

AD-A137 510

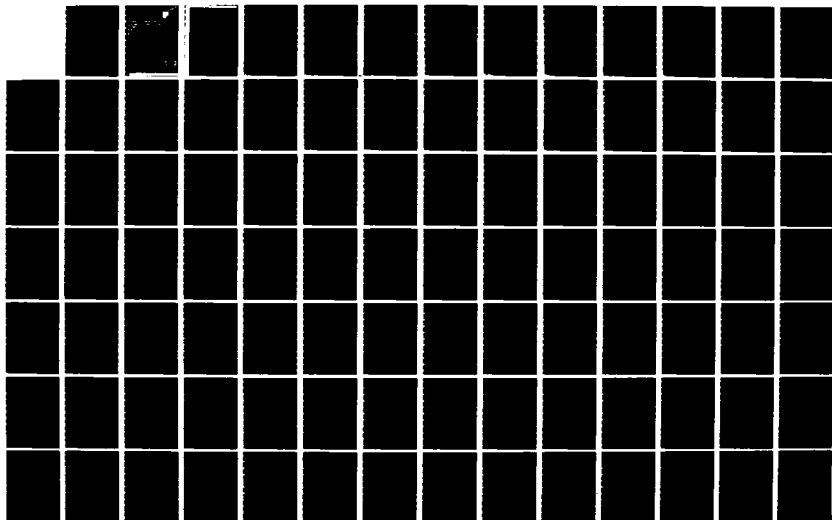
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

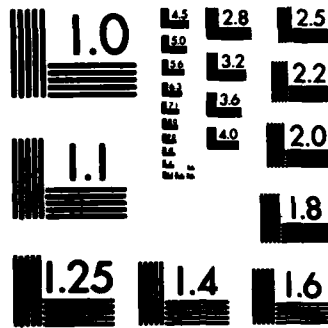
1/5

UNCLASSIFIED

RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

RADC-TR-83-217, Vol III (of three), Pt 4
Final Technical Report
September 1983

12



AD A137 510

**GENERAL ELECTROMAGNETIC MODEL FOR
THE ANALYSIS OF COMPLEX SYSTEMS
(GEMACS) Computer Code Documentation
(Version 3)**

The BDM Corporation

Dr. Diana L. Kadlec and Dr. E. L. Coffey

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

**ROME AIR DEVELOPMENT CENTER
Air Force Systems Command
Griffiss Air Force Base, NY 13441**

**DTIC
ELECTE
FEB 6 1984**
S D D

DTIC FILE COPY

This report has been reviewed by the RADC Public Affairs Office (PA) is releasable to the National Technical Information Service (NTIS). At NTIS it will be releasable to the general public, including foreign nations.

RADC-TR-83-217, Volume III, Part 4 (of three) has been reviewed and is approved for publication.

APPROVED:



KENNETH R. SIARKIEWICZ
Project Engineer

APPROVED:



W.S. TUTHILL, Colonel, USAF
Chief, Reliability & Compatibility Division

FOR THE COMMANDER:



JOHN P. HUSS
Acting Chief, Plans Office

If your address has changed or if you wish to be removed from the RADC mailing list, or if the addressee is no longer employed by your organization please notify RADC (RBCT) Griffiss AFB NY 13441. This will assist us in maintaining a current mailing list.

Do not return copies of this report unless contractual obligations or not on a specific document requires that it be returned.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER RADC-TR-83-217, Vol III, Part 4	2. GOVT ACCESSION NO. H137310	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF COMPLEX SYSTEMS (GEMACS) COMPUTER CODE DOCUMENTATION (Version 3)		5. TYPE OF REPORT & PERIOD COVERED Final Technical Report February 81 - July 83
7. AUTHOR(s) Dr. Diana L. Kadlec Dr. Edgar J. Coffey		6. PERFORMING ORG. REPORT NUMBER BDM/A-83-020-TR
9. PERFORMING ORGANIZATION NAME AND ADDRESS The BDM Corporation 1801 Randolph Road, S.E. Albuquerque NM 87106		8. CONTRACT OR GRANT NUMBER(s) F30602-81-C-0084
11. CONTROLLING OFFICE NAME AND ADDRESS Rome Air Development Center (RBCT) Griffiss AFB NY 13441		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 62702F 23380333
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Same		12. REPORT DATE September 1983
		13. NUMBER OF PAGES 564
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		16a. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A
14. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Same		
18. SUPPLEMENTARY NOTES RADC Project Engineer: Kenneth R. Siarkiewicz (RBCT)		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Electromagnetic Compatibility Method of Moments (MOM) Geometrical Theory of Diffraction (GTD) Antenna Analysis Matrix Equation Solution MOM/GTD Hybridization EM Radiation and Scattering		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) GEMACS solves electromagnetic radiation and scattering problems. The Method of Moments (MOM) and Geometrical Theory of Diffraction (GTD) are used. MOM is formalized with the Electric Field Integral Equation (EFIE) for wires and the Magnetic Field Integral Equation (MFIE) for patches. The code employs both full matrix decomposition and Banded Matrix Iteration (BMI) solution techniques. The MOM, GTD and hybrid MOM/GTD techniques in the code are used to solve electrically small object problems, electrically		

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

large object problems and combination sized object problems.

Volume I of this report is the User Manual. The code execution requirements, input language and output are discussed.

Volume II is the Engineering Manual. The theory and engineering approximations implemented in the code are discussed. Modeling criterion are given.

Volume III is the Computer Code Documentation Manual. This manual contains extensive software information of the code.

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A/1	



UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

1. NAME: UNEFLD (MOM)
2. PURPOSE: To calculate the electric field due to the unit currents in the \hat{t}_1 and \hat{t}_2 directions on the source patch.
3. METHOD: The electric field at a segment observation point due to the source patch j is given by

$$\bar{E}(\bar{r}_o) = \frac{-jnA}{4\pi k} \left[\left(\frac{-1 - jkR + k^2R^2}{R^3} \right) \bar{J}_j + \left(\frac{3 + 3jkR - k^2R^2}{R^5} \right) (\bar{J}_j \cdot \bar{R}) \bar{R} \right] e^{-jkR}$$

where $\bar{J}_j = J_{1j} \hat{t}_{1j} + J_{2j} \hat{t}_{2j}$, R is the vector from the source to the observation point, and A is the area of the patch. In this subroutine J_{1j} and J_{2j} are unity.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	The area of the source patch
CONST	$\eta/4\pi k$
EXIT1,EYIT1,EZIT1 EXRT1,EYRT1,EZRT1	Imaginary and real part of the electric field at the observation segment due to a current in the \hat{t}_1 direction on the source patch
EXIT2,EYIT2,EZIT2 EXRT2,EYRT2,EZRT2	Imaginary and real part of the electric field at the observation segment due to a current in the \hat{t}_2 direction on the source patch
R	The distance from the source patch to the observation segment
RJ1	$J_1 \hat{t}_1 \cdot R$
RJ2	$J_2 \hat{t}_2 \cdot R$
RK	kR

UNEFLD (MOM)

R2	R ²
R2K	k ² R ²
R3	R ³
R5	R ⁵
TCR,TCI	Real and imaginary parts of $\frac{-nA}{4\pi k} e^{-jkR}$
T1R,T1I	Real and imaginary parts of $(-1 -jkR + R^2k^2)/R^3$
T2R, T2I	Real and imaginary parts of $(3 + 3jkR - k^2R^2)/R^5$
T1,T2,T3,T4	Temporary variables used in computing electric field
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XIJ,YIJ,ZIJ	X,Y, and Z components of vector from source patch to observation segment

5. I/O VARIABLES

A. INPUT	LOCATION
AREA	/AMPZIJ/
ETA	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XIJ,YIJ,ZIJ	F.P.
B. OUTPUT	LOCATION

EXIT1,EYIT1,EZIT1 /AMPZIJ/

EXIT2,EYIT2,EZIT2 /AMPZIJ/

EXRT1,EVRT1,EZRT1 /AMPZIJ/

EXRT2,EVRT2,EZRT2 /AMPZIJ/

6. CALLING ROUTINES:

NTRPLU

WYRPAT

7. CALLED ROUTINES:

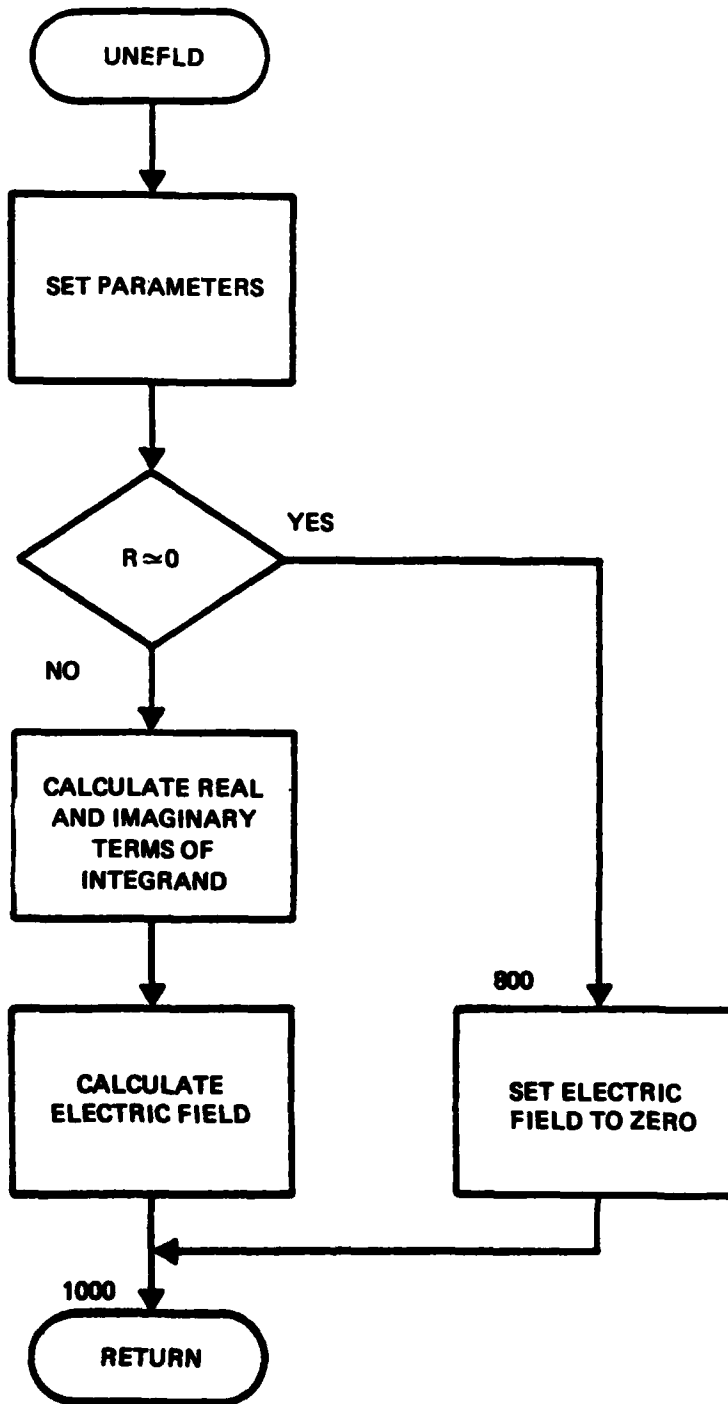
ASSIGN

STATIN

STATOT

WLKBCK

UNEFLD (MOM)



1. NAME: UNHFLD (MOM)
2. PURPOSE: To calculate the magnetic field due to a unit current in the \hat{t}_1 and \hat{t}_2 directions on the patch source.
3. METHOD: The magnetic field is calculated at a patch observation point due to the unit currents on a patch source j . The magnetic field is given by

$$\bar{H}(\bar{r}) = \frac{-A}{4\pi} \left[\left(1 + jkR \right) \frac{e^{-jkR}}{R^3} \right] \left[\bar{R} \times \bar{J}_j \right]$$

where \bar{R} is the vector from the source to the observation point and A is the area of the source patch. This expression treats the surface currents as lumped at the center of the patch. \bar{H} is computed in the direction of the vectors \hat{t}_1 and \hat{t}_2 .

