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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### Structural Analysis via Generalized Interactive Graphics - Staging

**Volume IV: Appendices to System Manual**

**Abstract**

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.
FOREWORD

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. Grooms (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, Messrs. 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 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:
Kevin Cadmus was a major contributor to the preparation of this volume.

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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)

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=*,XR=*,PW=*,RP=999)
ELSE(L1)
CATALOG(*LFN,$_PFN1_PFN2_PFN3_PFN4_*,ID=*,XR=*,PW=*,RP=999)
ENDIF(L1)
REVERT.
EXIT(S)
IFC(EQ,*PFN1,,L3)
BEGIN,P,*FILE,*LFN,ID=*
CATALOG(*LFN,ID=*,XR=*,PW=*,RP=999)
ELSE(L3)
BEGIN,P,*FILE,*PFN1,*PFN2,*PFN3,*PFN4,ID=*
CATALOG(*LFN,$_PFN1_PFN2_PFN3_PFN4_*,ID=*,XR=*,PW=*,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,PFN1PFN2PFN3PFN4,ID=*,XR=*,PW=*,RP=999)
REVERT.
EXIT(S)
RETURN(JUNK)
PURGE(JUNK,PFN1PFN2PFN3PFN4,ID=*,PW=*,LC=1)
RETURN(JUNK)
CATALOG(LFN,PFN1PFN2PFN3PFN4,ID=*,XR=*,PW=*,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)
  ENDF(L1)
  REVERT.

---

Figure A-3. Procedure R
PROCIFIL 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.
COPYBP(#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 MUNENEW
.EOR

Figure A-5. Procedure MENUGENABS
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,NEWCOMPIO,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,NEWCOMPIO,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
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.`

PROCFL VERSION

`.PROC,MENUGEN,PREFIX=EXEC.
/* CREATE NEW MENUS FOR NEW COMMAND TREE */
RETURN(TAPE9,TAPE31,TAPE32)
BEGIN,R,PROCFL,MENUS.
BEGIN,R,PROCFL,TAPE10.
BEGIN,A,PROCFL,MENG,MENUGENABS.
BEGIN,A,PROCFL,TAPE5,PREFIX,MENU,SOURCE.
MENG(PL=7777777)
BEGIN,C,PROCFL,TAPE10,PREFIX,MENUDRIVER.
BEGIN,C,PROCFL,MENUS,PREFIX,MENU.
SKIP(L1)
EXIT(S)
ENDIFCL1)
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,PST,MENUDRIVER. 
UPDATE(Q,I=IN,L=0) 
FTN(I,Z,R=3,B=TABLE,S=0) 
BEGIN,A,*FILE,IN,DISP,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)
*REGENERATE THE TABLE OF MENU DRIVERS*

BEGIN, A, PROCFIL, OLDPL, STAGINGPL.
BEGIN, R, PROCFIL, TABLE.
BEGIN, A, PROCFIL, IN, GLOBAL, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
FTN(I, Z, L=TABLIST, R=3, B=TABLE, S=0)
BEGIN, A, PROCFIL, IN, EXEC, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
FTN(I, Z, L=TABLIST, R=3, B=TABLE, S=0)
BEGIN, A, PROCFIL, IN, DISPLAY, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
FTN(I, Z, L=TABLIST, R=3, B=TABLE, S=0)
BEGIN, A, PROCFIL, IN, EXEC, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
FTN(I, Z, L=TABLIST, R=3, B=TABLE, S=0)
BEGIN, A, PROCFIL, IN, PRE, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
FTN(I, Z, L=TABLIST, R=3, B=TABLE, S=0)
BEGIN, A, PROCFIL, IN, POST, MENUDRIVER.
UPDATE(Q, I=IN, L=O)
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)
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.

PROCFLIL VERSION

.PROC,MPDBNEW.

.* RECONSTRUCT STAGING MATERIAL PROPERTIES DATA BASE
.*
BEGIN,R,PROCFLIL,MATER.
BEGIN,A,PROCFLIL,ABS,MPDBNEWABS.
ABS.
BEGIN,C,PROCFLIL,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=SCPTEXT,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
*ID WPAFB2
*ID WPAFB3
*ID PERMFIL.717,721
*ID PERMFIL.724
SA2 LSD GET LEFT SHIFTED ACCOUNT AND
LX2 48 FLOP IT OVER FOR WPAFB
B6 X1+X2
*ID PERMFIL.772,774
*ID PERMFIL.699
*ID PERMFIL.416
*ID PERMFIL.359
EQ AC=ID DONT BOther WITH ACCOUNT CHECK
*ID 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)
ENDIR(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,LIP.
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,LIP,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, WPMODS|BIN.
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)
NOS.
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)
Figure A-1A. 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)
Figure A-15B. Procedure XGPRIME (PROCFL Version)
UPDATE('PREFIX=STAGING')
/*
 * STAGING SYSTEM MAINTENANCE PROCEDURE
 */
/*
 * VALID PREFIXES: STAGING
 * INTERTEK
 * DATABASE
 * CONVERSION
 * PERMFILE
 * RECOVERY
 * XIGRAPH
 * 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=SCPTEXT)
COPYL(BINOLD,BIN,BINNEW,,RA)
BEGIN,C,*FILE,NEWPL,*PREFIX,PL.
BEGIN,C,*FILE,BINNEW,*PREFIX,BIN.
COPYB(*DATA,EMPTY)
BEGIN,C,*FILE,EMPTY,*PREFIX,IN.
RETURN(BINOLD,BIN,BINNEW,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 PSOLVE
 */
SKIP(1)
EXIT(S)
"EVERT.
"DATA
"ID NEW
"EON

Figure A-16A. Procedure Update (PROFIL Version)
PROC, UPDATE, PREFIX=STAGING.
* STAGING SYSTEM MAINTENANCE PROCEDURE
* VALID PREFIXES: STAGING
  * INTERTEK
  * DATABASE
  * CONVERSION
  * PERMFILE
  * RECOVERY
  * XYGRAPH
  * MENUMEN
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, BINNER.
BEGIN, S, PROCFIL, EMPTY.
UPDATE (TO IN, O LISTING)
RETURN (BIN)
BEGIN (IN, I LISTING), R=3, B=BIN, S=SCPTEXT)
COPYL (BINOLD, BIN, BINNEW, RA)
BEGIN, C, PROCFIL, NEWPL, PREFIX, PL.
BEGIN, C, PROCFIL, BINNER, PREFIX, BIN.
COPYBP (#DATA, EMPTY)
BEGIN, C, PROCFIL, EMPTY, PREFIX, IN.
RETURN (BINOLD, BIN, BINNER, 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)
PROCIFIL VERSION

.PROC,NEWLIB,PREFIX=STAGING.

. ** CREATE NEW STAGING OR INTERTEK LIBRARY

. BEGIN,R,PROCIFIL,LIB.
BEGIN,A,PROCIFIL,BIN,PREFIX,BIN.
EDITLIB(I=#DATA,L=0)
BEGIN,C,PROCIFIL,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

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 PTRABLE
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 CNIDE
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 SWITCH
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  IDENT-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
Figure 8-3. 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 CNTER
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 IDRNXT
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 DEO-(DE1,DE2,DE3,DE4,DE5,DE7,DE9)

DEO INCLUDE IDEDEC
DEO INCLUDE ICKRNG
DEO INCLUDE ALLOON
DEO INCLUDE ALLOFF
DEO INCLUDE ASUBS
DEO INCLUDE IECPRC
DEO GLOBAL IGSIGS-SAVE

DE1 INCLUDE DZUST
DE1 INCLUDE PTYPEPSV
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 EONRD

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 DYDRE
DE3 INCLUDE DYLOAD
DE3 INCLUDE DYSFPFU
DE3 INCLUDE DYSSTP
DE3 INCLUDE DYNDE
DE3 INCLUDE ICKSL
DE3 INCLUDE ATTLST
DE3 INCLUDE ATTPRC
DE3 INCLUDE ATTREN
DE3 INCLUDE ATTHNG
DE3 INCLUDE ATTRNP
DE3 INCLUDE LANODE
DE3 INCLUDE LFNODE
DE3 INCLUDE NODON
DE3 INCLUDE NODAEL
DE3 INCLUDE NODFEL
DE3 INCLUDE LFNODE

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 ECREAD
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 CNTROR
DE9 INCLUDE CNTPRE
DE9 INCLUDE CNTRINT
DE9 INCLUDE CNTRIL
DE9 INCLUDE CNTRIT2
DE9 INCLUDE GETCNT

Figure B-3. Application Routines Level (Cont'd)
LEVEL
MISC 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 IENEXT
M1  GLOBAL IENX-SAVE

M3  TREE M30-(M31,M32,M33)

M30 INCLUDE TYPNAM
M30 INCLUDE PAGER
M30 INCLUDE ERASER
M30 INCLUDE IFICK
M30 INCLUDE FUTEDT
M30 INCLUDE SELATT
M30 INCLUDE GLTOP

M31 INCLUDE TABACT
M31 INCLUDE TABACTX
M31 INCLUDE TABBRC
M31 INCLUDE TABXYP
M31 INCLUDE TABXYM
M31 INCLUDE TABSCLX
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 IPRMT
M32 INCLUDE IREAD
M32 INCLUDE MENNIT
M32 INCLUDE INDATA
M32 GLOBAL INPUT-SAVE

Figure B-4. Miscellaneous Level
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 IDRWMAT
M820 INCLUDE DRWACT
M820 INCLUDE GETCSS
M820 INCLUDE GETCEN
M820 INCLUDE GETCOR
M820 INCLUDE EQUEUP
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)
Figure B-5. Graphics Routine Level
Figure B-5. Graphics Routine Level (Cont'd)
Figure B-6. System and Data Handler Level
Figure B-6. System and Data Handler Level (Cont'd)
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:

```
SINOS = ENTRY CLASS: MAIN SEGMENT: (S0)
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: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: SINCOS =
CAN BE CALLED BY:
  SROETET SETVU GC3DA CNVTOC
```
ABNORM.  ENTRY CLASS: SECONDARY SEGMENT: (S0) DESC: (NOT AVAILABLE) SECONDARY ENTRY POINT FOR 1 FORSYS= CAN BE CALLED BY:
GOTOER=

AB1.  ENTRY CLASS: SECONDARY SEGMENT: (S0) DESC: (NOT AVAILABLE) SECONDARY ENTRY POINT FOR 1 FORSYS= CAN BE CALLED BY:
08.10.  STOP 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 1 ACOSIN= CAN BE CALLED BY:
G03DA  GAVTOU

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:
DETAILS  PROCXA
CAN CALL THE FOLLOWING:
SELATC

ACTIVA  ENTRY CLASS: MAIN SEGMENT: (D02) DESC: ACTIVATE BEAD FOR DISPLAY LENGTH: 141 LANGUAGE: FTN NO SECONDARY ENTRY POINTS CAN BE CALLED BY:
BOSTR  FIXCAT  ASUB4  ALON  ASUS
RNGD4W  NOAEL  NOUFEI  LFNOD  ECPROC
ASERCH  TAGACT
CAN CALL THE FOLLOWING:
DBIO  DDFLF  DBORT  DB0AC  I08DLF
ICKACT

ALLOFF  ENTRY CLASS: MAIN SEGMENT: (D00) DESC: DELETE AND DEACTIVATE ALL BEADS ON A LEVEL LENGTH: 24 LANGUAGE: FTN NO SECONDARY ENTRY POINTS CAN BE CALLED BY:
DETAILS

CAN CALL THE FOLLOWING:
DELETE

ALLON
ENTRY CLASS: MAIN
SEGMENT: (DEO)
DESI: ACTIVATE ALL BEADS ON A LEVEL
LENGTH: 112
LANGUAGE: FTH
SECONDARY ENTRY POINTS:
ALLON
CAN BE CALLED BY:
DETAILS
CAN CALL THE FOLLOWING:

IDM: IDISER, ACTIVA, NEXTIN, NEXTB

ALLON
ENTRY CLASS: SECONDARY
SEGMENT: (DEO)
DESI: ACTIVATE ALL NODES OR ELEMENTS IN ACTIVE SUBSTRUCTURES ONLY
SECONDARY ENTRY POINT FOR ALLON
CAN BE CALLED BY:
DETAILS

ALOG10.
ENTRY CLASS: SECONDARY
SEGMENT: (S1)
DESI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR ALOG
CAN BE CALLED BY:
SCALZ, SETSMG, SETUPG, LABELG OBJCG
SUBJEG

ALOG
ENTRY CLASS: MAIN
SEGMENT: (S1)
DESI: 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)
DESI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR ALOG
CAN BE CALLED BY:
XTY:

AMAC.SQ
ENTRY CLASS: SECONDARY
SEGMENT: (S0)
DESI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR GET.SQ
CAN BE CALLED BY:
BRT.SQ, FSU.SQ

ANBL.SQ
ENTRY CLASS: SECONDARY
SEGMENT: (S0)
DESI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR GET.SQ
CAN BE CALLED BY:
BRT.SQ

ARROW
ENTRY CLASS: MAIN
SEGMENT: (MB22)
DESI: DRAW AN ARROW ALONG WITH ANY OF THE COORDINATE AXES
LENGTH: 362 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS

ASERCH ENTRY CLAS: SECONDARY SEGMENTS (DE7)
DESCRIBE SEARCH FOR ALL HEADS ON A LEVEL WITH SPECIFIED ATTRIBUTES
SECONDARY ENTRY POINT FOR 1 ASERCH
CAN BE CALLED 3Y1

ASERCH ENTRY CLAS: MAIN SEGMENTS (DE7)
DESCRIBE SEARCH FOR ALL HEADS IN ACTIVE SUBSTRUCTURES BY ATTRIBUTE
LENGTH: 106 LANGUAGE: FTN
SECONDARY ENTRY POINTS
ASERCH CAN BE CALLED 3Y1

ASERCH CAN CALL THE FOLLOWING:
DESC: PUTEDT PUTEDT IORM IDISER
IDMEKED COMPAC ACTIVA NEXTIN NEXTB
ICKATT

ASUB5 ENTRY CLASS: MAIN SEGMENTS (DE0)
DESC: ACTIVATE STRUCTURES OR SUBSTRUCTURES BY NAME
LENGTH: 22 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED 3Y1

ASUB5 CAN CALL THE FOLLOWING:
PUTNM MBEAD ACTIVA

ASUB4 ENTRY CLASS: MAIN SEGMENTS (PRM1)
DESC: PROCESS SUBSTRUCTURE PICKS FOR MATERIAL PROPERTY GENERATION
LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED 3Y1

ASUB4 CAN CALL THE FOLLOWING:
DESC: PUTNM ORWSS MBEAD ACTIVA

ASUB5 ENTRY CLASS: MAIN SEGMENTS (PRM1)
DESC: PROCESS ELEMENT PICKS FOR MATERIAL PROPERTY GENERATION
LENGTH: 41 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED 3Y1

ASUB5 CAN CALL THE FOLLOWING:
MBEAD

ASUB7S ENTRY CLASS: SECONDARY SEGMENTS (PRM1)
DESC: SET FLAG TO INDICATE THAT MP TO BE DEFINED FOR ALL ELEMENTS
SECONDARY ENTRY POINT FOR 1 ASUB7S
CAN BE CALLED 3Y1
Table:

<table>
<thead>
<tr>
<th>Entry Class</th>
<th>Segment Type</th>
<th>Description</th>
<th>Length</th>
<th>Language</th>
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</thead>
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<td>ASU37</td>
<td>MAIN SEGMENT (PRM1)</td>
<td>Process defect type for material property generation</td>
<td>41</td>
<td>FTN</td>
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<td></td>
<td>Secondary entry points:</td>
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<td>ASU37 can be called by:</td>
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<td>CAN CALL THE FOLLOWING:</td>
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<td>ATAN2 ENTRY CLASS:</td>
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<td>SECONDARY SEGMENT:</td>
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<td>DESCRIPTION:</td>
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<td>RATIO OF Y TO X, OPT = ALL</td>
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<td></td>
<td>LENGTH: 75</td>
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<td>LANGUAGE: COMPASS</td>
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<td>Secondary entry points:</td>
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<td></td>
<td></td>
<td>ATAN2: THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS</td>
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<td>CAN CALL THE FOLLOWING:</td>
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<td>SYSAD.</td>
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<td>DESCRIPTION:</td>
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<td>ATAN2 (NOT AVAILABLE)</td>
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<td>ATAN2 can be called by:</td>
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<td>GC3DA CNVTOU</td>
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<td>ATTLSC ENTRY CLASS:</td>
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<td>SECONDARY SEGMENT:</td>
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<td></td>
<td>DESCRIPTION:</td>
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<td></td>
<td></td>
<td>CHECK TO SEE IF MORE ATTRIBUTE NAMES ARE TO BE DISPLAYED</td>
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<td>SECONDARY ENTRY POINT FOR:</td>
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<td>ATTLST can be called by:</td>
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<td>ATTPRC</td>
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<td>MAIN SEGMENT:</td>
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<td>DISPLAY ATTRIBUTE NAMES FOR THIS DATA BASE LEVEL</td>
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<td>LENGTH: 7C</td>
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<td>LANGUAGE: FTN</td>
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<td>Secondary entry points:</td>
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<td>ATTLSC can be called by:</td>
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<td>DETABLE</td>
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<td>CAN CALL THE FOLLOWING:</td>
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<td>TYPVAL SEICAT</td>
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<td>ATTOFF ENTRY CLASS:</td>
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<td>SECONDARY SEGMENT:</td>
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<td>DESCRIPTION:</td>
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<td>TURN OFF ATTRIBUTE DISPLAY</td>
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<td>SECONDARY ENTRY POINT FOR:</td>
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<td>ACTATT can be called by:</td>
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<td>ATTPRC ENTRY CLASS:</td>
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<td>MAIN SEGMENT:</td>
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<td>DESCRIPTION:</td>
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<td>PROCESS ATTRIBUTE PICK</td>
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<td>LENGTH: 35</td>
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<td>LANGUAGE: FTN</td>
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<td>HAS NO SECONDARY ENTRY POINTS</td>
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<td>CAN BE CALLED BY:</td>
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<td>CAN CALL THE FOLLOWING:</td>
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</table>
ATTREC ENTRY CLASS: SECONDARY SEGMENTI (DE3)
DESC: CHECK TO LET IF MORE ATTRIBUTES ARE TO BE PUT UP FOR RENAME
SECONDARY ENTRY POINT FOR ATTREN
CAN BE CALLED BY: ATTREN

ATTREN ENTRY CLASS: MAIN SEGMENTI (DE3)
DESC: (NOT AVAILABLE)
LENGTH: 127 LANGUAGE: FTN
SECONDARY ENTRY POINTS!
ATTREC CAN BE CALLED BY:
DETAILS
CAN CALL THE FOLLOWING:
PUTOUT IBEAUT

ATTRNG ENTRY CLASS: MAIN SEGMENTI (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:
DETAILS
CAN CALL THE FOLLOWING:
PUTOUT IBEAUT ICHKED COMPAC

ATTRNP ENTRY CLASS: MAIN SEGMENTI (DE3)
DESC: PROCESS TYPE-IN FOR ATTRIBUTE RENAME
LENGTH: 59 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAILS
CAN CALL THE FOLLOWING:
ATTREC ICHKED COMPAC

ATT ENTRY CLASS: MAIN SEGMENTI (BL1)
DESC: INITIALIZE MODEL DATA BASE DATA MANAGER CONSTANTS
LENGTH: 1 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ATT
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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

BDSRT ENTRY CLASS: MAIN SEGMENTI (PR2)
DESC: INITIALIZE NODE STRING PICKING IN DRAFTING
LENGTH: 115  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
    CNTY3D
CAN BE CALLED BY:
PRTABLE
CAN CALL THE FOLLOWING:
    SETLN  SETNO  ID%NXT  CNELM  IDRM
     ONPEN  MHEAD  ACTIVA  OBCHA  ONUP
     ORDNT

ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I FORUTL=
CAN BE CALLED BY:
FORSYS=

ENTRY CLASS: MAIN SEGMENT: (SL1)
DESC: BRING SEGMENT BL1 COMMON BLOCKS INTO CORE
LENGTH:  5  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
     DRIVER  GLOINT  CNTOR
THS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ENTRY CLASS: MAIN SEGMENT: (SL2)
DESC: BRING SEGMENT BL2 COMMON BLOCKS INTO CORE
LENGTH:  4  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
     CNTOR
THS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: (NOT AVAILABLE)
LENGTH: 114  LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
     PUTG
THS ENTRY IS NOT INVOKE BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
     ANGLSO  AMACSO  RMRCCLA

ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I FORUTL=
CAN BE CALLED BY:
FORSYS=

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:
     PUTCNT  INEAUT
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:
PRTAJE
CAN CALL THE FOLLOWING:
GRID
GIDEOT
GOTOER
ICHKED
COMPAC

CHWR.SQ
ENTRY CLASS: MAIN
SEGMENT: (SO)
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: (SO)
DESC: (NOT AVAILABLE)
LENGTH: 40
LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
RM.CIO
RM.CLAL
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:
IDPRT
CNELEM
CNNODE
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: (OB1)
DESC: CLOSE DATA HANDLE, FILE
LENGTH: 4
LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OMFSH
CAN CALL THE FOLLOWING:
 CPC

CLRFETR
ENTRY CLASS: SECONDARY
SEGMENT: (OB1)
DESC: DATA HANDLER FET ROUTINE
SECONDARY ENTRY POINT FOR: SETFETR
CAN BE CALLED BY:
OMFSH
OMINI
CLRLIB
ENTRY CLASS: SECONDARY SEGMENTS (PRM2)
DESC: RESET MATERIAL PROPERTY DATA BASE SCREEN OPTIONS
SECONDARY ENTRY POINT FOR I LIBINS
CAN BE CALLED BY: PRTABLE

CLROUT
ENTRY CLASS: MAIN SEGMENTS (PR2)
DESC: SAVE DRAFTING DATA BASE
LENGTH: 42 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY: PRTABLE
CAN CALL THE FOLLOWING:
GIELT TAKOFF DZSAVE RETURN

