERCH	ASEFCHA	SSAOFF	CNTOR	CNTPRE
CNTINT	CNTITL	CNTIT2	GETCNT	PROCXA
PROCYA	REPHY	RSCXY	TABRDR	INITXY
GSLXLY	GSLXGY	GSGXLY	GSGXGY	LSSL0
LSSDH	LSLDH	TABLIN	PROCTIT	TABVAL
TABIND	PROCCHR	TABDEL	EQPEN	EQPENN
STRACT	SSTACT	ELEACT	NODACT	INIT20
INIT3N	CLRPIC	XYERAS	XYRET1	XYRET
SELATT	SELAT1	TABACT	TABACX	TABACY
TABPRC	TABXYP	TABXYM	TABSCX	TABSCY
TABSCL	TABDM	TABXI	TABYI	TABXC
TABYD	TABXN	TABYN	PUTLST	SSOFF
DACTSN	PUTNAM	PUTNMM	EXINIT	MOPU
MOREC	MOCYL	MOSPH	PLINIT	SPS3L
SPS3LC	PUTATT	ACTATT	ATTOFF	FROFAC
REPFA	QTITLE	DRWSS	ONPEN	ONPENE
ONFENN	TABPEN	OZSAVE	EADDEL	

DISPLB ENTRY CLASS: MAIN SEGMENT: (PRM1)
 DESC: DISPLAY GENERIC MATERIAL NAMES
 LENGTH: 64 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABLE

CAN CALL THE FOLLOWING:
 TYPVAL OMGET

DMBOAD ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 46 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMRLBD DMSTGT
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

DMFLSH ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: FLUSH DATA HANDLER FILE
 LENGTH: 140 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 RESTART DMINIT
 CAN CALL THE FOLLOWING:
 DMWRITE OUTBUF RWRITER FCHPRAM FETSTAT
 CLOSE SETFETR CLRFETR

DMFV ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 140 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMGTBD DMRLBD DMSTGT
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

DMGET ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: GET DATA HANDLER BEAD FIELD
 SECONDARY ENTRY POINT FOR : DMSTGT
 CAN BE CALLED BY:
 IGNM DISPL3 LIBIN LIBINS DZRST
 RESTART IGPKM GCGARR GCSSF IGFTR
 IFATT IGATT IDBRIT IDBUPP DBINIT
 DBTGET IOBARR

DMGTBD ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: RESERVE SPACE FOR NEW DATA HANDLER BEAD
 LENGTH: 373 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNNEW RESTART GCRESI DBCHBD IOBSRV
 CAN CALL THE FOLLOWING:
 DMREAD DMWRITE DMFV SYSTEM FCHPRAM

DMINIT ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: INITIALIZE DATA HANDLER FILE
 LENGTH: 365 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 STARTM CNNEW MYINIT GINIT DBINIT
 CAN CALL THE FOLLOWING:
 GOTOER. ITOJ. SYSTEM INBUF OUTBUF
 READR FCHPRAM FETSTAT DMFLSH RFILEB

WRITER SETFETR CLAFETR

OMP ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: ERROR RECOVERY DEBUG DUMP ROUTINE
 LENGTH: 570 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 HOLD
 CAN CALL THE FOLLOWING:
 IBEAUT GETLIN PUTLIN GOTOER. CRAK
 IOCTAL

OMP.CRK ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 LENGTH: 50 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 CRAK
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

DMREAD ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 127 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMGTBD DMRLBD DMSTGT
 CAN CALL THE FOLLOWING:
 INBUF READR FETSTAT

DMRLBD ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: RELEASE DATA HANDLER READ
 LENGTH: 270 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTERM GIBUTN GICLRO IFATT IDBCAN
 CAN CALL THE FOLLOWING:
 DMREAD DMWRITE DMBDAD DMFV SYSTEM
 FCHPRAM SETPRAM

DMSET ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: SET VALUES INTO DATA HANDLER BEAD FIELDS
 SECONDARY ENTRY POINT FOR : DMSTGT
 CAN BE CALLED BY:
 ICPART CNYOJE CNTABL DZRST RESTART
 GCGARR GCSEF OBCHBD IFATT OBRITE
 OBNIT DZSAVE OBTGET IOGARR

DMSTGT ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 606 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 DMSET DMGET
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 GOTOER. PCUMP DMREAD DMWRITE DMBDAD
 DMFV SYSTEM

DMWRITE ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 204 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMGT30 DMRL30 DMSTGT DMFLSH
 CAN CALL THE FOLLOWING:
 OUTBUF RWRITE RWRITER FETSTAT WRITE

DRAWFR ENTRY CLASS: MAIN SEGMENT: (PRO)
 DESC: INITIALIZE DRAFTING PACKAGE
 LENGTH: 151 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABLE
 CAN CALL THE FOLLOWING:
 GRID SETND CNEW CNELEM CNODE
 CNTERM GRNIT INIT2D OEINIT1 COPYFL
 IOBFND OGINIT RETURN DBDEL

DRELN ENTRY CLASS: MAIN SEGMENT: (PRM1)
 DESC: (NOT AVAILABLE)
 LENGTH: 154 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ASUB4
 CAN CALL THE FOLLOWING:
 GETCEN GITEM GUTEXT GUSETP IOINF
 UTORAS IGCHP IBEAUT IOBDDNN IOBORT
 IOBDNP IOBNAM

DRIVER ENTRY CLASS: TRANSFER SEGMENT: (DRIVE)
 DESC: THE EXECUTIVE AND MAIN PROGRAM
 LENGTH: 1005 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 GLOINT MARK EXITT SWITCH ISWTCH
 BLIINT GRFNIT PAGER ERASEN IPICK
 PUTEDT IGPKM IGFV IPPRMT IREAD
 MENNIT GISUBF GCDRAW GCHIGH GCWIDE
 GITEM GIDELT IDISER GISNGL GISTR
 GIPARM GICLRQ GUTEXT GUSETP GISHOW
 QBNTY. STOP. GOTOER. IGFTF IGSON
 IGLNK IGACT IGRUT IGTBL IGPSX
 IGPSY IGOPT

DRWACT ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: REDRAW ALL ACTIVE BEADS ON THIS LEVEL THAT ARE DRAWN
 LENGTH: 352 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 DRWONE DRWARR DRWNOC
 CAN BE CALLED BY:
 MORDRW MOASHK
 CAN CALL THE FOLLOWING:

	IDRWAT	IDRW	GIDELT	IDISER	OBDAO
	IDBDAO	IDBRT	IDBOAC	ICKACT	
DRWARR	ENTRY CLASS: SECONDARY SEGMENT: (M820)				
	DESC: DRAW ALL BEADS IN THE ARRAY IN THE ARGUMENT LIST				
	SECONDARY ENTRY POINT FOR : DRWACT				
	CAN BE CALLED BY:				
	EQUEUP				
DRWATA	ENTRY CLASS: MAIN SEGMENT: (DE1)				
	DESC: DRAW THE ATTRIBUTE FOR ALL BEADS ON THIS LEVEL THAT ARE ACTIVE				
	LENGTH: 33 LANGUAGE: FTN				
	HAS NO SECONDARY ENTRY POINTS				
	CAN BE CALLED BY:				
	DETABLE				
	CAN CALL THE FOLLOWING:				
	IDRWAT IDBRT IDBOAC				
DRWATT	ENTRY CLASS: MAIN SEGMENT: (DE1)				
	DESC: DRAW THE ATTRIBUTE FOR EACH BEAD PICKED				
	LENGTH: 21 LANGUAGE: FTN				
	HAS NO SECONDARY ENTRY POINTS				
	CAN BE CALLED BY:				
	DETABLE				
	CAN CALL THE FOLLOWING:				
	IDRWAT MBEAD				
DRWNOG	ENTRY CLASS: SECONDARY SEGMENT: (M820)				
	DESC: REDRAW ALL ACTIVE BEADS WITHOUT ERASING THE ORIGINAL VERSION				
	SECONDARY ENTRY POINT FOR : DRWACT				
	CAN BE CALLED BY:				
	DYDRDE				
DRWONE	ENTRY CLASS: SECONDARY SEGMENT: (M820)				
	DESC: DRAW THE ONE BEAD IN THE ARGUMENT LIST				
	SECONDARY ENTRY POINT FOR : DRWACT				
	CAN BE CALLED BY:				
	MOISHK	ELREPP	MXYP	EUPPNT	ERD
	ERNLD	EADOWN	EATS		
DRWSS	ENTRY CLASS: MAIN SEGMENT: (M821)				
	DESC: DRAW ALL ACTIVE SUBSTRUCTURES				
	LENGTH: 26 LANGUAGE: FTN				
	HAS NO SECONDARY ENTRY POINTS				
	CAN BE CALLED BY:				
	DETABLE ASUB4				
	CAN CALL THE FOLLOWING:				
	IDRW IDBRT				
DXIT.SQ	ENTRY CLASS: SECONDARY SEGMENT: (SD)				
	DESC: (NOT AVAILABLE)				
	SECONDARY ENTRY POINT FOR : GET.SQ				
	CAN BE CALLED BY:				
	SKFL.SQ				
DYDEF	ENTRY CLASS: SECONDARY SEGMENT: (DE3)				

DESC: SET DEFORMED PLOT MODE
 SECONDARY ENTRY POINT FOR : DYUNDE
 CAN BE CALLED BY:
 DETABLE

OYDROE ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: DRAW DEFORMED PLOT FOR ALL ACTIVE BEADS
 LENGTH: 23 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 DRWNOG

OYLOAD ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: PUT UP #LOAD STEP# TYPE-IN FOR DEFORMED PLOTS
 LENGTH: 52 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 DYMODE DYTMS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTEOT IBEAUT

OYMODE ENTRY CLASS: SECONDARY SEGMENT: (DE3)
 DESC: PUT UP #MODE SHAPE# TYPE-IN FOR DEFORMED PLOTS
 SECONDARY ENTRY POINT FOR : OYLOAD
 CAN BE CALLED BY:
 DETABLE

OYSFPR ENTRY CLASS: SECONDARY SEGMENT: (DE3)
 DESC: CRACK SCALE, FACTOR, OR TIME-SLICE TYPE-IN
 SECONDARY ENTRY POINT FOR : OYSFPU
 CAN BE CALLED BY:
 DETABLE

OYSFPU ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: PUT UP SCALE FACTOR TYPE-IN
 LENGTH: 71 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 OYSFPR
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTEOT IDISER IBEAUT ICHKED COMPAC

OYSSTP ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: PROCESS STEP FOR DEFORMED MODE
 LENGTH: 53 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ICKSL PUTEOT IDISER IBEAUT ICHKED
 COMPAC

DYTMS ENTRY CLASS: SECONDARY SEGMENT: (DE3)
 DESC: PUT UP #TIME STEP# TYPE-IN FOR DEFORMED PLOTS
 SECONDARY ENTRY POINT FOR : DYLOAD
 CAN BE CALLED BY:
 DETABLE

DYUNDE ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: SET UNDEFORMED PLOT MODE
 LENGTH: 25 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 DYDEF
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ICKSL

DZRST ENTRY CLASS: MAIN SEGMENT: (DE1)
 DESC: RESTORE CHANGED BEADS TO ORIGINAL STATE
 LENGTH: 145 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 CLPIC DMSET DMGET DBDAD DBORT
 IDBGET DBLKUP

DZSAVE ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: SAVE THE CHANGED DATA BASE
 LENGTH: 22 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE CLROUT
 CAN CALL THE FOLLOWING:
 DMSET DBLKUP

EACTPN ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: ACTIVATE A BEAD FROM A PICK ON A DISPLAYED ITEM
 LENGTH: 26 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 EACTP
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTNM ESLOT MBEAD

EACTP ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: CHECK IF THERE ARE MORE NAMES FOR ACTIVATION
 SECONDARY ENTRY POINT FOR : EACTPN
 CAN BE CALLED BY:
 DETABLE

EADDEL ENTRY CLASS: MAIN SEGMENT: (DB2)
 DESC: ADD ALL ACTIVE ELEMENTS TO SUBSTRUCTURE
 LENGTH: 25 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:

DETABLE
 CAN CALL THE FOLLOWING:
 IOBORT GRONT

EADOWN ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: ADD DOWN-POINTERS FROM A CROSSHAIR PICK OF A DISPLAYED ITEM
 LENGTH: 100 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 EAUP
 CAN BE CALLED BY:
 DETABLE EADOWN
 CAN CALL THE FOLLOWING:
 ORWONE IOBROAD MBEAD ICKACT OBUPT
 OBDNT

EALLO ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: ACTIVATE ALL BEADS FOR THIS DATA BASE LEVEL
 SECONDARY ENTRY POINT FOR : EALLS
 CAN BE CALLED BY:
 DETABLE

EALLS ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: ACTIVATE ALL BEADS IN THE ACTIVE SUBSTRUCTURE
 SECONDARY ENTRY POINT FOR : EALLS
 CAN BE CALLED BY:
 DETABLE

EALLS ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: ACTIVATE ALL BEADS ON SCREEN
 LENGTH: 41 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 EALLO EALLSS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ESLOT IOBLFT IOBOLF

EATCH ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: DO ACTUAL CHANGING OF ATTRIBUTES
 SECONDARY ENTRY POINT FOR : EATS
 CAN BE CALLED BY:
 DETABLE

EATF ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: START ATTRIBUTE CHANGES BY TYPE-IN
 LENGTH: 117 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 EATS
 CAN CALL THE FOLLOWING:
 PUTEJT PUTATT PUTAT IBEAUT IOBNAM

EATS ENTRY CLASS: MAIN SEGMENT: (DE7)
 DESC: PROCESS FIRST TABLE OF CHANGED ATTRIBUTES
 LENGTH: 304 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:

EATCH
 CAN BE CALLED BY:
 DETABLE

CAN CALL THE FOLLOWING:
 IEGPCD EATF ELNCHK ECHKL IENEXT
 IENIT PUTEOT PUTAT DRWONE EQUEUP
 IOISER ICHKED COMPAC IDBDAC DBCHNM
 ICKAGT DBCHA

EAUP ENTRY CLASS: SECONDARY SEGMENT: (DE7)
 DESC: ADD UP-POINTERS FROM A CROSSHAIR PICK OF A DISPLAYED ITEM
 SECONDARY ENTRY POINT FOR : EADOWN
 CAN BE CALLED BY:
 DETABLE ENDOWN

ECHKL ENTRY CLASS: MAIN SEGMENT: (M1)
 DESC: CHECK IF LIMITS OF DISPLAY ARE MODIFIED
 LENGTH: 56 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 FIXDAT EUPPNT EATS
 CAN CALL THE FOLLOWING:
 IOBRIT IOBARR OBARR

ECHNIT ENTRY CLASS: SECONDARY SEGMENT: (DE2)
 DESC: ELIMINATE THE ACTIVE FOR EDITING LIST
 SECONDARY ENTRY POINT FOR : EDINIT
 CAN BE CALLED BY:
 DETABLE

ECHOND ENTRY CLASS: MAIN SEGMENT: (DE5)
 DESC: START CHANGE DOWN POINTERS MODE
 LENGTH: 27 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 ECHONU
 CAN BE CALLED BY:
 DETABLE ERDOWN
 CAN CALL THE FOLLOWING:
 IOISER

ECHONU ENTRY CLASS: SECONDARY SEGMENT: (DE5)
 DESC: START CHANGE UP-POINTERS MODE
 SECONDARY ENTRY POINT FOR : ECHOND
 CAN BE CALLED BY:
 DETABLE ERDOWN

ECPROC ENTRY CLASS: MAIN SEGMENT: (DE5)
 DESC: PROCESS NAME TYPE-IN TO CREATE A NEW BEAD
 LENGTH: 64 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 IEGPCD DULKUP ACTIVA IOBAOB IOBARR
 OBARR

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ECREAN  ENTRY CLASS: MAIN          SEGMENT: (DE5)
        DESC: INITIATE NAME TYPE-IN FOR CREATION
        LENGTH: 54    LANGUAGE: FTN
        HAS NO SECONDARY ENTRY POINTS
        CAN BE CALLED BY:
            DETABLE
        CAN CALL THE FOLLOWING:
            PUTEOT  ICEAUT  IDGLFT  IOBNAM
-----
EDINIT  ENTRY CLASS: MAIN          SEGMENT: (DE2)
        DESC: INITIALIZE EDITING
        LENGTH: 20    LANGUAGE: FTN
        SECONDARY ENTRY POINTS:
            ECHNIT
        CAN BE CALLED BY:
            DETABLE
        CAN CALL THE FOLLOWING:
            IOBTYP
-----
EDITI   ENTRY CLASS: MAIN          SEGMENT: (S0)
        DESC: INITIALIZE #EDIT# COMMON BLOCK
        LENGTH: 27    LANGUAGE: FTN
        HAS NO SECONDARY ENTRY POINTS
        CAN BE CALLED BY:
            GLINIT  CNTRM  GRFNIT  DEINIT1
        THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
-----
ELEACT  ENTRY CLASS: SECONDARY     SEGMENT: (M0)
        DESC: SET ELEMENTS AS THE LEVEL TO WORK ON
        SECONDARY ENTRY POINT FOR : STRACT
        CAN BE CALLED BY:
            DETABLE  PRTABLE  PRINCP  EQSTR
-----
ELNAM   ENTRY CLASS: MAIN          SEGMENT: (PRM1)
        DESC: TYPE ELEMENT NAMES
        LENGTH: 52    LANGUAGE: FTN
        HAS NO SECONDARY ENTRY POINTS
        CAN BE CALLED BY:
            PRTABLE
        CAN CALL THE FOLLOWING:
            TYPVAL
-----
ELNCHK  ENTRY CLASS: MAIN          SEGMENT: (M1)
        DESC: CHECK IF NODE IS OUTSIDE DISPLAY SPACE LIMIT
        LENGTH: 107   LANGUAGE: FTN
        HAS NO SECONDARY ENTRY POINTS
        CAN BE CALLED BY:
            EATS  ESEARCH  ASERCH  SSAOFF
        CAN CALL THE FOLLOWING:
            CNELM  COMPAGS
-----
ELREPC  ENTRY CLASS: SECONDARY     SEGMENT: (DE2)
        DESC: PROCESS NEXT NODAL REPLACEMENT
        SECONDARY ENTRY POINT FOR : ELREPL
        CAN BE CALLED BY:
            ELRCP
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ELREPL ENTRY CLASS: MAIN SEGMENT: (DE2)
 DESC: PROCESS TYPE-IN FOR NODAL REPLACEMENT
 LENGTH: 117 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 ELREPC
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 PUTEDT IBEAUT IOBONN IOBONP IOBNAM

ELREPP ENTRY CLASS: MAIN SEGMENT: (DE2)
 DESC: REPLACE NODES BY TYPED-IN VALUES
 LENGTH: 137 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ICKRNG ELREPC PUTEDT DRWONE IOISER
 IBEAUT ICHKED COMPAC OBNP IOBONP
 DBUPT

EMERGE ENTRY CLASS: MAIN SEGMENT: (DE1)
 DESC: PROCESS DOWN-POINTERS IN A MERGE
 LENGTH: 43 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE EMERG
 CAN CALL THE FOLLOWING:
 IOBONN IOBONP MBEAD DBUPT DBONT

EMERG ENTRY CLASS: MAIN SEGMENT: (DE1)
 DESC: CHECK FOR MORE NAMES IN A MERGE BY A NAME MODE
 LENGTH: 16 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 EMERGE PUTNM

EMOVEP ENTRY CLASS: SECONDARY SEGMENT: (DE2)
 DESC: ENTRY TO PROCESS THE MOVE TYPE-IN
 SECONDARY ENTRY POINT FOR : EMOVE
 CAN BE CALLED BY:
 DETABLE