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	The area of the source patch
CRK	$\cos(kR)$
EXIT1,EYIT1,EZIT1 EXRT1,EYRT1,EZRT1	Imaginary and real part of magnetic field at an observation patch due to current in the \hat{t}_1 direction on source patch
EXIT2,EYIT2,EZIT2 EXRT2,EYRT2,EZRT2	Imaginary and real part of magnetic field at an observation patch due to current in the \hat{t}_2 direction on source patch
R	The magnitude of the vector from the source patch to the observation patch
RK	kR
R2	R^2
R3	R^3
SRK	$\sin(kR)$
TI,TR	Imaginary and real part of $\frac{-A}{4\pi} \left[\left(1 + jkR \right) \frac{e^{-jkR}}{R^3} \right]$

TIX,TIY,TIZ	Temporary variables used in computing the
TRX,TRY,TRZ	magnetic field
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XIJ,YIJ,ZIJ	X,Y, and Z components of vector from source patch to observation patch

5. I/O VARIABLES:

A. INPUT	LOCATION
AREA	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XIJ,YIJ,ZIJ	F.P.
B. OUTPUT	LOCATION
EXIT1,EYIT1,EZIT1	/AMPZIJ/
EXIT2,EYIT2,EZIT2	/AMPZIJ/
EXRT1,EYRT1,EZRT1	/AMPZIJ/
EXRT2,EYRT2,EZRT2	/AMPZIJ/

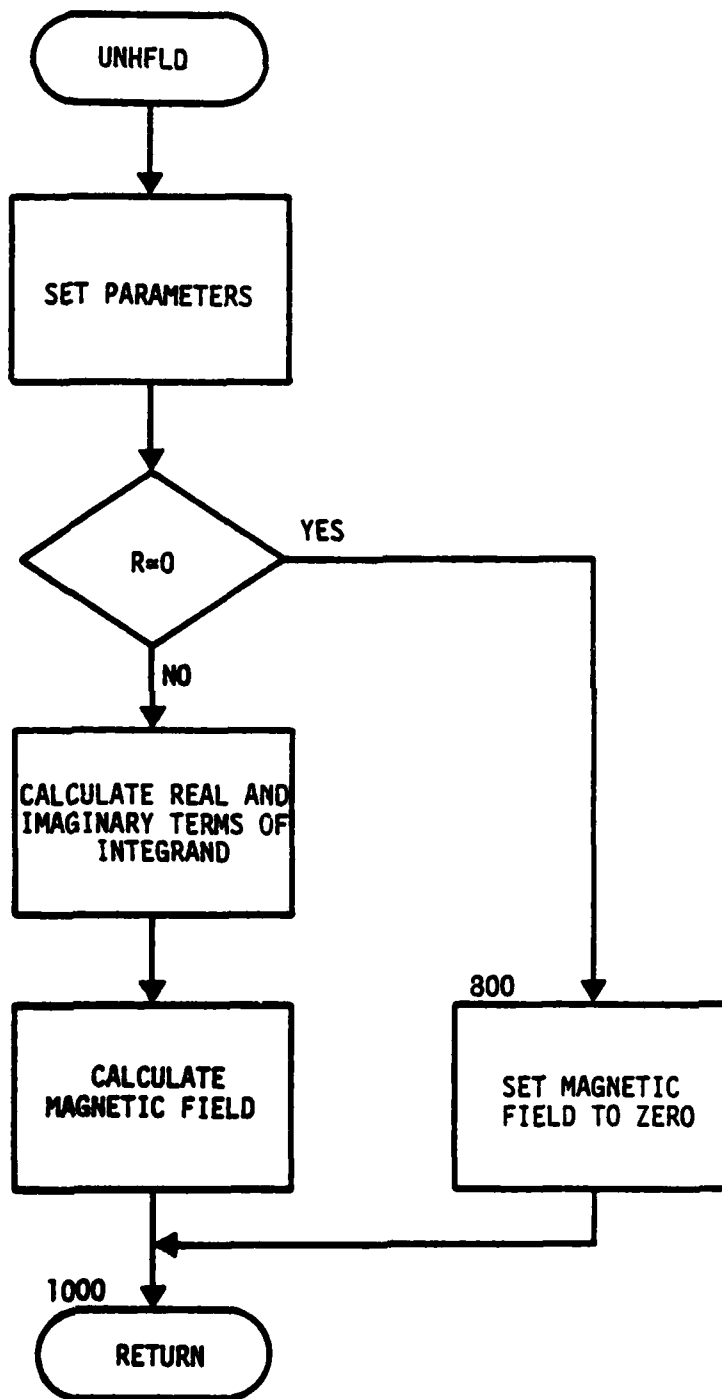
6. CALLING ROUTINE:

NTRPLU

7. CALLED ROUTINES:

ASSIGN
 STATIN
 STATOT
 WLBCK

UNHFLO (MOM)



1. NAME: WLKBACK (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: To accumulate the walkback table information.
3. METHOD: The subroutine accumulates a table of the subroutine linkage to the current position. If the name of the subroutine called through the argument is the same as the last name in the table, it is removed from the table. If it is not the same as the last name, it is entered into the last position of the table and the table pointer is incremented by 1.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
IBLKL	A blank field
MXWALK	Maximum number of entries in walkback table
NAMSB	Input argument, coded name of subroutine being entered or exited

5. I/O VARIABLES:

A. INPUT	LOCATION
LUPRNT	/ADEBUG/
MXWALK	/ADEBUG/
NAMRTN	/ADEBUG/
NAMSB	F.P.
B. OUTPUT	LOCATION
INDXWB	/ADEBUG/
NAMRTN	/ADEBUG/

6. CALLING ROUTINES:

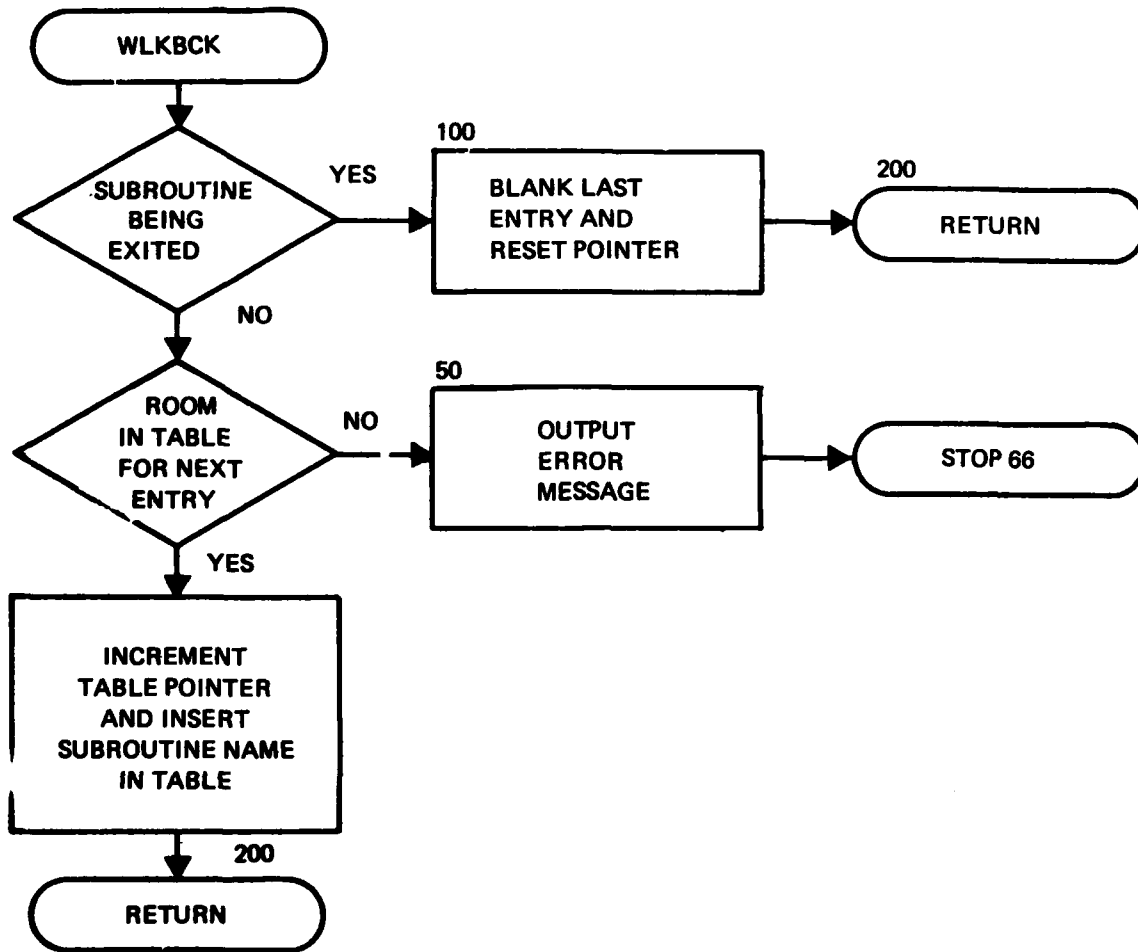
All major routines.

7. CALLED ROUTINES:

TRCEBK

WLKBCK

(GTD, INPUT, MOM, OUTPUT)



1. NAME: WRTCHK (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Write the information needed for a checkpoint or end-of-module restart file.
3. METHOD: The common areas specified in the RWCOMS routine are written to the IOCKPT logical unit. After this is completed, the peripheral files which are currently open are rewound and written out to the IOCKPT file.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
DT	Elapsed time between calls to TICHEK
FSTCHK	Flag indicating if first checkpoint on ICKFIL
ICKFIL	Checkpoint file number
NREAD	Flag to tell RWCOMS to write common areas to IOCKPT
T	Time that the checkpoint is being taken

5. I/O VARIABLES:

A. INPUT	LOCATION
CPFRWD	/SYSFIL/
IMDCHK	/ADEBUG/
IOCKPT	/SYSFIL/
IOFILE	/IOFLES/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
LUPRNT	/ADEBUG/
MODCHK	/SYSFIL/
NDATBL	/PARTAB/
NPDATA	/PARTAB/

WRTCHK (GTD, INPUT, MOM, OUTPUT)

B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
IWRTCK	/ADEBUG/
NUMCHK	/SYSFIL/

6. CALLING ROUTINES*:

ERROR (1,2,3,4)

SOLDRV (3)

STATFN (1,2,3,4)

SYSCHK (1,2,3,4)

TSKXQT (2,3,4)