CLRPIC
ENTRY CLASS: MAIN SEGMENTS (M5)
DESC: (NOT AVAILABLE)
LENGTH: 142 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY: PRTABLE
CAN CALL THE FOLLOWING:
TABLE INTSUB DZASK NXSA INITXY
TABDEL INIT2D INIT3N XYERAS

CLSF-RM
ENTRY CLASS: MAIN SEGMENTS (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 SEGMENTS (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 INVOK ANY OTHER PROGRAMS

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

CLSV-SC
ENTRY CLASS: MAIN SEGMENTS (S0)
DESC: (NOT AVAILABLE)
LENGTH: 125 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS

51
CAN CALL THE FOLLOWING:
RSPT.SJ  RPACIO

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

CNELEM  ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: CONVERSION(1) - CREATE ELEMENT HEAD
LENGTH: 240  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

DRAWFR  CAN CALL THE FOLLOWING:
ICPRT  CLSFR  CNELEM  IDBRSV  DBRITE
CHEFr  DSET

CNELEM  ENTRY CLASS: MAIN SEGMENT: (M1)
DESC: LOOK AT ATTRIBUTE TYPES
LENGTH: 36  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
POST: FIXCAT  CNELEM  ASUB7  ELINCHK
THIS PROGRAM DOES NOT INVOKe ANY OTHER PROGRAMS

CNELEM  ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: INITIALIZE DUMMY DRAFTING DATA BASE
LENGTH: 114  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

DRAWFR  CAN CALL THE FOLLOWING:
REQUEST  DMGTHO  IFATT  ISACT  IDBRSV
DMNIT  RETURN

CNMODF  ENTRY CLASS: MAIN SEGMENT: (PR11)
DESC: CONVERSION(1) - CREATE NODE BEAD
LENGTH: 122  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

DRAWFR  CAN CALL THE FOLLOWING:
CLEAS2  GETCOR  DMESET  IDBRSV

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:
CNETEM  CNFR
THIS PROGRAM DOES NOT INVOKe ANY OTHER PROGRAMS

52
CNTABL
ENTRY CLASS: MAIN
SEGMENT (PRM0)
DESC: CONVERSION(1) - CREATE TABLE
LENGTH: 362
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MATIN LIBINS
CAN CALL THE FOLLOWING:
PUTLIN IGFN0 OMSET IDBRSV ORIT
DBLEFT IDQLEFT

CNTERM
ENTRY CLASS: MAIN
SEGMENT (PR12)
DESC: CONVERSION(1) - TERMINATION
LENGTH: 762
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRAWFR
CAN CALL THE FOLLOWING:
CNRER CANSDTK RECTERT EDIT1 IDBFND
OMPLD ORIT DBLEFT ODUNN ODBNP
IDGBIT IDQLEFT ODUNN IDDBNP IDGBET
DBLPK DBQPI IDBACB DBARR

CINTER
ENTRY CLASS: MAIN
SEGMENT (PP12)
DESC: CONVERSION(1) - SET UP- AND DOWN-POINTERS
LENGTH: 223
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNTERM
CAN CALL THE FOLLOWING:
CNSDT 1GIFND ODUNN ODBNP IDGBIT
IDDBNP IODBAM DBUIT

CINTIT
ENTRY CLASS: MAIN
SEGMENT (QFI4)
DESC: CONTOUR - INITIALIZE CONTOUR VALUES
LENGTH: 61
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
RSETMG GCXMIN GCYMIN GCYMAX

CINTIL
ENTRY CLASS: MAIN
SEGMENT (QF9)
DESC: GET TYPE- IN FOR CONTOUR PLOT TITLE
LENGTH: 34
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUNETD

CINTIT2
ENTRY CLASS: MAIN
SEGMENT (QF9)
DESC: PROCESS TYPE- IN FOR CONTOUR PLOT TITLE
LENGTH: 14
LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
DESI: MAKE TYPE-IN VALUES CONTIGUOUS
LENGTH: 410 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
COMPAC HAS BEEN CALLED BY:
M3URH SWITPD SROLET CHNCP2 GETRAG
IELAC FTMPV RNGCEI RNGDRH PTYPE
FLEHUN LELPPF ECOME DYSFPU DYSSTP
SAITR, ALTIPD ERNOLD EATS ESERCH
ASETH SWAFFF CNTPRE TABXYP TABSCL
TALOM PRIFAC
THIS PROGRAM DOES NOT INVOKF ANY OTHER PROGRAMS

CONPHD ENTRY CLASS: MAIN SEGMENT: (G0)
DESCI: ENTRY POINT = DETERMINE CONVEX HULL OF POINTS TO BE CONTORVED
LENGTH: 1471 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GINIT GERA GE FLUSH GLAMRH GODRAW
GOWORK GOLIRM GIBUTH GCINPC GIDFON
CAN CALL THE FOLLOWING:
SYS= MSG=

CONHUL ENTRY CLASS: MAIN SEGMENT: (M8141)
DESCI: CONTOUR - DETERMINE CONVEX HULL OF POINTS TO BE CONTORVED
LENGTH: 155 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CANT
CAN CALL THE FOLLOWING:
PUTL1N

COVEL ENTRY CLASS: MAIN SEGMENT: (S1)
DESCI: COPY ONE SEQUENTIAL FILE TO ANOTHER
LENGTH: 43 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FILET GLCHECK DRAWER
CAN CALL THE FOLLOWING:
SYS=

CORSHE ENTRY CLASS: MAIN SEGMENT: (M1)
DESCI: (NOT AVAILABLE)
LENGTH: 11 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FIXDATE P801N MXYP
THIS PROGRAM DOES NOT INVOCF ANY OTHER PROGRAMS

DIS ENTRY CLASS: SECONDARY SEGMENT: (S0)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR 'SINCO:
CAN BE CALLED BY:
SKOTET JTVJ 6030A CVT0C
CIE ENTRY CLASS: MAIN SEGMENT: (UB0)
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

CTIOR ENTRY CLASS: MAIN SEGMENT: (OE9)
DESC: CONTOUR - MAIN CONTOURING MODULE
LENGTH: 160 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL:
CAN CALL THE FOLLOWING:
BL1NT BL2INT METAZL LINESG OBJCTG
SUBJEG SCAN CONWUL TRIORD TMESH3 PTBLIN

CTNPRO ENTRY CLASS: MAIN SEGMENT: (OE1)
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:
DETAIL:
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT

CTNPRE ENTRY CLASS: MAIN SEGMENT: (OE9)
DESC: CONTOUR - EDIT AND ACCEPT TYPED-IN PARAMETERS
LENGTH: 110 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL:
CAN CALL THE FOLLOWING:
PUTEDT IDISER ICHKED COMPAC COMPACS

CNVTOC ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: SCALING - CONVERT FROM USER SPACE TO CARTESIAN COORDINATES
LENGTH: 34 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOOPUT
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:
MOOPUT
CAN CALL THE FOLLOWING:
ACOS, ATAN2, SORT.

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

COMPAC ENTRY CLASS: MAIN SEGMENT: (S1)
SYSTEM I/O ROUTINE
LENGTH: 253 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
READ  WRITE  WRITER  WRITE  CLOSE
WRITER
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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

ENTRY CLASS: MAIN SEGMENT (M31)
DESC: DISPLAY ACTIVE STRUCTURE AND SUBSTRUCTURE NAMES
LENGTH: 71 LANGUAGE: FIN
SECONDARY ENTRY POINTS
DACTS
CAN BE CALLED BY:
DETAIL  TAPACX
CAN CALL THE FOLLOWING:
TYPNM  TVISER  IDBART

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

ENTRY CLASS: SECONDARY SEGMENT (DB3)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR IDBARR
CAN BE CALLED BY:
ENTERM  ECHK3GC  ECHKL

ENTRY CLASS: SECONDARY SEGMENT (DB0)
DESC: GET NTH ATTRIBUTE
SECONDARY ENTRY POINT FOR IDBUPP
CAN BE CALLED BY:
GLSTID  PRINCP  EOSR  MATDEF  EUPPNT  GETONT  GETOBAT  PUTATT  IDORwel  IDORwAT  GETGEN  GETCOR  IKATT  IGETCH

ENTRY CLASS: MAIN SEGMENT (DB2)
DESC: CHANGE ATTRIBUTE VALUE IN DATA BASE
LENGTH: 6N LANGUAGE: FIN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINCP  EOSR  BDSTR  FIXDAT  MATDEF  EUPPNT  EATS  IDBADD
CAN CALL THE FOLLOWING:
IFATT  IDBSET  IDBTYPE  IDBSTA  IDBCAN

ENTRY CLASS: MAIN SEGMENT (DB8)
DESC: CHECK IF READ IS ALREADY ON THE CHANGE LIST
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:
DBRITE DMSET IDBTYP IDBLEN IDBGET
CAN CALL THE FOLLOWING:
DMGTBD DMSET IDBTYP IDBLEN IDBGET

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

DBDAD
ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: SET ACTIVE IDDBA:
SECONDARY ENTRY POINT FOR: DBRITE
CAN BE CALLED BY:
INTSUB D1RST CLRPG ICKBYT IDWAT
IDRAWCT IDRMSS IDRWS T IDRM 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 EDNUM EOPEN
CAN CALL THE FOLLOWING:
DBRITE DBLFT IDBRT IDBLFT IDBUPN
IDBONN IDBTYP IDBUMP IDBDNP DBGPT

DBLF
ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: SET LEFT ACTIVE POINTER
SECONDARY ENTRY POINT FOR: DBRITE
CAN BE CALLED BY:
MXP DELETE ACTIVA IDGCMAN

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

DBDNP
ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: SET NTH DOWN POINTER
SECONDARY ENTRY POINT FOR DBRITE
ENTRY CLASS: SECONDARY SEGMENTS (DB2)
DESC: SET OR REMOVE THE DOWN POINTER OF THE BEAD LISTED
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: SECONDARY SEGMENTS (DB0)
DESC: SET RIGHT ACTIVE POINTER
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: MAIN SEGMENTS (DB1)
DESC: INITIALIZE CREATED DATA BASE
LENGTH: 404 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: SECONDARY SEGMENTS (DB0)
DESC: SET LEFT POINTER IN DATA BASE
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: SECONDARY SEGMENTS (DB0)
DESC: SET BEAD LENGTH
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: MAIN SEGMENTS (DB1)
DESC: ALLOWS APPLICATION TO DELETE AND ADD BEADS
LENGTH: 145 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN

ENTRY CLASS: SECONDARY SEGMENTS (DB0)
DESC: SET NAME IN BEAD
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
ENTRY POINT: 9ETRML ENRERG NCOGM ENDEL EADDEN
DBRITE ENTRY
CLASS: MAIN
SEGMENT: (080)

DESCRIP uT RIGHT POINTER IN DATA BASE

LENGTH: 356  LANGUAGE: FTP

SECONDARY ENTRY POINTS:

DBLEFT  DBRUPS  DBUPN  DBUPP  DBONN
DBONP  DBTYP  DBLEN  DBOAD  DBSTAT
DBNAME  DBSET  U6DLF  DBURT  DBDAC

CAN BE CALLED BY:
CNELEM  CTERM  CTABLE  DBCHNM  IOBCAN
IOBAO8  IOFL
CAN CALL THE FOLLOWING:
DMSET  DBCH3O  IOBUPS  IOBTYP  IOBOAO
IDBSTA

OBSET ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTor NTH LOCATION IN BEAD
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
CNELEM  IOJCaN  DBCHA  DBUPT

OBSTAT ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTor START OF ATTRIBUTE LIST
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
DBUPT  IOBOAO

OBTGET ENTRY CLASS: MAIN SEGMENT: (083)

dESCRIPTOR VALUE IN TABLE
LENGTH: 135  LANGUAGE: FTP

HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GETDAT

CAN CALL THE FOLLOWING:
DMSET  OBTGET  IOBTYP  IOBSTA  IOBAPP

OBTYP ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTOR TYPE
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
DBLKUP  IOBOAO

OBUPN ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTOR NUMER OF UP-POINTERS
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
DBUPT

OBUPP ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTOR NTH UP-POINTER
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
IOBCAN  OBTYP

OBUPS ENTRY CLASS: SECONDARY SEGMENT: (080)

dESCRIPTOR START OF UP-POINTERS
SECONDARY ENTRY POINT FOR DBRITE
CAN BE CALLED BY:
  DBUPT  ID3AD0D

DBUPT  ENTRY CLASS: MAIN  SEGMENT: (DB2)
DESC: SET OR REMOVE THE UP POINTER OF THE BEAD LISTED
LENGTH: 161  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
CAN BE CALLED BY:
  DBUPT  DBUPG  DBUPP  DBUPN  DBUPT  ID3AD0D

DEINITI  ENTRY CLASS: MAIN  SEGMENT: (M32)
DESC: (NOT AVAILABLE)
LENGTH: 41  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DEINITI

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:
  DEINIT  STARTM  DEINITI

DELETE  ENTRY CLASS: MAIN  SEGMENT: (DE0)
DESC: DEACTIVATE BEAD AND ERASE THE PICTURE FROM THE SCREEN
LENGTH: 127  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DELETE  DELPIC  ID3AD0D

DELPIC  ENTRY CLASS: MAIN  SEGMENT: (DE1)
DESC: DELETE AND DEACTIVATE ALL PICKED BEADS ON A LEVEL
LENGTH: 16  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DELPIC  ID3AD0D

DETABLE  ENTRY CLASS: MAIN  SEGMENT: (DE2)
DESC: DELETE ENTRY POINTS FOR I DBRITE
CAN BE CALLED BY:
  DBUPT  ID3AD0D
### DELSF
**ENTRY CLAS: MAIN SEGMENT: (G12)**
- **Descri:** DELETE INTEREK SUBFILE
- **Length:** 60
- **Language:** FTN
- **Has No Secondary Entry Points**
- **CanBe Called By:** MOFRZ
- **Can Call The Following:**
  - GIDELT
  - GISHOW

### DETABLE
**ENTRY CLAS: MAIN SEGMENT: (DRIVE)**
- **Descri:** DISPLAY-AND-EDIT Subroutine Switch Table
- **Length:** 507
- **Language:** COMPASS
- **Has No Secondary Entry Points**
- **CanBe Called By:**
  - STARTM GLINIT
  - Can Call The Following:
    - SWITCHS IOEDEC ALLON ALLSON ALLOFF
    - ASUSS DZRSF ETYPESV CNTPKD RGDEL
    - RNGDNR PONPEN PTYPE EGNM EMERG
    - EMERGE ORMATA DRWAY DELPIC EONPO
    - EONPEN EDINIT ECHNIT ELEKPL ELEKPP
    - RETAIN RETAIS EMOVE EMOVEP MXI
    - MXYP DYOORO DYLOAD DYMODE DYTIMS
    - DYSPPU DYSFPR DYSSTP DYUNDE GYDEF
    - ATTLST ATTPKC ATTREN ATTRNG ATTPNP
    - LANDP LFNODE NODON NODAE NODFEL
    - ECHOND ECHONU ECPROC ECREAN ERDONO
    - ERDPUK FIFO EROU ERNOLD ERNADO
    - ERNAUD EACTPN EALTP EA ذو EWAP
    - FALLS EALLO EALLOE EATS EATCH
    - ENDOWN ENUP EUPUTN EPUTUP ESRCH
    - ASEROM ASEMCHA SSAOFF CNTOR CNTPRE
    - CNTINT CNTINTL CNTINTZ GETCNT PROXCA
    - PROCY A REPXY RCXY TABRDR INITXYP
    - GOLLY GOLGKY GSGKLY GSGKLY LSSLO
    - TABBND PROCCHR TABDEL EOPEN EOPENN
    - STKACT SSTACT ELEACT NOACT INITXAD
    - INITIN GLRPIC XYERAS XYRET1 XYRET
    - SELATT SELATI TABACT TABACTX TABACY
    - Tcaps TABCAP TABCAPX TABSCX TABSCY
    - TABSLC Tabslc TABSLC TABSLC TABSLC
    - TABYD TABYD TABYD RULTLT RULTLT
    - DADS LN PUTNM PUTNMN EXINIT MOPU
    - MURGC MOCYL MOPSH PLINIT SPS0L
    - SPAUGL PUTATT ACTATT ATTOFF PROFAC
    - REPFA OTILE DRAWS ONPEN ONPEN
    - ONPENN TAPS PEN DSAVE EADDRL

### DISPLA
**ENTRY CLAS: MAIN SEGMENT: (PRM1)**
- **Descri:** DISPLAY GENERIC MATERIAL NAMES
- **Length:** 64
- **Language:** FTN
- **Has No Secondary Entry Points**
- **CanBe Called By:** PRTABLE

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CAN CALL THE FOLLOWING:

**DMGET**

**DMBAD**
ENTRY CLASS: MAIN  SEGMENT: (OBO)
DESC: (NOT AVAILABLE)
LENGTH: 46  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMBAD, DMSTGT

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

**DMFLSH**
ENTRY CLASS: MAIN  SEGMENT: (OBI)
DESC: FLUSH DATA HANDLER FILE
LENGTH: 140  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
RESTART DMGET

CAN CALL THE FOLLOWING:
DMWRITE, OUT3UF, RWRITE, FCHPRAM, FETSTAT
CLOSE, SETFETR, CLRFETR

**DMFV**
ENTRY CLASS: MAIN  SEGMENT: (OBO)
DESC: (NOT AVAILABLE)
LENGTH: 140  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMFV, DMRLD, DMSTGT

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

**DMGET**
ENTRY CLASS: SECONDARY  SEGMENT: (OBO)
DESC: GET DATA HANDLER BEAD FIELD
SECONDARY ENTRY POINT FOR: DMSTGT
CAN BE CALLED BY:
IGNM, DISPL3, LIBIN, LIBINS, OZST
RESTART, IGPKM, GCSARR, GCSF, IOFTR
IFATT, IGATT, IDURIT, IDUUPP, OSMIT
OGET, ID3ARR

**OMGTBD**
ENTRY CLASS: MAIN  SEGMENT: (OBO)
DESC: RESERVE SPACE FOR NEW DATA HANDLER BEAD
LENGTH: 173  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNNEW, RESTART, GKRESI, OBGCHD, ID3RSV

CAN CALL THE FOLLOWING:
OMHEAD, OWRITE, DMGET, DMFV, SYSTEM, FCHPRAM

**OMINIT**
ENTRY CLASS: MAIN  SEGMENT: (OBI)
DESC: INITIALIZE DATA HANDLER FILE
LENGTH: 169  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
START, CNNEW, MYINIT, GINIT, OBMIT

CAN CALL THE FOLLOWING:
GOTOER, I1OJ, SYSTEM, INBUF, OUT3UF
READ, FCHPRAM, FETSTAT, DMFLSH, RFILEB
DMF
ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: ERROR DUMP ROUTINE
LENGTH: 573
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
HOLO
CALL THE FOLLOWING:
IDEAUT GETLIN PUTLIN GOTOER CRK
IOCTAL

DMFCRK
ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: (NOT AVAILABLE)
LENGTH: 50
HAS NO SECONDARY ENTRY POINTS
CRK
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS

DMREAD
ENTRY CLASS: MAIN SEGMENT: (S20)
DESC: (NOT AVAILABLE)
LENGTH: 127
HAS NO SECONDARY ENTRY POINTS
DMREAD DMWRITE DMREAD DMFV SYSTEM

DMRLBD
ENTRY CLASS: MAIN SEGMENT: (S20)
DESC: RELEASE DATA HANDLER READ
LENGTH: 270
HAS NO SECONDARY ENTRY POINTS
DMREAD DMRLBD DMSTGT

DMSET
ENTRY CLASS: MAIN SEGMENT: (S20)
DESC: SET VALUES INTO DATA HANDLER READ FIELDS
SECONDARY ENTRY POINT FOR DMSTGT
ICPART GNV0E CNTABL DZRT RESTART
GGGARR GCSLIF OBCHBD IFATT OBRITE
OBINIT OZSAVE OBSTGT O9ARR

DMSTGT
ENTRY CLASS: MAIN SEGMENT: (S20)
DESC: (NOT AVAILABLE)
LENGTH: 606
DMSTGT
DMFV SYSTEM
<table>
<thead>
<tr>
<th>ENTRY CLASS</th>
<th>SEGMENTS</th>
<th>LENGTH</th>
<th>LANGUAGE</th>
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<tr>
<td>O denim</td>
<td>MAIN</td>
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<td>TRANSFER</td>
<td>1005</td>
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<td>DMTHD, OMRLJK, OMTGT, OMFLSH, DMTHD</td>
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<tr>
<td>DRNACT</td>
<td>MAIN</td>
<td>352</td>
<td>FTN</td>
<td>0</td>
<td>DMTHD, OMRLJK, OMTGT, OMFLSH, DMTHD</td>
</tr>
</tbody>
</table>
ORWARR ENTRY CLASS SECONDARY SEGMENT: (M820)
DESCI DRAW ALL LEADS IN THE ARRAY IN THE ARGUMENT LIST
SECONDARY ENTRY POINT FOR ORWACT
CAN BE CALLED BY:
EQUEUP

ORWATA ENTRY CLASS MAIN SEGMENT: (DE1)
DESCI 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:
DETAIL
CAN CALL THE FOLLOWING:
IDRMW IDJDMT IDQDAC

ORWATT ENTRY CLASS MAIN SEGMENT: (DE1)
DESCI DRAW THE ATTRIBUTE FOR EACH BEAD PICKED
LENGTH: 21 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
IDRMW MBREAD

ORWNOC ENTRY CLASS SECONDARY SEGMENT: (M820)
DESCI RE-DRAW ALL ACTIVE BEADS WITHOUT ERASING THE ORIGINAL VERSION
SECONDARY ENTRY POINT FOR ORWACT
CAN BE CALLED BY:
DYORDE

ORWONE ENTRY CLASS SECONDARY SEGMENT: (M820)
DESCI DRAW THE ONE BEAD IN THE ARGUMENT LIST
SECONDARY ENTRY POINT FOR ORWACT
CAN BE CALLED BY:
M9ISK FLREPP MXYP EUPPNT ERO
ERHOLD EADOWN EATS