EMOVE ENTRY CLASS: MAIN SEGMENT: (DE2)
 DESC: PUT UP CENTROID FOR NODE, ELEMENT, OR SUBSTRUCTURE
 LENGTH: 106 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 EMOVEP
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 MXYTP PUTEDT GETCEN IOISER IBEAUT
 ICHECKED COMPAC

ENDOWN ENTRY CLASS: MAIN SEGMENT: (DE7)
DESC: ADD DOWN-POINTERS BY NAME
LENGTH: 30 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ENUP
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
EADON EADUP EPUTO

ENUP ENTRY CLASS: SECONDARY SEGMENT: (DE7)
DESC: ADD UP-POINTERS BY NAME
SECONDARY ENTRY POINT FOR : ENDOWN
CAN BE CALLED BY:
DETABLE

EONPD ENTRY CLASS: MAIN SEGMENT: (DE1)
DESC: ACTIVATE CROSSHAIRS FOR NEXT LEVEL DOWN IN DATA BASE
LENGTH: 10 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ONPEN

EONPEN ENTRY CLASS: MAIN SEGMENT: (DE1)
DESC: TURN ON CROSSHAIRS IN EDITING
LENGTH: 11 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ONPEN

EPUTDN ENTRY CLASS: MAIN SEGMENT: (DE7)
DESC: DISPLAY NAMES OF 1ST SET OF DOWN-POINTERS
LENGTH: 156 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EPUTO EPUTUP
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
TYPNAM IUISER IDORIT IOBUPN IOBONN
IOBUPP IOBONP

EPUTO ENTRY CLASS: SECONDARY SEGMENT: (DE7)
DESC: DISPLAY REST OF DOWN-POINTERS
SECONDARY ENTRY POINT FOR : EPUTDN
CAN BE CALLED BY:
ENDOWN

EPUTUP ENTRY CLASS: SECONDARY SEGMENT: (DE7)
DESC: DISPLAY NAMES OF UP-POINTERS
SECONDARY ENTRY POINT FOR : EPUTDN
CAN BE CALLED BY:

DETABLE

EQNUM	ENTRY CLASS: MAIN	SEGMENT: (OE1)
	DESC: DELETE BEADS BY NUMBER	
	LENGTH: 127	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	
	ICKRNG	PUTEDT PUTLS EQUEUP IOISER
	DELETE	ICKED COMPAC IDBRIT DBLKUP
	DBDEL	
EQPEN	ENTRY CLASS: SECONDARY	SEGMENT: (M0)
	DESC: DELETE BEADS BY NAME	
	SECONDARY ENTRY POINT FOR : EQPEN	
	CAN BE CALLED BY:	
	DETABLE	
EQPEN	ENTRY CLASS: MAIN	SEGMENT: (M0)
	DESC: DELETE PICKED BEADS	
	LENGTH: 60	LANGUAGE: FTN
	SECONDARY ENTRY POINTS:	
	EQPEN	
	CAN BE CALLED BY:	
	DETABLE PRTABLE	
	CAN CALL THE FOLLOWING:	
	PUTNM	EQUEUP DELETE MBEAD DBLKUP
	DBDEL	
EOSTR	ENTRY CLASS: MAIN	SEGMENT: (PP)
	DESC: CALCULATE EFFECTIVE STRESSES	
	LENGTH: 151	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	PPTABLE	
	CAN CALL THE FOLLOWING:	
	ELEACT	SORT. ISACT DBATT NEXTIN
	NEXTB	OBCHA
EQUEUP	ENTRY CLASS: MAIN	SEGMENT: (M820)
	DESC: SAVES THE UP-POINTERS FOR A BEAD	
	LENGTH: 122	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	EQNUM	MXYP EUPPNT EATS EQPEN
	CAN CALL THE FOLLOWING:	
	DRWARR	IDBUPN IOBDAO IOBUPP ICKACT
ERASEM	ENTRY CLASS: MAIN	SEGMENT: (G13)
	DESC: ERASE AND REDRAW	
	LENGTH: 17	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	MORCNT	MOZCRS MOZPLS MOSPLT MOSOS
	MOBOTH	

CAN CALL THE FOLLOWING:
GCDRAW GIDFON

ERASEN ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: ERASE SCREEN AND NO REDRAW
SECONDARY ENTRY POINT FOR : ERASER
CAN BE CALLED BY:
DRIVER GLTABLE MORDRW PAGER IPICK
GLTOP

ERASER ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: ERASE SCREEN AND REDRAW ONLY MINIMAL DAE S
LENGTH: 122 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERASEN
CAN BE CALLED BY:
STARTM GLTABLE PAGER IPICK
CAN CALL THE FOLLOWING:
TYPNAM TYPVAL PUTEDT SELATT SELATC1
SELAT1 GERASE GCDRAW GIDELT

ERDD ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: SAME AS #ERDOWN# EXCEPT REMOVE IS FOR DISPLAYED ITEM
SECONDARY ENTRY POINT FOR : ERDOWD
CAN BE CALLED BY:
DETABLE

ERDOWD ENTRY CLASS: MAIN SEGMENT: (DE5)
DESC: SET PARAMETERS FOR REMOVAL OF DOWN-POINTERS
LENGTH: 32 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERDOWU ERDD ERDU
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ERD ERDOWN

ERDOWN ENTRY CLASS: MAIN SEGMENT: (DE5)
DESC: PUT UP FIRST GROUP OF DOWN-POINTERS NAMES
LENGTH: 124 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERDOW
CAN BE CALLED BY:
ERDOWD
CAN CALL THE FOLLOWING:
ECHOVD ECHONU TYPNAM IOBUPN IOBONN
IOBUPP IOBONP

ERDOWU ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: SAME AS #ERDOWN# EXCEPT REMOVE IS FOR UP-POINTERS
SECONDARY ENTRY POINT FOR : ERDOWD
CAN BE CALLED BY:
DETABLE

ERDOW ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: PUT UP REST OF DOWN-POINTERS NAMES

SECONDARY ENTRY POINT FOR : ERDOWN
CAN BE CALLED BY:

ERD

ERDU ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: SAME AS #ERDOWN# EXCEPT REMOVE IS FOR DISPLAYED ITEMS UP-POINTERS
SECONDARY ENTRY POINT FOR : ERDOWD
CAN BE CALLED BY:
DETABLE

ERD ENTRY CLASS: MAIN SEGMENT: (DE5)
DESC: ACTUALLY REMOVE UP- AND DOWN- POINTER
LENGTH: 113 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

FROOWD

CAN CALL THE FOLLOWING:

ERDOW DRWONE ID3DAD MBEAD ICKACT
DBUPT DBONT

ERNAOD ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: ADD DOWN POINTERS BY NUMBER
SECONDARY ENTRY POINT FOR : ERNDLD
CAN BE CALLED BY:
DETABLE

ERNAODU ENTRY CLASS: SECONDARY SEGMENT: (DE5)
DESC: ADD UP-POINTERS BY NUMBER
SECONDARY ENTRY POINT FOR : ERNDLD
CAN BE CALLED BY:
DETABLE

ERNOLD ENTRY CLASS: MAIN SEGMENT: (DE5)
DESC: DELETE DOWN-POINTERS BY NUMBER
LENGTH: 207 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERNAOD ERNAODU
CAN BE CALLED BY:
DETABLE

CAN CALL THE FOLLOWING:

ICKRNG PUTEOT PUTLS DRWONE IDISER
ICKED COMPAC IDBRIT ID3DAD ICKACT
DBUPT DBONT

ERR.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 404 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

CLSF.FO CLSV.FO GET.FO JMPS.RM PUT.FO
REW.FO SKFL.FO MEMC.RM OPEN.FO OPES.FO
CLSF.RM OPEN.SQ OPEN.RM OSUB.RM OPEX.SQ
GET.SQ PUT.SQ REW.SQ WEOX.SQ CLSF.SQ
CLSF.RM SKFL.SQ RLEQ.RM

CAN CALL THE FOLLOWING:

RM.CIO RM.RLLA SYS= MSG=

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ESERCH  ENTRY CLASS: MAIN          SEGMENT: (DE7)
DESC: SEARCH ALL ELEMENTS BY ATTRIBUTE RANGE
LENGTH: 101  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DFTABLE
CAN CALL THE FOLLOWING:
ELACKN  PUTBOT  PUTAT  IDISER  ICHKED
COMPAC  IDBUT  OBUPT  DBDNT  ICKATT
-----
ESLOT  ENTRY CLASS: MAIN          SEGMENT: (G12)
DESC: ACTIVATE PART OF LEVEL FOR EDITING
LENGTH: 04  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ETYPSV  FACTPN  EALLS
CAN CALL THE FOLLOWING:
IDISFR
-----
ETYPSV  ENTRY CLASS: MAIN          SEGMENT: (DE1)
DESC: ACTIVATE ALL NODE OR ELEMENT NUMBERS TYPED-IN
LENGTH: 66  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DFTABLE
CAN CALL THE FOLLOWING:
ICKNG  PUTBOT  PUTLS  IDISER  ESLOT
ICKED  COMPAC
-----
EUPPNT  ENTRY CLASS: MAIN          SEGMENT: (DE2)
DESC: DO DATA BASE UPDATE FOR MOVED POINT
LENGTH: 100  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MXYE
CAN CALL THE FOLLOWING:
ECHKL  DEWNE  EQUUP  DBATT  DBCHA
-----
EXECC  ENTRY CLASS: MAIN          SEGMENT: (EX)
DESC: CALL A PROCEDURE IN FILE PROAIDS
LENGTH: 225  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:
EXSTAR  EXSTOP  UNPACK  IYIELD1  IYIELD2
IYIELDS
-----
EXEC  ENTRY CLASS: MAIN          SEGMENT: (EX)
DESC: CONSTRUCT A CALL TO A PROCEDURE
LENGTH: 25  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXTABLE
CAN CALL THE FOLLOWING:
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EXTABLE  ENTRY CLASS: MAIN          SEGMENT:  (DRIVE)
DESC: (NOT AVAILABLE)
LENGTH:  27    LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    STARTM  DBINIT
CAN CALL THE FOLLOWING:
    SWITCHS  IEXEC  EXEC      FILATT  DEINIT
    PPRINT  PPRINT
-----
FCHPRAM  ENTRY CLASS: MAIN          SEGMENT:  (DB0)
DESC: (NOT AVAILABLE)
LENGTH:  5    LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    DMFLSH  DMFLSH  DMFLSH  DMINIT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
-----
FECMSK=  ENTRY CLASS: MAIN          SEGMENT:  (S0)
DESC: INITIALIZE CONSTANTS.
LENGTH:  41    LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
-----
FETSTAT  ENTRY CLASS: MAIN          SEGMENT:  (DB0)
DESC: (NOT AVAILABLE)
LENGTH:  13    LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    DMREAD  DMWRITE  DMFLSH  DMINIT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
-----
FILATT   ENTRY CLASS: MAIN          SEGMENT:  (FX)
DESC: ATTACH THE DATA BASE FILE AND INITIALIZE IT FOR D-AND-E
LENGTH:  150   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    EXTABLE
CAN CALL THE FOLLOWING:
    FILNAM  DBINIT  PAGER  IDISER  ICCHR
    COPYFL  IFFUT  REQUEST  DBINIT  RETURN
-----
FILNAM   ENTRY CLASS: MAIN          SEGMENT:  (MEN1)
DESC: SET UP FILE NAE FOR DATA BASE FILE
LENGTH:  43    LANGUAGE: FTN
SECONDARY ENTRY POINTS:
    GLFILN
CAN BE CALLED BY:
    FILATT
CAN CALL THE FOLLOWING:
    PUTDT
-----
FIXDAT   ENTRY CLASS: MAIN          SEGMENT:  (PR2)
DESC: FIX DRAFTING ENDPOINT
LENGTH:  206   LANGUAGE: FTN
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HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

PRTABLE

CAN CALL THE FOLLOWING:

SETLN	SFTND	IDRNXT	CORSHF	RASTOU
GIFETS	CNELM	ECHKL	IDRWAT	IDRW
GITRAK	ACTIVA	DBCHA	DBUPT	DBONT

FORSYS= ENTRY CLASS: MAIN SEGMENT: (S0)

DESC: FORTRAN OBJECT LIBRARY UTILITIES.

LENGTH: 602 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

EXIT STOP. ABNORM. AB1. SYSEND.
SYSE3. SYSFRR.

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

CAN CALL THE FOLLOWING:

CLSF.RM	OPEN.SQ	OPEN.RM	CBD.	BFN.
GET.Z	PUT.SQ	SKFL.SQ	SYS=	MSG=

FORUTL= ENTRY CLASS: MAIN SEGMENT: (S0)

DESC: FOR MISC. UTILITIES.

LENGTH: 16 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

CBD. BFN.

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

FRONTVU ENTRY CLASS: MAIN SEGMENT: (GL3)

DESC: MOD PICTURE - SET X-Y PLANE

LENGTH: 13 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GLTABLE

CAN CALL THE FOLLOWING:

MOKJRW SETVU

FSU.SQ ENTRY CLASS: MAIN SEGMENT: (S0)

DESC: (NOT AVAILABLE)

LENGTH: 106 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

RMU0.SQ RMU2.SQ

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

CAN CALL THE FOLLOWING:

GXIT.SQ GRTJ.SQ AMAC.SQ MOVE.RM

GCCHMM ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: INTERTEK - CHECK PICKED POINT WITHIN AREA

LENGTH: 71 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GCDRIT

CAN CALL THE FOLLOWING:

GCGMM GCGONE GCGLID

GCC ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: INTERTEK - DETERMINE LINE VISIBILITY

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LENGTH:      30      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRAW
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCDLIM ENTRY CLASS: MAIN          SEGMENT: (G0)
DESC: INTERTEK - RETRIEVE SCALE, WINDOW, AND CLIP LIMITS
LENGTH:     102     LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GOSTOP
CAN BE CALLED BY:
GIFIS  GCDRAW  GITRAK
CAN CALL THE FOLLOWING:
COMPID  GCGMM  GCGTUB  GCGET

GCDRAW ENTRY CLASS: MAIN          SEGMENT: (G0)
DESC: INTERTEK - CONTROL DISPLAY FILE OR ITEM INTERPRETATION
LENGTH:     255     LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER  MOZERS  LIBINS  MXYI  PAGER
ERASER  GITEM  IDISER  GIBUTN  GISHOW
GIDUP   GIOFON  ERASEM  GIXTND
CAN CALL THE FOLLOWING:
COMPID  GCGYP  GCGSF  GCDSF  GCUNPK
GCDRIT  GCHOK  GCCLIM  GCSTUB

GCDRIT ENTRY CLASS: MAIN          SEGMENT: (G0)
DESC: INTERTEK - INTERPRET ITEM
LENGTH:     64      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRAW  GCGSF
CAN CALL THE FOLLOWING:
GRCAT  GRCAT  GCCHMM  GCFILL  GCHORK

GCDSF ENTRY CLASS: MAIN          SEGMENT: (G0)
DESC: INTERTEK - INTERPRET SUBFILE
LENGTH:     57      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRAW
CAN CALL THE FOLLOWING:
GCDRIT  GRCAT  GCUNPC  GCDRIT

GCFILL ENTRY CLASS: MAIN          SEGMENT: (G0)
DESC: INTERTEK - RETRIEVE DISPLAY INSTRUCTIONS FROM ITEM
LENGTH:     106     LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRIT  GIDUP
CAN CALL THE FOLLOWING:
GCGARR  GCGLEN  GCGONE  GCGLID

GCGARR ENTRY CLASS: MAIN          SEGMENT: (G0)

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DESC: INTERTEK - RETRIEVE AN ARRAY FROM A BEAD
LENGTH: 46 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCSARR
CAN BE CALLED BY:
GCGMM GCFILL GIBUTN GISNGL GIDUP
CAN CALL THE FOLLOWING:
DMSET DMGET

GCGETW ENTRY CLASS: SECONDARY SEGMENT: (SD)
DESC: INTERTEK - RETRIEVE A BIT STRING FROM A WORD IN #IBUF#
SECONDARY ENTRY POINT FOR : GCGET
CAN BE CALLED BY:
GCUPXY GULIN GUTEXT

GCGET ENTRY CLASS: MAIN SEGMENT: (SD)
DESC: INTERTEK - RETRIEVE A BIT STRING FROM A WORD
LENGTH: 16 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
GCGETW
CAN BE CALLED BY:
GCGMM GCSSF GCUCAT GCUNPK GCHORK
GCDLIM GCUNPK GIBUTN
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCGLEN ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - GET BEAD LENGTH
SECONDARY ENTRY POINT FOR : GCSSF
CAN BE CALLED BY:
GCFILL GISNGL GIDUP

GCGLFT ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - GET A LEFT POINTER
SECONDARY ENTRY POINT FOR : GCSSF
CAN BE CALLED BY:
GITEM GIDELT GIDUP

GCGLID ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - GET LENGTH OF ID FROM ITEM
SECONDARY ENTRY POINT FOR : GCSSF
CAN BE CALLED BY:
GCCHMM GCFILL GIDUP

GCGMM ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - RETRIEVE ITEM AREA
LENGTH: 121 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GIZOOM GCCHMM GCDLIM
CAN CALL THE FOLLOWING:
GCGARR GCGTYP GCGET

GCGONE ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - GET A FULL WORD FROM ITEM
SECONDARY ENTRY POINT FOR : GCSSF
CAN BE CALLED BY:

	GCUCAT	GCCPMM	GCFILL	GIBUTN	GISNGL
	GICLRO	GIDUP	GIXTND		
GCGRIT	ENTRY CLASS: SECONDARY SEGMENT: (G0)				
	DESC: INTERTEK - GET A RIGHT POINTER				
	SECONDARY ENTRY POINT FOR : GCSSF				
	CAN BE CALLED BY:				
	GCUSE	GITEM	GIDELT	GIDUP	
GCGSF	ENTRY CLASS: SECONDARY SEGMENT: (G0)				
	DESC: (NOT AVAILABLE)				
	SECONDARY ENTRY POINT FOR : GCSSF				
	CAN BE CALLED BY:				
	GCDRAW	GITEM	GIDUP	GIXTND	
GCGTUB	ENTRY CLASS: SECONDARY SEGMENT: (G0)				
	DESC: (NOT AVAILABLE)				
	SECONDARY ENTRY POINT FOR : GCGTYP				
	CAN BE CALLED BY:				
	GCOLIM				
GCGTYP	ENTRY CLASS: MAIN SEGMENT: (G0)				
	DESC: INTERTEK - RETURN ENTITY TYPE				
	LENGTH:	33	LANGUAGE:	FTN	
	SECONDARY ENTRY POINTS:				
	GCGTUB				
	CAN BE CALLED BY:				
	GIZOOM	GCGMM	GCSSF	GCDRAW	GITEM
	GIDELT	GITRAK	GIDAE	GISHOW	GIDUP
	GIXTND				
	THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS				
GCHIGH	ENTRY CLASS: MAIN SEGMENT: (G0)				
	DESC: INTERTEK - RETURN CHARACTER HEIGHT				
	LENGTH:	102	LANGUAGE:	FTN	
	SECONDARY ENTRY POINTS:				
	GCWIDE				
	GCXMIN	GCYMIN	GCYMAX		
	CAN BE CALLED BY:				
	DRIVER	PUPLOT	GLTOP	MENNIT	
	THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS				
GCINPC	ENTRY CLASS: MAIN SEGMENT: (G11)				
	DESC: (NOT AVAILABLE)				
	LENGTH:	36	LANGUAGE:	FTN	
	HAS NO SECONDARY ENTRY POINTS				
	CAN BE CALLED BY:				
	GIBUTN GITRAK				
	CAN CALL THE FOLLOWING:				
	COMPID				
GCHAT	ENTRY CLASS: MAIN SEGMENT: (G13)				
	DESC: (NOT AVAILABLE)				
	LENGTH:	67	LANGUAGE:	FTN	
	HAS NO SECONDARY ENTRY POINTS				
	CAN BE CALLED BY:				
	SROTET ARROW				