7. CALLED ROUTINES:

ASSIGN RWFILS

CLSFIL STATIN

GETSYM STATOT

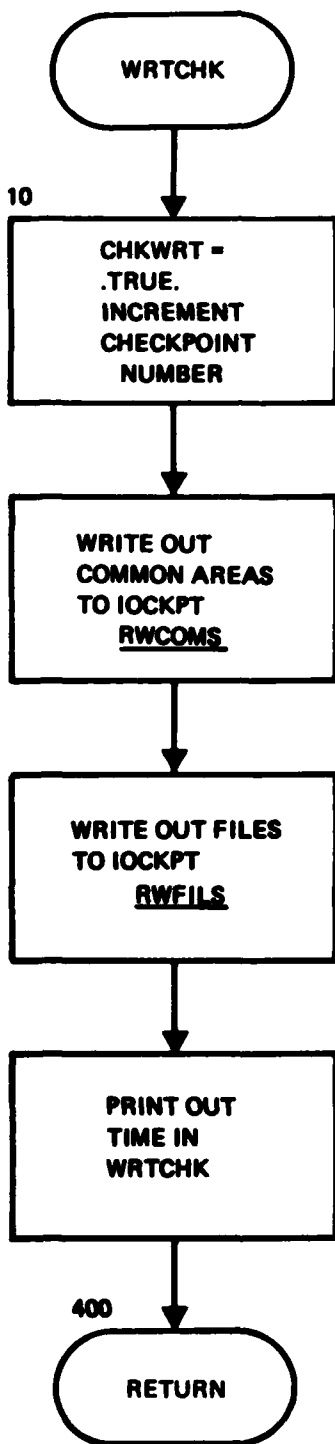
OPNFIL TICHEK

PUTSYM WLKBCK

RWCOMS WRTFIL

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

WRTCHK (GTD, INPUT, MOM, OUTPUT)



1. WRTFIL (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Central output routine for all peripheral files.
3. METHOD: The data called through the input argument list are transferred to the logical unit specified using a FORTRAN binary write. The position of the file is incremented by the number of words written to the file and if the file has been extended, the end of file flag is extended to point to the total number of words which have been written.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
LUNIT	Input argument designating logical unit
NWORDS	Input argument specifying number of computer words to be written to the designated logical unit
XWORDS	Input argument array containing the data to be written to the specified logical unit

5. I/O VARIABLES:

A. INPUT	LOCATION
DBGPRT	/ADEBUG/
IOFILE	/IOFLES/
ISON	/ADEBUG/
LUNIT	F.P.
LUPRNT	/ADEBUG/
NWORDS	F.P.
XWORDS	F.P.
B. OUTPUT	LOCATION
IERRF	/ADEBUG/
IOFILE	/IOFLES/
NDFILE	/IOFLES/

WRTFIL (GTD, INPUT, MOM, OUTPUT)

6. CALLING ROUTINES*:

BUBBLE (1)

DECOMP (3)

GEODRV (1)

PRTSYM (3)

PUTSYM (1,2,3,4)

RWCOMS (1,2,3,4)

RWFILS (1,2,3,4)

SOLDRV (3)

SUBPAT (1)

WRTCHK (1,2,3,4)

7. CALLED ROUTINES:

ASSIGN

ERROR

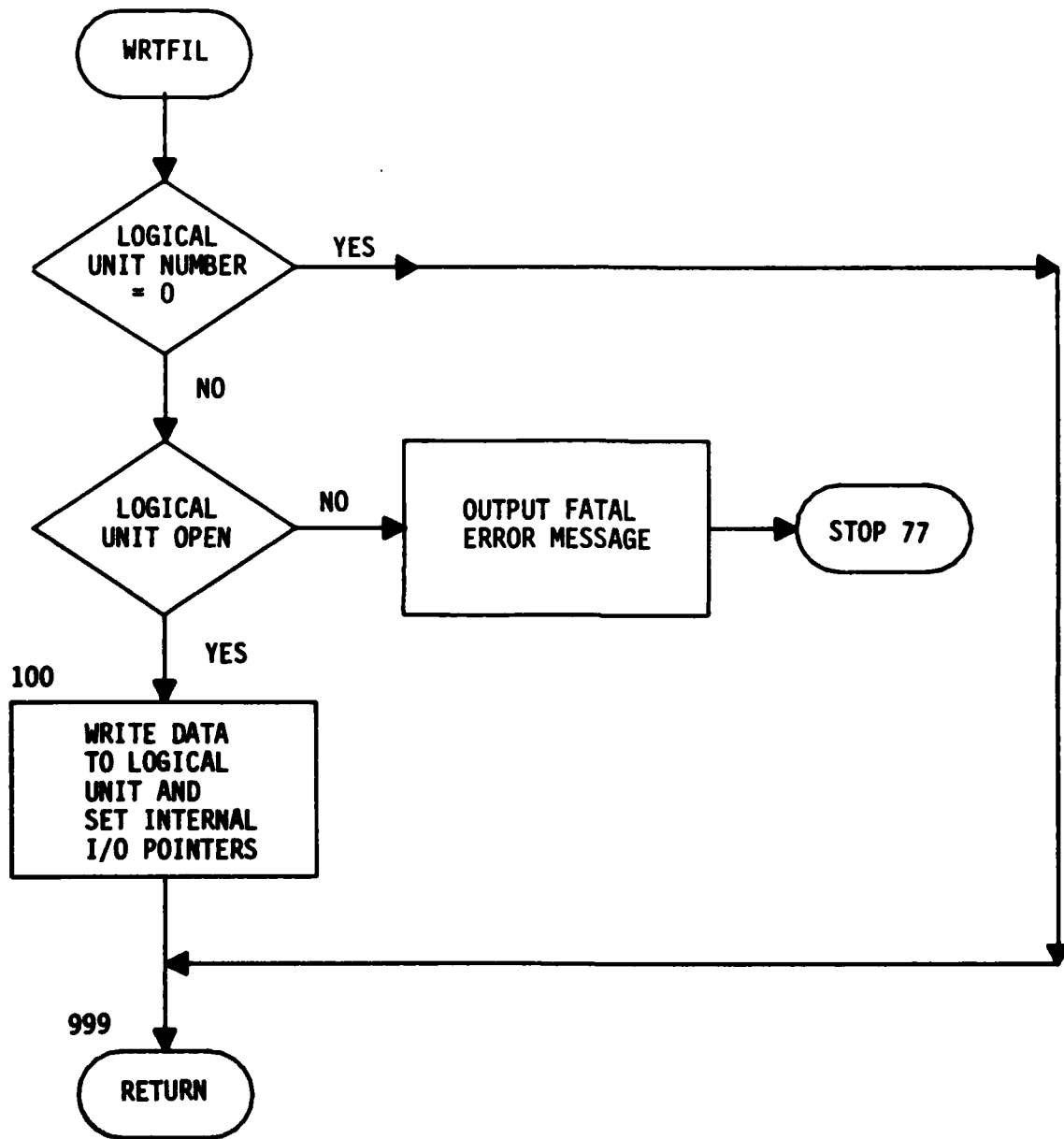
STATIN

STATOT

WLKBACK

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

WRTFIL (GTD, INPUT, MOM, OUTPUT)



1. NAME: WYRDRV (INPUT)
2. PURPOSE: Processes the user-format MOM and GTD geometry objects and macro-object generation commands to generate, coordinate and orient angles for all wire segments, patches, plates, cylinders, and end caps desired in the geometry.
3. METHOD: WYRDRV calls subroutine SCAN to read a geometry data set card. SCAN returns the card's data in VAL and NVAL. The first item is checked against the set of geometry mnemonics, and a branch is made to that portion of the code which handles the mnemonic. The geometry data set cards are read in sequence by SCAN until an END card is encountered.

The geometry objects presently implemented (with mnemonic in parenthesis) are point (PT), wire (WR), patch (PA), plate (PL), cylinder (CY), and end cap (EC). Wire segments may also be created with the connect point (CP) and multiple point (MP) commands. Wire radii are specified on the radius (RA) card.

Commands available for scaling, coordinate transformation, and symmetry are coordinate system (CS), scale (SC), plane symmetry (PSYM) and rotational symmetry (RSYM). Segments may be renumbered with the renumber (RN) command.

Macro-geometry elements may be created with the define element (DF) and define end (DE) commands.

Individual objects or macro-elements may be replicated by using the translation (XL), rotation (RX, RY, RZ), and reflect (RF) commands. A macro-element may be assigned a different coordinate system with the attach (AT) command.

Details on the use of these geometry commands may be found in the GEMACS User Manual.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
DX	Segment length in x direction
DY	Segment length in y direction
DZ	Segment length in z direction
ERRMSG	Array containing error messages
FJS	Number of segments on a wire

WYRDRV (INPUT)

IADD	Integer number of additional objects to be generated in a translation
IARG	Index to the scan tables
IARGS	Number of arguments
ICS	Index to coordinate system in which a given operation is desired
ICSSAV	Saves the ICS index
ICSYS	Last used coordinate system index
IC1	The old coordinate system
IC2	The new coordinate system
IFOUND	Flag indicating defined element found
ILIM	Limit to IDEFIN array
IMN	Temporary variable
INCTAG=INCTG	Tag increment number for new segments
INP	Number of points to be multiply connected
INPP3	INP + 3
INPP4	INP + 4
INPP5	INP + 5
IPL	User-assigned plate number
IPL1	Plate number of plate created by macro-geometry command
IPT	Geometry point number
IPTNUM	Point number
IPTTAG	Temporary variable
IPT1	First point to be operated upon
IPT2	Last point to be operated upon

WYRDRV (INPUT)

IP1	Temporary variable
IP2	Temporary variable
IRAD	Wire radius
IRADSV	Saved wire radius
IS	Segment number
ISAV	Temporary variable
ISEGSV	Temporary variable
ISEG1	First segment to be operated upon
ISEG2	Last segment to be operated upon
ITAG	Tag identifier
ITYPE	Type of data being operated upon
IXL	Designates translation requirement (= ISON) or no requirement (= ISOFF)
IX1	Packed word for plates containing number of corners, plate number, and linking information
LSTDFN	Reference to end statement for a given define
LSTMN	Number of mnemonics
MITAG	Minus ITAG
MN	Indices to NCODES array
MP	Multiple point flag
NCORN	Number of plate corners
NDXERR	Pointer to error format table
NDXON	Pointer to "ON" in NCODES array
NDXTRC	Pointer to "TRACE" in NCODES array
NEWNAM	Defined element name

WYRDRV (INPUT)

NEWNUM	New segment number
NMP	Number of points on MP card
NPRMSG	Number of words per message
NPTSYM	Point symmetry flag
NRF	Flag indicating number of reflection axis
NRFP4	NRF + 4
NRFP5	NRF + 5
NUMDEF	Number of defined elements
NUMELM	Number of elements to be combined
NUMFND	Number of elements found
NUMREN	Number of segments to be renumbered
NXTPT	Next point
NXTSEG	Next segment
R	Radius table
X,Y,Z	X,Y, and Z coordinates of geometry input point
XN,YN,ZN	Negative end of wire segment joining two points
XP,YP,ZP	Positive end of wire segment joining two points
XQ,YQ,ZQ	Third coordinate values after rotation and/or translation
X1,Y1,Z1	End points
X2,Y2,Z2	End points
X3,Y3,Z3	Third coordinate values

WYRDRV (INPUT)