ORWSS ENTRY CLASS MAIN SEGMENT: (M821)
DESCI DRAW ALL ACTIVE SUBSTRUCTURES
LENGTH: 26 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL ACU-4
CAN CALL THE FOLLOWING:
IDRMW IDJDMT

OXIT SQ ENTRY CLASS SECONDARY SEGMENT: (SQ)
DESCI (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR GET SQ
CAN BE CALLED BY:
SKFL SQ

DYDEF ENTRY CLASS SECONDARY SEGMENT: (DE3)
DESCRIBE SET DEFORMED PLOT MODE
SECONDARY ENTRY POINT FOR IDYUNDE
CAN BE CALLED BY:
DETAIL

DYDROE
ENTRY CLASS: MAIN
SEGMENT: (DE3)
DESCRIBE DRAW DEFORMED PLOT FOR ALL ACTIVE BEADS
LENGTH: 21
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:

DYLOAD
ENTRY CLASS: MAIN
SEGMENT: (DE3)
DESCRIBE PUT UP LOAD STEP TYPE-IN FOR DEFORMED PLOTS
LENGTH: 52
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
DYMODE DYTIMS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:

DYMODE
ENTRY CLASS: SECONDARY
SEGMENT: (DE3)
DESCRIBE PUT UP MODE SHAPE TYPE-IN FOR DEFORMED PLOTS
SECONDARY ENTRY POINT FOR IDYLOAD
CAN BE CALLED BY:
DETAIL

DYSFPR
ENTRY CLASS: SECONDARY
SEGMENT: (DE3)
DESCRIBE CHECK SCALE, FACTOR, OR TIME SLICE TYPE-IN
SECONDARY ENTRY POINT FOR IDYSFPU
CAN BE CALLED BY:
DETAIL

DYSFPU
ENTRY CLASS: MAIN
SEGMENT: (DE3)
DESCRIBE PUT UP SCALE FACTOR TYPE-IN
LENGTH: 71
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
DYSFPR
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
PUTEDT IDISER IBEAUT ICHKED COMPAC

DYSSTP
ENTRY CLASS: MAIN
SEGMENT: (DE3)
DESCRIBE PROCESS STEP FOR DEFORMED MODE
LENGTH: 93
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
ICKSL PUTEDT IDISER IBEAUT ICHKED COMPAC
DYTIMS  ENTRY CLASS: SECONDARY  SEGMENT: (DE3)
DESC: PUT UP TIME STEPS TYPE-IN FOR DEFORMED PLOTS
SECONDARY ENTRY POINT FOR DYLOAD
CAN BE CALLED BY:
DETAIL

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

DIRSTT  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:
DETAIL
CAN CALL THE FOLLOWING:
CLASSIC  DMSET  DMGET  DDBAD  DDBRT
IBGSET  DDLKUP

DJSAVE  ENTRY CLASS: MAIN  SEGMENT: (DE1)
DESC: SAVE THE CHANGED DATA BASE
LENGTH: 22  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
DMSET  DDLKUP

EACTPH  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:
DETAIL
CAN CALL THE FOLLOWING:
PUTNM  ESLOT  HBEAD

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

EEADDEL  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:
DETAILE
CAN CALL THE FOLLOWING:

EADOWN
ENTRY CLASS: MAIN
SEGMENT: (DE7)
DESC: ADD DOWN-POINTERS FROM A CROSSHAIR PICK OF A DISPLAYED ITEM
LENGTH: 106 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

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

EALLS
ENTRY CLASS: SECONDARY
SEGMENT: (DE7)
DESC: ACTIVATE ALL BEADS ON SCREEN
LENGTH: 41 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

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

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

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
ENTRY CLASS: MAIN
SEGMENT: (DE7)
DESC: PROCESS FIRST TABLE OF CHANGED ATTRIBUTES
LENGTH: 304 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EATCH
CAN BE CALLED BY:
DETAIL ENDOWN
CAN CALL THE FOLLOWING:
IECPRC EATF ELNCHK ECHKL IENEXT
IENIT PUTEOT PUTAT ORNONE EQUEUP
IDISER ICHKEO COMPAC IDDBAC DBCHNM
ICKAXT OBCHA

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

ECHKL ENTRY CLASS: MAIN SEGMENTI (M1)
DESCR CHECK IF LIMITS OF DISPLAY ARE MODIFIED
LENGTH: 56 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FIX偏, EUPPNT EATS
CAN CALL THE FOLLOWING:
IDBRT IDBARR DBARR

ECHNIT ENTRY CLASS: SECONDARY SEGMENTI (DE2)
DESCR ELIMINATE THE ACTIVE FOR EDITING LIST
SECONDARY ENTRY POINT FOR EADINIT
CAN BE CALLED BY:
DETAIL

ECHNOD ENTRY CLASS: MAIN SEGMENTI (DE5)
DESCR START CHANGE DOWN POINTERS MODE
LENGTH: 27 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ECHONU
CAN BE CALLED BY:
DETAIL ENDOWN
CAN CALL THE FOLLOWING:
IDISER

ECNONU ENTRY CLASS: SECONDARY SEGMENTI (DE5)
DESCR START CHANGE UP-POINTERS MODE
SECONDARY ENTRY POINT FOR ECHNONU
CAN BE CALLED BY:
DETAIL ENDOWN

ECPROC ENTRY CLASS: MAIN SEGMENTI (DE5)
DESCR PROCESS NAME TYPE-IN TO CREATE A NEW BEAD
LENGTH: 64 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
IECPRC DULKUP ACTIVA IDBADD IDBARR
DBARR

69
ECRAN
ENTRY CLASS: MAIN
SEGMENT: (DE5)
DESC: INITIATE NAME TYPE-IN FOR CREATION
LENGTH: 94
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ENTRY CLGAM.
EDINIT
ENTRY CLASS: MAIN
SEGMENT: (DE2)
DESC: INITIALIZE EDITING
LENGTH: 20
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EDINIT
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ENTRY CLGAM.
EDITTI
ENTRY CLASS: MAIN
SEGMENT: (S0)
DESC: INITIALIZE EDIT COMMON BLOCK
LENGTH: 27
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLINIT ENTRY GRFIN1 DEINITI
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
ELEACT
ENTRY CLASS: SECONDARY
SEGMENT: (MO)
DESC: SET ELEMENTS AS THE LEVEL TO WORK ON
SECONDARY ENTRY POINT FOR: I STRACT
CAN BE CALLED BY:
DETABLE NVALID PRINCIP EQSTR
ELNAM
ENTRY CLASS: MAIN
SEGMENT: (PRM1)
DESC: TYPE ELEMENT NAMES
LENGTH: 92
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ENTRY CLGAM.
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:
ENTRY CLGAM.
ELREPO
ENTRY CLASS: SECONDARY
SEGMENT: (DE2)
DESC: PROCESS NEXT MODAL REPLACEMENT
SECONDARY ENTRY POINT FOR: I ELEPL
CAN BE CALLED BY:
ENTRY CLGAM.
ELREPL
ENTRY CLASSI: MAIN
SEGMENTI: (OE2)
DESCI: PROCESS TYPE-IN FOR NODAL REPLACEMENT
LENGTH: 117
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ELREPC
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
PUTEDT IBEAUT IDBQNN IDBDNP IDBYAM

ELREPP
ENTRY CLASSI: MAIN
SEGMENTI: (OE2)
DESCI: REPLACE NODES BY TYPE-IN VALUES
LENGTH: 137
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
ICKING ELREPC PUTEOT OMKONE IDISER
IBEAUT ICHKED COMPAC DBDNP DBUPT

EMERGE
ENTRY CLASSI: MAIN
SEGMENTI: (OE1)
DESCI: PROCESS DOWN-POINTERS IN A MERGE
LENGTH: 43
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
IDBQNN IDBDNP MBEAO DBUPT DBONT

EMERG
ENTRY CLASSI: MAIN
SEGMENTI: (OE1)
DESCI: CHECK FOR MORE NAMES IN A MERGE BY A NAME MODE
LENGTH: 16
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
EMERGE PUTNM

EMOVEP
ENTRY CLASSI: SECONDARY
SEGMENTI: (OE2)
DESCI: ENTRY TO PROCESS THE MOVE TYPE-IN
SECONDARY ENTRY POINT FOR EMOVE CAN BE CALLED BY:
DETAIL

EMOVE
ENTRY CLASSI: MAIN
SEGMENTI: (OE2)
DESCI: PUT UP CENTROID FOR NODE, ELEMENT, OR SUBSTRUCTURE
LENGTH: 106
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EMOVEP
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
MXYTP PUTEOT GETCEN IDISER IBEAUT
ICHEKED COMPAC
<table>
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<tr>
<th>Procedure Name</th>
<th>Main Segment</th>
<th>Secondary Segment</th>
<th>Description</th>
<th>Length</th>
<th>Language FTN</th>
<th>Secondary Entry Points</th>
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<td>Descri Adu. HN-Pointers BY NAME</td>
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<td>ENTRY classify</td>
<td>SEGMENT (DE1)</td>
<td>Descri Activate Crosshairs for Next Level Down in Data Base</td>
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<td>SEGMENT (DE1)</td>
<td>Can Be Called By</td>
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<td>Can Call The Following</td>
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<td>SEGMENT (DE7)</td>
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<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Descri Display Rest of Down-Pointers</td>
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<td></td>
<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Secondary Entry Point for i EPUTD</td>
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<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Can Be Called By</td>
<td></td>
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<tr>
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<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Descri Display Names of Up-Pointers</td>
<td></td>
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<tr>
<td></td>
<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Secondary Entry Point for i EPUTUP</td>
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<td></td>
<td>ENTRY classify</td>
<td>SEGMENT (DE7)</td>
<td>Can Be Called By</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
DETABLE

EONUM  ENTRY CLASS: MAIN  SEGMENT: (DE1)
DESC: DELETE BEADS BY NUMBER
LENGTH: 127  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
ICKRNK PUTFGT PUTLS EQUEUP IDISER
DELETE ICHKD COMPAC IDBIRT DBKUP
DBOEL

EQPENN  ENTRY CLASS: SECONDARY SEGMENT: (M0)
DESC: DELETE BEADS BY NAME
SECONDARY ENTRY POINT FOR: EQPEN
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTNM EQUEUP DELETE MBEAD DDBKUP
DBOEL

EQOPEN  ENTRY CLASS: MAIN SEGMENT: (M0)
DESC: DELETE PICKED BEADS
LENGTH: 60  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EQPENN
CAN BE CALLED BY:
DETABLE
CAN CALL THE FOLLOWING:
PUTNM EQUEUP DELETE MBEAD DDBKUP
DBOEL

EOSTR  ENTRY CLASS: MAIN SEGMENT: (PP)
DESC: CALCULATE EFFECTIVE STRESSES
LENGTH: 151  LANGUAGE: FTN
CAN BE CALLED BY:
POSTABLE
CAN CALL THE FOLLOWING:
ELEACT SIORT ISACT DBATT NEXTIN
NEXT8 DBOCHA

EQUEUP  ENTRY CLASS: MAIN SEGMENT: (MB20)
DESC: SAVES THE UP-POINTERS FOR A BEAD
LENGTH: 122  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EONUM MXYP EUPRT EATS EQOPEN
CAN CALL THE FOLLOWING:
DRAWR 103UPN 1060AD 10BUPP ICKACT

ERASEM  ENTRY CLASS: MAIN SEGMENT: (G13)
DESC: ERASE AND REDRAW
LENGTH: 17  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MORNT MOZCRS MOZPLS MOSPLT MOSOS
MOOTH
CAN CALL THE FOLLOWING:
GCORAH GCORAH

ERASEN ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: ERASE SECONDARY AND NO REDRAW
SECONDARY ENTRY POINT FOR ERASE
CAN BE CALLED BY:
GLTOP GLTAUDE MORROW PAGER IPICK

ERASER ENTRY CLASS: MAIN SEGMENT: (M30)
DESC: ERASE SECONDARY AND REDRAW ONLY MINIMAL DATA
LENGTH: 125 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERASEN
CAN BE CALLED BY:
START GLTAUDE PAGER IPICK
CAN CALL THE FOLLOWING:
TYPNAM TYPVAL PUTEDT SELATT SELATC1
SELAT1 GERASE GCORAH GIDELT

EROD ENTRY CLASS: SECONDARY SEGMENT: (OES)
DESC: SAME AS ERDOW DEXCEPT REMOVE IS FOR DISPLAYED ITEM
SECONDARY ENTRY POINT FOR ERDOW
CAN BE CALLED BY:
DETAIL

ERDOW ENTRY CLASS: MAIN SEGMENT: (OES)
DESC: SET PARAMETERS FOR REMOVAL OF DOWN-POINTERS
LENGTH: 31 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERDOW ERGO ERDU
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
END ERDOW

ERDOWN ENTRY CLASS: MAIN SEGMENT: (OES)
DESC: PUT UP FIRST GROUP OF DOWN-POINTERS NAMES
LENGTH: 124 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
ERDOW
CAN BE CALLED BY:
ERDOW
CAN CALL THE FOLLOWING:
Echod Echod TYPNAM IOBUPN IDBDONP

ERDOW ENTRY CLASS: SECONDARY SEGMENT: (OES)
DESC: SAME AS ERDOWN EXCEPT REMOVE IS FOR UP-POINTERS
SECONDARY ENTRY POINT FOR ERDOW
CAN BE CALLED BY:
DETAIL

ERDOW ENTRY CLASS: SECONDARY SEGMENT: (OES)
DESC: PUT UP REST OF DOWN-POINTERS NAMES
SECONDARY ENTRY POINT FOR 1 ERDOW
CAN BE CALLED BY:

ERDU ENTRY CLASS: SECONDARY  SEGMENT: (DE5)
DESC: SAME AS ERDOW  EXCEPT REMOVE IS FOR DISPLAYED ITEMS UP-POINTERS
SECONDARY ENTRY POINT FOR 1 ERDOW
CAN BE CALLED BY:

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

ERDOW CAN CALL THE FOLLOWING:
ERDOW DRMONE ID30AD MHEAD ICKACT
DGBT DGBNT

ERNADQ ENTRY CLASS: SECONDARY  SEGMENT: (DE5)
DESC: ADD DOWN POINTERS BY NUMBER
SECONDARY ENTRY POINT FOR 1 ERNOLD
CAN BE CALLED BY:

ERNADU ENTRY CLASS: SECONDARY  SEGMENT: (DE5)
DESC: ADD UP-POINTER BY NUMBER
SECONDARY ENTRY POINT FOR 1 ERNOLD
CAN BE CALLED BY:

ERNOLD ENTRY CLASS: MAIN  SEGMENT: (DE5)
DESC: DELETE DOWN-POINTER BY NUMBER
LENGTH: 297  LANGUAGE: FTH
SECONDARY ENTRY POINTS:
ERNADQ  ERNADU
CAN BE CALLED BY:

ERNADQ CAN CALL THE FOLLOWING:
ICKING PUTEDT PUTLS DRMONE ID30ER
ICKKED COMPAC IDERIT ID30AD ICKACT
DGBT DGBNT

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

CLSF.FO CLSV.FO GET.FO JMPSRM PUT.FO
RWE.FO SKFL.FO MEMC.RM OPEN.FO OPES.FO
CLSF.RM OPEN.SO OPEN.RM O5SUB.RM OPEX.SO
GET.SO PUT.SO REM.SO WEXX.SO CLSF.SO
CLSF.RM SKFL.SO RELQ.RM
CAN CALL THE FOLLOWING:
RM.CIO RM.KLA SYS= MSG=

75
ESERCH
ENTRY CLASS: MAIN
SEGMENT: (DE7)
DESC: SEARCH ALL ELEMENTS BY ATTRIBUTE RANGE
LENGTH: 115 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:
ESLOT: PUTAT IDISER ICHMED IDKATT
COMP: COMPL DBOPT DBONT IDKATT

ESLOT
ENTRY CLASS: MAIN
SEGMENT: (G12)
DESC: ACTIVATE PART OF LEVEL FOR EDITING
LENGTH: 115 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:
ESLOT: PUTAT IDISER IDKATT

ETYPSV
ENTRY CLASS: MAIN
SEGMENT: (DE1)
DESC: ACTIVATE ALL NODE OR ELEMENT NUMBERS TYPED-IN
LENGTH: 115 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:
ETYPSV: IDISER IDKATT

EUPPNT
ENTRY CLASS: MAIN
SEGMENT: (DE2)
DESC: UPDATE NODE UPDATE FOR MOVED POINT
LENGTH: 115 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:
EUPPNT: IDISER IDKATT DBCHM

EXEC
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:
EXEC: PROAIDS UNPACK IYIELD IYIELDI IYIELDE

EXEC
ENTRY CLASS: MAIN
SEGMENT: (EX)
DESC: CONSTRUCT A CALL TO A PROCEDURE
LENGTH: 225 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC
CAN CALL THE FOLLOWING:

EXECIGDFV

EXINIT ENTRY CLASS: MAIN SEGMENT: (M32)
DESCRI: START EXECUTIVE MENUS ONLY
LENGTH: 17 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAILED PPTABLE PPTABLE
CAN CALL THE FOLLOWING:
STARTM GIDELT

EXIT ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
DESCRI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: ROVER
CAN BE CALLED BY:
DRIVER

EXIT ENTRY CLASS: SECONDARY SEGMENT: (M0)
DESCRI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: FORSYS= ROVER
CAN BE CALLED BY:

EXP ENTRY CLASS: MAIN SEGMENT: (S1)
DESCRI: EXPONENTIAL FUNCTION. E TO POWER X. OPT=ALL.
LENGTH: 75 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYSIST.

(EXP) ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESCRI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: EXP
CAN BE CALLED BY:

EXSTAR ENTRY CLASS: MAIN SEGMENT: (MEN1)
DESCRI: SAVE AND RESTORE APPROPRIATE STAGING FILES
LENGTH: 234 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
EXSTOP
CAN BE CALLED BY:
EXEC GLOCOK
CAN CALL THE FOLLOWING:
STARTA REACT RESTART GITEM GIDET
GUTEXT GUSETP STOP IPFUT PERMFIL
TIME RETURN

EXSTOP ENTRY CLASS: SECONDARY SEGMENT: (MEN1)
DESCRI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: EXSTAR
CAN BE CALLED BY:
EXEC GLOCOK

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<table>
<thead>
<tr>
<th>ENTRY_CLASS</th>
<th>MAIN SEGMENT</th>
<th>DESCRIPTION</th>
<th>LANGUAGE</th>
<th>START</th>
<th>ENTRY_POINTS</th>
<th>Can be called</th>
<th>Other Programs</th>
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</thead>
<tbody>
<tr>
<td>EXTABLE</td>
<td>(DRIVE)</td>
<td>ENTRY called</td>
<td>COMPASS</td>
<td>INIT</td>
<td>No secondary</td>
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<td>Yes</td>
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<tr>
<td>FCHPRAM</td>
<td>(080)</td>
<td>ENTRY called</td>
<td>COMPASS</td>
<td>INIT</td>
<td>No secondary</td>
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<td>Yes</td>
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<td>FECHSR</td>
<td>(50)</td>
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<td>INIT</td>
<td>No secondary</td>
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<td>FETSTAT</td>
<td>(080)</td>
<td>ENTRY called</td>
<td>FTN</td>
<td>INIT</td>
<td>No secondary</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FILATT</td>
<td>(EX)</td>
<td>ENTRY called</td>
<td>FTN</td>
<td>INIT</td>
<td>No secondary</td>
<td>Yes</td>
<td>Yes</td>
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<td>FILNAM</td>
<td>(MENI)</td>
<td>ENTRY called</td>
<td>FTN</td>
<td>INIT</td>
<td>No secondary</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FIXDAT</td>
<td>(PR2)</td>
<td>ENTRY called</td>
<td>FTN</td>
<td>INIT</td>
<td>No secondary</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

PRIAuble

CAN CALL THE FOLLOWING:
SETLN SFTHD IDGNXT CORSHF RASTOU
GIFETS CNEML ECHKL IDRMAT IDRM
GRTRAK ACTIVA OBCHA OBUPT OBUOT

FORSYS= ENTRY_CLASS: MAIN SEGMENT: (SO)
DESC: FORTRAN OBJECT LIBRARY UTILITIES.
LENGTH: 602 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
EXIT STOP AUNORM ABI SYSEND
SYSEI SYSYI
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
CLSF.RM OPEN.SQ OPEN.RM GB0 6F0
GET.Z PUT.SQ SKFL.SQ SYS MSG=

FORUTL= ENTRY_CLASS: MAIN SEGMENT: (SO)
DESC: FCL MISC UTILITIES.
LENGTH: 16 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
CB0 6F0
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

FRONTIU ENTRY_CLASS: MAIN SEGMENT: (GL3)
DESC: M30 PICTURE - SET X-Y PLANE
LENGTH: 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLIABLE
CAN CALL THE FOLLOWING:
MOKORM SETTVU

FSU.SQ ENTRY_CLASS: MAIN SEGMENT: (SO)
DESC: NOT AVAILABLE
LENGTH: 106 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
RM0.SQ RMU2.SQ
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
EXIT.SQ GRTJ.SQ AMAG.SQ MOVE.RM

GCCHMN ENTRY_CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - CHECK PICKED POINT WITHIN AREA
LENGTH: 71 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCCHMN
CAN CALL THE FOLLOWING:
GCCHMN GCCHNE GCCHIQ

GCC ENTRY_CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - DETERMINE LINE VISIBILITY
THIS PROGRAM DOES NOT INVOKES ANY OTHER PROGRAMS

GCDLIM
ENTRY CLASSES: MAIN
DESCRIPTION: RETRIEVE SCALE, WINDOW, AND CLIP LIMITS
LENGTH: 192
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
CAN BE CALLED BY:
DRIVER, MOZAR, LIDINS, MXYI, PAGER
CAN CALL THE FOLLOWING:
GCDLIM, GCDYM, GCCSTUB, GCGET