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCPKDS ENTRY CLASS: MAIN SEGMENT: (G0)
DESC: INTERTEK - PUT A NEW SUBFILE OR DAE INTO ENTITY
LENGTH: 30 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
 GIDELT GISHOW
CAN CALL THE FOLLOWING:
 GCSETI

GCRCAT ENTRY CLASS: MAIN SEGMENT: (G0)
DESC: INTERTEK - RETRIEVE CATEGORY INTERPRETATION
LENGTH: 22 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
 GCOSF GCD:IT GIBUTN
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCRESI ENTRY CLASS: MAIN SEGMENT: (G0)
DESC: INTERTEK - RESERVE SPACE FOR AN ENTITY
LENGTH: 65 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
 GISUBF GITEM GIBUTN GIDAE GIDUP
 GIXTND
CAN CALL THE FOLLOWING:
 GIERR DMGTBD

GCSARR ENTRY CLASS: SECONDARY SEGMENT: (G0)
DESC: INTERTEK - SET AN ARRAY INTO A BEAD
SECONDARY ENTRY POINT FOR : GCGARR
CAN BE CALLED BY:
 GITEM GIBUTN GIDUP GIXTND

GCSETI ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: INTERTEK - SET A BIT STRING INTO A WORD
SECONDARY ENTRY POINT FOR : GCSET
CAN BE CALLED BY:
 GIASID GCSSF GITEM GCUPSF GCPKDS
 GICAT

GCSETH ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: INTERTEK - SET AN ENTIRE WORD INTO #IBUF#
SECONDARY ENTRY POINT FOR : GCSET
CAN BE CALLED BY:
 GCUPXY GUSETP

GCSET ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: INTERTEK - SET A BIT STRING INTO A WORD IN #IBUF#
LENGTH: 37 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
 GCSETH GCSETI
CAN BE CALLED BY:
 GULIN GUTEXT GUSETP
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCSLFT ENTRY CLASS: SECONDARY SEGMENT: (G0)
 DESC: INTERTEK - SET LEFT POINTER
 SECONDARY ENTRY POINT FOR : GCSSF
 CAN BE CALLED BY:
 GITEM GIDFLT GIDUP

GCSONE ENTRY CLASS: SECONDARY SEGMENT: (G0)
 DESC: INTERTEK - SET A FULL WORD FROM ITEM
 SECONDARY ENTRY POINT FOR : GCSSF
 CAN BE CALLED BY:
 GIDIN GIXIND

GCSRIT ENTRY CLASS: SECONDARY SEGMENT: (G0)
 DESC: INTERTEK - SET A RIGHT POINTER
 SECONDARY ENTRY POINT FOR : GCSSF
 CAN BE CALLED BY:
 GITEM GIDFLT GIDUP

GCSSF ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: INTERTEK - SET SUBFILE TO WHICH ITEM BELONGS
 LENGTH: 236 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 GCSSF GCGLN GCSLFT GCGLFT GCSRIT
 GCSRIT GCSONE GCGONE GCGLID
 CAN BE CALLED BY:
 GITEM GIDUP
 CAN CALL THE FOLLOWING:
 GCOTYP GCSET GCSETI DMSET DMGET

GCSTUB ENTRY CLASS: SECONDARY SEGMENT: (G0)
 D CI (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : GCDLIM
 CAN BE CALLED BY:
 GCORIR GITRIR

GCUCAT ENTRY CLASS: MAIN SFGMENT: (G0)
 DESC: INTERTEK - UNPACK CATEGORIES IN ITEM
 LENGTH: 56 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GCSRIT GIBUTN GIDUP
 CAN CALL THE FOLLOWING:
 GCGONE GCGET

GCUNPC ENTRY CLASS: SECONDARY SEGMENT: (G0)
 DESC: INTERTEK - UNPACK SUBFILE CATEGORY LIST
 SECONDARY ENTRY POINT FOR : GCUNPK
 CAN BE CALLED BY:
 GCOSF GCUPSF

GCUNPK ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: INTERTEK - UNPACK SUBFILE OR DAE LIST
 LENGTH: 75 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 GCUNPC

CAN BE CALLED BY:
 GCDRAW GIDELT GISHOW
 CAN CALL THE FOLLOWING:
 GCGET

GCUNPK ENTRY CLASS: MAIN SEGMENT: (GO)
 DESC: INTERTEK - UNPACK SUBFILE OR DAE LIST
 LENGTH: 75 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GCUPSF ENTRY CLASS: MAIN SEGMENT: (GO)
 DESC: INTERTEK - UPDATE SUBFILE CATEGORY LIST
 LENGTH: 117 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GITEM GIJUP
 CAN CALL THE FOLLOWING:
 GCUNPC GCSETI

GCUPXY ENTRY CLASS: MAIN SEGMENT: (GO)
 DESC: INTERTEK - UPDATE X,Y AND AREA FOR ITEM IN #IBUF#
 LENGTH: 102 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GULIN GUTEXT GUSETP
 CAN CALL THE FOLLOWING:
 GCGETW GCSEFW

GCWIDE ENTRY CLASS: SECONDARY SEGMENT: (GO)
 DESC: INTERTEK - RETURN CHARACTER WIDTH
 SECONDARY ENTRY POINT FOR : GCHIGH
 CAN BE CALLED BY:
 DRIVER LIBINS PUTEDT MENNIT IDISER

GCWORK ENTRY CLASS: MAIN SEGMENT: (GO)
 DESC: INTERTEK - INTERPRET DISPLAY INSTRUCTIONS
 LENGTH: 752 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GCDRAW GCDRIT
 CAN CALL THE FOLLOWING:
 COMPIO GCC SORT. GCGET GOTOER.

GCXMIN ENTRY CLASS: SECONDARY SEGMENT: (GO)
 DESC: INTERTEK - RETURN SCREEN X MIN
 SECONDARY ENTRY POINT FOR : GCHIGH
 CAN BE CALLED BY:
 CNTINT INITXY INIT2D GLTOP

GCYMAX ENTRY CLASS: SECONDARY SEGMENT: (GO)
 DESC: INTERTEK - RETURN SCREEN Y MAX
 SECONDARY ENTRY POINT FOR : GCHIGH
 CAN BE CALLED BY:
 CNTINT INITXY INIT2D GLTOP

GCYMIN ENTRY CLASS: SECONDARY SEGMENT: (G0)
 DESC: INTERFERE - RETURN SCREEN Y MIN
 SECONDARY ENTRY POINT FOR : GCHIGH
 CAN BE CALLED BY:
 CNTINT INITKY INIT20

GC3DA ENTRY CLASS: MAIN SEGMENT: (G13)
 DESC: (NOT AVAILABLE)
 LENGTH: 67 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 SETVO
 CAN CALL THE FOLLOWING:
 ACQ. ALAN? SORT. COS. SIN.

GERASE ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: ERASE SCREEN
 LENGTH: 10 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ERASER HOLD
 CAN CALL THE FOLLOWING:
 COMPIO

GETCEN ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: DETERMINE CENTER OF AN ELEMENT
 LENGTH: 235 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRELN FMOVE MXYI GETCNT IDRWEL
 IDRWEL
 CAN CALL THE FOLLOWING:
 CNVT00 G0FOER. IOBDNN IOBTYP IOBDNP
 DBATT

GETCES ENTRY CLASS: MAIN SEGMENT: (OB3)
 DESC: DETERMINE CENTER OF STRUCTURE
 LENGTH: 29 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IDRWAT
 CAN CALL THE FOLLOWING:
 GETLIM

GETCNT ENTRY CLASS: MAIN SEGMENT: (DE9)
 DESC: CONTOUR - FETCH ATTRIBUTE DATA FROM ACTIVATED NODES AND ELEMENTS
 LENGTH: 130 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABE
 CAN CALL THE FOLLOWING:
 GETCEN SHEL IDISER IOBDR DBATT

GETCOR ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: GET THE COORDINATE OF THIS NODE

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LENGTH: 216 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  CNDGFE  PORG  IORWEL  IORWNO  IORWAT
CAN CALL THE FOLLOWING:
  CNVTOC  DBATT

GETCSS  ENTRY CLASS: MAIN      SEGMENT: (M820)
DESC: GET CENTER OF SUBSTRUCTURE
LENGTH: 20  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  IORWAT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GETDAT  ENTRY CLASS: MAIN      SEGMENT: (DE40)
DESC: X-Y PLOTS - GET X-Y DATA FOR PLOT
LENGTH: 270  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  PROCXA
CAN CALL THE FOLLOWING:
  IOISER  IOBORT  IOBNAM  DBATT  OBTGET

GETLIM  ENTRY CLASS: MAIN      SEGMENT: (DB3)
DESC: GET THE LIMITS OF THE DISPLAY
LENGTH: 33  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  SET1  GETCES
CAN CALL THE FOLLOWING:
  IOBARR

GETLIN  ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC: READ FROM TERMINAL WITHOUT RECORD MANAGER
SECONDARY ENTRY POINT FOR : GET.PUT
CAN BE CALLED BY:
  GLCLOK  INDATA  HOLD  OMP

GETRAG1  ENTRY CLASS: SECONDARY  SEGMENT: (PRM1)
DESC: GET RANGE OF ELEMENT NUMBERS
SECONDARY ENTRY POINT FOR : GETRAG
CAN BE CALLED BY:
  PRTABLE

GETRAG  ENTRY CLASS: MAIN      SEGMENT: (PRM1)
DESC: GETS A RANGE OF ELEMENT NUMBERS FOR ATTRIBUTE GENERATION
LENGTH: 104  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  GETRAG1
CAN BE CALLED BY:
  PRTABLE
CAN CALL THE FOLLOWING:
  PUTEOT  PUTLS  IOISER  ICHKED  COMPAC

GETSIZ  ENTRY CLASS: MAIN      SEGMENT: (DB0)

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DESCRIPTION: AUTIFICATION -GET TEXT SIZE DEPENDING ON ZOOM LEVEL

LENGTH: 21 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

MBLAY METAZZ IDRWND IORWAT

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GET.PUT ENTRY CLASS: MAIN SEGMENT: (S0)

DESC: (NOT AVAILABLE)

LENGTH: 140 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

GETIN PUTIN

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GET.SQ ENTRY CLASS: MAIN SEGMENT: (S0)

DESC: (NOT AVAILABLE)

LENGTH: 1060 LANGUAGE: COMPASS

SECONDARY ENTRY POINTS:

SKOT.SQ GXIT.SQ GRTJ.SQ ANBL.SQ AMAC.SQ
DXIT.SQ

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

CAN CALL THE FOLLOWING:

ERR.RM RSPT.SQ RM.CIO RM.RCLA RM.RCLP
CLSV.SQ RMU0.SQ RMU2.SQ WNB=

GET.Z ENTRY CLASS: SECONDARY SEGMENT: (S0)

DESC: (NOT AVAILABLE)

SECONDARY ENTRY POINT FOR : Z.SQ

CAN BE CALLED BY:

FORBYGE

GFLUSH ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: FLUSH GRAPHICS DRIVER BUFFER

LENGTH: 10 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GIEAR PUMP

CAN CALL THE FOLLOWING:

COMPIO

GIALRM ENTRY CLASS: MAIN SEGMENT: (G0)

DESC: INTERTEK - RING MY CHIMES

LENGTH: 10 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

M070RS PONPEN MXYI PAGER

CAN CALL THE FOLLOWING:

COMPIO

GIASIO ENTRY CLASS: MAIN SEGMENT: (M32)

DESC: INTERTEK - ASSIGN CATEGORY TO KEYBOARD KEY

LENGTH: 40 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

MENUIT

CAN CALL THE FOLLOWING:
GCSETI

GIBUTN ENTRY CLASS: MAIN SEGMENT: (G11)
DESC: INTERTEK - BUTTON PICK PROCESSOR
LENGTH: 602 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IPICK

CAN CALL THE FOLLOWING:

COMPIO GCGARR GCSARR GCSONE GCGONE
GCRCAT GCUCAT GCRESI GCDRAW GCINPC
GCGET GOTOER. DMRL80

GICAT ENTRY CLASS: MAIN SEGMENT: (G12)
DESC: INTERTEK - SET PICK CATEGORY
LENGTH: 75 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLINIT GLDEFP GRFNIT IPICK DEINIT1
MENNIT SETCAT

CAN CALL THE FOLLOWING:

GCSETI GIEKR

GICLRQ ENTRY CLASS: MAIN SEGMENT: (G11)
DESC: INTERTEK - CLEAR PICK QUEUES
LENGTH: 33 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER

CAN CALL THE FOLLOWING:

GCGONE DMRL30

GIDAE1 ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: INTERTEK - SET DAE ZOOM, WINDOW, AND CLIP LIMITS
SECONDARY ENTRY POINT FOR: GIDAE
CAN BE CALLED BY:
GIZOOM

GIDAE ENTRY CLASS: MAIN SEGMENT: (G12)
DESC: INTERTEK - CREATE DAE
LENGTH: 142 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GIDAE1

CAN BE CALLED BY:

MOSPLT CLRPIC GINIT MENNIT

CAN CALL THE FOLLOWING:

GCGTYP GCRESI ITOJ.

GIDELT ENTRY CLASS: MAIN SEGMENT: (G0)
DESC: INTERTEK - DELETE ENTITY
LENGTH: 156 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER EXSTAR MOAXES MOZCRS MOSOS
CHNGP2 CLROUT PONPEN MXYI FROXA

TABDEL	CLRPIG	TYPNAM	ERASER	FUTEDT
SELATT	GLTOP	EXINIT	IPPRMT	IDRWAT
DRWACT	IDISER	DELETE	DELSF	
CAN CALL THE FOLLOWING:				
GCGTYP	GCSLFT	GCGLFT	GCSRIT	GCGRIT
GCUNPK	GCPKOS			

GIDFON ENTRY CLASS: MAIN SEGMENT: (G13)
 DESC: INTERTEK - ERASE SCREEN AND REDRAW DISPLAY FILE
 LENGTH: 22 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ERASEM
 CAN CALL THE FOLLOWING:
 COMPIO GCOFAW

GIDUP ENTRY CLASS: MAIN SEGMENT: (G13)
 DESC: INTERTEK - DUPLICATE ITEM
 LENGTH: 231 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MOFRZ
 CAN CALL THE FOLLOWING:
 GCGARR GCSARR GCGTYP GCSSF GCGSF
 GCGLEN GCSLFT GCGLFT GCSRIT GCGRIT
 GCGONE GCGLID GCUCAT GCRESI GCDRAW
 GCFILL GCUPSF

GIERR ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: INTERTEK - REPORT ERROR
 LENGTH: 122 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DEINIT1 GCRESI GULIN GITEM GICAT
 GUTEXT GUSETP GISHOW GIXTND
 CAN CALL THE FOLLOWING:
 GFLUSH PUTLIN GOTOER.

GIFETS ENTRY CLASS: MAIN SEGMENT: (M1)
 DESC: INTERTEK - FETCH LAST CROSSHAIR LOCATION
 LENGTH: 26 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MORCNT MOZORS FIXDAT PONPEN MXYP
 CAN CALL THE FOLLOWING:
 GCDLIM

GINIT ENTRY CLASS: MAIN SEGMENT: (M5)
 DESC: INTERTEK - INITIALIZE INTERTEK
 LENGTH: 431 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GRFNIT
 CAN CALL THE FOLLOWING:
 COMPIO GPRESET GISUBF GIOAE GISHOW
 GOTOER. REQUEST DMINIT RETURN

GIPARM ENTRY CLASS: SECONDARY SEGMENT: (G11)
 DESC: INTERTEK - GET PARAMETER PICK INFORMATION
 SECONDARY ENTRY POINT FOR : GISNGL
 CAN BE CALLED BY:
 DRIVER

GISHOW ENTRY CLASS: MAIN SEGMENT: (G12)
 DESC: INTERTEK - TURN SUBFILE ON OR OFF IN A DAE
 LENGTH: 155 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER MOFRE MOFRZ GRID CLRPIC
 GINIT IPPRMT DELSF
 CAN CALL THE FOLLOWING:
 GCGTYP GCDRAW GCUNPK GCPKDS GIERR

GISNGL ENTRY CLASS: MAIN SEGMENT: (G11)
 DESC: INTERTEK - GET SINGLE PICK INFORMATION
 LENGTH: 151 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 GISTR GIPARM
 CAN BE CALLED BY:
 DRIVER
 CAN CALL THE FOLLOWING:
 GCGARR GCGLEN GCGONE

GISTR ENTRY CLASS: SECONDARY SEGMENT: (G11)
 DESC: INTERTEK - GET STRING PICK INFORMATION
 SECONDARY ENTRY POINT FOR : GISNGL
 CAN BE CALLED BY:
 DRIVER

GISUBF ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: INTERTEK - SUBFILE CREATOR
 LENGTH: 20 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER MOFRZ GRID CLRPIC GINIT
 TYPNAM PUTEDT SELATT MENNIT
 CAN CALL THE FOLLOWING:
 GCRESI

GITEM ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: INTERTEK - ITEM CREATOR
 LENGTH: 374 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER EXSTAR MOAXES MOZCRS GRID
 DRELN LIBINS PONPEN MXYI TYPNAM
 PUTEDT SELATT GLTOP IPPRMT MENNIT
 IDISER MITEM
 CAN CALL THE FOLLOWING:
 GCSARR GCGTYP GCSSF GCGSF GCSLFT
 GCGLFT GCSKIT GCGRIT GGRESI GCDRAW
 GCUPSF GCSETI GIERR

GITRAK ENTRY CLASS: MAIN SEGMENT: (G11)
 DESC: INTERTEK - TURN ON CROSSHAIRS
 LENGTH: 45 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MORCNT MOZCRS FIXDAT PONPEN MXYI
 TRKOFF
 CAN CALL THE FOLLOWING:
 GCGTYP GCDJIM GCSTUB GCINPC

GIXTND ENTRY CLASS: MAIN SEGMENT: (G14)
 DESC: INTERTEK - EXTEND ITEM
 LENGTH: 134 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GRID MEXTN
 CAN CALL THE FOLLOWING:
 GCSARR GCGTYP GCGSF GCSONE GCGONE
 GCRESI GCDFAW GIERR

GIZOOM ENTRY CLASS: MAIN SEGMENT: (M5)
 DESC: INTERTEK - CHANGE DAE CONSTANTS
 LENGTH: 56 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 SETWZ
 CAN CALL THE FOLLOWING:
 GCGMM GCGTYP GIDAE1

GLCHCK ENTRY CLASS: MAIN SEGMENT: (GL1)
 DESC: SAVE DATA BASE ON TOP OF OLD FILE
 LENGTH: 161 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 GLCHCT
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 REACT GLFILN RESTART IDISER ICCHR
 COPYFL IPFUT REQUEST RETURN

GLCHCT ENTRY CLASS: SECONDARY SEGMENT: (GL1)
 DESC: SAVE DATA BASE ON NEW FILE
 SECONDARY ENTRY POINT FOR : GLCHCK
 CAN BE CALLED BY:
 GLTABLE

GLCLOK ENTRY CLASS: MAIN SEGMENT: (GL1)
 DESC: LET USER ISSUE INTERCOM COMMANDS
 LENGTH: 251 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 MARK EXSTAR EXSTOP GLTOP ICCHR
 GETLIN PUTLIN IYIELD1