5. I/O VARIABLES:

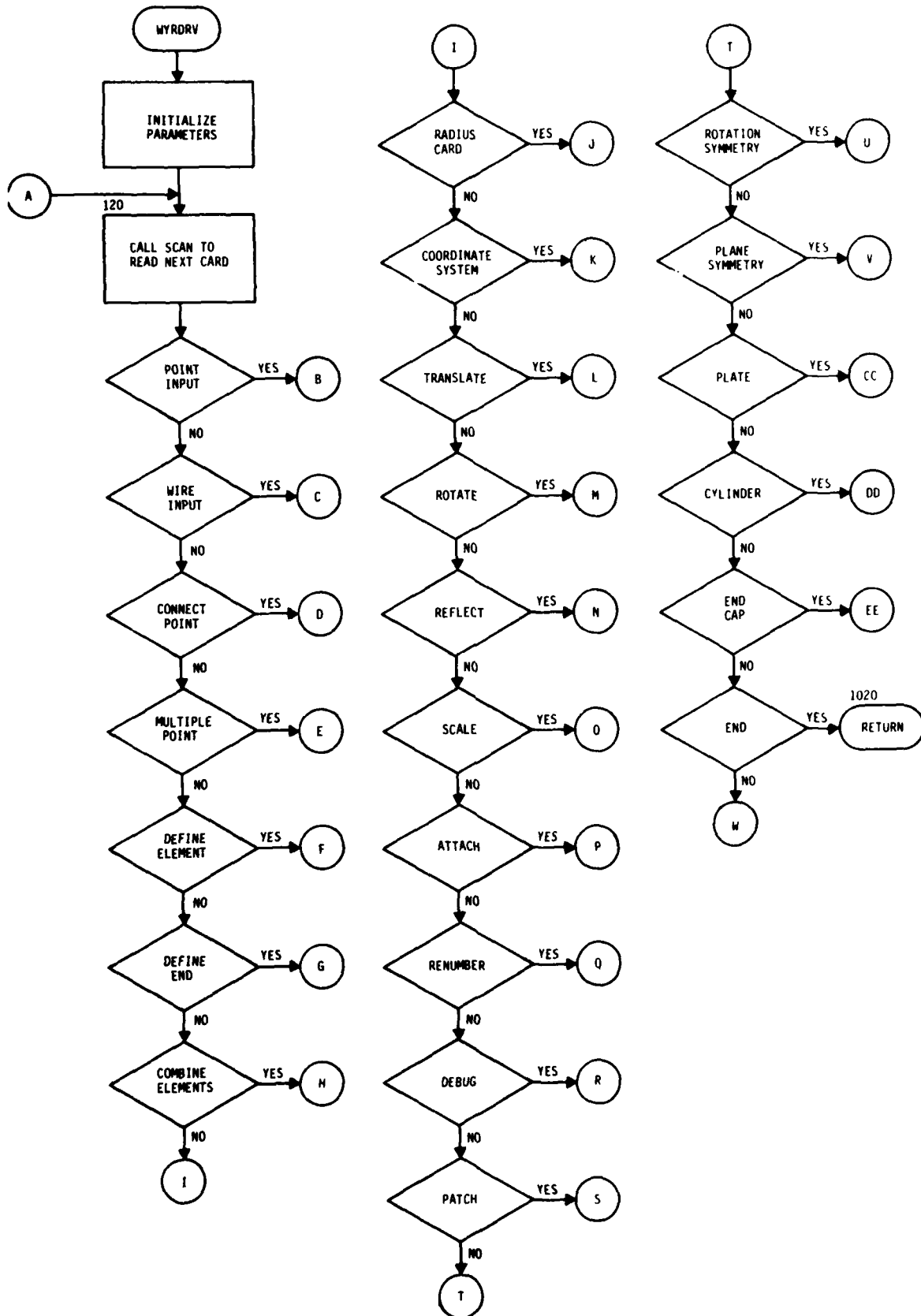
A. INPUT	LOCATION
ISOFF	/ADEBUG/
ISON	/ADEBUG/
NCODE	/SCNPAR/
NVAL	/SCNPAR/
B. OUTPUT	LOCATION
ISGTBL	/SEGMNT/
SEGTBL	/SEGMNT/

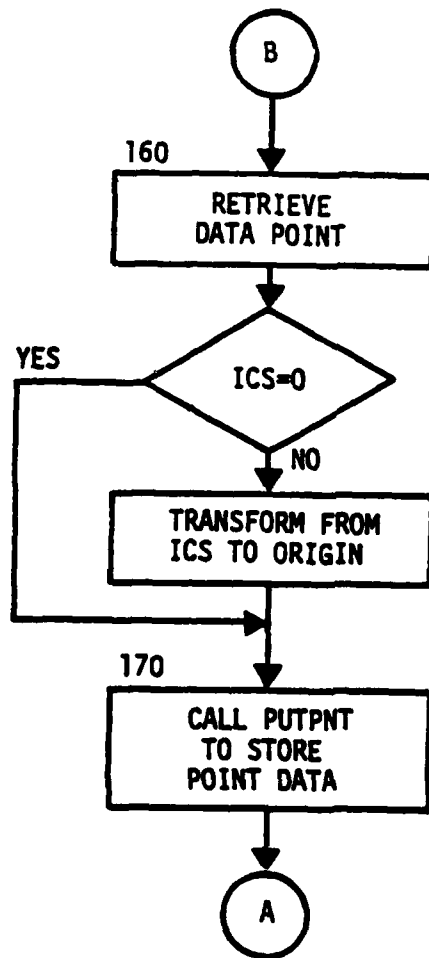
6. CALLING ROUTINE:

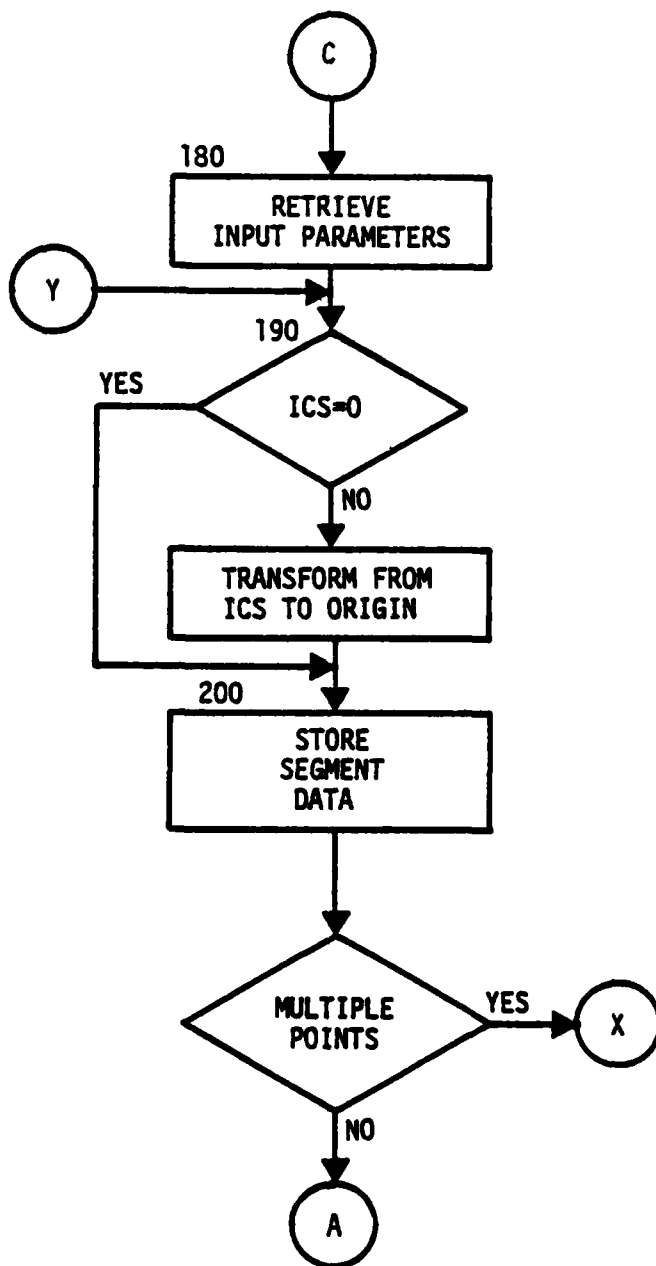
GEODRV

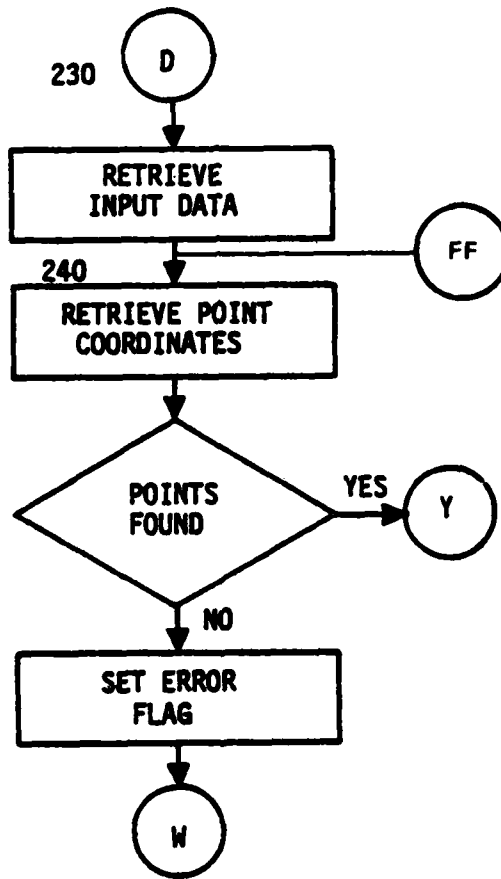
7. CALLED ROUTINES:

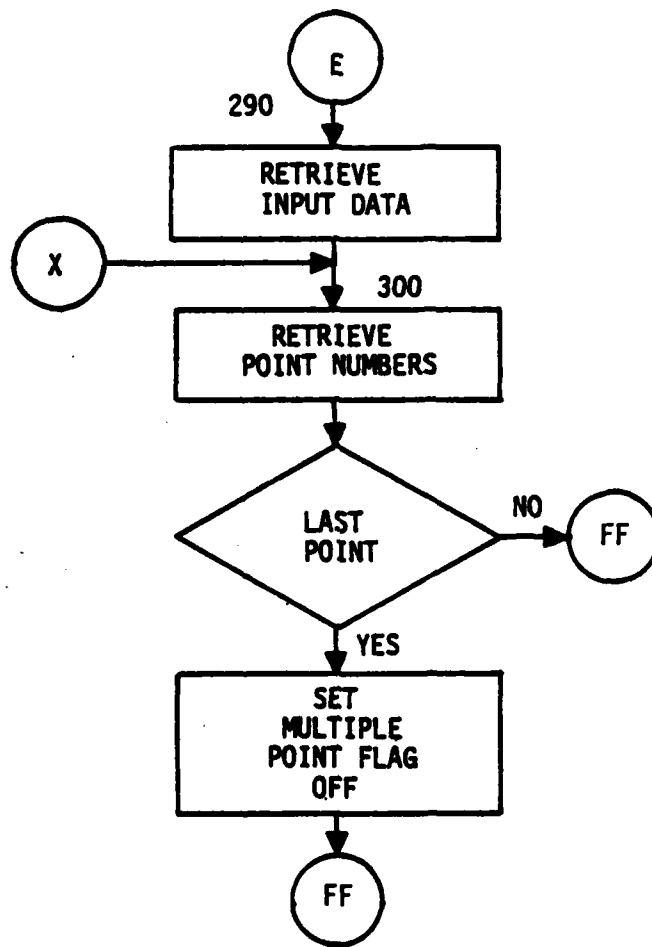
ASSIGN	PUTSEG
COORDS	REFLCT
CYLNRD	ROTATE
ENDCAP	SCAN
GETPNT	STATIN
GETSEG	STATOT
PATCH	TRNLAT
PLATE	WKLBCK
PUTPNT	