GCDRAW
ENTRY CLASSES: MAIN
DESCRIPTION: CONTROL DISPLAY FILE OR ITEM INTERPRETATION
LENGTH: 256
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER, MOZAR, LIDINS, MXYI, PAGER
GROUP: GCDRAW
CAN CALL THE FOLLOWING:
COMP: GCGSF, GCDSF, GCUNPK
GCDRAW, GCDSTUB, GCDSTUB

GCDIT
ENTRY CLASSES: MAIN
DESCRIPTION: INTERPRET ITEM
LENGTH: 64
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRAW, GCDSF
CAN CALL THE FOLLOWING:
GCDAT, GCDSTUB, GCDMM

GCDSF
ENTRY CLASSES: MAIN
DESCRIPTION: INTERPRET SUBFILE
LENGTH: 54
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDRAW
CAN CALL THE FOLLOWING:
GCDIT, GCDCAT, GCDUNPK, GCDIT

GCFILL
ENTRY CLASSES: MAIN
DESCRIPTION: RETRIEVE DISPLAY INSTRUCTIONS FROM ITEM
LENGTH: 106
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDIT, GROUP
CAN CALL THE FOLLOWING:
GCGAR, GCGLEN, GCCONE, GCGLID

GCGARR
ENTRY CLASSES: MAIN
DESCRIPTION: Segment (G0)
LENGTH: 106
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCDIT, GROUP
CAN CALL THE FOLLOWING:
GCGAR, GCGLEN, GCCONE, GCGLID
DESCI INTERTEK - RETRIEVE AN ARRAY FROM A READ LENGTH 46 LANGUAGE FTN
SECONDARY ENTRY POINTS:

GCSARR
CAN BE CALLED BY:
GCOMM GCFILL GIBUTN GISNGL GIDUP
CAN CALL THE FOLLOWING:
OMSET OMSET

GCGETW ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESCI INTERTEK - RETRIEVE A BIT STRING FROM A WORD IN *IBUF*
SECONDARY ENTRY POINT FOR GCGET
CAN BE CALLED BY:
GCPXY GULIN GTEXT

GCGET ENTRY CLASS: MAIN SEGMENT: (GO)
DESCI INTERTEK - RETRIEVE A JIIT STRING FROM A WORD LENGTH 16 LANGUAGE COMPASS
SECONDARY ENTRY POINTS:

GCGETM
CAN BE CALLED BY:
GCOMM GCSSF GCUCAT GCUNPK GCWORK
GCDLIM GCUNPK GIBUTN

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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

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

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

GCOMM ENTRY CLASS: MAIN SEGMENT: (GO)
DESCI INTERTEK - RETRIEVE ITEM AREA LENGTH 121 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GIZOOM GCOMM GCDLIM
CAN CALL THE FOLLOWING:
GCARK GCOTP GCGET

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

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GCOC4, GC0MM, GCFILL, GICWYN, GISNL, GC1LD, GIJUP, GIXN0D

**GCGRIT**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEX - GET A RIGHT POINTER
SECONDARY ENTRY POINTS FOR I GCSSF
CAN BE CALLED BY:
GCSSF, GIEM, GIETL, GIJUP, GICWYN

**GCSSF**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINTS FOR I GCSSF
CAN BE CALLED BY:
GCSSF, GIETL, GIJUP, GICWYN, GIXN0D

**GCSTUB**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINTS FOR I GCSTUB
CAN BE CALLED BY:
GCSTUB, GC1LD, GIEM, GIETL, GIJUP, GICWYN, GIXN0D

**GCSTUB**
ENTRY CLA55: MAIN SEGMENT: (GO)
DESC: INTERTEX - RETURN ENTITY TYPE
LENGTH: 33, LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCSTUB
CAN BE CALLED BY:
GIJUP, G1EM, G1ETL, GIJUP, GICWYN, GIXN0D

**GCSTUB**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEX - RETURN ENTITY TYPE
LENGTH: 33, LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCSTUB
CAN BE CALLED BY:
GIJUP, G1EM, G1ETL, GIJUP, GICWYN, GIXN0D

**GCSTUB**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEX - RETURN ENTITY TYPE
LENGTH: 33, LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCSTUB
CAN BE CALLED BY:
GIJUP, G1EM, G1ETL, GIJUP, GICWYN, GIXN0D

**GCMAT**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: (NOT AVAILABLE)
LENGTH: 67, LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GICWYN, G1ETL, GIJUP
CAN CALL THE FOLLOWING:
GCP0D
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

**GCPKDS**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - PUT A NEW SUBFILE OR DAE INTO ENTITY
LENGTH: 30 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GISET, GIISHOW
CAN CALL THE FOLLOWING:
GISET

**GCRCP**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - RETRIEVE CATEGORY INTERPRETATION
LENGTH: 22 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCOSEF, GCID-IT, GIBUTN
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

**GCRESI**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - RESERVE SPACE FOR AN ENTITY
LENGTH: 65 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GIBUTF, GIBUTN, GIAD, GIUP
GIXTND
CAN CALL THE FOLLOWING:
GIASMD, GMS3BD

**GCSARR**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - SET AN ARRAY INTO A DEAD SECONDARY ENTRY POINT FOR I GCSARR
CAN BE CALLED BY:
GITEM, GIBUTF, GIUP, GIXTND

**GCSETI**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - SET A BIT STRING INTO A WORD SECONDARY ENTRY POINT FOR I GCSET
CAN BE CALLED BY:
GIASMD, GCS3SF, GITEM, GCUPSF, GCPKDS
GICAT

**GCSETW**
ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTERTEK - SET AN ENTIRE WORD INTO #IBUF# SECONDARY ENTRY POINT FOR I GCSET
CAN BE CALLED BY:
GCUPXY, GUSETP

**GCSET**
ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTERTEK - SET A BIT STRING INTO A WORD IN #IBUF#
LENGTH: 37 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
GCSETW, GCSETI
CAN BE CALLED BY:
GIULIN, GIUTEXT, GUSETP
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
GCSLFT  ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTEREKT - SET LEFT POINTER
SECONDARY ENTRY-POINT FOR 1 GCSSF
CAN BE CALLED BY:
GCSSTUB GIJP

GCSONE  ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTEREKT - SET A FULL WORD FROM ITEM
SECONDARY ENTRY-POINT FOR 1 GCSSF
CAN BE CALLED BY:
GCSSTUB GIJP

GCSRIT  ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTEREKT - SET RIGHT POINTER
SECONDARY ENTRY-POINT FOR 1 GCSSF
CAN BE CALLED BY:
GCSSTUB GIJP

GCSSF  ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTEREKT - SET SUBFILE TO WHICH ITEM BELONGS
LENGTH: 216 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCSSF GCGLIG GCGLFT GCSRIT GCSONE GCGONE
CAN BE CALLED BY:
GCSSTUB GIJP

GCSTUB  ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTEREKT - NOT AVAILABLE
SECONDARY ENTRY-POINT FOR 1 GCSIP
CAN BE CALLED BY:
GCSSTUB GIJP

GCUCAT  ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTEREKT - UNPACK CATEGORIES IN ITEM
LENGTH: 75 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GCSRIT GCSONE GIJP
CAN CALL THE FOLLOWING:
GCGONE GCOF

GCUNPC  ENTRY CLASS: SECONDARY SEGMENT: (GO)
DESC: INTEREKT - UNPACK SUBFILE CATEGORY LIST
SECONDARY ENTRY-POINT FOR 1 GCUNPK
CAN BE CALLED BY:
GCSSF GCUP

GCUNPK  ENTRY CLASS: MAIN SEGMENT: (GO)
DESC: INTEREKT - UNPACK SUBFILE OR DAE LIST
LENGTH: 75 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
GCUNPC
CAN BE CALLED BY:  
GCDRAW  GIDEIT  GISHOW  
CAN CALL THE FOLLOWING:  
GCGET  

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

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

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

GCWIDE  ENTRY CLASS: SECONDARY  SEGMENT: (GO)  
DESC: INTERTEK - RETURN CHARACTER WIDTH  
SECONDARY ENTRY POINT FOR 1 GCMHIGH  
CAN BE CALLED BY:  
DRIVER  LIBINS  PUTEDT  MENNIT  IDISER  

GCWORK  ENTRY CLASS: MAIN  SEGMENT: (GO)  
DESC: INTERTEK - INTERPRET DISPLAY INSTRUCTIONS  
LENGTH: 752  LANGUAGE: FIN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BY:  
GCDRAW  GUDSPI  
CAN CALL THE FOLLOWING:  
COMP10  GCC  SQRT.  GCGET  GOTOER.  

GCXMIN  ENTRY CLASS: SECONDARY  SEGMENT: (GO)  
DESC: INTERTEK - RETURN SCREEN X MIN  
SECONDARY ENTRY POINT FOR 1 GCMHIGH  
CAN BE CALLED BY:  
CNINT  INITXY  INIT2D  GLTOP  

GCXMAX  ENTRY CLASS: SECONDARY  SEGMENT: (GO)  
DESC: INTERTEK - RETURN SCREEN Y MAX  
SECONDARY ENTRY POINT FOR 1 GCMHIGH  
CAN BE CALLED BY:  
CNINT  INITXY  INIT2D  GLTOP
GCYMIN
ENTRY CLASS: SECONDARY
SEGMENT: (GO)
DESCRIPTION: RETURN SCREEN MIN
SECONARY ENTRY POINT FOR GNOME
CAN BE CALLED BY:
GETD Init20

GC30A
ENTRY CLASS: MAIN
SEGMENT: (G13)
DESCRIPTION: LENGTH 67
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GERASE CAN CALL THE FOLLOWING:
ACOS, ASIN, SQRT, COS, SIN.

GERASE
ENTRY CLASS: MAIN
SEGMENT: (GO)
DESCRIPTION: LENGTH 11
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
ERASE CAN CALL THE FOLLOWING:
CQIP

GETGEN
ENTRY CLASS: MAIN
SEGMENT: (M820)
DESCRIPTION: CENTER OF AN ELEMENT
LENGTH 276
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDMXYI
GETCNT IDRMEL
IDMR
CAN CALL THE FOLLOWING:
ENVTOG, GIPDer, IGJonn, IDBTYP, IDBONP
DATT

GETCES
ENTRY CLASS: MAIN
SEGMENT: (DB3)
DESCRIPTION: CENTER OF STRUCTURE
LENGTH 25
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDMXYI
IDMR
CAN CALL THE FOLLOWING:
GETFL

GETCNT
ENTRY CLASS: MAIN
SEGMENT: (DE9)
DESCRIPTION: FETCH ATTRIBUTE DATA FROM ACTIVATED NODES AND ELEMENTS
LENGTH 140
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL
CAN CALL THE FOLLOWING:
GETDTN SHELL IDISER IDBORT DATT

GETCOR
ENTRY CLASS: MAIN
SEGMENT: (M820)
DESCRIPTION: X-COORDINATE OF THIS NODE
LENGTH:  216  LANGUAGE:  FTN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  CNVTONE  DTATT

GETCSS  ENTRY CLASS: MAIN  SEGMENT: (M020)  
DESC: GET CENTER OF SUBSTRUCTURE  
LENGTH:  20  LANGUAGE:  FTN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

GETDAT  ENTRY CLASS: MAIN  SEGMENT: (DE40)  
DESC: GET X-Y DATA FOR PLOT  
LENGTH:  270  LANGUAGE:  FTN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  IDISER  IDOTAM  IDAT  DuATT  OBTGET

GETLIM  ENTRY CLASS: MAIN  SEGMENT: (OB3)  
DESC: GET THE LIMITS OF THE DISPLAY  
LENGTH:  133  LANGUAGE:  FTN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  IDUAR

GETLIM  ENTRY CLASS: SECONDARY  SEGMENT: (SO)  
DESC: READ FROM TERMINAL WITHOUT RECORD MANAGER  
SECONDARY ENTRY POINT FOR: GET.PUT  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  IDUAR

GETRAGI  ENTRY CLASS: SECONDARY  SEGMENT: (PRM1)  
DESC: GET RANGE OF ELEMENT NUMBERS  
SECONDARY ENTRY POINT FOR: GETRAG  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  IDISER  IDOTAM  IDRAG  IDTHKED  IDPAC

GETRAG  ENTRY CLASS: MAIN  SEGMENT: (PRM1)  
DESC: GETS A RANGE OF ELEMENT NUMBERS FOR ATTRIBUTE GENERATION  
LENGTH:  194  LANGUAGE:  FTN  
SECONDARY ENTRY POINTS:  GETRAGI  GETRAGI  
CAN BE CALLED BY:  IDKHEU  IDKNO  IDRWAT  
CAN CALL THE FOLLOWING:  IDISER  IDPAC

GETSIZ  ENTRY CLASS: MAIN  SEGMENT: (OB80)
DESCRIPTOR -- GET TEXT SIZE DEPENDING ON ZOOM LEVEL
LENGTH 71 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
GET.PUT
ENTRY CLASS: MAIN SEGMENT: (SO)
DESCR (NOT AVAILABLE)
LENGTH 106 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS
EXECUTE GET.J, SQ
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
THIS PROGRAM DOES NOT INVOK ANY OTHER PROGRAMS
GET.SQ
ENTRY CLASS: MAIN SEGMENT: (SO)
DESCR (NOT AVAILABLE)
LENGTH 106 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS
EXECUTE GET.J, SQ
EXIT
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
ERR.RM READ.SQ RM.CIO RM.RCLA RM.RCLP
CLEV.SQ RM03.SQ RM04.SQ WNB=
GET.Z
ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESCR (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR 1 Z.SQ
CAN CALL 1 Z.YI
GFLUSH
ENTRY CLASS: MAIN SEGMENT: (GO)
DESCR (NOT AVAILABLE)
LENGTH 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GIFOR, POMPY
CAN CALL THE FOLLOWING:
GIALRM
ENTRY CLASS: MAIN SEGMENT: (GO)
DESCR INTERTEK - RING MY CHIMES
LENGTH 18 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MIX.CS, POMPY, MIX.YI, PAGER
CAN CALL THE FOLLOWING:
Giasio
ENTRY CLASS: MAIN SEGMENT: (M32)
DESCR INTERTEK - ASSIGN CATEGORY TO KEYBOARD KEY
LENGTH 40 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MIX.CS, POMPY, MIX.YI
MIX.PAGER
CAN CALL THE FOLLOWING
GCS EN

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 GCOPAR GCOSAR GCGONE GCGONE
GOCAT GOCAT GCRESI GCORAN GCINPC
GOGET GOTOER, DMKLD

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, GRENIT, IPICK, DEINIT
MENINIT, SETCAT
CAN CALL THE FOLLOWING:
GCS EN, GIEH

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, OMLRD

GIDAEI ENTRY CLASS: 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:
GIDAEI CAN BE CALLED BY:
MOSPLT, CLRPIC, GINIT, MENINIT
CAN CALL THE FOLLOWING:
GOSTYP, GCRESI, ITOJ.

GIDELT ENTRY CLASS: MAIN SEGMENT: (G10)
DESC: INTERTEK - DELETE ENTITY
LENGTH: 156 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER, EXSTAR, MOAXES, MOZCRS, MOSOS
CHNGDP, CLROUT, PONPEP, MXYI, PROCX.
STRUCTURAL ANALYSIS VIA GENERALIZED INTERACTIVE GRAPHICS - STAG--ETC(U)
SEP 79 L E HULBERT, C SCOFIELD
AFFDL-TR-79-3074

END
0-90
GTHC

END
9-90
GTHC
T OSDPCLG  CLIPIC   TYPANH   ERASER   F U T E D T
SELATT  ALTG   EXINIT   IPPRMT   IODMAT
ERMAC    IOFEX    DELETE   DELSF
CAN CALL THE FOLLOWING:
GCGTYP   GCSLFT   GCSLFT   GCSRIT   GCSRIT
GCGRPK   GCPPKG

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:
EROSEM
CAN CALL THE FOLLOWING:
GOMPID  GCORAW

GIDUP
ENTRY CLASS: MAIN   SEGMENT: (G13)
DESC: INTERTEK - DUPLICATE ITEM
LENGTH: 231   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOFR?
CAN CALL THE FOLLOWING:
GCGARR  GCGARR  GCGTYP  GCGSF  GCGSF
GCGLEN  GCSLFT  GCGLFT  GCSRIT  GCSRIT
GCGONE  GCGLID  GCUCAT  GCRITS  GCDRAW
GCGFILL  GCPPSF

GIERR
ENTRY CLASS: MAIN   SEGMENT: (S1)
DESC: INTERTEK - REPORT ERROR
LENGTH: 122   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DEINITI  GCRESI  "GULIN"  "GITEM"  "GICAT"
GUTEFX  GUSETP  GISHOW  GIXTND
CAN CALL THE FOLLOWING:
GFLUSH  GPUTIN  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:
MOREXT  MOCSS3  FIXDAT  PONPEN  MXYP
CAN CALL THE FOLLOWING:
GSCLIM

GINIT
ENTRY CLASS: MAIN   SEGMENT: (M5)
DESC: INTERTEK - INITIALIZE INTERTEK
LENGTH: 431   LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GRFIN
CAN CALL THE FOLLOWING:
GOMPID  GRPRES  GISUBF  GIADE  GISHOW
GOTOER, REQUEST OMINIT  RETURN

90
GIPARM
ENTRY CLASS: SECONDARY SEGMENTS (G11)
DESCR INTERTEK - GET PARAMETER PICK INFORMATION
SECONDARY ENTRY POINT FOR 1 GISNL
CAN BE CALLED BY:
  DRIVER

GISHOW
ENTRY CLASS: MAIN SEGMENTS (G12)
DESCR INTERTEK - TURN SUBFILE ON OR OFF IN A DAE
LENGTH: 155 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DRIVER MOFIE MOFRI GRID CLRPIE
  GINIT IPPAMT DELSF
CAN CALL THE FOLLOWING:
  GCGTYP GCGIAN GCGUPD GCPKDS GIERR

GISNL
ENTRY CLASS: MAIN SEGMENTS (G11)
DESCR INTERTEK - GET SINGLE PICK INFORMATION
LENGTH: 151 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
  GIST - GIPARM
CAN BE CALLED BY:
  DRIVER
CAN CALL THE FOLLOWING:
  GCGARR GCGLEN GCGONE

GISTR
ENTRY CLASS: SECONDARY SEGMENTS (G11)
DESCR INTERTEK - GET STRING PICK INFORMATION
SECONDARY ENTRY POINT FOR 1 GISNL
CAN BE CALLED BY:
  DRIVER

GISUBF
ENTRY CLASS: MAIN SEGMENTS (G0)
DESCR INTERTEK - SUBFILE CREATOR
LENGTH: 20 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DRIVER MOFRI GRID CLRPIE GINIT
  TYHPNH PUTFIT SELATT MENVIT
CAN CALL THE FOLLOWING:
  GCSARR GCSNP GCSUPD GCSRESI

GITEM
ENTRY CLASS: MAIN SEGMENTS (G0)
DESCR INTERTEK - ITEM CREATOR
LENGTH: 374 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
  DRIVER EXSTAR MOAXES MOZCRS GRID
  GRENIN LIBNS PONPEN MXI TYHPNA
  PUTFIT SELATT GLTOP IPPAMT MENVIT
  IDISET MITEM
CAN CALL THE FOLLOWING:
  GCSARR GCGTYP GCGSIF GCGSIF GCGSIF GCSRESI GCDRAW
  GCUPSF GCSETI GIERR
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:
GLOEFS 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:
IGNM IGPCKM GICAT PUTLINE IGDEF
GLFILN ENTRY CLASS: SECONDARY  SEGMENT: (MEN1)
DESC: SET UP FILE FOR SAVING DATA BASE IN #GLOBAL
SECONDARY ENTRY POINT FOR FMILNAH
CAN BE CALLED BY:
GLTable CAN CALL THE FOLLOWING:
GLTOP PUTLIN
GLFIN ENTRY CLASS: SECONDARY  SEGMENT: (DRIVE)
DESC: TERMINATE #GLOBAL MODE
SECONDARY ENTRY POINT FOR GLINIT
CAN BE CALLED BY:
GLTable CAN CALL THE FOLLOWING:
GLTOP IGLKHM IBEAUT PUTLIN IGFTR
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:
GLOEFS 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 IGPCKM GICAT PUTLINE IGDEF
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 PPtable PPTABLE
GLTable TRKOFF SETCAT GICAT EDITT IGFTR
GLLGN ENTRY CLASS: MAIN  SEGMENT: (GL1)
DESC: DISPLAY NEXT LEVEL DOWN IN COMMAND TREE
LENGTH: 123  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
GLTable
Can be called by:
GLTable
Can call the following:
GLTOP, IGPCKM, PUTLIN, IGSN

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, IGPCKM, PUTLIN, IGSN

GLoint
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, BLOINT, GBUBF

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, IDEAUT, NAMFNM, PUTLIN, IGATT, ID0RIT, ID0LFT, IDBNAM, DIBATT

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, IDEAUT, PUTLIN, ID0BRT, IDBNAM