GLDEFP	ENTRY CLASS: MAIN	SEGMENT: (GL2)
	DESC: PROCESS PICKS FOR DEFINITIONS (NOT OPERATIVE)	
	LENGTH: 120	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	GLTABLE	
	CAN CALL THE FOLLOWING:	
	IGNM	IGPCKM GICAT PUTLIN IGDEF
GLDEFS	ENTRY CLASS: MAIN	SEGMENT: (GL2)
	DESC: SET UP PICK FOR DEFINITION (NOT OPERATIVE)	
	LENGTH: 22	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	GLTABLE	
	CAN CALL THE FOLLOWING:	
	GLTOP PUTLIN	
GLFILN	ENTRY CLASS: SECONDARY	SEGMENT: (MEN1)
	DESC: SET UP FILE FOR SAVING DATA BASE IN #GLOBAL#	
	SECONDARY ENTRY POINT FOR : FILNAM	
	CAN BE CALLED BY:	
	GLTABLE GLCHCK	
GLFIN	ENTRY CLASS: SECONDARY	SEGMENT: (DRIVE)
	DESC: TERMINATE #GLOBAL# MODE	
	SECONDARY ENTRY POINT FOR : GLINIT	
	CAN BE CALLED BY:	
	GLTABLE	
GLHIST	ENTRY CLASS: MAIN	SEGMENT: (GL1)
	DESC: TRACE HISTORY OF DOWN-POINTERS	
	LENGTH: 107	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	GLTABLE	
	CAN CALL THE FOLLOWING:	
	GLTOP	IGPCKM IBEAUT PUTLIN IGFTF
GLINIT	ENTRY CLASS: MAIN	SEGMENT: (DRIVE)
	DESC: INITIALIZE #GLOBAL# MENUS	
	LENGTH: 141	LANGUAGE: FTN
	SECONDARY ENTRY POINTS:	
	GLFIN	
	CAN BE CALLED BY:	
	IPICK	
	CAN CALL THE FOLLOWING:	
	SWITCHS	EXTABLE DETABLE PRTABLE PPTABLE
	GLTABLE	TRKOFF SETCAT GICAT EDITTI
	IGFTF	
GLLDN	ENTRY CLASS: MAIN	SEGMENT: (GL1)
	DESC: DISPLAY NEXT LEVEL DOWN IN COMMAND TREE	
	LENGTH: 123	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	

CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 GLTOP IGPKM PUTLIN IGSON IGLNK

GLLUP ENTRY CLASS: MAIN SEGMENT: (GL1)
 DESC: DISPLAY NEXT LEVEL UP IN COMMAND TREE
 LENGTH: 76 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 GLTOP IGPKM PUTLIN IGFR IGLNK

GLLOINT ENTRY CLASS: MAIN SEGMENT: (DRIVE)
 DESC: INITIALIZE THE GLOBAL COMMAND TREE AND COMMON BLOCK VARIABLES
 LENGTH: 20 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER
 CAN CALL THE FOLLOWING:
 ATT BLINT GUBUF

GLSTDB ENTRY CLASS: MAIN SEGMENT: (GL2)
 DESC: GET STATISTICS ABOUT DATA BASE
 LENGTH: 334 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 GLTOP IBEAUT NAMFM PUTLIN IGATT
 IDBRIT ID3LFT IDBNAM DBATT

GLSTOS ENTRY CLASS: MAIN SEGMENT: (GL2)
 DESC: GET STATISTICS ABOUT DISPLAY FILE
 LENGTH: 275 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 GLTOP IBEAUT PUTLIN IDBDRT IDBNAM

GLSTOP ENTRY CLASS: MAIN SEGMENT: (GL1)
 DESC: STOP THE S T A G I N G SYSTEM
 LENGTH: 7 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 STOP.

GLTABLE ENTRY CLASS: MAIN SEGMENT: (DRIVE)
 DESC: GLOBAL MENU SUBROUTINE SWITCH TABLE
 LENGTH: 141 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:

GLINIT

CAN CALL THE FOLLOWING:

SWITCHS	GLFIN	GLFILN	IGLDEC	MOAXNF
MOZSRS	MORCNT	MOZCRS	MOZPLS	MOZMIN
GLSTOP	GLCHCK	GLCHCT	GLCLOK	GLHIST
GLLUP	GLLIN	GLSTIB	GLSTDS	GLDEFP
GLDEFS	FRONTVU	SIDEVU	TOPVU	MOFILL
MODRW	SVIEW	SVIEWP	MOSPLT	MOSOS
MOFRE	MOFRZ	MOASHK	MOISHK	MOSSHK
MOUSHK	SROTET	SROTST	ERASER	ERASEN
MOREC	MOCYL	MOSPH	ONPENS	

GLTOP ENTRY CLASS: MAIN SEGMENT: (M30)
 DESC: MOVE ALPHA CURSOR TO HOME ON SCREEN
 LENGTH: 51 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GLCLOK	GLHIST	GLLUP	GLLDN	GLSTDB
GLSTDS	GLDEFS			

CAN CALL THE FOLLOWING:

ERASEN	GCHIGH	GXMIN	GCYMAX	GITEM
GIDELT	GUTEXT	GUSETP		

GOTOER= ENTRY CLASS: MAIN SEGMENT: (S0)
 DESC: COMPUTED GO TO ERROR PROCESSOR.
 LENGTH: 14 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:

GOTOER.

THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

CAN CALL THE FOLLOWING:

ABNORM. SYSERR.

GOTOER. ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)

SECONDARY ENTRY POINT FOR : GOTOER=

CAN BE CALLED BY:

DRIVER	IGLDEC	IPRDEC	CHNGP2	IOEDEC
MXYP	SETWZ	GINIT	IDRWEL	IDRWAT
GETCEN	SETUPG	IDRW	ICON	GCHORK
GIBUTN	DMP	GIERR	DMSTGT	DMINIT

GPRESET ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: INTERTEK - INITIALIZE CONSTANTS IN COMMON BLOCK
 LENGTH: 3 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

GINIT

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GRDINIT ENTRY CLASS: MAIN SEGMENT: (M5)
 DESC: INITIALIZE DATA BASE DEPENDENT GRAPHICS INFO
 LENGTH: 146 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

REACT	FILATT	DRAWFR
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CAN CALL THE FOLLOWING:

INIT2D ICCHR IBEAUT ISACT IOBRIT
ID3LFT ID3NAM

GRFNIT ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: INITIALIZE GRAPHICS FOR INTERTEK
LENGTH: 71 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER
CAN CALL THE FOLLOWING:
GINIT GICAT SETVU EDITTI

GRID ENTRY CLASS: MAIN SEGMENT: (M8121)
DESC: X-Y PLOTS - DRAW X-Y PLOT GRID
LENGTH: 573 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA
CAN CALL THE FOLLOWING:
LINESG SETSMG MLTPLG SEGHTG XTOI.

GRID ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: DRAW DRAFTING PACKAGE GRID
LENGTH: 225 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE DRAWER CHNGP2
CAN CALL THE FOLLOWING:
GISUBF GULIN GITEM GUSETP GISHOW
GIXTND

GRTJ.SQ ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : GET.SQ
CAN BE CALLED BY:
FSU.SQ

GSGXGY ENTRY CLASS: SECONDARY SEGMENT: (DE41)
DESC: X-Y PLOTS - SET LINEAR X / LINEAR Y
SECONDARY ENTRY POINT FOR : INTFLG
CAN BE CALLED BY:
DETABLE

GSGXLY ENTRY CLASS: SECONDARY SEGMENT: (DE41)
DESC: X-Y PLOTS - SET LINEAR X / LOG Y
SECONDARY ENTRY POINT FOR : INTFLG
CAN BE CALLED BY:
DETABLE

GSLXGY ENTRY CLASS: SECONDARY SEGMENT: (DE41)
DESC: X-Y PLOTS - SET LOG X / LINEAR Y
SECONDARY ENTRY POINT FOR : INTFLG
CAN BE CALLED BY:
DETABLE

GSLXLY ENTRY CLASS: SECONDARY SEGMENT: (DE41)

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DESC: X-Y PLOTS - SET LOG X / LOG Y
SECONDARY ENTRY POINT FOR : INTFLG
CAN BE CALLED BY:
    DETABLE

GUBUF  ENTRY CLASS: MAIN      SEGMENT: (G0)
DESC: INTERTEK - INITIALIZE #IBUF#
LENGTH: 20    LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    GLOINT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GULIN  ENTRY CLASS: MAIN      SEGMENT: (G0)
DESC: INTERTEK - PACK LINE DISPLAY INFORMATION
LENGTH: 121   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    GRID  PUTEDT  LINZZ  IDRWLN  GUTEXT
CAN CALL THE FOLLOWING:
    GCUPXY  GCGETW  GCSET  GIERR

GUSETP ENTRY CLASS: MAIN      SEGMENT: (G12)
DESC: INTERTEK - ESTABLISH ITEM STARTING POSITION
LENGTH: 60    LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    DRIVER  EXSTAR  MOAXES  MOZCRS  GRID
    DRELN   LIBINS  PONPEN  MXYI   TYPNAM
    PUTEDT  SELATT  GLTOP  IPPRMT  MENNIT
    LINZZ   IDRWEL  IDRWND  IDISER
CAN CALL THE FOLLOWING:
    GCUPXY  GCSET  GCSETW  GIERR

GUTEXT ENTRY CLASS: MAIN      SEGMENT: (G12)
DESC: INTERTEK - PACK CHARACTERS INTO #IBUF#
LENGTH: 245   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    DRIVER  EXSTAR  MOLAX  MOZCRS  DRELN
    LIBINS  PCNPEN  MXYI   TYPNAM  PUTEDT
    SELATT  GLTOP  IPPRMT  MENNIT  METAZZ
    IDRWND  IDRWAT  IDISER
CAN CALL THE FOLLOWING:
    GCUPXY  GULIN  GCGETW  GCSET  GIERR

GXIT.SQ ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : GET.SQ
CAN BE CALLED BY:
    Z.SQ  FSU.SQ

HOLD   ENTRY CLASS: MAIN      SEGMENT: (S1)
DESC: ERROR RECOVERY INQUIRY
LENGTH: 327   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS

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CAN BE CALLED BY:

RCOVER

CAN CALL THE FOLLOWING:

GERASE ICCHR IBEAUT GETLIN PUTLIN
IYIELD1 DMP IOCTAL

IALATT ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: MAKE UP ALPHANUMERIC VALUE FOR ATTRIBUTE
LENGTH: 53 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PUTATT IDRWAT
CAN CALL THE FOLLOWING:
ICCHR IBEAUT

IARSET ENTRY CLASS: MAIN SEGMENT: (M822)
DESC: SET UP ARROW DRAWING
LENGTH: 130 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ARROW
CAN CALL THE FOLLOWING:
SQRT.

IBEAUT ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: CONVERT NUMBER TO CHARACTERS
LENGTH: 300 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLHIST GLST03 GLSTDS SVIEW SROTST
CHNGPI OPELN MATIN LIBINS ICKRNG
CNTPRD ELREPL ELKEPP EMOVE DYLOAD
DYSFPU DYSSTP ATTREN ATTRNG ECREAN
EATF GRDNIT TYPNAM TABPRC TABXYM
TABSCX PUTLST MOPUT REPFA NUMBRG
IDRWAY IALATT NAMFNM HOLD DMP
IGETCH
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ICAN ENTRY CLASS: MAIN SEGMENT: (G14)
DESC: CHECK IF NEW INFORMATION WILL FIT IN DISPLAY FILE
LENGTH: 11 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOFRZ
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ICCHR ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: COUNT THE NUMBER OF CHARACTERS IN AN ARRAY
LENGTH: 13 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
STARTM FILATT GLCHCK GLCLOK ORELN
MATIN LIBINS IECPRC PROCXA GRDNIT
TYPNAM PUTEOT SELATT INDATA IDRWND
IDRWAT IALATT HOLD IPFUT DBINIT

IGETCH

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ICKED ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: CHECK TO SEE IF ALL NUMERIC TYPE-IN INPUT IS CORRECT
 LENGTH: 131 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MODRW SVIEWP SROTET CHNGP2 GETRAG
 IECPRC ETYPSV RNGDEL RNGDRW PTYPE
 EQNUM ELREPP EMOVE DYSFPU DYSSTP
 ATTRNG ATTRNP ERNDLO EATS ESERCH
 ASERCH SSAOFF CNTPFE TABXYP TABSCL
 TABDM PROFAC
 CAN CALL THE FOLLOWING:
 ICRACK COMPACS

ICKACT ENTRY CLASS: MAIN SEGMENT: (DB2)
 DESC: CHECK IF BEAD IS ACTIVE
 LENGTH: 21 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ERO ERNDLO EADOWN EATS DRWACT
 EQUQUP DELETE ACTIVA IOBCAN
 CAN CALL THE FOLLOWING:
 IOBORT

ICKATT ENTRY CLASS: MAIN SEGMENT: (DB3)
 DESC: CHECK IF THE VALUES IN A BEAD ARE WITHIN RANGE
 LENGTH: 46 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ESERCH ASERCH SSAOFF
 CAN CALL THE FOLLOWING:
 OBATT

ICKBYT ENTRY CLASS: MAIN SEGMENT: (M80)
 DESC: GRAPHICS CHECKING - CHECK IF #IBUF# WILL BE OVERFLOWED
 LENGTH: 44 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 METAZZ LINZZ IDRWLN
 CAN CALL THE FOLLOWING:
 MEXTN MITEM DEDAD

ICKRNG ENTRY CLASS: MAIN SEGMENT: (DE0)
 DESC: CHECK IF TYPE-IN VALUE IS IN THE DATA BASE
 LENGTH: 75 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ETYPSV RNGDEL RNGDRW EQNUM ELREPP
 ERNDLO
 CAN CALL THE FOLLOWING:
 IBEAUT IOBFND IDBRIT IDBLFT

ICKSL ENTRY CLASS: MAIN SEGMENT: (DE3)

DESC: CHECK IF DISPLACEMENT SLICE IS ACTIVE IN DATA BASE
 LENGTH: 66 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 UYSSIP DYUNJE
 CAN CALL THE FOLLOWING:
 ISACT

ICON ENTRY CLASS: MAIN SEGMENT: (M821)
 DESC: SET UP CONNECTIVITY ARRAYS FOR DRAWING
 LENGTH: 207 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IDRWEL
 CAN CALL THE FOLLOWING:
 GOTDER.

ICPART ENTRY CLASS: MAIN SEGMENT: (PR1)
 DESC: CONVERSION(1) - DUMP OVERFLOW INFO INTO SUBSTRUCTURE BEAD
 LENGTH: 63 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNELEM
 CAN CALL THE FOLLOWING:
 CLEAR2 DMSET

ICRACK ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 LENGTH: 467 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MATIN LIBINS IPFUT ICHKED
 CAN CALL THE FOLLOWING:
 UNPACK

IDBADB ENTRY CLASS: MAIN SEGMENT: (DB2)
 DESC: ADD A BEAD AT A LEVEL
 LENGTH: 226 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IDRNXT CNTRM ECPROC
 CAN CALL THE FOLLOWING:
 IDBRSV DBRITE DBLEFT DBUPS DBTYP
 DBSTAT DBNAME IDBRIT IDBLFT IOBUPN
 IOB0VN IOBTYP IOBNAM DBCHA

IDBARR ENTRY CLASS: MAIN SEGMENT: (DB3)
 DESC: CHANGE VALUES IN NO MANS LAND
 LENGTH: 105 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 DBARR
 CAN BE CALLED BY:
 ECPROC ECHKL DBTGET GETLIM IOBTFM
 CAN CALL THE FOLLOWING:
 DMSET DMGET DBCH6D IOBTYP IOBSTA

IOBCAN	ENTRY CLASS: MAIN	SEGMENT: (DB2)
	DESC: (NOT AVAILABLE)	
	LENGTH: 342 LANGUAGE: FIN	
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DBCHA DBUPT	
	CAN CALL THE FOLLOWING:	
	DMRL9D	DBCH8D IDRRSV DBRITE DBLEFT
	DBUPP	DBDNP DBLEN DBSET DBOLF
	DBORT	IDBFT IDSLFT IDBUPN IOBONN
	IOBTYP	IDLEN IDSTA IDOLF IOBORT
	IOBUPP	IDDNP IDGET ICKACT
IOBCOL	ENTRY CLASS: SECONDARY	SEGMENT: (DB3)
	DESC: GET COLUMN DIMENSION	
	SECONDARY ENTRY POINT FOR : IOBTFM	
	CAN BE CALLED BY:	
	TABPRC	
IOBDAC	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: ACTIVE ATTRIBUTE	
	SECONDARY ENTRY POINT FOR : IOBRIT	
	CAN BE CALLED BY:	
	DRWATA EATS DRWACT	
IOBDAD	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: #IOBDAD#	
	SECONDARY ENTRY POINT FOR : IOBRIT	
	CAN BE CALLED BY:	
	MOFRZ	IDDEEC MXYP ERD ERNOLD
	EADOWN	IDRWEL IDRWAT DRWACT EQUQUP
	IDRWSS	IDRWST IDRW DELETE DBRITE
IOBDEP	ENTRY CLASS: SECONDARY	SEGMENT: (DB3)
	DESC: GET DEPTH DIMENSION	
	SECONDARY ENTRY POINT FOR : IOBTFM	
	CAN BE CALLED BY:	
	TABPRC	
IOBDLF	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: ACTIVE LEFT POINTER	
	SECONDARY ENTRY POINT FOR : IOBRIT	
	CAN BE CALLED BY:	
	REACT	INTSUB MXYP EALLS RESTART
	CLRPIG	DELETE ACTIVA NEXTIN IOBCAN
IOBONN	ENTRY CLASS: SECONDARY	SEGMENT: (DB0)
	DESC: NUMBER OF DOWN-POINTERS	
	SECONDARY ENTRY POINT FOR : IOBRIT	
	CAN BE CALLED BY:	
	CNTERM	CNTER DRELN MATDEF IODEEC
	EMERGE	PORG ELREPL MXYP NO9AEL
	NOJFEL	ERDOWN EPUTDN IDRWEL GETCEN
	IDRWSS	IDRWST NEXTIN IOBCAN DBUPT
	IO8A08	DBDEL

IDBONP ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: GET NTH DOWN-POINTER
 SECONDARY ENTRY POINT FOR : IDBUPP
 CAN BE CALLED BY:
 CNTERM DRELN MATDEF EMERGE PORG
 ELREPL ELREPP MXYP NODAEI NODFEL
 ERDOWN EPUTON IDRWEI GETCEN IDRWSS
 IDRWST NEXFIN IDBCAN DBUPT DBDEL

IDBORT ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: ACTIVE RIGHT-POINTER
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 GLSTDS MOFFZ DRELN MATDEF IDEDEC
 DRWATA RETAIN LANODE NODAEI SSAOFF
 GETCNT GETCAT IENEXT DACTSN DRWACT
 DRWSS NEXFIN ICKACT IDBCAN EADDEL

IDBFND ENTRY CLASS: MAIN SEGMENT: (080)
 DESC: FIND A BEAD ADDRESS
 LENGTH: 212 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRAWFR CNTERM CNTER CNTABL MATDEF
 ICKRNG IECPRC SPCHK
 CAN CALL THE FOLLOWING:
 IDBRIT IDBLFT IDBNAM

IDBFTY ENTRY CLASS: SECONDARY SEGMENT: (083)
 DESC: GET FORMAT TYPE
 SECONDARY ENTRY POINT FOR : IDBTFM
 CAN BE CALLED BY:
 TABACT

IDBGET ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: GET NTH WORD
 SECONDARY ENTRY POINT FOR : IDBUPP
 CAN BE CALLED BY:
 CNTERM DZRST DBCHBD IDBCAN DBUPT

IDBLEN ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: BEAD LENGTH
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 DBCHBD IDBUPP IDBCAN