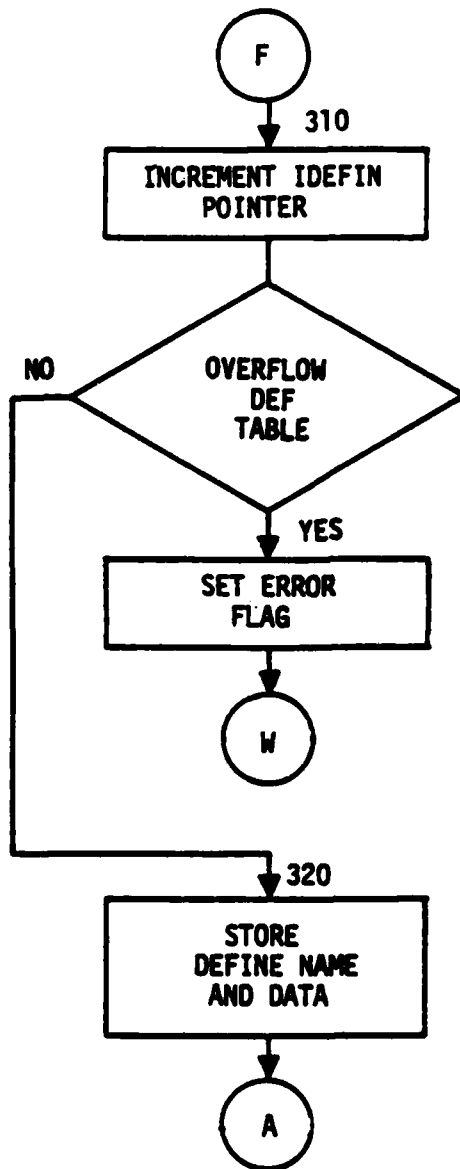


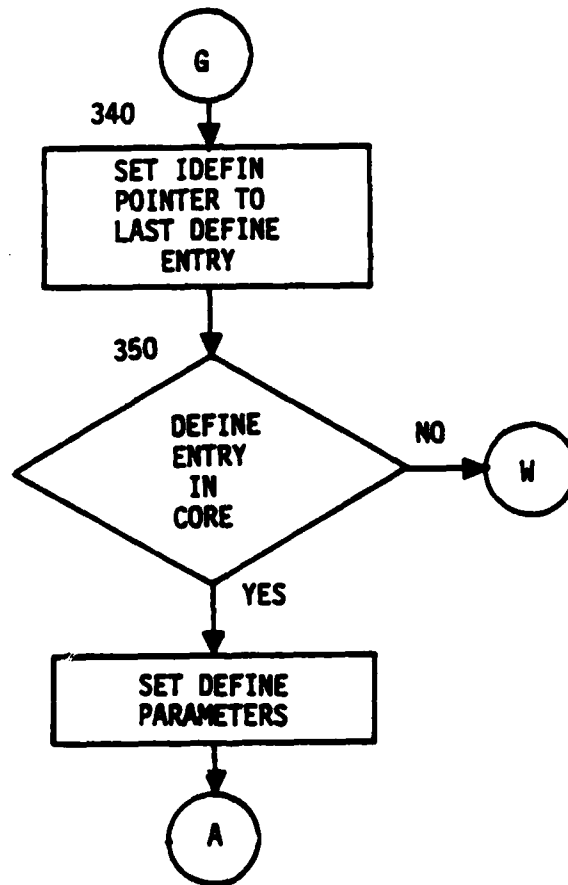


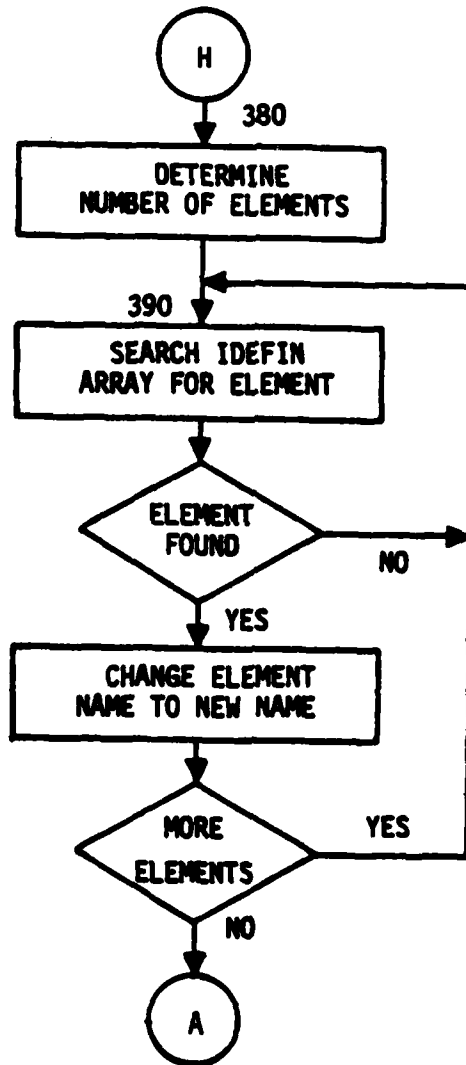


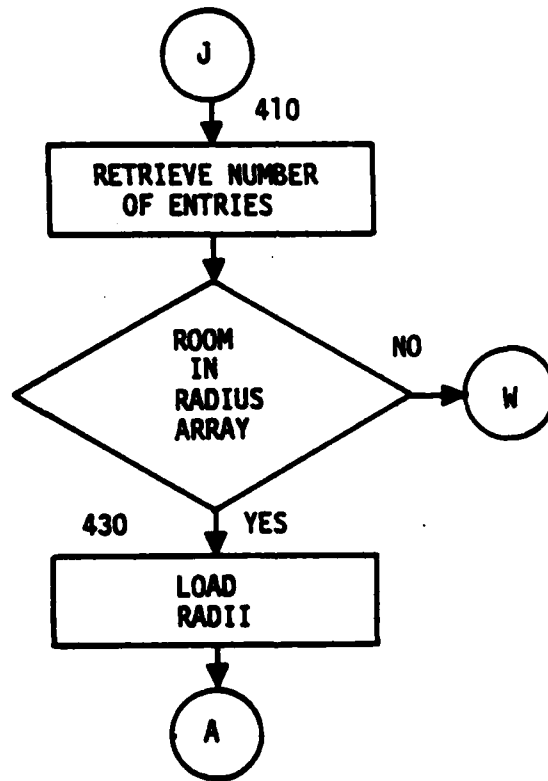


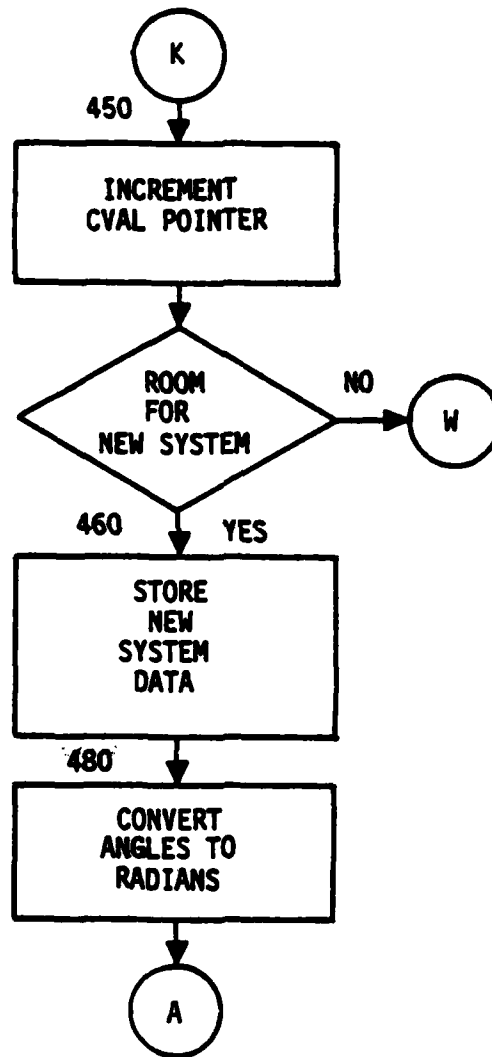


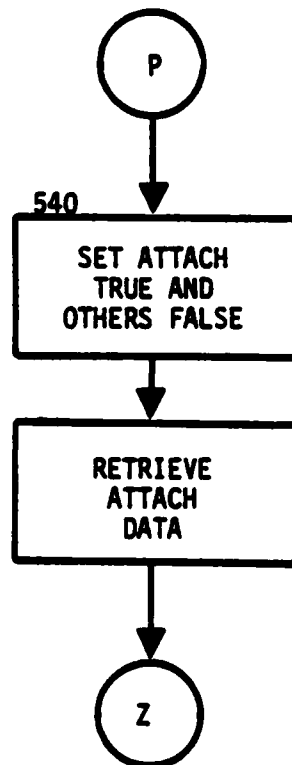
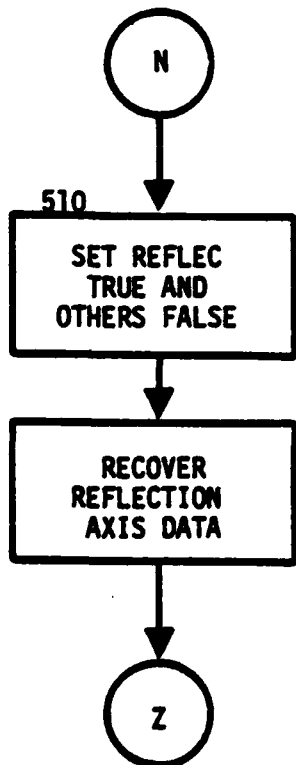
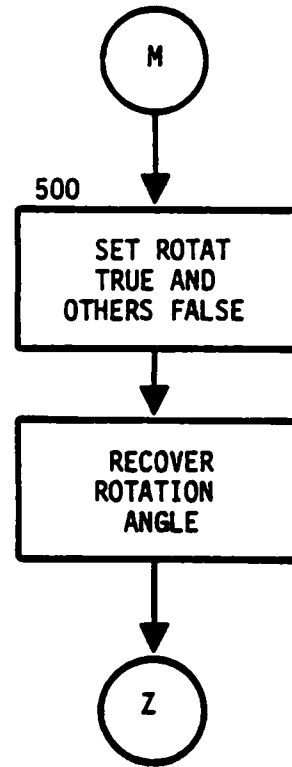
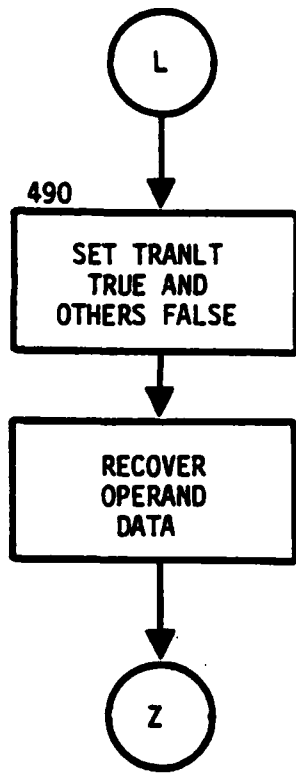