GLSTOP
Entry class: MAIN
Segment: (GL1)
Desc: Stop the 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:
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Language</th>
<th>Length</th>
<th>Secondary Entry Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLNIT</td>
<td><strong>CAN CALL THE FOLLOWINGSWITCHES</strong>: GLFIN, GFLIN, IGLDEC, MOAXNF, MOZRS</td>
<td>FTN</td>
<td>51</td>
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</tr>
<tr>
<td></td>
<td><strong>MOZS</strong>: MOZINT, MOZGFS, MOZLPS, MOZMN</td>
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<td>GLSTOP, GLCHCK, GLCHCT, GLCLOCK, GLHIST</td>
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<tr>
<td></td>
<td>GLLU, GLLL, GLSTIB, GLSTOS, GLDEFS</td>
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<td>MODRH, SVIEW, SVIEWP, MOSPLT, MOSG, MOSRE, MOZ2, MOASHK, MOISHK, MOSSHK</td>
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<tr>
<td></td>
<td>MOUSE, SROSET, SROST, ERASER, ERASEN, MOREC, MOSY, MOSPH, ONPENS</td>
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</tr>
<tr>
<td>GLTOP</td>
<td><strong>ENTRY CLASS</strong>: MAIN SEGMENT (M30) <strong>LANGUAGE</strong>: FTN <strong>LENGTH</strong>: 51 <strong>HAS NO SECONDARY ENTRY POINTS</strong></td>
<td>FTN</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>DESC</strong>: MOVE ALPHA CURSOR TO HOME ON SCREEN <strong>ENTRY POINTS</strong>: GLTOP</td>
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<tr>
<td>GOTOER</td>
<td><strong>ENTRY CLASS</strong>: MAIN SEGMENT (S0) <strong>LANGUAGE</strong>: COMPASS <strong>LENGTH</strong>: 14 <strong>SECONDARY ENTRY POINTS</strong>: GOTOER <strong>ENTRY POINTS</strong>: GOTOER</td>
<td>COMPASS</td>
<td>14</td>
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<tr>
<td></td>
<td><strong>DESC</strong>: COMPUTED GO TO ERROR PROCESSOR <strong>ENTRY POINTS</strong>: GOTOER, GOTOER</td>
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<tr>
<td>GOTOER.</td>
<td><strong>ENTRY CLASS</strong>: SECONDARY SEGMENT (S0) <strong>ENTRY POINTS FOR GOTOER</strong>: GOTOER</td>
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<td><strong>DESC</strong>: (NOT AVAILABLE) <strong>ENTRY POINTS</strong>: GOTOER <strong>ENTRY POINTS</strong>: GOTOER</td>
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<tr>
<td>GPRESET</td>
<td><strong>ENTRY CLASS</strong>: MAIN SEGMENT (G0) <strong>LANGUAGE</strong>: FTN <strong>LENGTH</strong>: 3 <strong>HAS NO SECONDARY ENTRY POINTS</strong></td>
<td>FTN</td>
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<tr>
<td></td>
<td><strong>DESC</strong>: INTERTEK – INITIALIZE CONSTANTS IN COMMON BLOCK <strong>ENTRY POINTS</strong>: GPRESET</td>
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<tr>
<td>GINIT</td>
<td><strong>ENTRY CLASS</strong>: mainSEGMENT (M5) <strong>ENTRY POINTS</strong>: GINIT <strong>ENTRY POINTS</strong>: GINIT</td>
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<td><strong>DESC</strong>: INTERTEK – INITIALIZE DATA BASE DEPENDENT GRAPHICS INFO <strong>ENTRY POINTS</strong>: GINIT</td>
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<td><strong>ENTRY POINTS</strong>: GINIT <strong>ENTRY POINTS</strong>: GINIT <strong>ENTRY POINTS</strong>: GINIT</td>
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<tr>
<td>GDRNIT</td>
<td><strong>ENTRY CLASS</strong>: mainSEGMENT (M5) <strong>ENTRY POINTS</strong>: GDRNIT <strong>ENTRY POINTS</strong>: GDRNIT</td>
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<td><strong>DESC</strong>: INTERTEK – INITIALIZE DATA BASE DEPENDENT GRAPHICS INFO <strong>ENTRY POINTS</strong>: GDRNIT</td>
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<td><strong>ENTRY POINTS</strong>: GINIT <strong>ENTRY POINTS</strong>: GINIT <strong>ENTRY POINTS</strong>: GINIT</td>
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</tbody>
</table>

95
<table>
<thead>
<tr>
<th>Function</th>
<th>Entry Class</th>
<th>Secondary Segment</th>
<th>Description</th>
<th>Length</th>
<th>Language</th>
<th>Has No Secondary Entry Points</th>
<th>Can Be Called By</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRFINIT</td>
<td>MAIN</td>
<td>(M5)</td>
<td>INITIALIZE GRAPHICS FOR INTERTEK</td>
<td>71</td>
<td>FTN</td>
<td>No Secondary Entry Points</td>
<td>DRIVER</td>
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<tr>
<td>GRID</td>
<td>MAIN</td>
<td>(M8121)</td>
<td>X-Y PLOTS - DRAW X-Y PLOT GRID</td>
<td>573</td>
<td>FTN</td>
<td>No Secondary Entry Points</td>
<td>GINIT, GICAT, EDITION</td>
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<tr>
<td>GRID</td>
<td>MAIN</td>
<td>(PR2)</td>
<td>DRAW DRAFTING PACKAGE GRID</td>
<td>225</td>
<td>FTN</td>
<td>No Secondary Entry Points</td>
<td>PROCKA</td>
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<tr>
<td>GRSJG</td>
<td>SECONDARY</td>
<td>(S0)</td>
<td>(NOT AVAILABLE)</td>
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<td>No Secondary Entry Point For INTFLG</td>
<td>FSU. SQ</td>
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<tr>
<td>GSSXY</td>
<td>SECONDARY</td>
<td>(DE41)</td>
<td>X-Y PLOTS - SET LINEAR X / LINEAR Y</td>
<td></td>
<td></td>
<td>No Secondary Entry Point For INTFLG</td>
<td>DETABE</td>
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<td>SECONDARY</td>
<td>(DE41)</td>
<td>X-Y PLOTS - SET LINEAR X / LOG Y</td>
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<td>No Secondary Entry Point For INTFLG</td>
<td>DETABE</td>
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<td>(DE41)</td>
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<td>DETABE</td>
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<tr>
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<td>SECONDARY</td>
<td>(DE41)</td>
<td>(NOT AVAILABLE)</td>
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<td>No Secondary Entry Point For INTFLG</td>
<td>DETABE</td>
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</table>
DESCI X-Y PLOTS - SET LOG X / LOG Y
SECONDARY ENTRY POINT FOR INTFLG
CAN BE CALLED BY:

GUBUF
ENTRY CLASS: MAIN
SEGMENT: (GO)
DESCI INTERTEK - INITIALIZE #BUF
LENGTH: 20
LANGUAGE: FOR
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLOINT
THIS PROGRAM DOES NOT INVOCBE ANY OTHER PROGRAMS

GULIN
ENTRY CLASS: MAIN
SEGMENT: (GO)
DESCI INTERTEK - PACK LINE DISPLAY INFORMATION
LENGTH: 121
LANGUAGE: FOR
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GRID PUTEOT LINZ IORMLN GUTEXT
CAN CALL THE FOLLOWING:
GCUPLY GCGETW GCSET GIERR

GUSETP
ENTRY CLASS: MAIN
SEGMENT: (G12)
DESCI INTERTEK - ESTABLISH ITEM STARTING POSITION
LENGTH: 68
LANGUAGE: FOR
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER EXSTAR MOAXS MOZCRS GRID
DRELN LIBINS PONPEN MXYI TYPNAM
PUTEDT SELATT GLTOP IPPRMT MENNIT
LINZ IORMLN IORWAD IDIERN
CAN CALL THE FOLLOWING:
GCUPLY GCGETW GCSET GIERR

GUTEXT
ENTRY CLASS: MAIN
SEGMENT: (G12)
DESCI INTERTEK - PACK CHARACTERS INTO #BUF
LENGTH: 245
LANGUAGE: FOR
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER EXSTAR MOLAX MOZCRS DRELN
LIBINS PONPEN MXYI TYPNAM PUTEDT
SELATT GLTOP IPPRMT MENNIT METAZ
IORWAD IORMLN IDIERN
CAN CALL THE FOLLOWING:
GCUPLY GCGETW GCSET GIERR

EXIT.SQ
ENTRY CLASS: SECONDARY
SEGMENT: (SO)
DESCI (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: GET.SQ
CAN BE CALLED BY:
ZSQ FSU.SQ

MOLO
ENTRY CLASS: MAIN
SEGMENT: (S1)
DESCI ERROR RECOVERY INQUIRY
LENGTH: 327
LANGUAGE: FOR
HAS NO SECONDARY ENTRY POINTS

97
CAN BE CALLED BY:
ROOVER
CAN CALL THE FOLLOWING:
GERACE  ICHR  IBEAUT  GETLIN  PUTFUN
IYIFLDI  DMP  IOCTAL
IALATT
ENTRY CLASS: MAIN  SEGMENT: (SO)
DESCR: MAKE UP ALPHANUMERIC VALUE FOR ATTRIBUTE
LENGTH: 93  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
PUTATT IORHAT
CAN CALL THE FOLLOWING:
ICCHR  IBEAUT
TARSEY
ENTRY CLASS: MAIN  SEGMENT: (M822)
DESCR: SET UP ARROW DRAWING
LENGTH: 130  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
ARROW
CAN CALL THE FOLLOWING:
SORT.
IBEAUT
ENTRY CLASS: MAIN  SEGMENT: (SO)
DESCR: CONVERT NUMBER TO CHARACTERS
LENGTH: 300  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
GLHST  GLST03  GLSTDS  SVIEW  SROST
CMGPI  OPELN  MATTN  LIBINS  ICKRMG
CMT2D  ELREP1  ELKHEP  EMOVE  DYLAD
DYSFH  DYSFP  ATTEN  ATTNG  EDFEN
EATF  GNJINT  TYPNAM  TABPBC  TABXYM
TABSCX  PUTFST  MOPUT  REPFA  NUMBRG
IORHAY  IALATT  NAMNM  HOLD  DMP
ICATCH
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
ICAN
ENTRY CLASS: MAIN  SEGMENT: (G14)
DESCR: CHECK IF NEW INFORMATION WILL FIT IN DISPLAY FILE
LENGTH: 11  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
HOFZ
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
ICCHR
ENTRY CLASS: MAIN  SEGMENT: (SO)
DESCR: COUNT THE NUMBER OF CHARACTERS IN AN ARRAY
LENGTH: 13  LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
STARTM  FILATT  GLCHCK  GLCLOK  DRELN
MATNM  LIBINS  IECPRG  PROCX  GROXT
TYPNAM  PUTFST  SELATT  INDATA  IDRWN
IORHAY  IALATT  HOLD  IPFUT  DBINIT
IGETCH

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

ICHKEO
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:
MOD RSWP SROF CHNGP GE0 RAG
IDCPRC ETYPSV RNGEL RNGDRW PTYPE
EGNUM ELREPP EMOVE DYSFSU DYSSTP
ATTREQ ATTREQ ERNLO EATS ESERCH
ASERCH SSAOFF CNTPE TABXYP TACSCL
TABDY PROFAC
CAN CALL THE FOLLOWING:
ICKACT COMPASS

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 ERNLO EA00N EATS ORM1ACT
EQUEUP DELETE ACTIVA IDB8AN
CAN CALL THE FOLLOWING:
IDBRT

ICKAYT
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: (DB0)
DESC: GRAPHICS CHECKING - CHECK IF #1BUFF WILL BE OVERFLOWED
LENGTH: 44 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
METAZZ LIN7Z I1DRILN
CAN CALL THE FOLLOWING:
NEXTN I1TEM IDEDAD

ICKNG
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 RNGEL RNGDRW EONUM ELREPP
ERNDO
CAN CALL THE FOLLOWING:
IDEAUT IDBFNU IDBRIT IDBLI1T

ICKSL
ENTRY-CLASS: "MAIN" SEGMENT: (DE3)
DESCI: CHECK IF DISPLACEMENT SLICE IS ACTIVE IN DATA BASE
LENGTH: 66  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DYSSTP  DYSUJE
CAN CALL THE FOLLOWING:
ISACT

ICON  ENTRY CLASS: MAIN  SEGMENT: (H621)
DESCI SET UP CONNECTIVITY ARRAYS FOR DRAWING
LENGTH: 207  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDRWEI
CAN CALL THE FOLLOWING:
-IDGERS

ICPART  ENTRY CLASS: MAIN  SEGMENT: (PR1)
DESCI CONVERSION() - DUMP OVERFLOW INFO INTO SUBSTRUCTURE BEAD
LENGTH: 63  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
ONELEM
CAN CALL THE FOLLOWING:
CLEAR  DSFET

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

IDBADD  ENTRY CLASS: MAIN  SEGMENT: (DB2)
DESCI ADD A BEAD AT A LEVEL
LENGTH: 226  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDBXT  CNTRM  ECPROC
CAN CALL THE FOLLOWING:
IDBRSV  OBRITE  OBLFR  OBUPS  OBTPY
OBSTET  OBNOME  OBDRT  OBLIFT  OBUPN
OBVON  OBVTY  OBVNA  OBCHA

IDBARR  ENTRY CLASS: MAIN  SEGMENT: (DB3)
DESCI CHANGE VALUES IN NO MANS LAND
LENGTH: 105  LANGUAGE: FTN
SECONDARY ENTRY POINTS:
OBARR
CAN BE CALLED BY:
ECMPRO  ECMAIL  OBGET  GETLIM  IDBTFM
CAN CALL THE FOLLOWING:
OMSET  OMGET  OBCHED  IDBYTP  IDBSTA
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<thead>
<tr>
<th>IDBNDP</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (080)</th>
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<tbody>
<tr>
<td>DESC1</td>
<td>GET WTH DOWN-POINTER</td>
</tr>
<tr>
<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBRUTE</td>
</tr>
<tr>
<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
</tr>
<tr>
<td>CNTERM</td>
<td>GLSTOD MXDF: DRELN MATDEF IDEDEC</td>
</tr>
<tr>
<td>ELREPL</td>
<td>ORWASP RETAIN LEMONE NODAEL SSAOFF</td>
</tr>
<tr>
<td>ERODTE</td>
<td>GETCNT GETCAT IENEXT GACTIN ORKACT</td>
</tr>
<tr>
<td>IDRGT</td>
<td>DRMSS NEXTIN ICKACT IOBCAN DBUPT DBDEL</td>
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<th>ENTRY CLASS: SECONDARY SEGMENT: (080)</th>
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<tbody>
<tr>
<td>DESC1</td>
<td>GET ACTIE RIGHT-POINTER</td>
</tr>
<tr>
<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBRIT</td>
</tr>
<tr>
<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
</tr>
<tr>
<td>CNTERM</td>
<td>GLSTOD MXDF: DRELN MATDEF IDEDEC</td>
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<td>DRMSS NEXTIN ICKACT IOBCAN DBUPT DBDEL</td>
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<td>DESC1</td>
<td>FIND A READ ADDRESS</td>
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<tr>
<td>LENGTH</td>
<td>212 LANGUAGE: FTN</td>
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<tr>
<td>CANTFL</td>
<td>HAS NO SECONDARY ENTRY POINTS</td>
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<td>CNTERM</td>
<td>CAN BE CALLED BY:</td>
</tr>
<tr>
<td>CNTABL</td>
<td>ORFHR CNTFRM CNTER CNTABL MATDEF</td>
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<td>ECKRNG</td>
<td>IEGNNG SPCHK</td>
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<tr>
<td>IDBGET</td>
<td>CAN CALL THE FOLLOWING:</td>
</tr>
<tr>
<td>IDBRT</td>
<td>IDBFTE IDBRT IDFNM IDBTE</td>
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<td>IDBFTY</td>
<td>ENTRY CLASS: SECONDARY SEGMENT: (083)</td>
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<tr>
<td>DESC1</td>
<td>GET FORMAT TYPE</td>
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<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBTY</td>
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<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
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<td>CNTABL</td>
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<tr>
<td>DESC1</td>
<td>GET WTH WORD</td>
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<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBUPP</td>
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<tr>
<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
</tr>
<tr>
<td>CNTERM</td>
<td>ORFHR CNTFRM CNTER CNTABL MATDEF</td>
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<td>IDBLEN</td>
<td>DBCH:IO IDBUPP IDBCAN DBUPT</td>
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<td>DESC1</td>
<td>READ LENGTH</td>
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<tr>
<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBRIT</td>
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<tr>
<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
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<tr>
<td>CNTERM</td>
<td>DBCH:IO IDBUPP IDBCAN DBUPT</td>
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<tr>
<td>DESC1</td>
<td>LEFT DATA BASE POINTER</td>
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<tr>
<td>DESC2</td>
<td>SECONDARY ENTRY POINT FOR: IDBRIT</td>
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<tr>
<td>CANTFL</td>
<td>CAN BE CALLED BY:</td>
</tr>
<tr>
<td>CNTERM</td>
<td>GLSTOD IDRXNT CNTERM CNTABL MYINIT</td>
</tr>
<tr>
<td>ECKRNG</td>
<td>IEGNNG CNTFRM CNTER GORIT IDBFND</td>
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<tr>
<td>IDBLEFT</td>
<td>DBCH:IO IDBCAN IDBACG DBDEL</td>
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<tbody>
<tr>
<td>DESC1</td>
<td>GET NAME</td>
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102
SECONDARY ENTRY POINT FOR: IDBUPP
CAN BE CALLED BY:
GLSTDB GLSTOS IDRNXT CNTER MYINIT
DRELY ELFPL ECHEAN EATF GETDAT
GRNIT TYPNAM IDRMAT IDBFNG OBLKUP
DBCHNM IDBAOB

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

IDBRIT
ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: GRAB RIGHT DATA BASE POINTER
LENGTH: 212 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
IDBLYF IDGUPS ID3UPN IDBNON IDBTYP
IDBLEN ID3AD IDBSTA IDBLOF IDBRT
IDBFAQ
CAN BE CALLED BY:
GLSTDB CNTERH CNTERI MATDEF ICKRNG
RNGDEL RINGWR EONUM PORQ MKYP
ERNDLL EPUTDN ESEARCH ECHKL GRNIT
TABACI PUTNAM DBFND GOBKUP DBCMHN
NEXTIN ID8CAN ID3ADB DADEL
CAN CALL THE FOLLOWING:
DMGET

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

IDBRSV
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 CNLESM CNNODE CNTABL IFATT
D3INIT ID3CAN IDBAOB
CAN CALL THE FOLLOWING:
DMGETBO DBLEN

IDBSTA ENTRY CLASS: SECONDARY SEGMENT: (DB0)
DESC: START OF ATTRIBUTE LIST
SECONDARY ENTRY POINT FOR: IDBRIT
CAN BE CALLED BY:
DBRITIE IDBUPP ID3CAN D8CHA DBUPT
DBGET ID3ARR

IDBTFM
ENTRY CLASS: MAIN SEGMENT: (DB3)
DESC: GFT TABLE FORMAT
LENGTH: 135 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
This entry is not invoked by any other programs.

IDBUPN ENTRY CLASS: SECONDARY SEGMENTS (OBO)
DESC: START OF UP-POINTER
SECONDARY ENTRY POINT FOR IDDBIT
CAN BE CALLED BY:
IDOBCN DUTCN IDDBUP DLBUP IDDBAB DBDEL

IDBUPP ENTRY CLASS: MAIN SEGMENTS (OBO)
DESC: GET NTH UP-POINTER
LENGTH: 173 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
IDOBUP IDOBAM IDOBGT IDBATT
CAN BE CALLED BY:
IDOBCN DUTCN IDDBUP DBDEL

IDBUPS ENTRY CLASS: SECONDARY SEGMENTS (OBO)
DESC: START OF UP-POINTER
SECONDARY ENTRY POINT FOR IDDBIT
CAN BE CALLED BY:
DUTCN IDDBUP DBUP

IDDEEC ENTRY CLASS: MAIN SEGMENTS (OE0)
DESC: DISPLAY AND EDIT MENU DECISION FUNCTION
LENGTH: 268 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DUTCN IDDBUP DBUP

IDINF ENTRY CLASS: MAIN SEGMENTS (G14)
DESC: SPLIT UP LEAD ADDRESS
LENGTH: 7 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRELN TYPNAM

This program does not invoke any other programs.
IDISER
ENTRY CLASS: MAIN  SEGMENT: (GO)
DESC: DISPLAY AND EDIT ERRORS
LENGTH: 332  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER FILATT GLCHCK MOORW VIEWEP
MOFRZ SKOTET MYINIT GETRAP MATIN
ALLON ICPCNC ETYPSV ANGDEL GNORM
PITYPE EDAKRA ELRIPP EMOVE OYSFPN
PDTYPE MYINT NUMEDA ECHOPO ERNDLO
EATS EPUTDN ESERCH ASERCH SSAOFF
CNTRE GETCNT PROCXA GTOAT IENEXT
SELATT TABACT TABPCC TABYXP TABSCIL
TABOM OACTSN PUTATT PROFAC ORNACT
ESLOT OPMN
CAN CALL THE FOLLOWING:
GODRAW GIFHIDE GITEN GLIGEL GUTENV
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:
IDO STR FIXDAT
CAN CALL THE FOLLOWING:
ICOBFT ICDJNM ICDADB

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:
FIXDAT OKWATA OKWATT ORWACI
CAN CALL THE FOLLOWING:
GETCO GETCEX GETCOR IDRAW ARROW
GIDEPT GUTFXT MXTN UTHAS ICCHRI
IBBEAUT IALATT WAMFNM GOTOER, IGRUT
IDBDAA IDDBAD IOBAD IDBNNM OBIATT
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 IDRX
CAN CALL THE FOLLOWING:
IDRWNM IDRWO GETCEN GETCOR ICON
GUSETP UTHAS GOTOER, IDBDNN IIOBAD
IDBNNP OBATT

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:
IDRMEL ARROW
CAN CALL THE FOLLOWING:
IDRMW

IDRMNO ENTRY CLASS: MAIN SEGMENT: (M820)
DESC: DRAW NOTE BEAD
LENGTH: 65 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDRMEL IDRM
CAN CALL THE FOLLOWING:
GETCOR GUTFXT GUSEP UTORAS IOCHR GETSIZ ICETCH

IDRWS ENTRY CLASS: MAIN SEGMENT: (M821)
DESC: DRAW SUBSTRUCTURE BEAD
LENGTH: 103 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDRWS IDRW
CAN CALL THE FOLLOWING:
IDREL DDBAD IDBONN IDBONP

IDRWS ENTRY CLASS: MAIN SEGMENT: (M821)
DESC: DRAW SUBSTRUCTURE BEAD
LENGTH: 67 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IDRWS
CAN CALL THE FOLLOWING:
IDRWS DDBAD IDBONN IDBONP IDBONP

IDRWM ENTRY CLASS: MAIN SEGMENT: (M821)
DESC: DRAW ANY LEVEL BEAD IF UNDISPLAYED
LENGTH: 103 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GOSTR FIXCAT ALLON RNGREW NODAEW NOFEL LPNOD ASERCH IDRMAT IDWACT
IDRMS
CAN CALL THE FOLLOWING:
IDREL IDRWM IDRWS IDBONN IDBONP IDBONP

IDCPC 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:
IDCPC EATS
CAN CALL THE FOLLOWING:
PUTCST IDISK ICCH GCHED COMPAC
IDJFN
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 INODRT 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:
EXEC
CAN CALL THE FOLLOWING:
NAMFNM IGATT

IFATT  ENTRY CLASS: MAIN SEGMENT: (DBO)
DESC: FETCH THE LOCATION OF ALPHANUMERIC ATTRIBUTE
LENGTH: 159  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CNNEW MATOEF ATTRNG DBINIT D3CHA
CAN CALL THE FOLLOWING:
DMSET DMGET IGATT ISACT
IDR5V NUMFNM IDGTYP

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

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

IGDEF  ENTRY CLASS: SECONDARY SEGMENT: (DBO)
DESC: RETRIEVE DEFINITION FIELD FROM MENU BEAD
SECONDARY ENTRY POINT FOR # IGFR
CAN BE CALLED BY:
GLDEFP
**IGDFV**
ENTRY CLASS: SECONDARY SEGMENT (M32)
DESC: RETRIEVE DEFAULT VALUE FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGPCKM
CAN BE CALLED BY:
DRIVER EXEC

**IGDVN**
ENTRY CLASS: SECONDARY SEGMENT (M80)
DESC: RETRIEVE DEFAULT INFO COUNTER FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:

**IGDVS**
ENTRY CLASS: SECONDARY SEGMENT (M80)
DESC: RETRIEVE DEFAULT INFO FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:

**IGETCH**
ENTRY CLASS: MAIN SEGMENT (M83)
DESC: GET_ATTRIBUTE NAME ABBREVIATION
LENGTH: 132 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IGMWD
CAN CALL THE FOLLOWING:
IIGNX IGEAUT IGGATT IGBATT

**IGFTR**
ENTRY CLASS: MAIN SEGMENT (M80)
DESC: RETRIEVE POINTER TO FATHER FROM MENU BEADS
LENGTH: 360 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
IGPVX IGLNX IGPCT IGRUT IGTAL
IGPSK IGPSY IGEF IGPNC IGPW
IGPS IGPEC IGRW IGRS IGPON
IGPCS IGDVX IGDWS IGOPT
CAN BE CALLED BY:
DRIVER STARTM GLIST GLHIST GLLUP
CAN CALL THE FOLLOWING:
OMGET

**IGLDEC**
ENTRY CLASS: MAIN SEGMENT (GLO)
DESC: GLOBAL MENU DECISION FUNCTION
LENGTH: 123 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTALE
CAN CALL THE FOLLOWING:
GOTDER.