IDBLFT ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: LEFT DATA BASE POINTER
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 GLSTDB IDRNXT CNTERM CNTABL MYINIT
 ICKRNG ECREAN EALLS GRDNIT IDBFND
 DBCHNM IDBCAN IDBAOB DBDEL

IDBNAM ENTRY CLASS: SECONDARY SEGMENT: (080)
 DESC: GET NAME

SECONDARY ENTRY POINT FOR : IDBUPP
CAN BE CALLED BY:
GLSTDB GLSTDS IDRNXT CINTER MYINIT
DRELV ELRFPL ECREAN EATF GETJAT
GRONIT TYPNAM IDRWAT IDBFNG OBLKUP
DBCHNM IDBADB

IDBNOM ENTRY CLASS: SECONDARY SEGMENT: (DB3)
DESC: GET NUMBER OF DIMENSION
SECONDARY ENTRY POINT FOR : IDBTFM
CAN BE CALLED BY:
TABPRC

IDBRIT ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: GRAB RIGHT DATA BASE POINTER
LENGTH: 212 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
IDBLFT IDBUPS IDBUPN IDBDNN IDBTYP
IDBLEN IDBDAD IDBSTA IDBDLF IDBORT
IDBJAC
CAN BE CALLED BY:
GLSTDB CINTER CINTER MATDEF ICKRNG
RNGDEL RNGDRW EQNUM PORG MXYP
ERNLDO EPUTON ESERCH ECHKL GRONIT
TABACT PUTNAM IDBFNO OBLKUP DBCHNM
NEXTIN IDSCAN IDBADB DBDEL
CAN CALL THE FOLLOWING:
DMGET

IDBROW ENTRY CLASS: SECONDARY SEGMENT: (DB3)
DESC: GET ROW DIMENSION
SECONDARY ENTRY POINT FOR : IDBTFM
CAN BE CALLED BY:
TABPRC

IDBRV ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: RESERVE A BEAD OF NEW LENGTH
LENGTH: 26 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNNEW CNELEM CNNODE CNTABL IFATT
DBINIT IDSCAN IDBADB
CAN CALL THE FOLLOWING:
DMGTBD DBLEN

IDBSTA ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: START OF ATTRIBUTE LIST
SECONDARY ENTRY POINT FOR : IDBRIT
CAN BE CALLED BY:
DBKITE IDBUPP IDSCAN DBCHA DBUPT
DBTGET IDBARR

IDBTFM ENTRY CLASS: MAIN SEGMENT: (DB3)
DESC: GET TABLE FORMAT
LENGTH: 135 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

IDJROW IDCOL IDDEP IDBFTY IOBNDM
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 IOBTYP IOBARR

IOBTYP ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: TYPE
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 MOISHK EDINIT TYPNAM GETCEN DBCHBD
 IFATT DBRITE IDBUPP DBLKUP DBCHNM
 IOBCAN DBCHA DBUPT IDBADB C3DEL
 DBTGET IOBARR IDBTFM

IOBUPN ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: NUMBER OF UP-POINTERS
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 IOEDEC MXYP LFNOD ERDOWN EPUTON
 EQUPEP IDBCAN DBUPT IDBADB DBDEL

IOBUPP ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: GET NTH UP-POINTER
 LENGTH: 173 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 IOBONP IDBNAM IDGET DBATT
 CAN BE CALLED BY:
 MXYP LFNOD ERDOWN EPUTON EQUPEP
 IOBCAN DBUPT DBDEL
 CAN CALL THE FOLLOWING:
 DMGET ISACT IDBUPS IOBTYP IDBLEN
 IOBSTA

IOBUPS ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: START OF UP-POINTER
 SECONDARY ENTRY POINT FOR : IDBRIT
 CAN BE CALLED BY:
 DBRITE IDBUPP DBUPT

IOEDEC ENTRY CLASS: MAIN SEGMENT: (DE0)
 DESC: DISPLAY AND EDIT MENU DECISION FUNCTION
 LENGTH: 266 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 NAMFNM GOTOER IGATT IOBUPN IOBONN
 IOB0AD IOBORT

IOINF ENTRY CLASS: MAIN SEGMENT: (G14)
 DESC: SPLIT UP LEAD ADDRESS
 LENGTH: 7 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 ORELN TYPNAM
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

IDISER ENTRY CLASS: MAIN SEGMENT: (G0)
 DESC: DISPLAY AND EDIT ERRORS
 LENGTH: 332 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER FILATT GLCHCK MOORW SVIEWP
 MOFRZ SKOTET MYINIT GETRAG MATIN
 ALLON IECPRC ETYPSV RNGDEL RNGDRW
 PTYPE EQNUM ELREPP EMOVE DYSFPU
 DYSSTP ATTRNG NODON ECHOND ERNOLD
 EATS EPUTON ESERCH ASERCH SSAOFF
 CNTPRE GETCNT PROCXA GETOAT IENEXT
 SELATT TABACT TABPRC TABXYP TABSCL
 TABDM DACTSN PUTATT PROFAC ORWACT
 ESEOT ONPEN
 CAN CALL THE FOLLOWING:
 GCDRAW GCWIDE GITEM GIOELT GUTEXT
 GUSETP

IDRNXT ENTRY CLASS: MAIN SEGMENT: (PR2)
 DESC: GET NEXT BEAD AND NUMBER FOR ASSIGNMENT
 LENGTH: 37 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 BDSTR FIXDAT
 CAN CALL THE FOLLOWING:
 IOBLFT IOBNAM IOBADB

IDRWAT ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: DRAW BEAD AND ADD THE ATTRIBUTE
 LENGTH: 351 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 FIXOAT ORWATA ORWATT ORWACT
 CAN CALL THE FOLLOWING:
 GETCSS GETCEN GETCOR IDRW ARROW
 GIOELT GUTEXT MEXTN UTORAS ICCHR
 IBEAUT IALATT NAMFNM GOTOER. IGATT
 DBDAD DBDAC IDBDAD IOBNAM DBATT
 GETSIZ GETCES

IDRWEL ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: DRAW ELEMENT BEAD
 LENGTH: 417 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IDRWSS IDRW
 CAN CALL THE FOLLOWING:
 IDRWLN IDRWNQ GETCEN GETCOR ICON
 GUSETP UTORAS GOTOER. IOBONN IOBDAD
 IOBONP DBATT

IDRWLN ENTRY CLASS: MAIN SEGMENT: (M820)
 DESC: DRAW LINE IN 2D OR 3D
 LENGTH: 40 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

IORWEL ARROW

CAN CALL THE FOLLOWING:

ICKBYT GULIN

IORWNO ENTRY CLASS: MAIN SEGMENT: (M820)

DESC: DRAW NOCE BEAD

LENGTH: 65 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

IORWEL IORW

CAN CALL THE FOLLOWING:

GETCOR GUTEXT GUSETP UTORAS ICCHR
GETSIZ IGETCH

IDRWSS ENTRY CLASS: MAIN SEGMENT: (M821)

DESC: DRAW SUBSTRUCTURE BEAD

LENGTH: 103 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

IDRWST IORW

CAN CALL THE FOLLOWING:

IORWEL DBDAD IOBONN IOBDAD IOBONP

IDRWST ENTRY CLASS: MAIN SEGMENT: (M821)

DESC: DRAW STRUCTURE BEAD

LENGTH: 67 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

IORW

CAN CALL THE FOLLOWING:

IDRWSS DBDAD IOBONN IOBDAD IOBONP

IORW ENTRY CLASS: MAIN SEGMENT: (M821)

DESC: DRAW ANY LEVEL BEAD IF UNDISPLAYED

LENGTH: 100 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

BOSTR FIXTAT ALLON RRGDRW NODAEI
NODFEL LFNOD ASERCH IORWAT ORWACT
DRWSS

CAN CALL THE FOLLOWING:

IORWEL IORWNO IDRWSS IORWST MEXTN
MITEM GOTOER. DBDAD IOBDAD

IECPRC ENTRY CLASS: MAIN SEGMENT: (DE0)

DESC: CHECK IF NAME TYPE-IN IS IN DATA EASE

LENGTH: 147 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

IECPRC EATS

CAN CALL THE FOLLOWING:

PUTEJT IDISER ICCHR ICHKED COMPAC
IOJFNO

IENEXT ENTRY CLASS: MAIN SEGMENT: (M1)
 DESC: GET NEXT BEAD IN CYCLING THROUGH ACTIVE BEADS FOR EDITING
 LENGTH: 105 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 IENIT
 CAN BE CALLED BY:
 EATS
 CAN CALL THE FOLLOWING:
 IDISER IU3DRT NEXTIN NEXTB

IENIT ENTRY CLASS: SECONDARY SEGMENT: (M1)
 DESC: INITIALIZE #IENEXT#
 SECONDARY ENTRY POINT FOR : IENEXT
 CAN BE CALLED BY:
 EATS

IEXDEC ENTRY CLASS: MAIN SEGMENT: (EX)
 DESC: EXECUTIVE MENU DECISION FUNCTION
 LENGTH: 53 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 EXTABLE
 CAN CALL THE FOLLOWING:
 NAMFNM IGATT

IFATT ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: FETCH THE LOCATION OF ALPHANUMERIC ATTRIBUTE
 LENGTH: 150 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNNEW MATDEF ATTRNG DBINIT D3CHA
 CAN CALL THE FOLLOWING:
 DMRL3D DMSET DMGET IGATT ISACT
 IDBRSV NUMFNM IDBTYP

IGACT ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE ACTION INDICATOR FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTF
 CAN BE CALLED BY:
 DRIVER

IGATT ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 45 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IEXDEC GLST08 IDEDEC SELATT PUTATT
 IDRWAT IFATT ISACT IGETCH
 CAN CALL THE FOLLOWING:
 DMGET

IGDEF ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE DEFINITION FIELD FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTF
 CAN BE CALLED BY:
 GLDEFF

IGMN ENTRY CLASS: MAIN SEGMENT: (GL2)
 DESC: (NOT AVAILABLE)
 LENGTH: 35 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLDEFP
 CAN CALL THE FOLLOWING:
 DMGET

IGOPT ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE OPTION FIELD FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:
 DRIVER

IGPKM ENTRY CLASS: MAIN SEGMENT: (M32)
 DESC: RETRIEVE PICK MESSAGE
 LENGTH: 140 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 IGPRM IGDFV
 CAN BE CALLED BY:
 DRIVER GLHIST GLLUP GLLDN GLDEFP
 MENNIT
 CAN CALL THE FOLLOWING:
 IGPNC IGPNW IGPS IGPRC IGPRW
 IGPRS IGPCN IGPCS IGDOVN IGDOVS
 DMGET

IGPCN ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE 3 WORDS IN ID BLOCK FOR PICK MSG FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:
 IGPKM

IGPCS ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE ADDR OF 10 WORDS FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:
 IGPKM

IGPNC ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE 3 CHARACTERS IN PICK MESSAGE FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:
 IGPKM

IGPNW ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE 3 WORDS IN PICK MESSAGE FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:
 IGPKM

IGPRC ENTRY CLASS: SECONDARY SEGMENT: (DB0)
 DESC: RETRIEVE 3 CHARACTERS IN PROMPTING MESSAGE FROM MENU BEAD
 SECONDARY ENTRY POINT FOR : IGFTR
 CAN BE CALLED BY:

IGPCKM

IGPRMH ENTRY CLASS: SECONDARY SEGMENT: (M32)
DESC: RETRIEVE PROMPT MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGPCKM
CAN BE CALLED BY:
IPPRMT

IGPRS ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE ADDR OF PROMPTING MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
IGPCKM

IGPRW ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
IGPCKM

IGPSX ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE X-POSITION ON SCREEN FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
DRIVER

IGPSY ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE Y-POSITION ON SCREEN FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
DRIVER

IGPS ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE ADDR OF PICK MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
IGPCKM

IGRUT ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE SUBROUTINE NAME FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
DRIVER

IGSON ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE BEAD ADDRESS OF SON FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
DRIVER GLLDN

IGTBL ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: RETRIEVE ADDRESS OF SUBROUTINE FROM MENU BEAD
SECONDARY ENTRY POINT FOR : IGFTF
CAN BE CALLED BY:
DRIVER

INBUF ENTRY CLASS: MAIN SEGMENT: (060)
DESC: (NOT AVAILABLE)
LENGTH: 17 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMREAD DMINIT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

INDATA ENTRY CLASS: MAIN SEGMENT: (M32)
DESC: READ TEXT INPUT AND FORMAT IT FOR CRACKING ALGORITHMS
LENGTH: 164 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IREAD
CAN CALL THE FOLLOWING:
ICCHR GETLIN

INITXY ENTRY CLASS: MAIN SEGMENT: (DE41)
DESC: X-Y PLOTS - INITIALIZE X-Y PLOTS
LENGTH: 133 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
CLRPIG RSETMG GCXMIN GCYMIN GCYMAX

INIT2D ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: INITIALIZE 2D DRAWING MODE
LENGTH: 72 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE DRAWFR GRONIT INIT3N
CAN CALL THE FOLLOWING:
CLRPIG GCXMIN GCYMIN GCYMAX SETVU

INIT3N ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: INITIALIZE 3D MODE
LENGTH: 23 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
INIT2D CLRPIG SETVU

INTFLG ENTRY CLASS: MAIN SEGMENT: (DE41)
DESC: X-Y PLOTS - SET FLAGS FOR GRID STYLE
LENGTH: 162 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GSLXLY GSLXGY GSGXLY GSGXGY LSSL0
LSSDH LSLDH
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SETSMG

INTSUBM ENTRY CLASS: SECONDARY SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY GENERATION

SECONDARY ENTRY POINT FOR : INTSUB
CAN BE CALLED BY:
MYINIT

INTSUBS ENTRY CLASS: SECONDARY SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY DEFINITION FOR ENTIRE STRUCTURE
SECONDARY ENTRY POINT FOR : INTSUB
CAN BE CALLED BY:
PRTAJLE

INTSUB5 ENTRY CLASS: SECONDARY SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY DEFINITION FOR PICKED ELEMENTS
SECONDARY ENTRY POINT FOR : INTSUB
CAN BE CALLED BY:
PRTAJLE

INTSUB ENTRY CLASS: MAIN SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY DATA BASE PROCESSING
LENGTH: 115 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
INTSUB5 INTSUBS INTSUBM
CAN BE CALLED BY:
PRTAJLE
CAN CALL THE FOLLOWING:
CLRPIE ONPENN DBOAO DBORT DBDAC
IDBOLF

IOCTAL ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: CONVERT INTEGER TO OCTAL REPRESENTATION
LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
HOLD DMP
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

IPFUT ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: DO PERM FILE MANIPULATION FROM FORTRAN
LENGTH: 221 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXSTAR FILATT GLCHCK
CAN CALL THE FOLLOWING:
ICCHR UNPACK PERMFIL ICRACK

IPICK ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: PROCESS BUTTON PICK
LENGTH: 104 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER PAGER
CAN CALL THE FOLLOWING:
GLINIT ERASER ERASEN GIBUTN GICAT

IPPOEC ENTRY CLASS: MAIN SEGMENT: (PP)
DESC: POST-PROCESSOR MENU DECISION FUNCTION
LENGTH: 11 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

IPRMT ENTRY CLASS: MAIN SEGMENT: (M32)
DESC: DISPLAY PROMPTING MESSAGE
LENGTH: 336 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER
CAN CALL THE FOLLOWING:
IGPRMM GITFM GIDELT GUTEXT GUSETP
GISHOW

IPROEC ENTRY CLASS: MAIN SEGMENT: (PRO)
DESC: PRE-PROCESSOR MENU DECISION FUNCTION
LENGTH: 25 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE
CAN CALL THE FOLLOWING:
GOTOER.

IREAD ENTRY CLASS: MAIN SEGMENT: (M32)
DESC: READ A TEXT STRING INTO NVALS IN EDITT COMMON BLOCK
LENGTH: 156 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER
CAN CALL THE FOLLOWING:
INDATA

ISACT ENTRY CLASS: MAIN SEGMENT: (760)
DESC: SCAN THE ACTIVE ATTRIBUTE LIST OF THE LEVEL FOR THE NAME GIVEN
LENGTH: 70 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINCP EQSTR CNNEW ICKSL GRONIT
IFATT ID3UPP
CAN CALL THE FOLLOWING:
IGATT NUMFM

ISWCHD ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
DESC: CALL THE SITUATION DEPENDENT FUNCTION
SECONDARY ENTRY POINT FOR : SWITCH
CAN BE CALLED BY:
DRIVER

ITOJ= ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: INTEGER TO INTEGER EXPONENTIATION.
LENGTH: 16 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
ITOJ.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

IT0J. ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : ITOJ=
 CAN BE CALLED BY:
 SETUPG GIDAE DMINIT RFILEB SETFETR

IYIELDE ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : YIELD=
 CAN BE CALLED BY:
 EXECC YIELD1=

IYIELDS ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : YIELD=
 CAN BE CALLED BY:
 EXECC YIELD1=

IYIELD1 ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : YIELD1=
 CAN BE CALLED BY:
 EXECC GLCLOCK HOLD

IYIELD ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : YIELD=
 CAN BE CALLED BY:
 YIELD1=

LABELG ENTRY CLASS: MAIN SEGMENT: (M8122)
 DESC: X-Y PLOTS - GENERATE X-Y PLOT LABELS
 LENGTH: 1002 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PROCXA
 CAN CALL THE FOLLOWING:
 NUMBRG SETSMG MLTPLG SEGMTG ALOG10.
 XTOI.