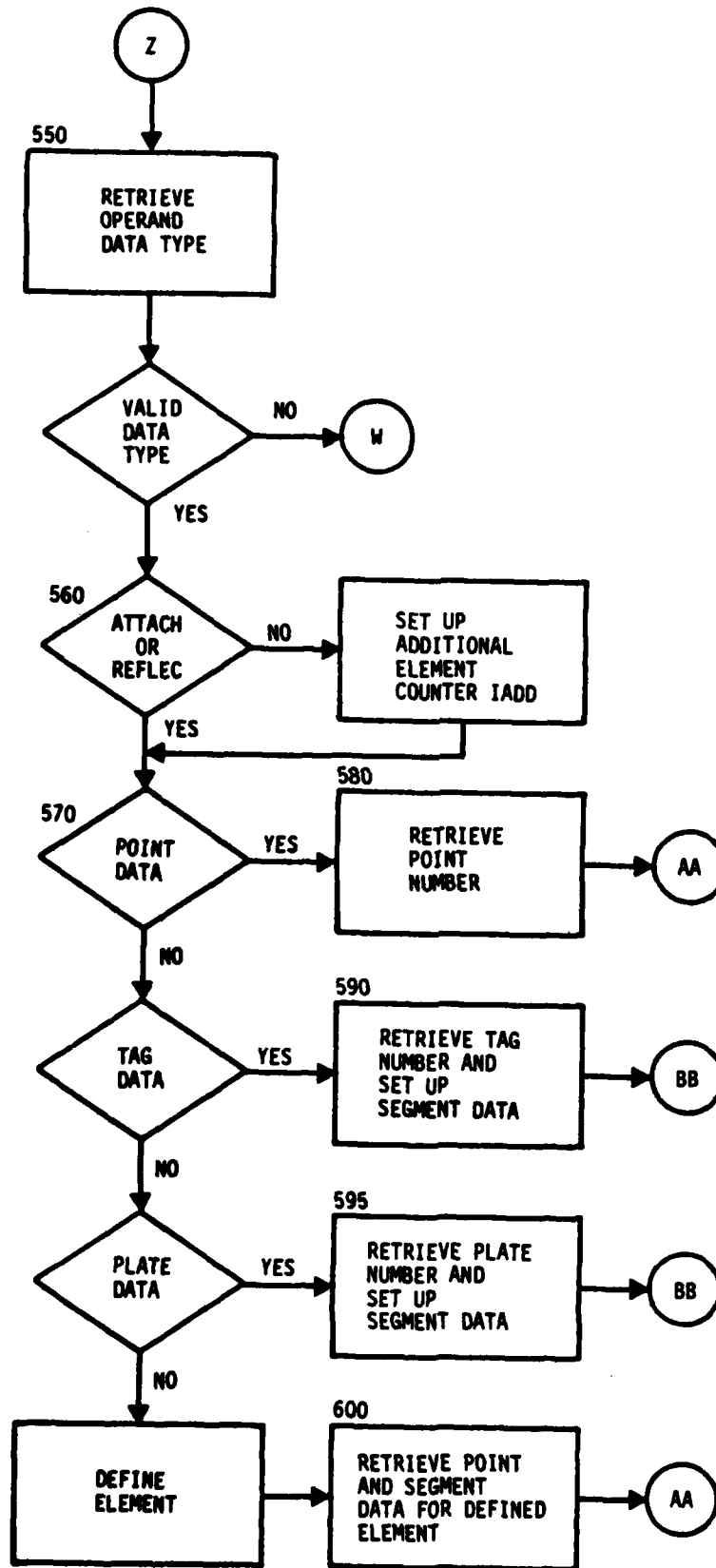


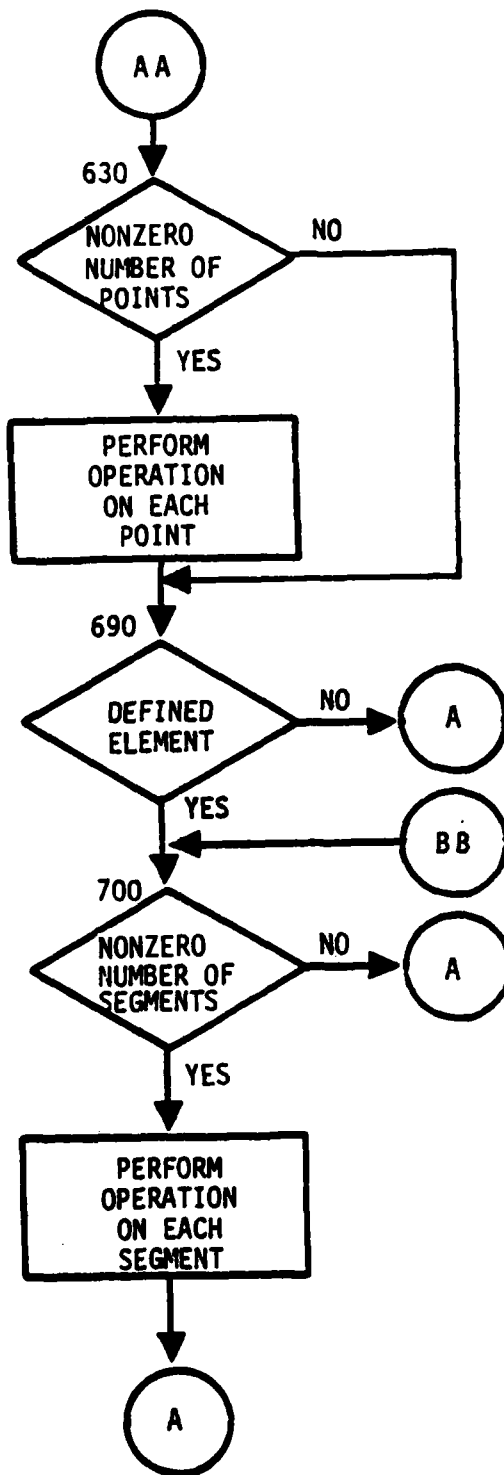


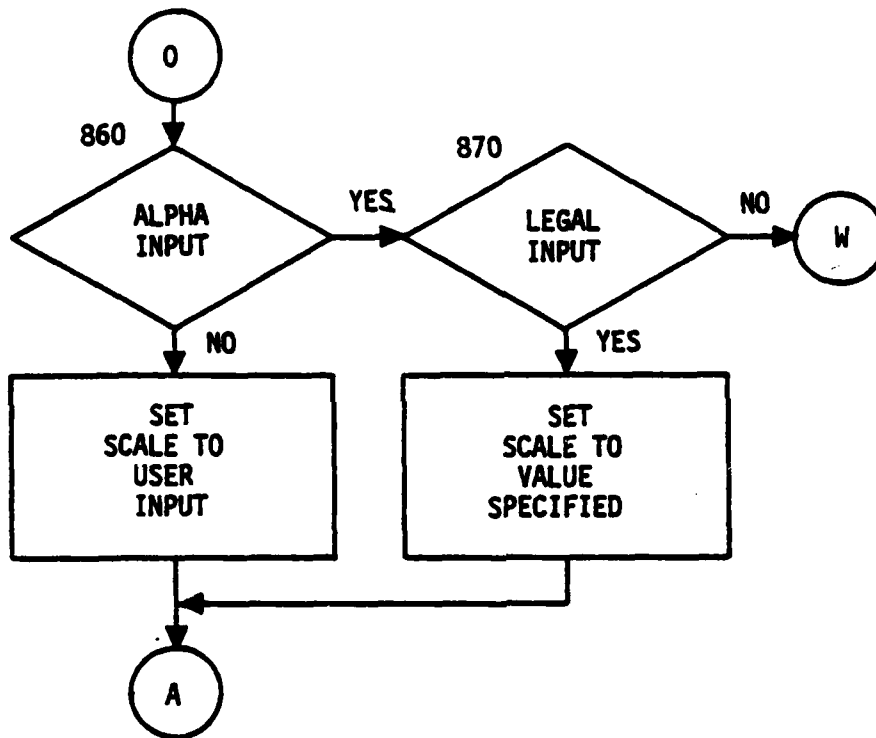


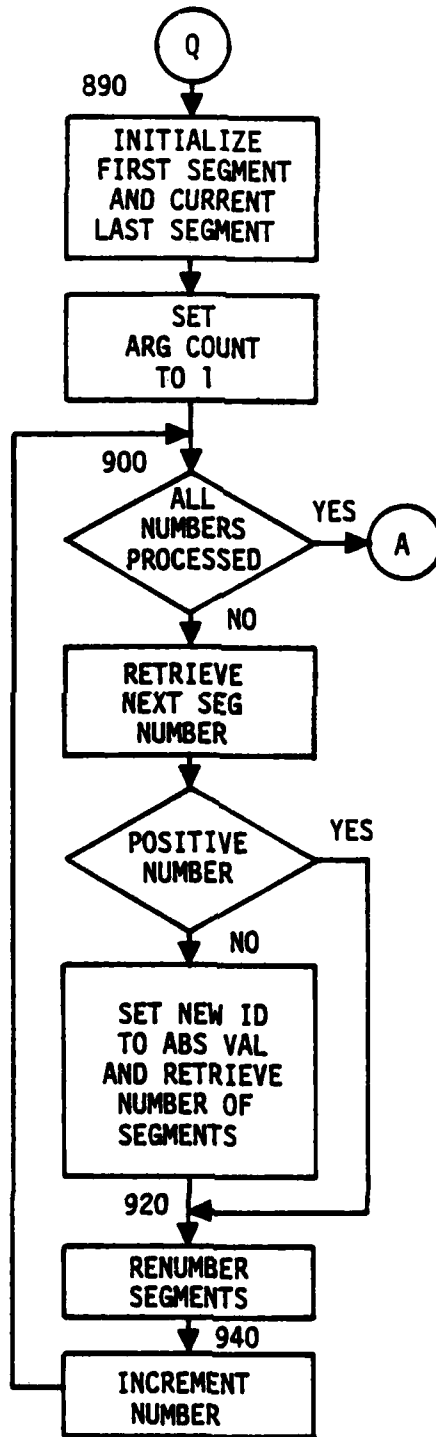


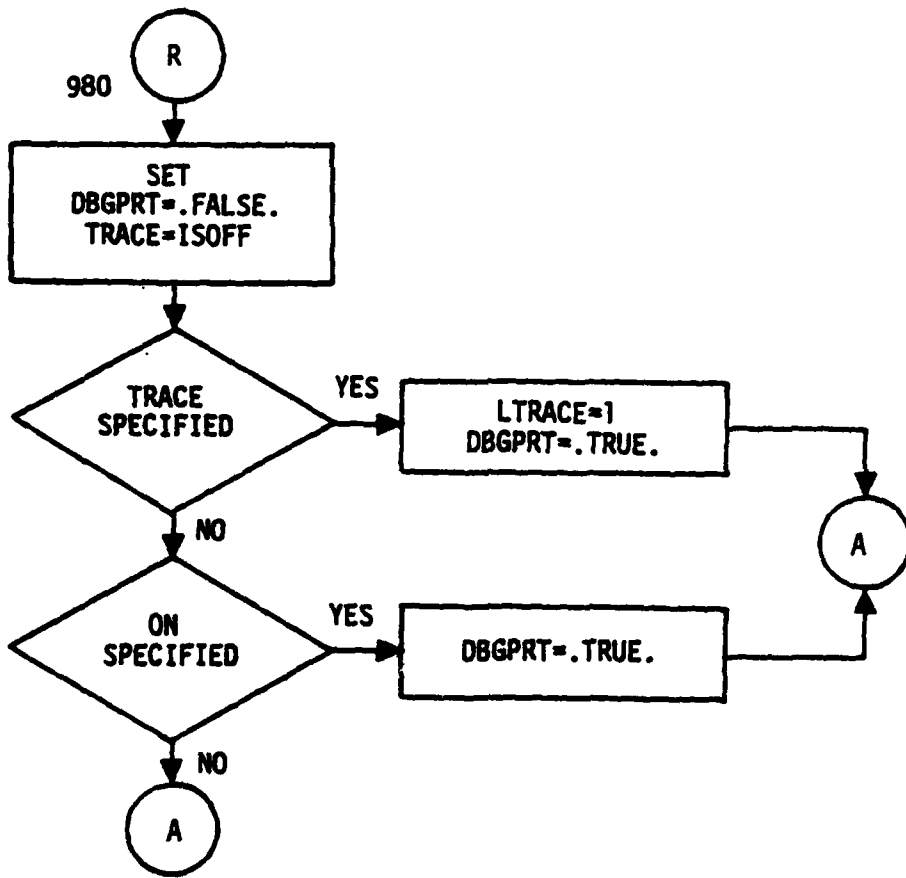


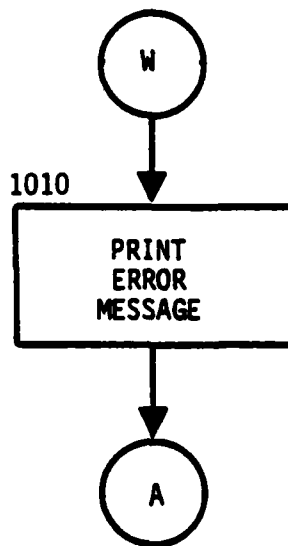
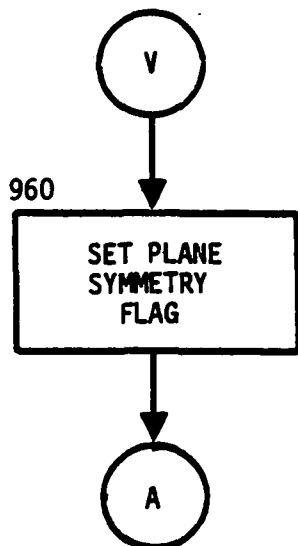
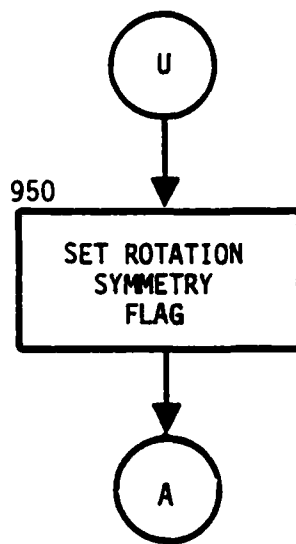
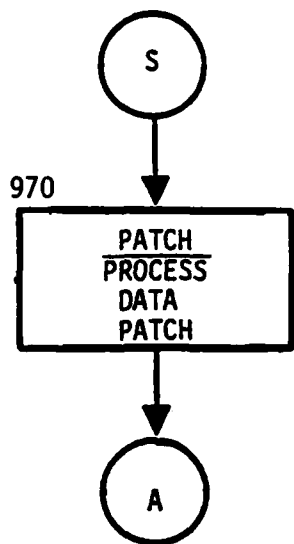




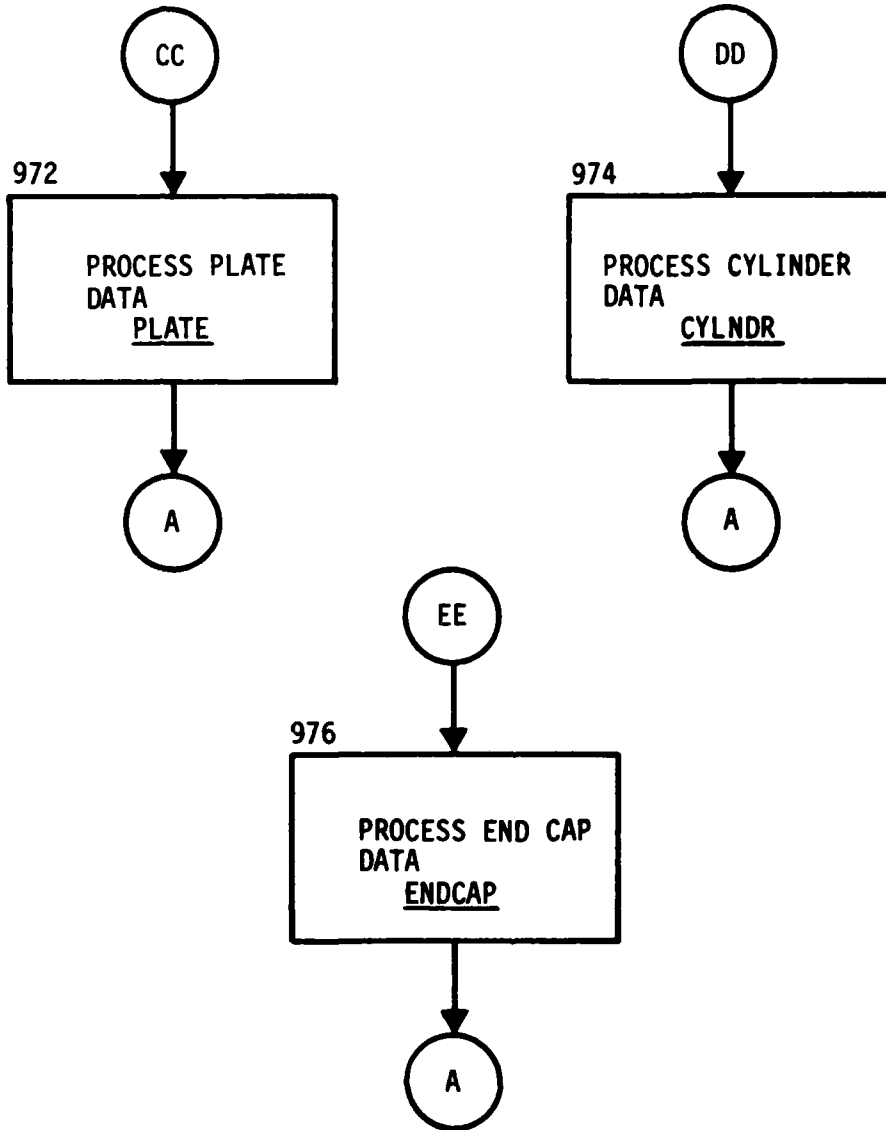








WYRDRV (INPUT)



1. NAME: WYRPAT (MOM)
2. PURPOSE: Calculates the tangential electric field at the observation segment connected to a surface due to the current on the four patches around the connection point.
3. METHOD: When a wire is found to be connected to a patch, the patch is divided into four equal-area subpatches. These patches are located with respect to the vectors \hat{t}_1 and \hat{t}_2 as shown in figure 1, and the patch numbers indicate the order in the data array.

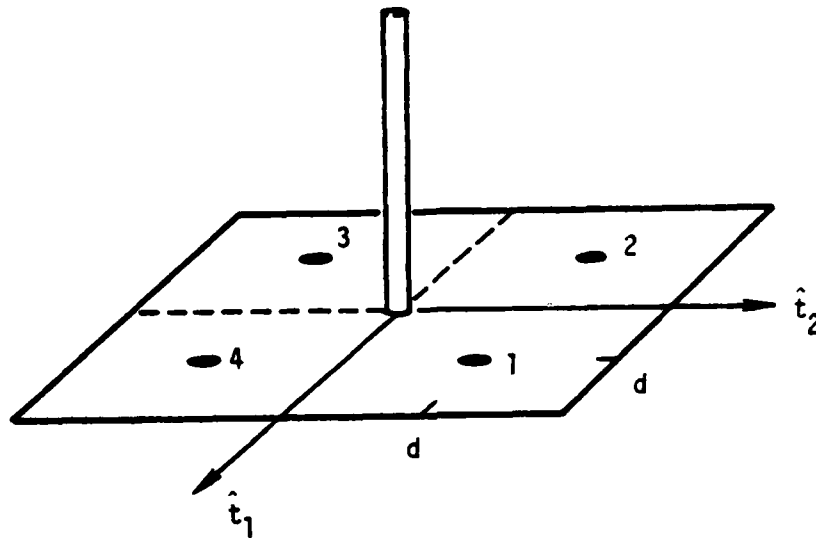


Figure 1. Subpatch Orientation and Geometry

The position of a point on the surface is defined by $\bar{\rho}(S_1, S_2) = \bar{\rho}_0 + S_1\hat{t}_1 + S_2\hat{t}_2$, where $\bar{\rho}_0$ is the position of the center of the four patches where the wire connects, and S_1 and S_2 are coordinates measured from the center.

The current over the surface is represented by $\bar{J}(S_1, S_2)$. The currents at the centers of the four patches are:

$$\bar{J}_1 = \bar{J}(d, d)$$

$$\bar{J}_2 = \bar{J}(-d, d)$$

$$\bar{J}_3 = \bar{J}(-d, -d)$$

$$\bar{J}_4 = \bar{J}(d, -d)$$

and the current at the base of the segment, flowing onto the surface, is I_0 . The current interpolation function is then

$$\bar{J}(S_1, S_2) = \left[\bar{f}(S_1, S_2) - \sum_{i=1}^4 g_i(S_1, S_2) \bar{f}_i \right] I_0 + \sum_{i=1}^4 g_i(S_1, S_2) \bar{J}_i$$

where