**IGLNK**
ENTRY CLASS: SECONDARY SEGMENT (M80)
DESC: RETRIEVE POINTER TO NEXT BROTHER FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
DRIVER GLLUP GLLON MENNIT
**IGNM**

**ENTRY CLASS:** MAIN  
**SEGMENT:** (GL2)

**DESCI:** (NOT AVAILABLE)

**LENGTH:** 39  
**LANGUAGE:** FTN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY:**

**GLDEFP**

**CAN CALL THE FOLLOWING:**

**DMGET**

**IGOPT**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (OBO)

**DESCI:** RETRIEVE OPTION FIELD FROM MENU BEAD

**SECONDARY ENTRY POINT FOR I IGFR**

**CAN BE CALLED BY:**

**DRIVER**

**IGPCKM**

**ENTRY CLASS:** MAIN  
**SEGMENT:** (H32)

**DESCI:** RETRIEVE PICK MESSAGE

**LENGTH:** 140  
**LANGUAGE:** FTN

**SECONDARY ENTRY POINTS:**

**IGPRMM  IGDFV**

**CAN BE CALLED BY:**

**DRIVER  GLHIST  GLUP  GLDN  GLDEFP**

**MENNIT**

**MEN**

**CAN CALL THE FOLLOWING:**

**IGPNC  IGPMW  IGPS  IGPRC  IGPRW**

**IGPRS  IGPCN  IGPCS  IGDVN  IGDVS**

**DMGET**

**IGPCN**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (OBO)

**DESCI:** RETRIEVE WORDS IN ID BLOCK FOR PICK MSG FROM MENU BEAD

**SECONDARY ENTRY POINT FOR I IGFR**

**CAN BE CALLED BY:**

**IGPCKM**

**IGPCS**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (OBO)

**DESCI:** RETRIEVE ADDR OF ID WORDS FROM MENU BEAD

**SECONDARY ENTRY POINT FOR I IGFR**

**CAN BE CALLED BY:**

**IGPCKM**

**IGPNC**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (OBO)

**DESCI:** RETRIEVE CHARACTERS IN PICK MESSAGE FROM MENU BEAD

**SECONDARY ENTRY POINT FOR I IGFR**

**CAN BE CALLED BY:**

**IGPCKM**

**IGPNC**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (OBO)

**DESCI:** RETRIEVE CHARACTERS IN PROMPTING MESSAGE FROM MENU BEAD

**SECONDARY ENTRY POINT FOR I IGFR**

**CAN BE CALLED BY:**

**IGPCKM**

**IGPNC**
IGPRMM
ENTRY CLASS: SECONDARY SEGMENT: (M32)
DESC: RETRIEVE PROMPT MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGPCMK
CAN BE CALLED BY:
IGPRMT

IGPRSK
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE ADDR OF PROMPTING MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
IGPCMK

IGPRW
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
IGPCMK

IGPSX
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE X-POSITION ON SCREEN FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
DRIVER

IGPSY
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE Y-POSITION ON SCREEN FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
DRIVER

IGPS
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE ADDR OF PICK MESSAGE FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
IGPCMK

IGRUT
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE SUBROUTINE NAME FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
DRIVER

IGSON
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE BEAD ADDRESS OF S0N FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
CAN BE CALLED BY:
DRIVER, GILLON

IGTBL
ENTRY CLASS: SECONDARY SEGMENT: (O80)
DESC: RETRIEVE ADDR OF SUBROUTINE FROM MENU BEAD
SECONDARY ENTRY POINT FOR I IGFTR
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:
DREAD  OMINIT
THIS PROGRAM DOES NOT INVOK 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:
DETAIL
CAN CALL THE FOLLOWING:
CLRPIC  RSETMG  GCXMIN  GCYMIN  GCCMAX

INIT2D
ENTRY CLASS: MAIN     SEGMENT: (45)
DESC: INITIALIZE 2D DRAWING MODE
LENGTH: 72      LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAIL  DRAWFR  GCXMIN  GCYMIN  GCCMAX

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

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

INSUBM
ENTRY CLASS: SECONDARY SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY GENERATION
SECONDARY ENTRY POINT FOR INTSUB CAN BE CALLED BY:

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

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

INTSUB ENTRY CLASS: MAIN SEGMENT: (PRM1)
DESC: INITIALIZE MATERIAL PROPERTY DATA BASE PROCESSING
LENGTH: 115 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
INTSUBS INTSUBS INTSUBM CAN BE CALLED BY:

INTEGER TO OCTAL REPRESENTATION LENGTH: 37 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS CAN BE CALLED BY:

IPFUT ENTRY CLASS: MAIN SEGMENT: (S1)
DESC: PERFORM 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:
GLIVIT "ERASER" "ERASEN" GIBUTN "GICAT"

IPPDSC ENTRY CLASS: MAIN SEGMENT: (PP)
DESC: POST-PROCESSOR MENU DECISION FUNCTION
LENGTH: 11 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS CAN BE CALLED BY:

**IPPRMT**
- 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:
- IPPRMN GIFT4 GIDELT GUTEXT GUSERP 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:
- PRTAUL
can call the following:
- GORDER

**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:

**ITSEA**
- ENTRY CLASS: MAIN SEGMENT: (M32)
- DESC: SCAN THE ACTIVE ATTRIBUTE LIST OF THE LEVEL FOR THE NAME GIVEN
- LENGTH: 79 LANGUAGE: FTN
- HAS NO SECONDARY ENTRY POINTS CAN BE CALLED BY:
- PRINCRG UEST4 ONNEM ICKSL GRONIT
- IFATT 103UPO
can call the following:
- IFATT NUMF4M

**ISWICH**
- ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)
- DESC: CALL THE SITUATION DEPENDENT FUNCTION SECONDARY ENTRY POINT FOR i 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 INVOKE BY ANY OTHER PROGRAMS
- THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
IT0J. ENTRY CLASS: SECONDARY SEGMENT: (50)

DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I IT0J=
CAN BE CALLED BY:
SETUP GIDE OMINIT RFILB SETFETR

TYIELD ENTRY CLASS: SECONDARY SEGMENT: (51)

DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I YIELD=
CAN BE CALLED BY:
EXEC YIELD1=

TYIELDS ENTRY CLASS: SECONDARY SEGMENT: (51)

DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I YIELD=
CAN BE CALLED BY:
EXEC YIELD1=

TYIELDI ENTRY CLASS: SECONDARY SEGMENT: (51)

DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I YIELD1=
CAN BE CALLED BY:
EXEC GCLK "HOLD"

TYIELD ENTRY CLASS: SECONDARY SEGMENT: (51)

DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I YIELD=
CAN BE CALLED BY:
YIELD1=

LABELS ENTRY CLASS: MAIN SEGMENT: (M122)

DESC: X-Y PLOTS - GENERATE X-Y PLOT LABELS
LENGTH: 1002 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCX
CAN CALL THE FOLLOWING:
NUMRGM SETSGM MLTPLG SEGMTG ALOGIO.

LANOE ENTRY CLASS: MAIN SEGMENT: (OE3)

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:
DETAB
CAN CALL THE FOLLOWING:
LFNOD IUBURT

LEGNDG ENTRY CLASS: MAIN SEGMENT: (M810)

DESC: (NOT AVAILABLE)
LENGTH: 26 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
NUMRGM TITLED

114
CAN CALL THE FOLLOWING:

**FOLLOWING LIBRARY**

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: 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:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Draw all nodes that own all the elements picked by the user

*Length*: 17  |  *Language*: FTN

Has no secondary entry points
Can be called by:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Make the call toidiw for fenode and lfnode

*Length*: 57  |  *Language*: FTN

Has no secondary entry points
Can be called by:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Process material property database

*Length*: 532  |  *Language*: FTN

Secondary entry point for: LIBINS

Can be called by:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Draw generic material type

*Length*: 114  |  *Language*: FTN

Has no secondary entry points
Can be called by:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Create X-Y plot or contour plot line segment

*Length*: 103  |  *Language*: FTN

Has no secondary entry points
Can be called by:

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Can call the following:

- CNTABL
- MATCH
- PUTEDT
- GADRAW
- GHIDE
- GITEM
- GOUTEX
- GASETP
- ICCHR
- ISAEAT
- ICRAK
- OMGET

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Can call the following:

- TYPVAL
- OMGET

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Can call the following:

- CTOR
- QIKGRF
- GRID
- SCAN

---

**ENTRY CLASS**: MAIN  
**SEGMENT**: (DE3)

Description: Can call the following:

- METAZ

<table>
<thead>
<tr>
<th>LINZZ</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (M610)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>496/495 - draws a line with beam on or off</td>
<td></td>
</tr>
<tr>
<td>LENGTH:</td>
<td>67</td>
<td>LANGUAGE: FTN</td>
</tr>
<tr>
<td>HAS NO SECONDARY ENTRY POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>META27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CALL THE FOLLOWING:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID383Y, ID597Z, ID614I, ID650Y, ID689U, ID709R, UTORAS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LSLOH</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (DE41)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>X-Y PLOTS - SET LONG DASH PLOT</td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I INTFLG</td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
</tr>
<tr>
<td>DETABLE</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LSSOH</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (DE41)</th>
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</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>X-Y PLOTS - SET SHORT DASH PLOT</td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I INTFLG</td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
</tr>
<tr>
<td>DETABLE</td>
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</table>

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<thead>
<tr>
<th>LSSLD</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (DE41)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>X-Y PLOTS - SET SOLID LINE PLOT</td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I INTFLG</td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
</tr>
<tr>
<td>DETABLE</td>
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</table>

<table>
<thead>
<tr>
<th>LTEST</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (M8140)</th>
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</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>CONTOUR PACKAGE CRITERIA TESTER</td>
<td></td>
</tr>
<tr>
<td>LENGTH:</td>
<td>46</td>
<td>LANGUAGE: FTN</td>
</tr>
<tr>
<td>HAS NO SECONDARY ENTRY POINTS</td>
<td></td>
<td></td>
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<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>META27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>MARK</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (DRIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>INITIALIZE RECOVERY PACKAGE</td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I RECOVER</td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
</tr>
<tr>
<td>DRIVER, GLCLOK</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATDEF</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (PRM2)</th>
</tr>
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<tbody>
<tr>
<td>DESC:</td>
<td>NOT AVAILABLE!</td>
<td></td>
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<tr>
<td>LENGTH:</td>
<td>301</td>
<td>LANGUAGE: FTN</td>
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<tr>
<td>HAS NO SECONDARY ENTRY POINTS</td>
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<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATIN, LIBINS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CALL THE FOLLOWING:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID8BFD, IDFA, IDBRT, IDBNN, IDBDRT, IDBON, IDATT, IDBCHA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATINS</th>
<th>ENTRY CLASS: SECONDARY SEGMENT: (PRM2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC:</td>
<td>RETRIEVE USER INPUT FOR MPDB</td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I MATIN</td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY:</td>
<td></td>
</tr>
</tbody>
</table>
PRTA3LE

ENTRY CLASS: MAIN  SEGMENT: (PRM2)

DESCI: ROUTINE TO INPUT MATERIAL PROPERTIES FROM (TYPE-IN)

LENGTH: 301 LANGUAGE: FTN

SECONDARY ENTRY POINTS:

MATINS

CAN BE CALLED BY:

PRTA3LE

CAN CALL THE FOLLOWING:

CNTRL MATDEF PUTEOT IDISER ICCHRM

IBEAUT ICRAKX

M8EAD

ENTRY CLASS: MAIN  SEGMENT: (080)

DESCI: MAKE A READ ADDRESS FROM ID ARRAY

LENGTH: 33 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

M8EAD

EMERG ERMATT DELPIC RETAIN LFNODE

NOFEL END EACTPN EADOWN EQPN

TABP4G SSOFF

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MCT.RM

ENTRY CLASS: MAIN  SEGMENT: (S1)

DESCI: (NOT AVAILABLE)

LENGTH: 227 LANGUAGE: COMPASS

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

MCT.RM

CLSF.RM OPEN.RM CLSF.RM

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

MENNIT

ENTRY CLASS: MAIN  SEGMENT: (M32)

DESCI: START GLOBAL AND EXECUTIVE MENUS

LENGTH: 273 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

MENNIT

DRIVER

CAN CALL THE FOLLOWING:

START電腦 GISOD IGOPKM GISUBF GCHIGH

GCWIDE GITFM GICAT GIAE GUTEXT

GUESEP UGLNK

METAZZ

ENTRY CLASS: MAIN  SEGMENT: (M610)

DESCI: 4060/1GS - LOW-LEVEL DRIVER WHICH FORMATS ALL PLOT COMMANDS

LENGTH: 645 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY:

METAZZ

DIGRAPH LEGEND LINESG POINTG

MLTPLG SEGMTG

CAN CALL THE FOLLOWING:

ICKBY LINZZ SCALZZ GUTEXT MEXTN

MITEM UTONAS GESIZ

MEXTN

ENTRY CLASS: MAIN  SEGMENT: (G14)

DESCI: GRAPHICS CHECKING - EXTENDS AN EXISTING ITEM
ITEM
ENTRY CLAS S: MAIN SEGMENTS: (G14)
DESC: DISPLAY GRAPHICS CHECKING - GENERATE AN ITEM
LENGTH: 20 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
IK42T METAZZ IDRMAT IDRM
CAN CALL THE FOLLOWING:
GIXTN

MLTPLG
ENTRY CLAS S: MAIN SEGMENTS: (M8120)
DESC: (NOT AVAILABLE)
LENGTH: 64 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GRID "LABELS"
CAN CALL THE FOLLOWING:
METAZ

MOASHK
ENTRY CLAS S: MAIN SEGMENTS: (GL3)
DESC: MOD PICTUE R - SHRINK ALL ELEMENTS ON SCREEN
LENGTH: 21 LANGUAGE FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE MOASHK
CAN CALL THE FOLLOWING:
MOASHK DMADT

MOAXES
ENTRY CLAS S: MAIN SEGMENTS: (GLO)
DESC: MOD PICTUR E - DRAW 3D AXES
LENGTH: 130 LANGUAGE FTN
SECONDARY ENTRY POINTS:
MOAXF, MOAXL
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
MOAXF ARROW, ITEM, CIDELT, GUSETP, UTORAS

MOAXET
ENTRY CLAS S: SECONDARY SEGMENTS: (GLO)
DESC: "REDRAW-AXES"
SECONDARY ENTRY POINT FOR MOAXES
CAN BE CALLED BY:
MODRAX

MOAXNF
ENTRY CLAS S: SECONDARY SEGMENTS: (GLO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR MOAXES
CAN BE CALLED BY:
GLTABLE
MOBOTH
ENTRY CLASS: MAIN
SEGMENT: (M51)
DESC: MOD PICTURE - RESET ZOOM AND VIRTUAL WINDOW FOR #IDAEMS
LENGTH: 20 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
M0SZS
CAN CALL THE FOLLOWING:
SETWZ ERASEM

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

MOORW
ENTRY CLASS: MAIN
SEGMENT: (GL3)
DESC: MOD PICTURE - REFRAY 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:
MOORW PUTEDT IDISER SCALST CNVTOC
ICKED COPAC

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:
MOORW 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:
GISHOW INIVER DELSF GISHOW GIDUP
IGCN INBOAD IGORT

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:
OK WONE 1G9TYP, 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:
GTEXT, 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, CVTOU, IDEAUT

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

MORC10
ENTRY CLASS: MAIN
SEGMENT: (GL0)
DESC: MOD PICTURE - RECENTER DISPLAY FILE AROUND CROSSHAIRS
LENGTH: 74 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE
CAN CALL THE FOLLOWING:
GIFETS, SETHZ, GITRAK, ERASEM

MORDW
ENTRY CLASS: MAIN
SEGMENT: (GL0)
DESC: MOD PICTURE - REDRAW ACTIVE BEADS
LENGTH: 29 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
"FRONTVU", "SIDEVU", "TOPVU", "M0FILL", "M0DRW"
SWIPNP, SROJET
CAN CALL THE FOLLOWING:
M0AXET, ERASEN, ORHACT

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:
MOSCUE
ENTRY CLASS: SECONDARY SEGMENTS (S1)
DESCI: NOT AVAILABLE
SECONDARY ENTRY POINT FOR SYS=1ST
CAN BE CALLED BY:
SYS=AID

MOSOS
ENTRY CLASS: MAIN SEGMENTS (GL3)
DESCI: MOD PICTURE - DEACTIVATE SPLIT-SCREEN MODE
LENGTH: 35 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
GLTABLE, MOSSRS
CAN CALL THE FOLLOWING:
SETWZ, GIDEI, ERASEM

MOSPH
ENTRY CLASS: SECONDARY SEGMENTS (M33)
DESCI: MOD PICTURE - SET SPHERICAL COORDINATES ENTRY MODE FOR PLOT LIMITS
SECONDARY ENTRY POINT FOR 1 MOREC
CAN BE CALLED BY:
GLTABLE, MOSSRS

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

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

MOUSHK
ENTRY CLASS: SECONDARY SEGMENTS (GL3)
DESCI: MOD PICTURE - TERMINATE SHRINK MODE
SECONDARY ENTRY POINT FOR MOSSHK
CAN BE CALLED BY:
GLTABLE, MOSSHK

MOVE.RH
ENTRY CLASS: MAIN SEGMENTS (SO)
DESCI: NOT AVAILABLE
LENGTH: 64 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PUT.CO, FSU.SQ
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Length</th>
<th>Language</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>MOZRS</code></td>
<td>Entry Class: Main Segment: <code>GL0</code></td>
<td>161</td>
<td>FTN</td>
<td>Has no secondary entry points.</td>
</tr>
<tr>
<td></td>
<td>Description: Mod Picture - Zoom around crosshairs</td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GIFETS SETWZ GIALRM GCDRAW GITEM GIDELT GITRAK GUTEXT GUSETP ERASEM</code></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><code>MOZMIN</code></td>
<td>Entry Class: Secondary Segment: <code>GL0</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description: Decrease zoom level 50 per cent</td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GIFETS SETWZ GIALRM</code></td>
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</tr>
<tr>
<td><code>MOPLS</code></td>
<td>Entry Class: Main Segment: <code>GL0</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description: Mod Picture - Zoom one level more (enlarge)</td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GIFETS SETWZ GIALRM GCDRAW GITEM</code></td>
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</tr>
<tr>
<td><code>MOZSR5</code></td>
<td>Entry Class: Main Segment: <code>GL0</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description: Mod Picture - Restore original picture</td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GIFETS SETWZ ERASEM</code></td>
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</tr>
<tr>
<td><code>MSG=0</code></td>
<td>Entry Class: Secondary Segment: <code>SO</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description: (Not available)</td>
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</tr>
<tr>
<td></td>
<td>Secondary entry point for <code>1 SYS.RM</code></td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GCDRAW GITEM GETCEV GIALRM YIELD PERMEL REQUEST</code></td>
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<tr>
<td><code>MXY1</code></td>
<td>Entry Class: Main Segment: <code>DE2</code></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Description: Initialize moving a node by crosshairs</td>
<td></td>
<td></td>
<td>Can be called by <code>GLTABLE</code>.</td>
</tr>
<tr>
<td></td>
<td>Can call the following: <code>GIDELT GITRAK GUTEXT GUSETP UTORAS</code></td>
<td></td>
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</tr>
<tr>
<td><code>MXYP</code></td>
<td>Entry Class: Main Segment: <code>DE2</code></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description: Process the crosshair move of node</td>
<td></td>
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</tr>
</tbody>
</table>