LANO0E ENTRY CLASS: MAIN SEGMENT: (DE3)
 DESC: DRAW ALL ELEMENTS THAT OWN ALL THE NODES DISPLAYED ON THE SCREEN
 LENGTH: 24 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 LFNOD IDBORT

LEGNDG ENTRY CLASS: MAIN SEGMENT: (M810)
 DESC: (NOT AVAILABLE)
 LENGTH: 26 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 NUMBRG TITLEG

CAN CALL THE FOLLOWING:
METAZZ

LFNODE ENTRY CLASS: MAIN SEGMENT: (DE3)
DESC: DRAW ALL ELEMENTS THAT OWN ALL THE NODES PICKED BY THE USER
LENGTH: 17 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE

CAN CALL THE FOLLOWING:
LFNOD MBEAD

LFNOD ENTRY CLASS: MAIN SEGMENT: (DE3)
DESC: MAKE THE CALL TO #IDRW# FOR LANODE AND LFNODE
LENGTH: 57 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
LANODE LFNODE

CAN CALL THE FOLLOWING:
IDRW IDBUPN IDBUPP ACTIVA

LIBINSA ENTRY CLASS: SECONDARY SEGMENT: (PRM2)
DESC: PROCESS MATERIAL PROPERTY LIBRARY REQUEST
SECONDARY ENTRY POINT FOR : LIBINS
CAN BE CALLED BY:
PRTABLE

LIBINS ENTRY CLASS: MAIN SEGMENT: (PRM2)
DESC: PROCESS MATERIAL PROPERTY DATA BASE
LENGTH: 532 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
LIBINSA CLRLIB

CAN BE CALLED BY:

PRTABLE

CAN CALL THE FOLLOWING:

CNTABL MATDEF PUTEDT GCDRAW GCWIDE
GITEM GUTEXT GUSETP ICCHR IBEAUT
ICRACK DMGET

LIBIN ENTRY CLASS: MAIN SEGMENT: (PRM1)
DESC: PROCESS GENERIC MATERIAL TYPE
LENGTH: 114 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

PRTABLE

CAN CALL THE FOLLOWING:

TYPVAL DMGET

LINESG ENTRY CLASS: MAIN SEGMENT: (M810)
DESC: CREATE X-Y PLOT OR CONTOUR PLOT LINE SEGMENT
LENGTH: 103 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

CNTOR QIKGRF GRIDG SCAN

CAN CALL THE FOLLOWING:

METAZZ

LINZZ ENTRY CLASS: MAIN SEGMENT: (M610)
 DESC: 4060/IGS - DRAWS A LINE WITH BEAM ON OR OFF
 LENGTH: 67 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 METAZZ
 CAN CALL THE FOLLOWING:
 ICKBYT SCALZZ GULIN GUSETP UTORAS

LSDH ENTRY CLASS: SECONDARY SEGMENT: (DE41)
 DESC: X-Y PLOTS - SET LONG DASH PLOT
 SECONDARY ENTRY POINT FOR : INTFLG
 CAN BE CALLED BY:
 DETABLE

LSSDH ENTRY CLASS: SECONDARY SEGMENT: (DE41)
 DESC: X-Y PLOTS - SET SHORT DASH PLOT
 SECONDARY ENTRY POINT FOR : INTFLG
 CAN BE CALLED BY:
 DETABLE

LSSLD ENTRY CLASS: SECONDARY SEGMENT: (DE41)
 DESC: X-Y PLOTS - SET SOLID LINE PLOT
 SECONDARY ENTRY POINT FOR : INTFLG
 CAN BE CALLED BY:
 DETABLE

LTEST ENTRY CLASS: MAIN SEGMENT: (M8140)
 DESC: CONTOUR PACKAGE CRITERIA TESTER
 LENGTH: 46 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 TMESH2
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MARK ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
 DESC: INITIALIZE RECOVERY PACKAGE
 SECONDARY ENTRY POINT FOR : RCOVER
 CAN BE CALLED BY:
 DRIVER GLCLOK

MATDEF ENTRY CLASS: MAIN SEGMENT: (PRM2)
 DESC: (NOT AVAILABLE)
 LENGTH: 301 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MATIN LIBINS
 CAN CALL THE FOLLOWING:
 IOBFND IFATT IDBRIT IOBDNN IOBORT
 IOBONP DBATT OBCHA

MATINS ENTRY CLASS: SECONDARY SEGMENT: (PRM2)
 DESC: RETRIEVE USER INPUT FOR MPDB
 SECONDARY ENTRY POINT FOR : MATIN
 CAN BE CALLED BY:

PRTABE

MATIN ENTRY CLASS: MAIN SEGMENT: (PRM2)
 DESC: ROUTINE TO INPUT MATERIAL PROPERTIES FROM (TYPE-IN)
 LENGTH: 301 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 MATINS
 CAN BE CALLED BY:
 PRTABE
 CAN CALL THE FOLLOWING:
 CNTABL MATDEF PUTEDT IDISER ICCHR
 IBEAUT ICRACK

MBEAD ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: MAKE A BEAD ADDRESS FROM ID ARRAY
 LENGTH: 11 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 MOISHK BDSTR ASUB4 ASUB5 ASUBS
 EMERGE DRWATT JELPIC RETAIN LFNODE
 NODFEL ERD EACTPN EADOWN EQPEN
 TABPRC SSOFF
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MCT.RM ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 LENGTH: 227 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CLSF.RM OPEN.RM CLSF.RM
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MENNIT ENTRY CLASS: MAIN SEGMENT: (M32)
 DESC: START GLOBAL AND EXECUTIVE MENUS
 LENGTH: 273 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DRIVER
 CAN CALL THE FOLLOWING:
 STARTM GIASID IGPKM GISUBF GCHIGH
 GOWIDE GITFM GICAT GIDAE GUTEXT
 GUSETP IGLNK

METAZZ ENTRY CLASS: MAIN SEGMENT: (M810)
 DESC: 4060/IGS - LOW-LEVEL DRIVER WHICH FORMATS ALL PLOT COMMANDS
 LENGTH: 545 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTOR QIKGRF LEGNDG LINESG POINTG
 MLTPLG SEGHTG
 CAN CALL THE FOLLOWING:
 ICKBYT LINZZ SCALZZ GUTEXT MEXTN
 MITEM UTOBAS GETSIZ

MEXTN ENTRY CLASS: MAIN SEGMENT: (G14)
 DESC: GRAPHICS CHECKING - EXTENDS AN EXISTING ITEM

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LENGTH:      20      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
-----
ICKBYT METAZZ IDRWT IDRW
CAN CALL THE FOLLOWING:
-----
GIXTND

MITEM        ENTRY CLASS: MAIN      SEGMENT: (G14)
DESC: GRAPHICS CHECKING - GENERATE AN ITEM
LENGTH:      40      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
-----
ICKBYT METAZZ IDRW
CAN CALL THE FOLLOWING:
-----
GITEM

MLTPLG       ENTRY CLASS: MAIN      SEGMENT: (M8120)
DESC: (NOT AVAILABLE)
LENGTH:      64      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
-----
GRIDS LABELG
CAN CALL THE FOLLOWING:
-----
METAZZ

MOASHK       ENTRY CLASS: MAIN      SEGMENT: (GL3)
DESC: MOD PICTURE - SHRINK ALL ELEMENTS ON SCREEN
LENGTH:      21      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
-----
GLTABLE MOZSR
CAN CALL THE FOLLOWING:
-----
MOUSHK DRWACT

MOAXES       ENTRY CLASS: MAIN      SEGMENT: (GL0)
DESC: MOD PICTURE - DRAW 3D AXES
LENGTH:      130     LANGUAGE: FTN
SECONDARY ENTRY POINTS:
-----
MOAXNF MOAXET
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
-----
MOLAK ARROW GITEM GIDELT GUSETP
UTORAS

MOAXET       ENTRY CLASS: SECONDARY  SEGMENT: (GL0)
DESC: REDRAW AXES
SECONDARY ENTRY POINT FOR : MOAXES
CAN BE CALLED BY:
-----
MORDRW