$$\bar{f}(S_1, S_2) = \frac{S_1 \hat{t}_1 + S_2 \hat{t}_2}{2\pi(S_1^2 + S_2^2)}$$

$$\bar{f}_1 = \bar{f}(d, d) = (\hat{t}_1 + \hat{t}_2)/(4\pi d)$$

$$\bar{f}_2 = \bar{f}(-d, d) = (-\hat{t}_1 + \hat{t}_2)/(4\pi d)$$

$$\bar{f}_3 = \bar{f}(-d, -d) = (-\hat{t}_1 - \hat{t}_2)/(4\pi d)$$

$$\bar{f}_4 = \bar{f}(d, -d) = (\hat{t}_1 - \hat{t}_2)/(4\pi d)$$

and

$$g_1(S_1, S_2) = (d + S_1)(d + S_2)/(4d^2)$$

$$g_2(S_1, S_2) = (d - S_1)(d + S_2)/(4d^2)$$

$$g_3(S_1, S_2) = (d - S_1)(d - S_2)/(4d^2)$$

$$g_4(S_1, S_2) = (d + S_1)(d - S_2)/(4d^2)$$

If $\bar{e}_1(\bar{\rho})dA$ and $\bar{e}_2(\bar{\rho})dA$ are the electric fields at the center of the connected segment due to unit currents at $\bar{\rho}$ on the surface dA , flowing in the directions \hat{t}_1 and \hat{t}_2 , respectively, the nine matrix elements to be computed are

$$E_1 = \int_S g_1(S_1, S_2) \hat{t}_1 \cdot \bar{e}_1(\bar{\rho}) dA$$

$$E_2 = \int_S g_2(S_1, S_2) \hat{t}_2 \cdot \bar{e}_1(\bar{\rho}) dA$$

$$E_3 = \int_S g_3(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_4 = \int_S g_4(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_5 = \int_S g_1(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_6 = \int_S g_2(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_7 = \int_S g_3(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_8 = \int_S g_4(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_9 = \int_S \left[\bar{h}(S_1, S_2) \cdot \hat{t}_1 \right] \left[\hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) \right] + \left[\bar{h}(S_1, S_2) \cdot \hat{t}_2 \right] \left[\hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) \right] dA$$

where

$$\bar{h}(S_1, S_2) = \bar{f}(S_1, S_2) - \sum_{i=1}^4 g_i(S_1, S_2) \bar{E}_i$$

and where \hat{I} is the unit vector in the direction of the connected segment.