122
SECONDARY ENTRY POINTS

MXYTP

CAN BE CALLED BY

DETAIL MXYT

CAN CALL THE FOLLOWING:

EUPNPNT C035H RASTOU G1FETS DWHOLE

FOUFEFP TKOFF G0DEC D1OLF IDBRIT

IDBUFNP ID60NN ID60AD ID68LF ID8UPP

ID80NP

MXYTP

ENTRY CLASS: SECONDARY
SEGMENTS (DE2)

DESC: (NOT AVAILABLE)

SECONDARY ENTRY POINT FOR I MXYTP

CAN BE CALLED BY

EMOVE

MYINIT

ENTRY CLASS: MAIN
SEGMENTS (PRM1)

DESC: INITIALIZE MP3B PROCESSING

LENGTH: 121 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY

CAN CALL THE FOLLOWING:

INTSUBH DEINITI IDISER PERMFIL IDBLFT

IDBNAM DMINIT RETURN

NAMEFM

ENTRY CLASS: MAIN
SEGMENTS (SD)

DESC: CONSTRUCT ATTRIBUTE NAME FROM NUMBER

LENGTH: 35 LANGUAGE: FTN

HAS NO SECONDARY ENTRY POINTS

CAN BE CALLED BY

CAN CALL THE FOLLOWING:

IDBEAUT

NEXTB

ENTRY CLASS: SECONDARY
SEGMENTS (DB2)

DESC: GET NEXT READ

SECONDARY ENTRY POINT FOR I NEXTIN

CAN BE CALLED BY

PRINCP EOISTR ALLON ASERCH IENEXT

NEXTIN

ENTRY CLASS: MAIN
SEGMENTS (DB2)

DESC: INITIALIZE NEXT READ FOR LOOKING ALL PIECES OF DATA BASE

LENGTH: 133 LANGUAGE: FTN

SECONDARY ENTRY POINTS:

NEXTB

CAN BE CALLED BY

CAN CALL THE FOLLOWING:

IDBRIT ID68NN ID60LF ID80FT ID80NP

NODACT

ENTRY CLASS: SECONDARY
SEGMENTS (MD)

DESC: SET NODES AS THE LEVEL TO WORK ON

SECONDARY ENTRY POINT FOR I STRACT

CAN BE CALLED BY

123
TABLE 1

**NODE**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (DE3)

**DESCRIPTION**: DRAW ALL NODES OWNED BY ALL ELEMENTS ON SCREEN

**LENGTH**: 55

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**DETAIL**

**CAN CALL THE FOLLOWING**: IDNW, IDGNN, IDBRT, IDBONP, ACTIVA

**NODE**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (PR2)

**DESCRIPTION**: (NOT AVAILABLE)

**LENGTH**: 3

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**DETAIL**

**THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS**

**NODE**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (DE3)

**DESCRIPTION**: DRAW ALL NODES FOR EACH ELEMENT PICKED BY THE USER

**LENGTH**: 44

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**DETAIL**

**CAN CALL THE FOLLOWING**: IDNW, IDGNN, IDBONP, MBAD, ACTIVA

**NODE**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (DE3)

**DESCRIPTION**: CHECK IF ANY NODES ARE ACTIVE TO BE CONNECTED

**LENGTH**: 12

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**DETAIL**

**CAN CALL THE FOLLOWING**: IDISER

**NUMBRG**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (M810)

**DESCRIPTION**: (NOT AVAILABLE)

**LENGTH**: 36

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**LABELG, SCAN**

**CAN CALL THE FOLLOWING**: LEGNO, G3EAUT

**NUMFM**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (DBO)

**DESCRIPTION**: GENERATE ATTRIBUTE NUMBER FROM NAME

**LENGTH**: 107

**LANGUAGE**: FORTRAN

**HAS NO SECONDARY ENTRY POINTS**

**CAN BE CALLED BY**:

**DETAIL**

**IFATT, ISACT**

**THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS**

**OBJECT**

**ENTRY CLASS**: MAIN

**SEGMENTS**: (M8131)

**DESCRIPTION**: SET OBJECT SPACE FOR X-Y PLOT

---

124
LENGTH: 211  LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CTNO, SETUPG
CAN CALL THE FOLLOWING
ALOG10.

ONPEN4 ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ALL ITEMS OF TYPE *IACTYP* ON AS STRING PICKS
SECONDARY ENTRY POINT FOR I ONPEN
CAN BE CALLED BY:
TAPE

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

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

ONPENS ENTRY CLASS: SECONDARY SEGMENT: (G12)
DESC: TURN ALL ITEMS OF ALL TYPES ON AS STRING PICKS
SECONDARY ENTRY POINT FOR I 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:
DETAABLE PRTABLE BOSTR EONPD EONPEN
RETAILS
CAN CALL THE FOLLOWING:
IDISER SETCAT

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

OPEN.SO ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: (NOT AVAILABLE)
LENGTH: 262  LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
OPXX.SO
CAN BE CALLED BY:

FORGET

CAN CALL THE FOLLOWING:
OPEX.SG ERR.SG RSPT.SG RM.CIO CHWR.SG

OPEX.SG
ENTRY CLASS: MAIN
SEGMENT (SO)
DESC: (NOT AVAILABLE)
LENGTH: 14 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OPEN.SG

CAN CALL THE FOLLOWING:
OPXX.SG FXX.SG RSPT.SG RM.CIO

OPXX.SG
ENTRY CLASS: SECONDARY SEGMENT (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR:
OPEN.SG
CAN BE CALLED BY:

OPEX.SG

OSUB.RM
ENTRY CLASS: MAIN
SEGMENT (SO)
DESC: (NOT AVAILABLE)
LENGTH: 65 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OPEN.SG

CAN CALL THE FOLLOWING:

OUTBUFF
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 DMFLUSH 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 YPNAM PUTEDT SELATT

CAN CALL THE FOLLOWING:
ERASE ERASEN IPICK GIALRM GCORAW

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)
<table>
<thead>
<tr>
<th>ENTRY CLASS</th>
<th>SEGMENT</th>
<th>LENGTH</th>
<th>LANGUAGE</th>
<th>FDN</th>
<th>HAS NO SECONDARY ENTRY POINTS</th>
<th>CAN BE CALLED BY</th>
<th>DETAIL</th>
<th>PICTURE</th>
<th>MOPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLINIT</td>
<td>MAIN</td>
<td>SEGMENT</td>
<td>4933</td>
<td>FTN</td>
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<td>M33</td>
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<td>POINTS</td>
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<td>FTN</td>
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<td>M811</td>
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<td>SEGMENT</td>
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<td>PPINIT</td>
<td>MAIN</td>
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<td>PPTABLE</td>
<td>MAIN</td>
<td>SEGMENT</td>
<td>14</td>
<td>FTN</td>
<td></td>
<td>M14</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Notes:**
- This program does not invoke any other programs.
- Points can be called by other programs.
- Can call the following:
  - METAZZ
  - GIDELT
  - GIDF
  - GII
  - GIFETS
  - PLINIT
  - GUTEXT
  - GUSERT
  - PONPEN
  - PPINIT
  - PPTABLE
  - PORG
  - POINTS
  - PLINIT
  - PPINIT
  - PPTABLE
  - PORG
  - POINTS
  - PLINIT
  - PPINIT
  - PPTABLE
DESCRIPT (NOT AVAILABLE)
LENGTH: 23 LANGUAGE: COMPASS
CAN BE CALLED BY:
STARTM GLINIT
CAN CALL THE FOLLOWING:
SWITCHES IPPOEC PRINCP EOSTR EXINIT

PRINCP
ENTRY CLASST MAIN SEGMENT: (PP)
DESC: CALCULATE PRINCIPAL STRESSES
LENGTH: 172 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PRINCP
CAN CALL THE FOLLOWING:
PRINIT PRINC3 ELECT ISACT DBATT NEXTIN

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

PRINIT
ENTRY CLASST MAIN SEGMENT: (M32)
DESC: INITIALIZE PRE-PROCESSOR MENU
LENGTH: 16 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXINIT
CAN CALL THE FOLLOWING:
STARTM GLINIT

PROCCHR
ENTRY CLASST 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:
DETAIL
NOTE: THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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

PROCXA
ENTRY CLASST MAIN SEGMENT: (DE40)
DESC: X-AXIS PICTURE - PROCESS X-AXIS ATTRIBUTE
LENGTH: 527 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
<table>
<thead>
<tr>
<th>PROCYA</th>
<th>ENTRY CLASS: SECONDARY</th>
<th>SEGMENT: (DE40)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC: MOD PICTURE - PROCESS Y-AXIS ATTRIBUTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SECONDARY ENTRY POINT FOR I PROCYA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY: DETABLE, TABIND</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROFAC</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (M33)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC: PROCESS REPEAT-FACTOR</td>
<td></td>
<td></td>
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<tr>
<td>LENGTH: 42</td>
<td>LANGUAGE: FTN</td>
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<td>HAS NO SECONDARY ENTRY POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY: DETABLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CALL THE FOLLOWING: PUTEOT, IDISER, ICHEKED, COMPAC</td>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>PROOT</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (PP)</th>
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</thead>
<tbody>
<tr>
<td>DESC: FINJ ROOTS OF REAL POLYNOMIAL</td>
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<tr>
<td>LENGTH: 500</td>
<td>LANGUAGE: FTN</td>
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<td>HAS NO SECONDARY ENTRY POINTS</td>
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<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY: PRINC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CALL THE FOLLOWING: SORT, PORG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRTABLE</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (DRIVE)</th>
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</thead>
<tbody>
<tr>
<td>DESC: PRE-PROCESSOR MENU SUBROUTINE SWITCH TABLE</td>
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</tr>
<tr>
<td>LENGTH: 123</td>
<td>LANGUAGE: COMPASS</td>
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</tr>
<tr>
<td>HAS NO SECONDARY ENTRY POINTS</td>
<td></td>
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</tr>
<tr>
<td>CAN BE CALLED BY: STARTM, GLINIT</td>
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</tr>
<tr>
<td>CAN CALL THE FOLLOWING: SMCHG, DR4WFR, NODE, GRID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SETIN, SETND, CLRTXT, MYINIT, ASUB4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASUB35, ASUB75, DISPLB, ELNAM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GETFAG, GETFG1, INTSUB, INTSUBS, INTSUBS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIBIN, MATIN, MATINS, LIBINS, LIBINSA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLRLED, EOPFY, ELEACT, NODACT, PUTNAM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXINIT, GOPEN</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PTYPE</th>
<th>ENTRY CLASS: MAIN</th>
<th>SEGMENT: (DE1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESC: PROCESS TYPE-IN POINTS, AREA, OR VOLUME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LENGTH: 100</td>
<td>LANGUAGE: FTN</td>
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<tr>
<td>HAS NO SECONDARY ENTRY POINTS</td>
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<td></td>
</tr>
<tr>
<td>CAN BE CALLED BY: DETABLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN CALL THE FOLLOWING: PORG, PUTEDT, IDISER, CNVTLC, ICHEKED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PUTATT
ENTRY CLASS: MAIN
SEGMENT: (M33)
DESC: DISPLAY LIST GROUP OF ATTRIBUTES ACTIVE ON THIS LEVEL
LENGTH: 156
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
POTTAT
CAN BE CALLED BY:
DETAILS: PATT
CAN CALL THE FOLLOWING:
PUTATT, ID2SER, IDALT, NAMFM, IGATT
DQAT

PUTATT
ENTRY CLASS: SECONDARY
SEGMENT: (M33)
DESC: IF MORE THAN MAXSEG ACTIUE ATTRIBUTES, DISPLAY THE NEXT BATCH
SECONDARY ENTRY POINT FOR 1 PUTATT
CAN BE CALLED BY:
EATS, LATF, ASERCH, SSAOFF

PUTEDT
ENTRY CLASS: MAIN
SEGMENT: (M39)
DESC: FORMAT TYPE-INS FOR USER
LENGTH: 577
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DRIVER, FILNAM, MOORW, SVIEW, SVIEWP
SROST, SROST, CHNGP1, GETKAG, MATIN
LBINS, LIPPCG, EYPSSV, CHNPRD, RNGEL
EMOVE, DTYPER, SEONUM, ELREPL, ELREPP
EMOVE, DTYPER, SEONUM, ELREPL, ELREPP
ATTRE, ATCTRL, ECEKAN, ERNOLO, EATS
EATF, ESERF, EASER, SSAOFF, CNTPRE
CNTTIL, Eraser, TAOPEC, TABXYP, TABXYM
TABXYP, TABXYM, TAOCM, PUTLST, MOPUP
SP3SL, PUTATT, PROFAC, REPFA, GTITLE
CAN CALL THE FOLLOWING:
PLRER, GUSUP, GULIN, GCHIGH, GCWIDE
GITE, GICTL, GUTEXT, GUSEP, IGCHR

PUTLIN
ENTRY CLASS: SECONDARY
SEGMENT: (5O)
DESC: PUT LINE OF TEXT TO TERMINAL WITHOUT RECORD MANAGER
SECONDARY ENTRY POINT FOR 1 GET, PUT
CAN BE CALLED BY:
GLOLK, GEMIST, GLUP, GLDN, GLSTDB
GLS10S, GLOFP, GLDEF, CNTABL, CNTOR
CONMV, TMESH2, HOLD, DMP, GIER
POUMP

PUTLST
ENTRY CLASS: MAIN
SEGMENT: (M31)
DESC: PUT LIST TYPE-INS FOR NODE AND ELEMENT RANGES
LENGTH: 51
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
PULST
CAN BE CALLED BY:
DETAILS: LST
CAN CALL THE FOLLOWING:
PUTEDT, IDEAUT

130
PUTLS

ENTRY CLASS: SECONDARY SEGMENT (M31)
DESC: RE-DISPLAY ERRONEOUS NODE AND ELEMENT TYPE-INS
SECONDARY ENTRY POINT FOR PUTLS
CAN BE CALLED BY:
GETRAG  ETYPSW  RNGDEL  RNGDRW  EDNUM
ERNDLO

PUTNAM

ENTRY CLASS: MAIN SEGMENT (M31)
DESC: PUT UP FIRST GROUP OF NAMES OF CROSSHAIR PICK
LENGTH: 105 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
PUTNM  PUTNM4
CAN BE CALLED BY:
DETAB.PRTAB
CAN CALL THE FOLLOWING:
TYPNAME  ID9FIT

PUTNM

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

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  ASDUS  EMERG  EACTPN  EQOPEN

PUL.C

ENTRY CLASS: SECONDARY SEGMENT (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR PUTNM
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
RREQ.RM  WNB  ------  MGS

QIKGRF

ENTRY CLASS: MAIN SEGMENT (MB10)
DESC: (NOT AVAILABLE)
LENGTH: 70 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
PROCXA
CAN CALL THE FOLLOWING:
METAZZ  LINESG  SETSMSG  POINTG

131
QTITLE  ENTRY CLASS: MAIN  SEGMENT: (43)
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:
   CAN CALL THE FOLLOWING:
   PLOTDF

QENTRY= ENTRY CLASS: MAIN  SEGMENT: (50)
DESC: FC1 INITIALIZATION ROUTINE.
   LENGTH: 22  LANGUAGE: COMPASS
   SECONDARY ENTRY POINTS:
   ON ENTRY:
   THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
   THIS PROGRAM DOES NOT INVoke ANY OTHER PROGRAMS

QENTRY. ENTRY CLASS: SECONDARY SEGMENT: (50)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR QENTRY=
   CAN BE CALLED BY:
   DRIVER

RASTOU ENTRY CLASS: MAIN  SEGMENT: (91)
DESC: SCALING - CONVERT RASTERS TO USER UNITS
   LENGTH: 23  LANGUAGE: FTN
   HAS NO SECONDARY ENTRY POINTS
   CAN BE CALLED BY:
   FIXDAT  POMPN  MXYP
   THIS PROGRAM DOES NOT INVOCe ANY OTHER PROGRAMS

RECOVER ENTRY CLASS: MAIN  SEGMENT: (DRIVE)
DESC: EXTER, RECOVERY TRAP ROUTINE
   LENGTH: 72  LANGUAGE: COMPASS
   SECONDARY ENTRY POINTS:
   MARK  EXIT
   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  GLCKX
   CAN CALL THE FOLLOWING:
   GRINIT  LDUKT  HUDDF  DMINIT

READR ENTRY CLASS: MAIN  SEGMENT: (DBD)
DESC: (NOT AVAILABLE)
   LENGTH: 115  LANGUAGE: COMPASS
   HAS NO SECONDARY ENTRY POINTS
   CAN BE CALLED BY:
   DMINIT  DMINIT
   CAN CALL THE FOLLOWING:
<table>
<thead>
<tr>
<th>ENTRY CLASS</th>
<th>MAIN SEGMENT</th>
<th>ENTRY CLASS</th>
<th>SECONDARY SEGMENT</th>
<th>ENTRY CLASS</th>
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</tr>
</thead>
<tbody>
<tr>
<td>REM.SQ</td>
<td>MAIN</td>
<td>RFILEB</td>
<td>SECONDARY</td>
<td>RMU0.SQ</td>
<td>SECONDARY</td>
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<tr>
<td>DESC: (NOT AVAILABLE)</td>
<td>LENGTH: 70 LANGUAGE: COMPASS</td>
<td>LANGUAGES COMPASS</td>
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<td>CAN BE CALLED BY:</td>
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<tr>
<td>ENTRY CLASS</td>
<td>MAIN SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
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<tr>
<td>RFILEB</td>
<td>MAIN</td>
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<td>RMU0.SQ</td>
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<tr>
<td>DESC: (NOT AVAILABLE)</td>
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<tr>
<td>ENTRY CLASS</td>
<td>MAIN SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
</tr>
<tr>
<td>RLEQ.RM</td>
<td>MAIN</td>
<td>RLEQ.RM</td>
<td>SECONDARY</td>
<td>RMU2.SQ</td>
<td>SECONDARY</td>
</tr>
<tr>
<td>DESC: (NOT AVAILABLE)</td>
<td>LENGTH: 42 LANGUAGE: COMPASS</td>
<td>HAS NO SECONDARY ENTRY POINTS</td>
<td>CAN BE CALLED BY:</td>
<td></td>
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<tr>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
</tr>
<tr>
<td>RMU0.SQ</td>
<td>SECONDARY</td>
<td>RMU2.SQ</td>
<td>SECONDARY</td>
<td>RMU0.SQ</td>
<td>SECONDARY</td>
</tr>
<tr>
<td>DESC: (NOT AVAILABLE)</td>
<td>SECONDARY ENTRY POINT FOR 1 FSU.SQ</td>
<td>CAN BE CALLED BY:</td>
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<tr>
<td>ENTRY CLASS</td>
<td>SECONDARY SEGMENT</td>
<td>ENTRY CLASS</td>
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<tr>
<td>RMU0.SQ</td>
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<td>SECONDARY ENTRY POINT FOR 1 FSU.SQ</td>
<td>CAN BE CALLED BY:</td>
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<td>ENTRY CLASS</td>
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<tr>
<td>RMU0.SQ</td>
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<td>RMU2.SQ</td>
<td>SECONDARY</td>
<td>RMU0.SQ</td>
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<tr>
<td>DESC: (NOT AVAILABLE)</td>
<td>SECONDARY ENTRY POINT FOR 1 FSU.SQ</td>
<td>CAN BE CALLED BY:</td>
<td></td>
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</tbody>
</table>
SECONDARY ENTRY POINT FOR CIO.RM
CAN BE CALLED BY:
GET.SO  BINT.SO  PUT.SO  ERR.RM  CLSF.SO  WAR.SO

RM.RCLP
ENTRY CLASS: SECONDARY SEGMENT: (50)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR CIO.RM
CAN BE CALLED BY:
GET.SO  PUT.SO

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:
ICKRNPG  PUTEOT  PUTLS  IDISER  DELETE
ICHKE'D  COMPAC  IDBRIT

RNGDw
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:
ICKRNPG  PUTEOT  PUTLS  IDRW  IDISER
ICHKE'D  COMPAC  IDBRIT  ACTIVA

RSXY
ENTRY CLASS: SECONDARY SEGMENT: (3E40)
DESC: X-Y PLOTS - RESCALE ON X-Y PLOT TO ABSOLUTE MINS AND MAXES
SECONDARY ENTRY POINT FOR RPROCXA
CAN BE CALLED BY:
DETABLE

RSETMG
ENTRY CLASS: MAIN SEGMENT: (M810)
DESC: 4069/105S - INIT'S 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.SO
ENTRY CLASS: SECONDARY SEGMENT: (50)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR CLSF.SO
CAN BE CALLED BY:
OPEN.SO  OPEX.SO  GET.SO  REM.SO  CLSV.SO

RWRITER
ENTRY CLASS: MAIN SEGMENT: (DB0)
DESC: (NOT AVAILABLE)
LENGTH: 11  LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DMWRITE DMFLUSH
CAN CALL THE FOLLOWING:
CPC

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

SCALZ2 ENTRY CLASS: MAIN SEGMENT: (4810)
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: (48141)
DESC: CONTOUR -- TRACES THRU TRIANGULAR GRID TO EXTEND CONTOUR LINE
LENGTH: 465 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
CONTO
CAN CALL THE FOLLOWING:
LINESG NUMUGD

SEGMDG ENTRY CLASS: MAIN SEGMENT: (48120)
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

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

SELATC ENTRY CLASS: SECONDARY SEGMENT: (M30)
DESC: DISPLAY NEXT BATCH OF ATTRIBUTE NAMES
SECONDARY ENTRY POINT FOR I SELATT
CAN BE CALLED BY:

ACTATT

**SELATT**
ENTRY CLASS: MAIN
SEGMENT: (H30)
DESC: DISPLAY ATTRIBUTE NAMES FOR PICKING
LENGTH: 162
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
- SELATC
- SELATC
- SELAT

CAN BE CALLED BY:
- DETABLE ERASER
- CAN CALL THE FOLLOWING:
- PAGER GISUSF GITEM GIDLT IDISER
- SELCAT GUTEXT GUSETP ICON IN FMN
- IGATT

**SELATI**
ENTRY CLASS: SECONDARY
SEGMENT: (*30)
DESC: DISPLAY ATTRIBUTE NAMES FOR PICKING WITHOUT *DELETE ATTRIBUTE*
SECONDARY ENTRY POINT FOR I SELATT
CAN BE CALLED BY:
- DETABLE ERASER
- CAN CALL THE FOLLOWING:
- PAGER GISUSF GITEM GIDLT IDISER
- SELCAT GUTEXT GUSETP ICON IN FMN
- IGATT

**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 ATLST TYPNAM SELATT TABACX
- TABOC ONPEN
- CAN CALL THE FOLLOWING:
- GICAT

**SETFETR**
ENTRY CLASS: MAIN
SEGMENT: (DB1)
DESC: (NOT AVAILABLE)
LENGTH: 31
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
- CLFETR

CAN BE CALLED BY:
- DMFLSH DMINIT
- CAN CALL THE FOLLOWING:
- ITQJ

**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 BOSTA 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:
THIS PROGRAM DOES NOT INVOLVE ANY OTHER PROGRAMS.