MOAXNF       ENTRY CLASS: SECONDARY  SEGMENT: (GL0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : MOAXES
CAN BE CALLED BY:
-----
GLTABLE

```

MOBOTH ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: MOD PICTURE - RESET ZOOM AND VIRTUAL WINDOW FOR #IDAEM#
LENGTH: 20 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOZSR5
CAN CALL THE FOLLOWING:
SETWZ ERASEM

MOCYL ENTRY CLASS: SECONDARY SEGMENT: (M33)
DESC: MOD PICTURE - SET POLAR OR CYLINDRICAL ENTRY MODE FOR PLOT LIMITS
SECONDARY ENTRY POINT FOR I MOREC
CAN BE CALLED BY:
DETABLE GLTABLE

MORDRW ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - REDRAW ALL ACTIVELY DISPLAYED BEADS IN NEWLY SPECIF
LENGTH: 122 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
MORDRW PUTEDT IDISER SCALST CNVTOC
ICHKED COMPAC

MOFILL ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - RESCALE TO CURRENT MINS AND MAXES
LENGTH: 41 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
MORDRW SCALST

MOFRE ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - GENERATE FREE COPY OF WORKING DAE
LENGTH: 21 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
GISHOW

MOFRZ ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - GENERATE FROZEN COPY OF WORKING DAE
LENGTH: 141 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
GISUBF IDISER OELSF GISHOW GIDUP
ICAN ICEBAD IOBRT

MOISHK ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - SHRINK ALL PICKED ELEMENTS ON SCREEN
LENGTH: 25 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
DRWONE ILSTYP MBEAD

MOLAX ENTRY CLASS: MAIN SEGMENT: (GL0)
DESC: MOD PICTURE - LABEL 3D AXES WITH CHARACTERS X, Y, AND Z
LENGTH: 53 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOAXES
CAN CALL THE FOLLOWING:
GUTEXT UTORAT GETSIZ

MOPUT ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: DISPLAY SCALE LIMITS IN USER COORDINATE TERMS
LENGTH: 130 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
MOPU
CAN BE CALLED BY:
MOREC
CAN CALL THE FOLLOWING:
PUTEDT PLINIT CNVTOU IBEAUT

MOPU ENTRY CLASS: SECONDARY SEGMENT: (M33)
DESC: UNUSED
SECONDARY ENTRY POINT FOR : MOPUT
CAN BE CALLED BY:
DETABLE

MORCNT ENTRY CLASS: MAIN SEGMENT: (GL0)
DESC: MOD PICTURE - RECENTER DISPLAY FILE AROUND CROSSHAIRS
LENGTH: 34 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
GIFETS SETWZ GITRAK ERASEM

MORORW ENTRY CLASS: MAIN SEGMENT: (GL0)
DESC: MOD PICTURE - REDRAW ACTIVE BEADS
LENGTH: 20 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FRONTVU SIDEVU TOPVU MOFILL MODRW
SVIEWP SROTET
CAN CALL THE FOLLOWING:
MOAXET ERASEM ORWACT

MOREC ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: MOD PICTURE - SET RECTANGULAR ENTRY MODE FOR PLOT LIMITS
LENGTH: 26 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
MOCYL MOSPH
CAN BE CALLED BY:

DETABLE GLTABLE
CAN CALL THE FOLLOWING:
MOPUT

MORGUE. ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : SYS=1ST
CAN BE CALLED BY:
SYS=AID

MOSOS ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - DEACTIVATE SPLIT-SCREEN MODE
LENGTH: 33 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE MOZERS
CAN CALL THE FOLLOWING:
SETWZ GIDELT ERASEM

MOSPH ENTRY CLASS: SECONDARY SEGMENT: (M33)
DESC: MOD PICTURE - SET SPHERICAL COORDINATES ENTRY MODE FOR PLOT LIMIT:
SECONDARY ENTRY POINT FOR : MOREC
CAN BE CALLED BY:
DETABLE GLTABLE

MOSPLT ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - DECREASE THE ZOOM OF ITEM TO FIT NEXT SPLIT ON SCRE:
LENGTH: 45 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
SETWZ GIDAE ERASEM

MOSSHK ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - SET SHRINK MODE
LENGTH: 13 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
MOUSHK
CAN BE CALLED BY:
GLTABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MOUSHK ENTRY CLASS: SECONDARY SEGMENT: (GL3)
DESC: MOD PICTURE - TERMINATE SHRINK MODE
SECONDARY ENTRY POINT FOR : MOSSHK
CAN BE CALLED BY:
GLTABLE MOASHK

MOVE.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 64 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PUT.SQ FSU.SQ
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MOZCRS ENTRY CLASS: MAIN SEGMENT: (GL0)
 DESC: MOD PICTURE - ZOOM AROUND CROSSHAIRS
 LENGTH: 161 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 GIFETS SETWZ GIALRM GCDRAW GITEM
 GIDELT GITRAK GUTEXT GUSETP ERASEM

MOZMIN ENTRY CLASS: SECONDARY SEGMENT: (GL0)
 DESC: DECREASE ZOOM LEVEL 50 PER CENT
 SECONDARY ENTRY POINT FOR : MOZPLS
 CAN BE CALLED BY:
 GLTABLE

MOZPLS ENTRY CLASS: MAIN SEGMENT: (GL0)
 DESC: MOD PICTURE - ZOOM ONE LEVEL MORE (ENLARGE)
 LENGTH: 24 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 MOZMIN
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 SETWZ ERASEM

MOZSR5 ENTRY CLASS: MAIN SEGMENT: (GL0)
 DESC: MOD PICTURE - RESTORE ORIGINAL PICTURE
 LENGTH: 15 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 MOSOS MOASHK MDBOTH

MSG= ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : SYS.RM
 CAN BE CALLED BY:
 COMPIO Q8.10. FORSYS= PUT.S0 ERR.RM
 YIELD= PERMFI REQUEST

HXYI ENTRY CLASS: MAIN SEGMENT: (DE2)
 DESC: INITIALIZE MOVING A NODE BY CROSSHAIRS
 LENGTH: 104 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 MXYP GETCEV GIALRM GCDRAW GITEM
 GIDELT GITRAK GUTEXT GUSETP UTORAS

HXYP ENTRY CLASS: MAIN SEGMENT: (DE2)
 DESC: PROCESS THE CROSSHAIR MOVE OF NODE
 LENGTH: 325 LANGUAGE: FTN

SECONDARY ENTRY POINTS:
 MXYTP
 CAN BE CALLED BY:
 DETABLE MXYI
 CAN CALL THE FOLLOWING:
 EUPPNT CORSHF RASTOU GIFETS DRWONE
 EQUEUP TRKOFF GOTOER. DBOLF IDBRIT
 IOBUPN IOBONN IDBOAD IDBOLF IDBUPP
 IOBONP

MXYTP ENTRY CLASS: SECONDARY SEGMENT: (DE2)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : MXYP
 CAN BE CALLED BY:
 EMOVE

MYINIT ENTRY CLASS: MAIN SEGMENT: (PRM1)
 DESC: INITIALIZE MPDB PROCESSING
 LENGTH: 121 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 PRTABLE
 CAN CALL THE FOLLOWING:
 INTSUBM DEINIT1 IDISER PERMFIL IOBLFT
 IOBNAM DMINIT RETURN

NAMFNM ENTRY CLASS: MAIN SEGMENT: (S0)
 DESC: CONSTRUCT ATTRIBUTE NAME FROM NUMBER
 LENGTH: 35 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 IEXDEC GLSTOB IDEDEC SELATT PUTATT
 IDRWAT
 CAN CALL THE FOLLOWING:
 IBEAUT

NEXTB ENTRY CLASS: SECONDARY SEGMENT: (DB2)
 DESC: GET NEXT BEAD
 SECONDARY ENTRY POINT FOR : NEXTIN
 CAN BE CALLED BY:
 PRINCP EQSTR ALLON ASERCH IENEXT

NEXTIN ENTRY CLASS: MAIN SEGMENT: (DB2)
 DESC: INITIALIZE NEXT BEAD FOR LOOKING ALL PIECES OF DATA BASE
 LENGTH: 133 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 NEXTB
 CAN BE CALLED BY:
 PRINCP EQSTR ALLON ASERCH IENEXT
 CAN CALL THE FOLLOWING:
 IDBRIT IOBONN IDBOLF IDBORT IOBONP

NODACT ENTRY CLASS: SECONDARY SEGMENT: (M0)
 DESC: SET NODES AS THE LEVEL TO WORK ON
 SECONDARY ENTRY POINT FOR : STRACT
 CAN BE CALLED BY:

DETABLE PRTABLE

NODAEI	ENTRY CLASS: MAIN	SEGMENT: (DE3)
	DESC: DRAW ALL NODES OWNED BY ALL ELEMENTS ON SCREEN	
	LENGTH: 55	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	
	IDRW	IDBCNN IDBORT IDBDNP ACTIVA

NODE	ENTRY CLASS: MAIN	SEGMENT: (PR2)
	DESC: (NOT AVAILABLE)	
	LENGTH: 3	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	PRTABLE	
	THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS	

NODFEL	ENTRY CLASS: MAIN	SEGMENT: (DE3)
	DESC: DRAW ALL NODES FOR EACH ELEMENT PICKED BY THE USER	
	LENGTH: 44	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	
	IDRW	IDBDNN IDBDNP MBEAD ACTIVA

NODON	ENTRY CLASS: MAIN	SEGMENT: (DE3)
	DESC: CHECK IF ANY NODES ARE ACTIVE TO BE CONNECTED	
	LENGTH: 12	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	DETABLE	
	CAN CALL THE FOLLOWING:	
	IOISER	

NUMBRG	ENTRY CLASS: MAIN	SEGMENT: (M810)
	DESC: (NOT AVAILABLE)	
	LENGTH: 36	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	LABELG SCAN	
	CAN CALL THE FOLLOWING:	
	LEGNIG IBEAUT	

NUMFNH	ENTRY CLASS: MAIN	SEGMENT: (DB0)
	DESC: GENERATE ATTRIBUTE NUMBER FROM NAME	
	LENGTH: 107	LANGUAGE: FTN
	HAS NO SECONDARY ENTRY POINTS	
	CAN BE CALLED BY:	
	IFATT ISACT	
	THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS	

OBJCTG	ENTRY CLASS: MAIN	SEGMENT: (M8131)
	DESC: SET OBJECT SPACE FOR X-Y PLOT	

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LENGTH: 211 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  CNTOR SETUPG
CAN CALL THE FOLLOWING:
  ALOG10.

ONPENA ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ALL ITEMS OF TYPE #IACTYP# ON AS STRING PICKS
SECONDARY ENTRY POINT FOR : ONPEN
CAN BE CALLED BY:
  TABPEN

ONPENE ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ONLY ELEMENTS ON AS STRING PICK
SECONDARY ENTRY POINT FOR : ONPEN
CAN BE CALLED BY:
  DETABLE

ONPENN ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ONLY NODES ON AS STRING PICK
SECONDARY ENTRY POINT FOR : ONPEN
CAN BE CALLED BY:
  DETABLE INTSUB

ONPENS ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ALL ITEMS OF ALL TYPES ON AS STRING PICKS
SECONDARY ENTRY POINT FOR : ONPEN
CAN BE CALLED BY:
  GLTABLE

ONPEN ENTRY CLASS: MAIN SEGMENT: (G12)
DESC: ACTIVATE ITEMS IN ACTIVE TYPE TO LIGHT-PEN
LENGTH: 100 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  ONPENE ONPENN ONPENA ONPENS
CAN BE CALLED BY:
  DETABLE PRTABLE BDSTR EONPD EONPEN
  RETAIS
CAN CALL THE FOLLOWING:
  IOISER SETCAT

OPEN.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 237 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  FORSYS= YIELD=
CAN CALL THE FOLLOWING:
  OSUB.RM ERR.RM MCT.RM

OPEN.S0 ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 262 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
  OPXX.S0

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CAN BE CALLED BY:
FORSYS=
CAN CALL THE FOLLOWING:
OPEX.SQ ERR.RM RSPT.SQ RM.CIO CHWR.SQ

OPEX.SQ ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 14 LANGUAGE: COMPAAS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OPEN.SQ
CAN CALL THE FOLLOWING:
OPXX.SQ ERR.RM RSPT.SQ RM.CIO

OPXX.SQ ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : OPEN.SQ
CAN BE CALLED BY:
OPEX.SQ

OSUB.RM ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 65 LANGUAGE: COMPAAS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OPEN.RM
CAN CALL THE FOLLOWING:
ERR.RM

OUTBUF ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: DATA HANDLER FOR LOW LEVEL OUTPUT ROUTINE
LENGTH: 17 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMWRITE DMFLSH DMINIT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

PAGER ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: WAIT FOR USER TO PICK ERASE OR REDRAW
LENGTH: 66 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER FILATT TYPNAM PUTEDT SELATT
CAN CALL THE FOLLOWING:
ERASER ERASEN IPICK GIALRM GCDRAW

PDUMP ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: DATA HANDLER ERROR DUMP
LENGTH: 24 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMSTGT
CAN CALL THE FOLLOWING:
GFLUSH PUTLIN

PERMFIL ENTRY CLASS: MAIN SEGMENT: (S1)

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DESC: PERMANENT FILE FUNCTIONS
LENGTH: 1177 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
STARTM EXSTAR MYINIT IPFUT
CAN CALL THE FOLLOWING:
SYS= MSG=

PLINIT ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: SET UP INITIAL VOLUME FOR ELEMENTS SEARCHED
LENGTH: 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXTABLE PONPEN MOPUT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

POINTG ENTRY CLASS: MAIN SEGMENT: (M811)
DESC: DISPLAY A OTA POINT ON AN X-Y PLOT
LENGTH: 24 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GINGFF
CAN CALL THE FOLLOWING:
METAZZ

PONPEN ENTRY CLASS: MAIN SEGMENT: (DE1)
DESC: SET UP RECTANGLE TO GENERATE DOWN-POINTERS
LENGTH: 157 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
RECTARLE
CAN CALL THE FOLLOWING:
MIND CORCHF RASTOU GIFETS PLINIT
GITEM GITEM GIDELT GITRAK GUTEXT
GUSETP

PORG ENTRY CLASS: MAIN SEGMENT: (DE1)
DESC: LOOK FOR ELEMENTS LYING WITHIN SQUARE OR VOLUME
LENGTH: 101 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PONPEN PTYPE
CAN CALL THE FOLLOWING:
GETCOR IDBRIT IDBDNN IDBDNP DBUPT
DBDNT

PPINIT ENTRY CLASS: MAIN SEGMENT: (M32)
DESC: (NOT AVAILABLE)
LENGTH: 16 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXTABLE
CAN CALL THE FOLLOWING:
STARTM DEINIT1

PPTABLE ENTRY CLASS: MAIN SEGMENT: (DRIVE)


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DESC: (NOT AVAILABLE)
LENGTH: 23 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
STARTM GLINIT
CAN CALL THE FOLLOWING:
SWITCHS IPPDEC PRINCP EQSTR EXINIT

PRINCP ENTRY CLASS: MAIN SEGMENT: (PP)
DESC: CALCULATE PRINCIPAL STRESSES
LENGTH: 172 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE
CAN CALL THE FOLLOWING:
PRINC3 ELEFT ISACT DBATT NEXTIN
NEXT3 DBCHA

PRINC3 ENTRY CLASS: MAIN SEGMENT: (PP)
DESC: CALCULATE PRINCIPAL VALUES FROM COMPONENTS
LENGTH: 136 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINCP
CAN CALL THE FOLLOWING:
PROOT

PRINT ENTRY CLASS: MAIN SEGMENT: (M32)
DESC: INITIALIZE PRE-PROCESSOR MENU
LENGTH: 16 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXTABLE
CAN CALL THE FOLLOWING:
STARTM DEINIT1

PROCCHR ENTRY CLASS: MAIN SEGMENT: (DE42)
DESC: X-Y PLOTS - PROCESS PLOT CHARACTER TYPE-IN
LENGTH: 12 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

PROCTIT ENTRY CLASS: MAIN SEGMENT: (DE41)
DESC: X-Y PLOTS - PROCESS TITLE TYPE-IN
LENGTH: 14 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

PROCA ENTRY CLASS: MAIN SEGMENT: (DE40)
DESC: MOD PICTURE - PROCESS X-AXIS ATTRIBUTE
LENGTH: 527 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

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PROCYA  REPLY  RSCXY  TABRDR
CAN BE CALLED BY:
DETABLE  TABIND
CAN CALL THE FOLLOWING:
SORTXY  GETDAT  CLPPIC  ACTATT  QIKGRF
SETSMG  TITLEG  SETUPG  GRIDG  LABELG
SUBJEG  GIDELT  IDISER  ICCHR

PROCYA  ENTRY CLASS: SECONDARY  SEGMENT: (DE40)
DESC: MOD PICTURE - PROCESS Y-AXIS ATTRIBUTE
SECONDARY ENTRY POINT FOR : PROCXA
CAN BE CALLED BY:
DETABLE  TABIND

PROFAC  ENTRY CLASS: MAIN  SEGMENT: (M33)
DESC: PROCESS REPEAT FACTOR
LENGTH: 42  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEOT  IDISER  ICHKED  COMPAC

PROOT  ENTRY CLASS: MAIN  SEGMENT: (PP)
DESC: FIND ROOTS OF REAL POLYNOMIAL
LENGTH: 500  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINC3
CAN CALL THE FOLLOWING:
SQRT.

PRTABLE  ENTRY CLASS: MAIN  SEGMENT: (DRIVE)
DESC: PRE-PROCESSOR MENU SUBROUTINE SWITCH TABLE
LENGTH: 123  LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
STARTM  GLINIT
CAN CALL THE FOLLOWING:
SWITCHS  IPRDEC  DRAWFR  NODE  GRID
CHNGP1  CHNGP2  BOSTR  CNCTBD  FIXDAT
SETLN  SETND  CLROUT  MYINIT  ASUB4
ASUB5  ASUB7  ASUB7S  DISPLB  ELNAM
GETRAG  GETFAG1  INTSUB  INTSUB5  INTSUBS
LIBIN  MATIN  MATINS  LIBINS  LIBINSA
CLRLIB  EQPEV  ELEACT  NODACT  PUTNAM
EXINIT  ONPEN

PRTYPE  ENTRY CLASS: MAIN  SEGMENT: (DE1)
DESC: PROCESS TYPE-IN POINTS, AREA, OR VOLUME
LENGTH: 100  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PORG  PUTEDT  IDISER  CNVTOC  ICHKED

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COMPAC

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PUTATT  ENTRY CLASS: MAIN          SEGMENT: (M33)
DESC:  DISPLAY 1ST GROUP OF ATTRIBUTES ACTIVE ON THIS LEVEL
LENGTH: 156    LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  PUTAT
CAN BE CALLED BY:
  DETABLE EATF
CAN CALL THE FOLLOWING:
  PUTEOT  IERISER  IALATT  NAMFNM  IGATT
  DBATT
-----
PUTAT   ENTRY CLASS: SECONDARY  SEGMENT: (M33)
DESC:  IF MORE THAN MAXSCR ACTIVE ATTRIBUTES, DISPLAY THE NEXT BATCH
SECONDARY ENTRY POINT FOR : PUTATT
CAN BE CALLED BY:
  EATS    EATF    ESERCH  ASERCH  SSAOFF
-----
PUTEOT  ENTRY CLASS: MAIN          SEGMENT: (M39)
DESC:  FORMAT TYPE-INS FOR USER
LENGTH: 377    LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DRIVER  FILNAM  MODRW   SVIEW   SVIEWP
  SROTST  SROTST  CHNGP1  GETRAG  MATIN
  LIBINS  IECPRC  ETYPSV  CNTPRD  RNGDEL
  RNGDRW  PTYPE   EONUM   ELREPL  ELREPP
  EMOVE   DYLOAD  OYSEPU  OYSSTP  ATTPRC
  ATTREN  ATTRNG  ECKEAN  ERNDLD  EATS
  EATF    ESERCH  ASERCH  SSAOFF  CNTPRE
  CNTITL  ERASER  TABPRC  TABXYP  TABXYM
  TABSOX  TABSCL  TABDM   PUTLST  MOPUT
  SPSBL   PUTATT  PROFAC  REPFA   QTITLE
CAN CALL THE FOLLOWING:
  PAGER   GISUBF  GULIN   GCHIGH  GCHIDE
  GITEM   GIDFLT  GUTEXT  GUSETP  ICCHR
-----
PUTLIN  ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC:  PUT LINE OF TEXT TO TERMINAL WITHOUT RECORD MANAGER
SECONDARY ENTRY POINT FOR : GET.PUT
CAN BE CALLED BY:
  GLCCLK  GLHIST  GLLUP   GLLDN   GLSTDB
  GLSTDS  GLDEFP  GLDEFS  CNTABL  CNTOR
  CONHUL  TMESH2  HOLD    DMP     GIERR
  PDUMP
-----
PUTLST  ENTRY CLASS: MAIN          SEGMENT: (M31)
DESC:  PUT UP #SET# TYPE-IN FOR NODE AND ELEMENT RANGES
LENGTH: 51    LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  PUTLS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  PUTEOT  IBEAUT
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PUTLS ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: RE-DISPLAY ERRONEOUS NODE AND ELEMENT TYPE-INS
SECONDARY ENTRY POINT FOR : PUTLST
CAN BE CALLED BY:
GETRAG ETYPSV RNGDEL RNGDRW EQNUM
ERNOLD

PUTNAM ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: PUT UP FIRST GROUP OF NAMES OF CROSSHAIR PICK
LENGTH: 105 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
PUTNM PUTNMM
CAN BE CALLED BY:
DETABLE PRTABLE
CAN CALL THE FOLLOWING:
TYPNAM IOBRIT

PUTNMM ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: PUT UP ALL BUT THE LAST BEAD (FOR MERGING)
SECONDARY ENTRY POINT FOR : PUTNAM
CAN BE CALLED BY:
DETABLE

PUTNM ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: PUT UP NEXT GROUP OF NAMES OF CROSSHAIR PICK
SECONDARY ENTRY POINT FOR : PUTNAM
CAN BE CALLED BY:
ASUB4 ASUBS EMERG EACTPN EQPEN

PUT.C ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : BTR.SQ
CAN BE CALLED BY:
FCL.C.

PUT.SQ ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 1403 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FORSYS=
CAN CALL THE FOLLOWING:
REW.SQ WEOP.SQ ERR.RM RM.CIO RM.RCLA
RM.RCLP CHWR.SQ CLSV.SQ MOVE.RM WAR.SQ
RLEQ.RY WNB= MSG=

QIKGRF ENTRY CLASS: MAIN SEGMENT: (M810)
DESC: (NOT AVAILABLE)
LENGTH: 70 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCKA
CAN CALL THE FOLLOWING:
METAZZ LINESG SETSMG POINTG

QTITLE ENTRY CLASS: MAIN SEGMENT: (M33)
 DESC: X-Y PLOTS - DISPLAY OLD X- AND Y-AXIS AND GRAPH TITLES
 LENGTH: 34 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 QETABLE
 CAN CALL THE FOLLOWING:
 PUTEDJ

QBNTY= ENTRY CLASS: MAIN SEGMENT: (S0)
 DESC: FCL INITIALIZATION ROUTINE.
 LENGTH: 3 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 QBNTY.
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

QBNTY. ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : QBNTY=
 CAN BE CALLED BY:
 DRIVER

RASTOU ENTRY CLASS: MAIN SEGMENT: (M1)
 DESC: SCALING - CONVERT RASTERS TO USER UNITS
 LENGTH: 23 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 FIXDAT POMPEN MXYP
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

RCOVER ENTRY CLASS: MAIN SEGMENT: (DRIVE)
 DESC: ERROR RECOVERY TRAP ROUTINE
 LENGTH: 72 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 MARK EXITT
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 EXIT HOLD

REACT ENTRY CLASS: MAIN SEGMENT: (MEN1)
 DESC: (NOT AVAILABLE)
 LENGTH: 115 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 EXSTAR GLOHCK
 CAN CALL THE FOLLOWING:
 GRDNIT D3ORT ID8DLF DBINIT

READR ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMREAD DMINIT
 CAN CALL THE FOLLOWING:

CPC

REPFA ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: X-Y PLOTS - DISPLAY REPEAT FACTOR FOR X-Y PLOT LONE
LENGTH: 23 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEOT IBEAUT

REPX ENTRY CLASS: SECONDARY SEGMENT: (OE40)
DESC: X-Y PLOTS - REPLOTS X-Y PLOT
SECONDARY ENTRY POINT FOR : PROCXA
CAN BE CALLED BY:
DETABLE

REQUEST ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: FTN-CALLABLE EQUIPMENT REQUEST PROCESSOR
LENGTH: 423 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FILATT GLCHCK CNNEW GINIT
CAN CALL THE FOLLOWING:
SYS= MSG=

RESTART ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: FLUSH APPROPRIATE INFO NEEDED TO RESTART APPLICATION
LENGTH: 344 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXSTAR GLCHCK CNTERM
CAN CALL THE FOLLOWING:
DMGTGD DMSET DMGET DBDRT IDBOLF
DMFLSH

RETAIN ENTRY CLASS: MAIN SEGMENT: (DE2)
DESC: DEACTIVATE ALL BEADS EXCEPT THOSE THAT ARE PICKED
LENGTH: 54 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
DELETE IDBDRT MBEAD

RETAIS ENTRY CLASS: MAIN SEGMENT: (DE2)
DESC: INITIALIZE THE #RETAIN# PROCESS
LENGTH: 10 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ONPEN

RETURN ENTRY CLASS: MAIN SEGMENT: (DB1)
DESC: FTN-CALLABLE FILE RETURN/UNLOAD

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LENGTH:      70   LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  STARTM  EXSTAR  FILATT  GLCHCK  DRAWFR
  CLRJUT  CNEW   MYINIT  GINIT   OBINIT
CAN CALL THE FOLLOWING:
  CLSF.RM  SYS=
-----
REN.SQ  ENTRY CLASS: MAIN      SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
LENGTH:   33   LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  PUT.SQ
CAN CALL THE FOLLOWING:
  ERR.RM  RSPT.SQ  RM.CIO
-----
RFILEB  ENTRY CLASS: MAIN      SEGMENT:  (OB1)
DESC: (NOT AVAILABLE)
LENGTH:   35   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  OMINIT
CAN CALL THE FOLLOWING:
  ITOJ.
-----
RLEQ.RM  ENTRY CLASS: MAIN      SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
LENGTH:   42   LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  PUT.SQ  WAR.SQ
CAN CALL THE FOLLOWING:
  ERR.RM
-----
RMU0.SQ  ENTRY CLASS: SECONDARY  SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FSU.SQ
CAN BE CALLED BY:
  GET.SQ
-----
RMU2.SQ  ENTRY CLASS: SECONDARY  SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : FSU.SQ
CAN BE CALLED BY:
  GET.SQ
-----
RM.CIO  ENTRY CLASS: SECONDARY  SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : CIO.RM
CAN BE CALLED BY:
  OPEN.SQ  OPEX.SQ  GET.SQ  PUT.SQ  REN.SQ
  WEOX.SQ  ERR.RM  CLSF.SQ  CLSV.SQ  WAR.SQ
-----
RM.RCLA  ENTRY CLASS: SECONDARY  SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
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SECONDARY ENTRY POINT FOR : CIO.RM
 CAN BE CALLED BY:
 GET.SQ BTRT.SQ PUT.SQ ERR.RM CLSF.SQ
 WAR.SQ

RM.RCLP ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : CIO.RM
 CAN BE CALLED BY:
 GET.SQ PUT.SQ

RNGDEL ENTRY CLASS: MAIN SEGMENT: (DE1)
 DESC: DELETE ALL NODES AND ELEMENTS RANGES
 LENGTH: 101 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ICKRNG PUTEDT PUTLS IDISER DELETE
 ICHKED COMPAC IDBRIT

RNGDRW ENTRY CLASS: MAIN SEGMENT: (DE1)
 DESC: DISPLAY NODES AND ELEMENTS IN TYPE-IN RANGE
 LENGTH: 107 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DETABLE
 CAN CALL THE FOLLOWING:
 ICKRNG PUTEDT PUTLS IDRW IDISER
 ICHKED COMPAC IDBRIT ACTIVA

RSCXY ENTRY CLASS: SECONDARY SEGMENT: (JE40)
 DESC: X-Y PLOTS - RESCALE ON X-Y PLOT TO ABSOLUTE MINS AND MAXES
 SECONDARY ENTRY POINT FOR : PROCXA
 CAN BE CALLED BY:
 DETABLE

RSETMG ENTRY CLASS: MAIN SEGMENT: (M810)
 DESC: 4060/IGS - INITS MODE ARRAY AND SCALING INTERFACE W/ INTERTEK
 LENGTH: 214 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTINT INITXY
 CAN CALL THE FOLLOWING:
 SCALST

RSPT.SQ ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : CLSF.SQ
 CAN BE CALLED BY:
 OPEN.SQ OPEX.SQ GET.SQ REV.SQ CLSV.SQ

RWRITER ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 11 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:
DMWRITE DMFLSH
CAN CALL THE FOLLOWING:
CPC

RWRITE ENTRY CLASS: MAIN SEGMENT: (080)
DESC: (NOT AVAILABLE)
LENGTH: 6 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMWRITE
CAN CALL THE FOLLOWING:
CPC

SCALST ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: SCALING - SET UP SCALE FACTORS
LENGTH: 70 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOFILL MODRW SET1 RSETMG
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SCALZZ ENTRY CLASS: MAIN SEGMENT: (M810)
DESC: (NOT AVAILABLE)
LENGTH: 66 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
METAZZ LINZZ
CAN CALL THE FOLLOWING:
ALOG10.

SCAN ENTRY CLASS: MAIN SEGMENT: (M8141)
DESC: CONTOUR - TRACE THRU TRIANGULAR GRID TO EXTEND CONTOUR LINE
LENGTH: 465 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNTOR
CAN CALL THE FOLLOWING:
LINESG NUMBRG

SEGMG ENTRY CLASS: MAIN SEGMENT: (M8120)
DESC: DRAW GROUP OF LINE SEGMENTS
LENGTH: 27 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GRIDG LABELG
CAN CALL THE FOLLOWING:
METAZZ

SELATC1 ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR SELATT
CAN BE CALLED BY:
ERASER

SELATC ENTRY CLASS: SECONDARY SEGMENT: (M30)

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DESC: DISPLAY NEXT BATCH OF ATTRIBUTE NAMES
SECONDARY ENTRY POINT FOR : SLLATT
CAN BE CALLED BY:
ACTATT

SELATT ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: DISPLAY ATTRIBUTE NAMES FOR PICKING
LENGTH: 362 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
SELATC SELATC1 SELAT1
CAN BE CALLED BY:
DETABLE ERASER
CAN CALL THE FOLLOWING:
PAGER GISUBF GITEM GIDELT IOISER
SETCAT GUTEXT GUSETP ICCHR NAMFNM
IGATT

SELAT1 ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: DISPLAY ATTRIBUTE NAMES FOR PICKING WITHOUT #DELETE ATTRIBUTE#
SECONDARY ENTRY POINT FOR : SELATT
CAN BE CALLED BY:
DETABLE ERASER

SETCAT ENTRY CLASS: MAIN SEGMENT: (G12)
DESC: SET CATEGORIES FOR CROSSHAIR PICKS
LENGTH: 20 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLINIT ATTLST TYPNAM SELATT TABACX
TABPRC ONPEN
CAN CALL THE FOLLOWING:
GICAT

SETFETR ENTRY CLASS: MAIN SEGMENT: (DB1)
DESC: (NOT AVAILABLE)
LENGTH: 31 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
CLRFETR
CAN BE CALLED BY:
DMFLSH DMINIT
CAN CALL THE FOLLOWING:
IT0J.

SETLN ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: SET LINE MODE IN DRAFTING
LENGTH: 5 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRTABLE BOSTR FIXDAT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SETND ENTRY CLASS: MAIN SEGMENT: (PR2)
DESC: SET NODE MODE IN DRAFTING
LENGTH: 4 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

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PRTABLE DRAWER BOSTR FIXDAT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SETPRM ENTRY CLASS: MAIN SEGMENT: (0B0)
DESC: (NOT AVAILABLE)
LENGTH: 6 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMRLBD

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SETSMG ENTRY CLASS: MAIN SEGMENT: (M810)
DESC: 4060/IGS -
LENGTH: 275 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA INTFLG QIKGRF TITLEG GRIDG
LABELG
CAN CALL THE FOLLOWING:
ALOG10. XTOY.

SETUPG ENTRY CLASS: MAIN SEGMENT: (M8130)
DESC: SET UP GRID SPACE FOR X-Y PLOT OR CONTOUR PLOT
LENGTH: 251 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA
CAN CALL THE FOLLOWING:
OBJCTG SUBJEG GOTOER. ITOJ. ALOG10.

SETVU ENTRY CLASS: MAIN SEGMENT: (G13)
DESC: MOD PICTURE - CALCULATE NEW PERSPECTIVE VIEW
LENGTH: 260 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FRONTVU SIDEVU TOPVU SVIEWP SROTET
GRFNIT INIT2D INIT3N
CAN CALL THE FOLLOWING:
GC3DA SORT. COS. SIN.

SETWZ ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: MOD PICTURE - RESET THE VIRTUAL WINDOW AND PICTURE LIMITS TO EXIS
LENGTH: 136 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MORCVT MOZERS MOZPLS MOSPLT MOSOS
CLRPIC MOBOTH
CAN CALL THE FOLLOWING:
GIZOOM GOTOER.

SET1 ENTRY CLASS: MAIN SEGMENT: (M5)
DESC: SCALING - GET THE DISPLAY SPACE FOR THE MODEL FROM A SUBSTRUCTURE
LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CLRPIC

CAN CALL THE FOLLOWING:

SCALST GETLIM

SHELL ENTRY CLASS: MAIN SEGMENT: (M8141)
DESC: A SHELL SORT INCREASING X AND DECREASING Y
LENGTH: 64 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GETCNT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SIDEVU ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - SET Y-Z PLANE
LENGTH: 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
MORORW SETVU

SINCOS= ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: TRIGONOMETRIC SINE OR COSINE OF X. OPT=ALL.
LENGTH: 66 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
COS. SIN.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYSIST.

SIN. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : SINCOS=
CAN BE CALLED BY:
SROTET SETVU GC30A CNVTOC

SKFL.SQ ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 51 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FORSYS=
CAN CALL THE FOLLOWING:
SKGT.SQ DXIT.SQ ERR.RM

SKGT.SQ ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : GET.SQ
CAN BE CALLED BY:
SKFL.SQ

SORTXY ENTRY CLASS: MAIN SEGMENT: (DE40)
DESC: X-Y PLOTS - SORT X- OR Y- DATA
LENGTH: 75 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SPCHK ENTRY CLASS: MAIN SEGMENT: (0B3)
DESC: (NOT AVAILABLE)
LENGTH: 47 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
IOBFND

SPSBL ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: X-Y PLOTS - SET UP TYPE-IN OF NEW PLOT SYMBOL
LENGTH: 35 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
SPSBL
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT

SPSBL ENTRY CLASS: SECONDARY SEGMENT: (M33)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : SPSBL
CAN BE CALLED BY:
DETABLE

SPSBL ENTRY CLASS: MAIN SEGMENT: (M33)
DESC: X-Y PLOTS - SET UP TYPE-IN OF NEW PLOT SYMBOL
LENGTH: 35 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
SPSBL
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT

SQRT ENTRY CLASS: MAIN SEGMENT: (S0)
DESC: COMPUTE THE SQUARE ROOT OF X. OPT=ALL.
LENGTH: 43 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
SQRT.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYSIST.

SQRT. ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : SQRT
CAN BE CALLED BY:
EQSTR PROOT STEST ARROW IARSET
TMESH2 GWORK SETVU GC30A CNVTOU

SROTET ENTRY CLASS: MAIN SEGMENT: (GL4)
DESC: MOD PICTURE - ROTATE IMAGE FROM HOST
LENGTH: 221 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
MORDRW PUTEQT IDISER SETVU GCMAT
COS. SIN. ICHKED COMPAC

SROTST ENTRY CLASS: MAIN SEGMENT: (GL4)
DESC: MOD PICTURE - PUT CURRENT ROTATION ANGLES AND ASK FOR INCREMENTS
LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT

SSAOFF ENTRY CLASS: MAIN SEGMENT: (DE7)
DESC: DEACTIVATE ACTIVE BEACS ON A LEVEL
LENGTH: 103 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ELNCHK PUTEDT PUTAT IOISER DELETE
ICHECK COMPAC IOBORT ICKATT

SSOFF ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: DEACTIVATE PICKED BEAC
LENGTH: 22 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
DACTS DELETE MBEAD

SSTACT ENTRY CLASS: SECONDARY SEGMENT: (M0)
DESC: SET SUBSTRUCTURES AS THE LEVEL TO WORK ON
SECONDARY ENTRY POINT FOR : STRACT
CAN BE CALLED BY:
DETABLE

STARTA ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : STARTM
CAN BE CALLED BY:
EXSTAR

STARTM ENTRY CLASS: MAIN SEGMENT: (DRIVE)
DESC: START UP THE MENU ON THE SPECIFIED LOCAL FILE NAME
LENGTH: 233 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
STARTA
CAN BE CALLED BY:
EXINIT DEINIT PRINT PPINIT MENNIT
CAN CALL THE FOLLOWING:
EXTABLE DETABLE PRTABLE PPTABLE ERASER
ICCHR PERMFIL IGFTR DMINIT RETURN

STEST ENTRY CLASS: MAIN SEGMENT: (M8140)
DESC: CONTOURING PACKAGE CRITERIA TESTER
LENGTH: 317 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
TMESH3 TMESH2
CAN CALL THE FOLLOWING:
SORT.

STOP. ENTRY CLASS: SECONDARY SEGMENT: (S0)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : FORSYS=
 CAN BE CALLED BY:
 ORIVER EXSTAR GLSTOP

STRACT ENTRY CLASS: MAIN SEGMENT: (M0)
 DESC: SET STRUCTURES AS THE LEVEL TO WORK ON
 LENGTH: 23 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:
 SSTACT ELEFT NODACT
 CAN BE CALLED BY:
 DETABLE
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

SUBJEC ENTRY CLASS: MAIN SEGMENT: (M8132)
 DESC: SET SUBJECT SPACE FOR X-Y PLOT OR CONTOUR PLOT
 LENGTH: 122 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 CNTOR PROCXA SETUPG
 CAN CALL THE FOLLOWING:
 ALOG10.

SVIEWP ENTRY CLASS: MAIN SEGMENT: (GL3)
 DESC: PROCESS VIEW TYPE-IN
 LENGTH: 203 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 MORJRW PUTEOT IDISER SETVU ICHKED
 COMPAC COMPACS

SVIEW ENTRY CLASS: MAIN SEGMENT: (GL3)
 DESC: DISPLAY VIEW TYPE-IN VALUES
 LENGTH: 65 LANGUAGE: FTN
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 GLTABLE
 CAN CALL THE FOLLOWING:
 PUTEOT IBEAUT

SWITCHS ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
 DESC: SAVE ADDRESS OF SUBROUTINE TABLE AND DECISION FUNCTION
 SECONDARY ENTRY POINT FOR : SWITCH
 CAN BE CALLED BY:
 EXTABLE DETABLE PRTABLE PPTABLE GLTABLE
 GLINIT

SWITCH ENTRY CLASS: MAIN SEGMENT: (DRIVE)
 DESC: CALL SUBROUTINE SPECIFIED IN COMMAND TREE
 LENGTH: 20 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 SWITCHS ISWCHD
 CAN BE CALLED BY:


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THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
  SYS1ST. MORGUE.
-----
SYS=1ST  ENTRY CLASS: MAIN          SEGMENT:  (S1)
DESC: MATH LIBRARY LINK TO ERROR MESSAGE PROCESSOR.
LENGTH:  62    LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
  SYS1ST. MORGUE.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
  SYS1D=
-----
SYS=     ENTRY CLASS: SECONDARY    SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : SYS.RM
CAN BE CALLED BY:
  COMPIO  QB.IO.  FORSYS=  ERR.RM  YIELD=
  COPYFL  PERMFL  CLOCK=  REQUEST  RETURN
-----
SYS.RM   ENTRY CLASS: MAIN          SEGMENT:  (S0)
DESC: PROCESS SYSTEM REQUEST.
LENGTH:  40    LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
  SYS=      WNB=      MSG=
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
-----
TABACT   ENTRY CLASS: MAIN          SEGMENT:  (M31)
DESC: X-Y PLOTS - ACTIVATE TABLES FOR X-Y PLOT
LENGTH:  53    LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  IOISER  DEVRT  IDBRIT  ACTIVA  IDBFTY
-----
TABACX   ENTRY CLASS: MAIN          SEGMENT:  (M31)
DESC: X-Y PLOTS - GET TABLE FOR Y-AXIS
LENGTH:  23    LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  TABACY
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  DACTSN  SETCAT
-----
TABACY   ENTRY CLASS: SECONDARY    SEGMENT:  (M31)
DESC: X-Y PLOTS - GET TABLE FOR X-AXIS
SECONDARY ENTRY POINT FOR : TABACX
CAN BE CALLED BY:
  DETABLE
-----
TABDEL   ENTRY CLASS: MAIN          SEGMENT:  (DE42)
DESC: X-Y PLOTS - DELETE CURVE FROM X-Y PLOT
LENGTH:  124   LANGUAGE: FTN

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HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  TABRDR  CLRPIC  GIDELT

TABDM  ENTRY CLASS: MAIN      SEGMENT:  (M31)
DESC:  X-Y PLOTS - PROCESS TYPE-IN FOR PART OF TABLE TO PLOT
LENGTH: 107  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  PUTEOT  IUISER  ICHKED  COMPAC

TABIND  ENTRY CLASS: MAIN      SEGMENT:  (DE41)
DESC:  X-Y PLOTS - USE INDEX OF TABLE ON AXIS
LENGTH: 16  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE  TABVAL
CAN CALL THE FOLLOWING:
  PROCXA  PROCYA

TABLIN  ENTRY CLASS: MAIN      SEGMENT:  (DE41)
DESC:  X-Y PLOTS - PROCESS PICK OF CURVE ON X-Y PLOT
LENGTH: 20  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

TABPEN  ENTRY CLASS: MAIN      SEGMENT:  (G12)
DESC:  X-Y PLOTS - ACTIVATE LINES ON GRAPH FOR PICK
LENGTH: 10  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  ONPENA

TABPRC  ENTRY CLASS: MAIN      SEGMENT:  (M31)
DESC:  X-Y PLOTS - PROCESS TABLE NAME AND DISPLAY DIMENSIONALITY OF TABL
LENGTH: 147  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  PUTEOT  DACTS  IUISER  SETCAT  IBEAUT
  MBEAD  IDBROW  IDBCOL  IDBOEP  IOBNDM

TABRDR  ENTRY CLASS: SECONDARY  SEGMENT:  (DE40)
DESC:  X-Y PLOTS - REDRAW ONE LINE ON GRAPH
SECONDARY ENTRY POINT FOR : PROCXA
CAN BE CALLED BY:
  DETABLE  TABDEL

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TABSCY  ENTRY CLASS: MAIN          SEGMENT: (M31)
DESC: X-Y PLOTS - PROCESS SCALE/OFFSET TYPE-IN
LENGTH: 56  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  PUTEOT  IDISER  ICHKED  COMPAC

TABSCX  ENTRY CLASS: MAIN          SEGMENT: (M31)
DESC: X-Y PLOTS - PUT UP CURRENT LINE SCALE/OFFSET (X-AXIS)
LENGTH: 53  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  TABSCY
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  PUTEOT  IBEAUT

TABSCY  ENTRY CLASS: SECONDARY     SEGMENT: (M31)
DESC: X-Y PLOTS - PUT UP CURRENT LINE SCALE/OFFSET (Y-AXIS)
SECONDARY ENTRY POINT FOR : TABSCX
CAN BE CALLED BY:
  DETABLE

TABVAL  ENTRY CLASS: MAIN          SEGMENT: (DE41)
DESC: X-Y PLOTS - USE VALUE OF TABLE ON AXIS
LENGTH: 15  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DETABLE
CAN CALL THE FOLLOWING:
  TABIND

TABXD   ENTRY CLASS: SECONDARY     SEGMENT: (M31)
DESC: X-Y PLOTS - SORT X DECREASING
SECONDARY ENTRY POINT FOR : TABXI
CAN BE CALLED BY:
  DETABLE

TABXI   ENTRY CLASS: MAIN          SEGMENT: (M31)
DESC: X-Y PLOTS - SORT X INCREASING
LENGTH: 37  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  TABYI  TABXD  TABYC  TABXN  TABYN
CAN BE CALLED BY:
  DETABLE
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

TABXN   ENTRY CLASS: SECONDARY     SEGMENT: (M31)
DESC: X-Y PLOTS - DO NOT SORT X
SECONDARY ENTRY POINT FOR : TABXI
CAN BE CALLED BY:
  DETABLE

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TABXYM ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: X-Y PLOTS - PUT UP CURRENT MINS AND MAXES FOR X-Y PLOT
LENGTH: 44 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT

TABXYP ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: X-Y PLOTS - PROCESS TYPE-IN OF NEW MINS AND MAXES
LENGTH: 73 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTEDT IOISER ICHKED COMPAC COMPACS

TABYO ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: X-Y PLOTS - SORT Y DECREASING
SECONDARY ENTRY POINT FOR : TABXI
CAN BE CALLED BY:
DETABLE

TABYI ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: X-Y PLOTS - SORT Y INCREASING
SECONDARY ENTRY POINT FOR : TABXI
CAN BE CALLED BY:
DETABLE

TABYN ENTRY CLASS: SECONDARY SEGMENT: (M31)
DESC: X-Y PLOTS - DO NOT SORT Y
SECONDARY ENTRY POINT FOR : TABXI
CAN BE CALLED BY:
DETABLE

TIME ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: RETURN CURRENT CLOCK TIME
SECONDARY ENTRY POINT FOR : CLOCK=
CAN BE CALLED BY:
EXSTAR

TITLEG ENTRY CLASS: MAIN SEGMENT: (M811)
DESC: CREATE TITLE FOR X-Y PLOT OR CONTOUR PLOT
LENGTH: 252 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA
CAN CALL THE FOLLOWING:
LEGNDG SETSMG

TMESH2 ENTRY CLASS: MAIN SEGMENT: (M8142)
DESC: CONTOUR - CREATE TRIANGULAR MESH OVER CONVEX HULL
LENGTH: 1057 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

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CNTOR
CAN CALL THE FOLLOWING:
LTEST STEST PUTLIN SORT.
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TMESH3 ENTRY CLASS: MAIN SEGMENT: (M8141)
DESC: CONTOUR - ITERATIVELY IMPROVE TRIANGULATION
LENGTH: 64 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNTOR
CAN CALL THE FOLLOWING:
STEST
-----
TOPVU ENTRY CLASS: MAIN SEGMENT: (GL3)
DESC: MOD PICTURE - SET X-Z PLANE
LENGTH: 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
MORDRW SETVU
-----
TRIORD ENTRY CLASS: MAIN SEGMENT: (M8141)
DESC: CONTOUR - REORDER THE LINE INDICES
LENGTH: 41 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNTOR
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
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TRKOFF ENTRY CLASS: MAIN SEGMENT: (G11)
DESC: TURN OFF TRACKING SYMBOL (CROSSHAIRS)
LENGTH: 30 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLINIT CLROUT MXYP
CAN CALL THE FOLLOWING:
GITRAK
-----
TYPNAM ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: PUT UP NAMES FOR PICKING
LENGTH: 264 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
TYPVAL
CAN BE CALLED BY:
ERDOWN EPUTON ERASER DACTSN PUTNAM
CAN CALL THE FOLLOWING:
PAGER GISU&F GITEM GIDELT SETCAT
GUTEXT GUSFTP IOINF ICCHR IBEAUT
IDBTYP IOBNAM
-----
TYPVAL ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: DISPLAY THE ALPHANUMERIC STRING IN #NAMES#
SECONDARY ENTRY POINT FOR : TYPNAM
CAN BE CALLED BY:
DISPLB ELNAM LIBIN ATTLST ERASER
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UNPACK  ENTRY CLASS: MAIN      SEGMENT: (S0)
DESC: GET NEXT CHARACTER FOR #IBEAUT#
LENGTH: 23      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    EXECC  IPFUT  ICRACK
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

UTORAS  ENTRY CLASS: MAIN      SEGMENT: (S0)
DESC: SCALING - CONVERT USER UNITS TO RASTERS
LENGTH: 212    LANGUAGE: FTN
SECONDARY ENTRY POINTS:
    UTORAT
CAN BE CALLED BY:
    MOAXES  DRELN  MXYI  METAZZ  LINZZ
    IORWEL  IDRWD  IDRWT  ARROW
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

UTORAT  ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC: SCALING - GET X,Y,Z FROM PARAMETER LIST RATHER THEN COMMON BLOCK
SECONDARY ENTRY POINT FOR : UTORAS
CAN BE CALLED BY:
    MOLAX

WAR.SQ  ENTRY CLASS: MAIN      SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 260    LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
    PUT.SQ  WEOX.SQ
CAN CALL THE FOLLOWING:
    RM.CIO  RM.RCLA  RLEQ.RM

WEOP.SQ ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : WEOX.SQ
CAN BE CALLED BY:
    PUT.SQ

WEOS.SQ ENTRY CLASS: SECONDARY  SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR : WEOX.SQ
CAN BE CALLED BY:
    SYSTEM

WEOX.SQ ENTRY CLASS: MAIN      SEGMENT: (S0)
DESC: (NOT AVAILABLE)
LENGTH: 144    LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
    WEOP.SQ  WEOS.SQ
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
    ERR.RM  RM.CIO  WAR.SQ

WNB=    ENTRY CLASS: SECONDARY  SEGMENT: (S0)

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DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : SYS.RM
 CAN BE CALLED BY:
 GET.SQ PUT.SQ

WRITER ENTRY CLASS: MAIN SEGMENT: (DB1)
 DESC: (NOT AVAILABLE)
 LENGTH: 11 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMINIT
 CAN CALL THE FOLLOWING:
 CPC

WRITE ENTRY CLASS: MAIN SEGMENT: (DB0)
 DESC: (NOT AVAILABLE)
 LENGTH: 6 LANGUAGE: COMPASS
 HAS NO SECONDARY ENTRY POINTS
 CAN BE CALLED BY:
 DMWRITE
 CAN CALL THE FOLLOWING:
 CPC

XTOI= ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: REAL TO INTEGER EXPONENTIATION.
 LENGTH: 10 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 XTOI.
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

XTOI. ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : XTOI=
 CAN BE CALLED BY:
 GRIDG LABELG

XTOY= ENTRY CLASS: MAIN SEGMENT: (S1)
 DESC: REAL TO REAL EXPONENTIATION.
 LENGTH: 7 LANGUAGE: COMPASS
 SECONDARY ENTRY POINTS:
 XTOY.
 THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
 CAN CALL THE FOLLOWING:
 ALOG. EXP.

XTOY. ENTRY CLASS: SECONDARY SEGMENT: (S1)
 DESC: (NOT AVAILABLE)
 SECONDARY ENTRY POINT FOR : XTOY=
 CAN BE CALLED BY:
 SETSMG

XYERAS ENTRY CLASS: MAIN SEGMENT: (M5)
 DESC: X-Y PLOTS - ERASE BUT NO DEACTIVATE
 LENGTH: 52 LANGUAGE: FTN
 SECONDARY ENTRY POINTS:

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XYRET1  XYRET
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
CLR PIC

XYRET1  ENTRY CLASS: SECONDARY  SEGMENT:  (M5)
DESC: X-Y PLOTS - ERASE AND DEACTIVATE, RETURN TO ACTIVATE-AND-DRAW MOD
SECONDARY ENTRY POINT FOR : XYERAS
CAN BE CALLED BY:
DETABLE

XYRET   ENTRY CLASS: SECONDARY  SEGMENT:  (M5)
DESC: X-Y PLOTS - ERASE AND DEACTIVATE, STAY IN NO DRAW MODE
SECONDARY ENTRY POINT FOR : XYERAS
CAN BE CALLED BY:
DETABLE.

YIELD1= ENTRY CLASS: MAIN        SEGMENT:  (S1)
DESC: FORTRAN CALLABLE 1-CALL PROGRAM PREEMPT
LENGTH: 13  LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
IYIELD1
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
IYIELDE IYIELDS IYIELD

YIELD=  ENTRY CLASS: MAIN        SEGMENT:  (S1)
DESC: (NOT AVAILABLE)
LENGTH: 437  LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
IYIELDE IYIELDS IYIELD
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
CLSF.RM OPEN.RM SYS=  MSG=

Z.SQ   ENTRY CLASS: MAIN        SEGMENT:  (S0)
DESC: (NOT AVAILABLE)
LENGTH: 101  LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
GET.Z
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
EXIT.SQ

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