**SETPREP**
ENTRY CLASS: MAIN
SEGMENT (080)
DESCRI (NOT AVAILABLE)
LENGTH: 6
LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

**SETSMG**
ENTRY CLASS: MAIN
SEGMENT (M810)
DESCRI 4060/1GC
LENGTH: 275
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

**SETUPG**
ENTRY CLASS: MAIN
SEGMENT (M8130)
DESCRI SET UP GRID SPACE FOR X-Y PLOT OR CONTOUR PLOT
LENGTH: 251
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

**SETVU**
ENTRY CLASS: MAIN
SEGMENT (G13)
DESCRI MOD PICTURE - CALCULATE NEW PERSPECTIVE VIEW
LENGTH: 260
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FRONTVU SIDEVU TOPVU SVIEW SROTET
GFINIT INIT20 INIT30
CAN CALL THE FOLLOWING:
GC30A SORT, COS, SIN.

**SETWZ**
ENTRY CLASS: MAIN
SEGMENT (M5)
DESCRI MOD PICTURE - RESET THE VIRTUAL WINDOW AND PICTURE LIMITS TO EXIS
LENGTH: 136
LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
MOCRT MOCTRT MOCTRTS MOCTRTLS MOSPLT MOSOS
CLMPIC MOPS
CAN CALL THE FOLLOWING:
GIZOOM GOTOER.

**SETI**
ENTRY CLASS: MAIN
SEGMENT (45)
DESCRI "SCALING" - SET THE DISPLAY SPACE OR 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: (48141)
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:
MORDKW SETVU

SINCOS=
ENTRY CLASS: MAIN
SEGMENT: (SO)
DESC: TRIGONOMETRIC SINE OR COSINE OF X. OPT=ALL.
LENGTH: 66
LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
COS, SIN.
THIS ENTRY IS NOT INVOKE BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYS1ST.

SIN=
ENTRY CLASS: SECONDARY
SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I SINCOS=
CAN BE CALLED BY:
SROTST SETVU GC3OA CVTOC

SKFL SO
ENTRY CLASS: MAIN
SEGMENT: (SO)
DESC: (NOT AVAILABLE)
LENGTH: 51
LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
FORSYS=
CAN CALL THE FOLLOWING:
SKGT SO EXIT SO ERK RM

SKGT SO
ENTRY CLASS: SECONDARY
SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I GET SO
CAN BE CALLED BY:
SKFL SO

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
<table>
<thead>
<tr>
<th>Command</th>
<th>Entry Class</th>
<th>Segment</th>
<th>Description</th>
<th>Length</th>
<th>Language</th>
<th>Secondary Entry Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCHK</td>
<td>MAIN</td>
<td>0B33</td>
<td>(NOT AVAILABLE)</td>
<td>47</td>
<td>FTN</td>
<td>HAS NO SECONDARY ENTRY POINTS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS</td>
<td></td>
<td></td>
<td>CAN CALL THE FOLLOWING:</td>
</tr>
<tr>
<td></td>
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<td>SPCHK ENTRY CLASS: MAIN SEGMENT: 0B33</td>
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<td>ID8FNO</td>
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<td>SPSBLC</td>
<td>SECONDARY</td>
<td>M33</td>
<td>(NOT AVAILABLE)</td>
<td>47</td>
<td>FTN</td>
<td>CAN BE CALLED BY</td>
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<td>SECONDARY ENTRY POINT FOR I SPSBL</td>
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<td>DETAILE</td>
</tr>
<tr>
<td></td>
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<td>CAN CALL THE FOLLOWING:</td>
<td></td>
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<tr>
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<td></td>
<td>PUTEDT</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>DETAILE</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SORT</td>
<td>MAIN</td>
<td>50</td>
<td>X-Y PLOTS - SET UP TYPE-IN OF NEW PLOT SYMBOL</td>
<td>35</td>
<td>FTN</td>
<td>SECONDARY ENTRY POINTS1</td>
</tr>
<tr>
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<td></td>
<td>SPSBL</td>
<td>CAN BE CALLED BY</td>
<td></td>
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<td>CAN CALL THE FOLLOWING:</td>
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<td></td>
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<td>PUTEDT</td>
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<tr>
<td>SORT</td>
<td>SECONDARY</td>
<td>50</td>
<td>COMPUTE THE SQUARE ROOT OF X. OPT=ALL.</td>
<td>43</td>
<td>COMPASS</td>
<td>SECONDARY ENTRY POINTS1</td>
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<td>SORT.</td>
<td>THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS</td>
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<td>SYSIST.</td>
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<tr>
<td>SORT.</td>
<td>SECONDARY</td>
<td>50</td>
<td>(NOT AVAILABLE)</td>
<td>43</td>
<td>FTN</td>
<td>SECONDARY ENTRY POINT FOR I SORT</td>
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<tr>
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<td>CAN BE CALLED BY</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>EQSTR</td>
<td>PROOT</td>
<td>STEST</td>
<td>ARROW</td>
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<td></td>
<td>TMESH2</td>
<td>GCWORK</td>
<td>SETVU</td>
<td>GCMAT</td>
</tr>
<tr>
<td>SROTET</td>
<td>MAIN</td>
<td>GL4</td>
<td>MOD PICTURE - ROTATE IMAGE FROM HOST</td>
<td>221</td>
<td>FTN</td>
<td>HAS NO SECONDARY ENTRY POINTS</td>
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<tr>
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<td>CAN BE CALLED BY1</td>
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<td></td>
<td>GLIABLE</td>
</tr>
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<td></td>
<td>CAN CALL THE FOLLOWING:</td>
<td></td>
<td></td>
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<tr>
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<td>MOORAW</td>
<td>PUTEET</td>
<td>IDISER</td>
<td>SETVU</td>
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<tr>
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<td></td>
<td>G35.</td>
<td>SIN.</td>
<td>ICHMKED</td>
<td>COMPAC</td>
</tr>
<tr>
<td>SROST</td>
<td>MAIN</td>
<td>GL4</td>
<td>MOD PICTURE - PUT CURRENT ROTATION ANGLES AND ASK FOR INCREMENTS</td>
<td>37</td>
<td>FTN</td>
<td>HAS NO SECONDARY ENTRY POINTS</td>
</tr>
</tbody>
</table>

140
GLTAE

CAN CALL THE FOLLOWING:

PUTEOT IDISER

SSAOFF

ENTRY CLASS: MAIN SEGMENT: (DE7)
DESC: DEACTIVATE ACTIVE BEADS ON A LEVEL
LENGTH: 103 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAILE
CAN CALL THE FOLLOWING:
FLNCHK PUTEOT PUTAT IDISER DELETE
ICHKED COMPAC IOBORT ICKATT

SSOFF

ENTRY CLASS: MAIN SEGMENT: (M31)
DESC: DEACTIVATE PICKED BEAD
LENGTH: 22 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
DETAILE
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:
DETAILE

STARTA

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

STARTM

ENTRY CLASS: MAIN SEGMENT: (DRIE)
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 PRINIT PPIINIT MENINIT
CAN CALL THE FOLLOWING:
EXTABLE DETABLE PRTABLE PPTABLE ERASER
ICMRK PERMFILE IGFTR DMINIT RETURN

STEST

ENTRY CLASS: MAIN SEGMENT: (M814B)
DESC: CONTOURING PACKAGE OF PIPELINE TESTER
LENGTH: 317 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
TMEHS1 TMEHS2
CAN CALL THE FOLLOWING:
SORT.
<table>
<thead>
<tr>
<th>ENTRY CLASS</th>
<th>SEGMENT</th>
<th>DESC</th>
<th>LENGTH</th>
<th>LANGUAGE</th>
<th>SECONDARY ENTRY POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOP</td>
<td>(SO)</td>
<td>NOT AVAILABLE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTRY CLASS</td>
<td>SEGMENT</td>
<td>DESC</td>
<td>LENGTH</td>
<td>LANGUAGE</td>
<td>SECONDARY ENTRY POINTS</td>
</tr>
<tr>
<td>STRUCT</td>
<td>(M0)</td>
<td>SET STRUCTURES AS THE LEVEL TO WORK ON</td>
<td>23</td>
<td>FTN</td>
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<tr>
<td>SUBJ</td>
<td>(M8132)</td>
<td>SET SUBJECT SPACE FOR X-Y PLOT OR CONTOUR PLOT</td>
<td>122</td>
<td>FTN</td>
<td></td>
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<tr>
<td>SVIEWP</td>
<td>(GL3)</td>
<td>PROCESS VIEW TYPE-IN</td>
<td>203</td>
<td>FTN</td>
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<tr>
<td>SVIEW</td>
<td>(GL3)</td>
<td>DISPLAY VIEW TYPE-IN VALUES</td>
<td>65</td>
<td>FTN</td>
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<tr>
<td>SWITCHES</td>
<td>(DRIVE)</td>
<td>SAVE ADDRESS OF SUBROUTINE TABLE AND DECISION FUNCTION</td>
<td></td>
<td>COMPASS</td>
<td></td>
</tr>
<tr>
<td>SWITCH</td>
<td>(DRIVE)</td>
<td>CALL SUBROUTINE SPECIFIED IN COMMAND TREE</td>
<td>20</td>
<td>COMPASS</td>
<td></td>
</tr>
</tbody>
</table>
DRIVER

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

"SYSAID$. ENTRY CLASSI: "MAIN" SEGMENTI (SO)
DESCI: LINK BETWEEN SYS=AID AND INITIALIZATION CODE.
LENGTH: 1 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
08.IO. SYS=1ST

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

"SYSAID. ENTRY CLASSI: "SECONDARY SEGMENTI (G13)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I SYS=AID
CAN BE CALLED BY:
ATAN2

"SYSEND. ENTRY CLASSI: "SECONDARY SEGMENTI (SO)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I FORSYS=
CAN BE CALLED BY:
SYSTEM

"SYSERR. ENTRY CLASSI: "SECONDARY SEGMENTI (SO)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I FORSYS=
CAN BE CALLED BY:
'08.IO.' GOTOER='"SYSTEM"

"SYSEJ. ENTRY CLASSI: "SEGMENTI (SO)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I FORSYS=
CAN BE CALLED BY:
SYSTEM

"SYSTEM ENTRY CLASSI: "MAIN SEGMENTI (9BO)
DESCI: USER CALLABLE ERROR PROCESSOR.
LENGTH: 21 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
OMGTJ0 OMRLBO OMSTGT OMINIT
CAN CALL THE FOLLOWING:
SYSEND, SYSEJ, SYSERR, WEO5.SQ

"SYS1ST. ENTRY CLASSI: "SECONDARY SEGMENTI (S1)
DESCI: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR I SYS=1ST
CAN BE CALLED BY:
ACOSIN= SYS=AID SORT SINCOS= ALOG
EXP

"SYS=AID ENTRY CLASSI: "MAIN SEGMENTI (G13)
DESCI: AUXILIARY MATH LIBRARY LINK FOR ERRORS.
LENGTH: 7 LANGUAGE: COMPASS
SECONDARY ENTRY POINTS:
SYSAID.
THIS ENTRY IS NOT INVOKED BY ANY OTHER PROGRAMS
CAN CALL THE FOLLOWING:
SYS1ST. MORGUE.

SYS=IST
ENTRY CLASS: MAIN
SEGMENT: (S1)
DESC: MAIN 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:
SYS1ST.

SYS=1S
ENTRY CLASS: PRIMARY
SEGMENT: (S0)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR: SYS.RM
CAN BE CALLED BY:
COMPIO Q8.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

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:
DETALBE
CAN CALL THE FOLLOWING:
DOCTOR. DEBUT. IDORIT. ACTIVA. ID9FTY

TABACX
ENTRY CLASS: MAIN
SEGMENT: (M31)
DESC: X-Y PLOTS - GET TABLE FOR Y-AXIS
LENGTH: 23
LANGUAGE: FTN
SECONDARY ENTRY POINTS:
TABACX
CAN BE CALLED BY:
DETALBE
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:
DETALBE

TABDEL
ENTRY CLASS: MAIN
SEGMENT: (DE42)
DESC: X-Y PLOTS - DELETE CURVE FROM X-Y PLOT
LENGTH: 124
LANGUAGE: FTN
**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:** DETAIL  
**CAN CALL THE FOLLOWING:** TABDR, CLRPIC, GIDELT

---

**TABIND**

**ENTRY CLASS:** MAIN  
**SEGMENT:** (OE41)  
**DESC:** X-Y PLOTS - USE INDEX OF TABLE ON AXIS  
**LENGTH:** 16  
**LANGUAGE:** FTN  
**HAS NO SECONDARY ENTRY POINTS**  
**CAN BE CALLED BY:** DETAIL  
**CAN CALL THE FOLLOWING:** PUTEDT, IUCSR, ICKED, COMPAC

---

**TABLIN**

**ENTRY CLASS:** MAIN  
**SEGMENT:** (OE41)  
**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:** DETAIL  
**CAN CALL THE FOLLOWING:** PROCCA, PROCYA

---

**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:** DETAIL  
**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:** DETAIL  
**CAN CALL THE FOLLOWING:** PUTEDT, IUCSR, SETCAT, IBFKEA, MBREAD, IGBROW, IGBCOL, IGBDEP, IGBNMD

---

**TABDR**

**ENTRY CLASS:** SECONDARY  
**SEGMENT:** (DE40)  
**DESC:** X-Y PLOTS - REDRAW ONE LINE ON GRAPH  
**SECONDARY ENTRY POINT FOR:** PROCYA  
**CAN BE CALLED BY:** DETAIL  
**CAN CALL THE FOLLOWING:** TABDEL

---

145
TABSCL  ENTRY CLASS: MAIN  SEGMENT: (M31)  
DESCI: X-Y PLOTS - PROCESS SCALE/OFFSET TYPE-IN  
LENGTH: 56  LANGUAGE: FTN  
HAS NO SECONDARY ENTRY POINTS  
CAN BE CALLED BYI  
DETAIL  
CAN CALL THE FOLLOWING:  
PUTEDT  IDISLR  ICHKED  COMPAC  

TABSCTX  ENTRY CLASS: MAIN  SEGMENT: (M31)  
DESCI: X-Y PLOTS - PUT UP CURRENT LINE SCALE/OFFSET (X-AXIS)  
LENGTH: 53  LANGUAGE: FTN  
SECONDARY ENTRY POINTS:  
TASCLX  CAN BE CALLED BYI  
DETAIL  
CAN CALL THE FOLLOWING:  
PUTEDT  IDEAO  

TABSXY  ENTRY CLASS: SECONDARY  SEGMENT: (M31)  
DESCI: X-Y PLOTS - PUT UP CURRENT LINE SCALE/OFFSET (Y-AXIS)  
SECONDARY ENTRY POINT FOR: TABSCX  
CAN BE CALLED BYI  
DETAIL  

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

TABXO  ENTRY CLASS: SECONDARY  SEGMENT: (M31)  
DESCI: X-Y PLOTS - SORT X DECREASING  
SECONDARY ENTRY POINT FOR: TABXI  
CAN BE CALLED BYI  
DETAIL  

TABXI  ENTRY CLASS: MAIN  SEGMENT: (M31)  
DESCI: X-Y PLOTS - SORT X INCREASING  
LENGTH: 17  LANGUAGE: FTN  
SECONDARY ENTRY POINTS:  
TABY - TABXD  TABYE  TABXN  TABYN  
CAN BE CALLED BYI  
DETAIL  

TABXO  ENTRY CLASS: SECONDARY  SEGMENT: (M31)  
DESCI: X-Y PLOTS - DO NOT SORT X  
SECONDARY ENTRY POINT FOR: TABXI  
CAN BE CALLED BYI  
DETAIL  

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS  

TABXO  ENTRY CLASS: SECONDARY  SEGMENT: (M31)  
DESCI: X-Y PLOTS - DO NOT SORT X  
SECONDARY ENTRY POINT FOR: TABXI  
CAN BE CALLED BYI  
DETAIL  

146
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:
DETAIL
CAN CALL THE FOLLOWING:
PUTEDT, IGEAUT

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:
DETAIL
CAN CALL THE FOLLOWING:
PUTEDT, IGEAUT, ICHKED, COMPAC, COMPACS

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

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

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

TIME ENTRY CLASS: SECONDARY SEGMENT: (S1)
DESC: RETURN CURRENT CLOCK TIME
SECONDARY ENTRY POINT FOR I 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:
PROCXI
CAN CALL THE FOLLOWING:
LEGNDG, SETSMG

"THESH2" 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:

CNT0X
CAN CALL THE FOLLOWING:
LST
TEST
PUTLIN
SORT

THESH3
ENTRY CLASS: MAIN
SEGMENT: (M8141)
DESC: CONTOUR - ITERATIVELY IMPROVE TRIANGULATION
LENGTH: 64 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

CNT0X
CAN CALL THE FOLLOWING:
LST
TEST
PUTLIN
SORT

TOPVU
ENTRY CLASS: MAIN
SEGMENT: (GL3)
DESC: M00 PICTURE - SET X-Z PLANE
LENGTH: 13 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:

GLTALE
CAN CALL THE FOLLOWING:
MORDRM
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:

CNT0X

THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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
XXYP
CAN CALL THE FOLLOWING:

GITRAK

TYPNM
ENTRY CLASS: MAIN
SEGMENT: (M30)
DESC: PUT UP NAMES FOR PICKING
LENGTH: 264 LANGUAGE: FTN
SECONDARY ENTRY POINTS:

TYPVAL
CAN BE CALLED BY:
"EROWN" "EPUTON" "ERASER" "DACTSN" "PUTNAM"
CAN CALL THE FOLLOWING:

PAGEW
GISUWF
ITEM
"GITEM"
GIDELT
SETCAT
GUEXT
GUSTP
IDINF
ICCHR
IBEAUT
IBDTP
I0BNAM

TYPVAL
ENTRY CLASS: SECONDARY
SEGMENT: (M30)
DESC: DISPLAY THE ALPHANUMERIC STRING IN #NAME#
SECONDARY ENTRY POINT FOR TYPNM
CAN BE CALLED BY:
"DISPLO"
"ELNAM"
"LIGIN"
"ATTLST"
"ERASER"

148
UNPACK
ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: GET NEXT CHARACTER FOR $IBEAUT$
LENGTH: 23 LANGUAGE: FTN
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY:
EXEC  IFSUT  ICKACK
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

UTORAS
ENTRY CLASS: MAIN SEGMENT: (SO)
DESC: SCALING - CONVERT USER UNITS TO RASTERS
LENGTH: 212 LANGUAGE: FTN
SECONDARY ENTRY POINTS:
UTORAT
CAN BE CALLED BY:
MOLAX DREH MXYI META LIZ LINZ
IORDX IDIRNO IDRMT ARROW
THIS PROGRAM DOES NOT INVOKE ANY OTHER PROGRAMS

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

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

WEOP.SO
ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR $EOX.SO$
CAN BE CALLED BY:
PUT.SO

WEOS.SO
ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR $EOX.SO$
CAN BE CALLED BY:
SYSTEM

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

WNB=
ENTRY CLASS: SECONDARY SEGMENT: (SO)
DESC: (NOT AVAILABLE)
SECONDARY ENTRY POINT FOR 1 SYRM
CAN BE CALLED BY1
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 BY1
UMINIT
CAN CALL THE FOLLOWING:
CPC

WRITE
ENTRY CLASS: MAIN
SEGMENT: (DB0)
DESC: (NOT AVAILABLE)
LENGTH: 5 LANGUAGE: COMPASS
HAS NO SECONDARY ENTRY POINTS
CAN BE CALLED BY1
EMWRITE
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 BY1
GRID: 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 BY1
SETSNC

XYERAS
ENTRY CLASS: MAIN
SEGMENT: (MS)
DESC: X-Y PLOTS - ERASE BUT NO DEACTIVATE
LENGTH: 52 LANGUAGE: FIN
SECONDARY ENTRY POINTS:
XYRET1
ENTRY CLASS: SECONDARY SEGMENT: (M5)
DESCI: X-Y PLOTS - ERASE AND DEACTIVATE, RETURN TO ACTIVATE-AND-DRAW MOD
SECONDARY ENTRY POINT FOR 1 XYERAS
CAN BE CALLED BY1
DETABLE

XYRET
ENTRY CLASS: SECONDARY SEGMENT: (M5)
DESCI: X-Y PLOTS - ERASE AND DEACTIVATE, STAY IN NO DRAW MODE
SECONDARY ENTRY POINT FOR 1 XYERAS
CAN BE CALLED BY1
DETABLE.

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

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

Z.SO
ENTRY CLASS: MAIN SEGMENT: (S0)
DESCI: (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.SO

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