The integration is over the total area of the four patches and is performed by numerical quadrature. The number of increments in S_1 and S_2 used in integration is set by the variable NINT. When

WYRPAT (MOM)

WYRPAT is called, the parameters in AMPZIJ have the values for the first connected patch. During the integration, these parameters are set for each integration patch. At the end of WYRPAT they are reset to their original values.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	Surface area of source patch
AREASV	Saved surface area of source patch
CABI	Observation segment unit vector in the x direction
D	Perpendicular distance from the center point of the patch to the edge of patch
DA	Differential area for source patch
DS	Length of the side of the differential area
EI1 to EI9	Imaginary part of E1 to E9
ER1 to ER9	Real part of E1 to E9
ETI1,ETRI	Imaginary and real part of the projection of the electric field on the observation segment due to current in \hat{t}_1 direction on the source path
ETI2,ETR2	Imaginary and real part of the projection of the electric field on the observation segment due to current in \hat{t}_2 direction on the source path
EWPR,EWPI	An array to store ER1 to ER9 and EI1 to EI9
EXIT1,EYIT1,EZIT1	X,Y, and Z components of imaginary part of electric field due to current in \hat{t}_1 direction on source patch at the observation segment
EXIT2,EYIT2,EZIT2	X,Y, and Z components of imaginary part of electric field due to current in \hat{t}_2 direction on source patch at the observation segment
EXRT1,EYRT1,EZRT1	X,Y, and Z components of real part of electric field due to current in \hat{t}_1 direction on source patch at the observation segment

EXRT2,EVRT2,EZRT2	X,Y, and Z components of real part of electric field due to current in \hat{t}_2 direction on source path at the observation segment
FCOM	$1/(4\pi d)$
F1	$\bar{h}(S_1,S_2) \hat{t}_1$
F2	$\bar{h}(S_1,S_2) \cdot \hat{t}_2$
GCOM	$1/(4d^2)$
G1	$g_1(S_1,S_2)$
G2	$g_2(S_1,S_2)$
G3	$g_3(S_1,S_2)$
G4	$g_4(S_1,S_2)$
NINT	Number of intervals used for approximating the integrals for E_1 to E_g
SABI	Observation segment unit vector in the y direction
SALPI	Observation segment unit vector in the z direction
S1	S_1 , distance from the center of the four patches in the \hat{t}_1 direction
S2	S_2 , distance from the center of the four patches in the \hat{t}_2 direction
S2SAVE	Initial value of S_2
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XI,YI,ZI	X, Y, and Z coordinates of the observation segment
XIJ,YIJ,ZIJ	X,Y, and Z components of the vector separating observation segment and the patch source

XJ,YJ,ZJ Coordinates of first patch or differential patch sources

XJSAVE,YJSAVE,ZJSAVE The saved x,y, and z coordinates of the source patch

XSS,YSS,ZSS Initial location of the differential patches

5. I/O VARIABLES:

A. INPUT	LOCATION
AREA	/AMPZIJ/
CABI	/AMPZIJ/
EXIT1	/AMPZIJ/
EXIT2	/AMPZIJ/
EXRT1	/AMPZIJ/
EXRT2	/AMPZIJ/
EYIT1	/AMPZIJ/
EYIT2	/AMPZIJ/
EYRT1	/AMPZIJ/
EYRT2	/AMPZIJ/
EZIT1	/AMPZIJ/
EZIT2	/AMPZIJ/
EZRT1	/AMPZIJ/
EZRT2	/AMPZIJ/
SABI	/AMPZIJ/
SALPI	/AMPZIJ/
TWOPI	/AMPZIJ/
T1XJ	/AMPZIJ/
T1YJ	/AMPZIJ/

WYRPAT (MOM)

T1ZJ	/AMPZIJ/
T2XJ	/AMPZIJ/
T2YJ	/AMPZIJ/
T2ZJ	/AMPZIJ/
XI	/AMPZIJ/
XJ	/AMPZIJ/
YI	/AMPZIJ/
YJ	/AMPZIJ/
ZI	/AMPZIJ/
ZJ	/AMPZIJ/
B. OUTPUT	LOCATION
EWPI	F.P.
EWPR	F.P.

6. CALLING ROUTINE:

NTRPLU

7. CALLED ROUTINES:

ASSIGN

STATIN

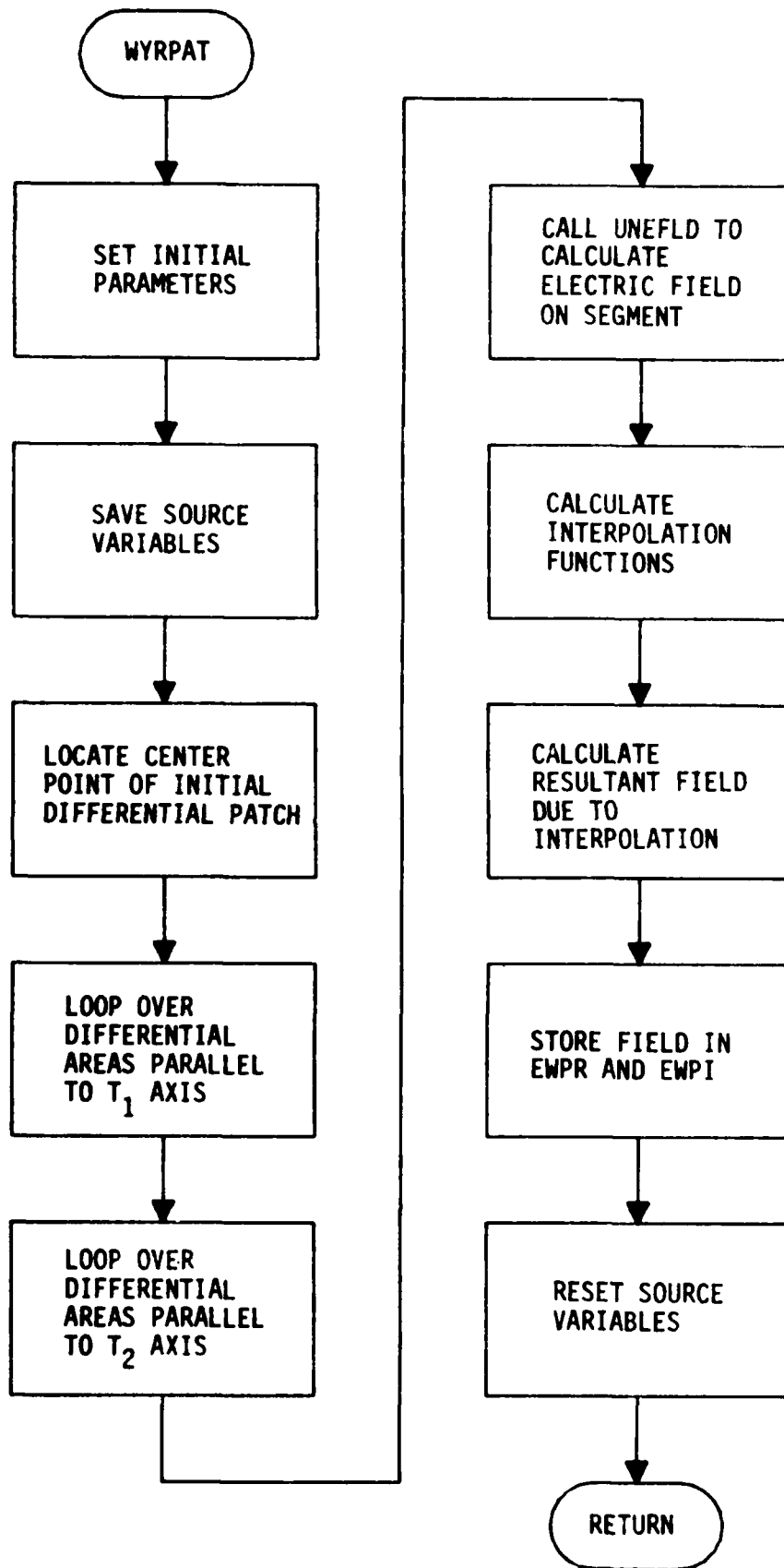
STATOT

UNFLD

WLKBC

WYRPAT

(MOM)



1. NAME: XYZFLD (GTD)
2. PURPOSE: To convert the theta and phi components of the electric field into x, y, z components for the electric or magnetic field. The fields from unique scattering interactions are accumulated in common block FLDXYZ.
3. METHOD: The theta and phi components of the electric field are sent as formal parameters to this subroutine. If magnetic fields were requested, they are defined as:

$$H_{\theta} = \frac{-1}{\eta} E_{\phi}$$

$$H_{\phi} = \frac{1}{\eta} E_{\theta}$$

in theta and phi components. Eta (η) is the intrinsic impedance of free space. The theta and phi components of the electric field are shown in figure 1.

Vector algebra is used to compute the x, y, z components of the field from its theta and phi components. The x, y, z components are shown in figure 2. These components are then accumulated in common block FLDXYZ.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AP	Phi component of either E- or H-field
AT	Theta component of either E- or H-field
D	Observation direction
EP	Phi component of E-field
ET	Theta component of E-field
FX	X component of field
FY	Y component of field
FZ	Z component of field
IEH	Indicator for field type requested. If IEH = 0, magnetic H-field wanted. If IEH = 1, the electric E-field was requested

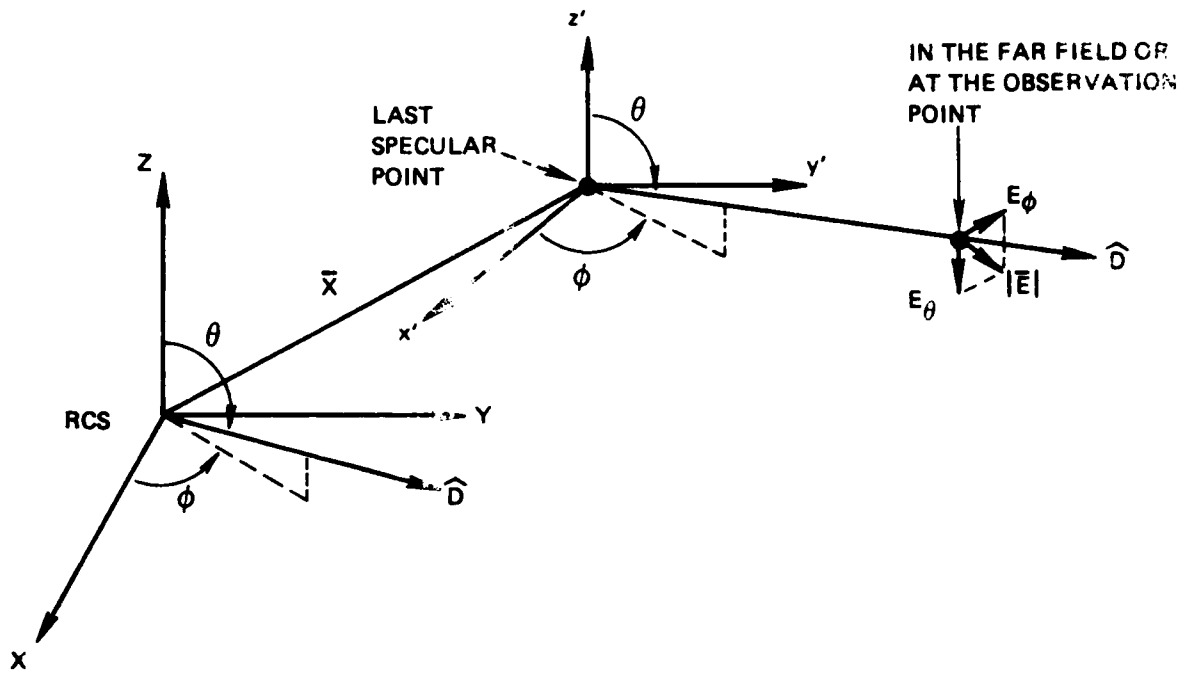


Figure 1. Theta and Phi Components of Electric Field

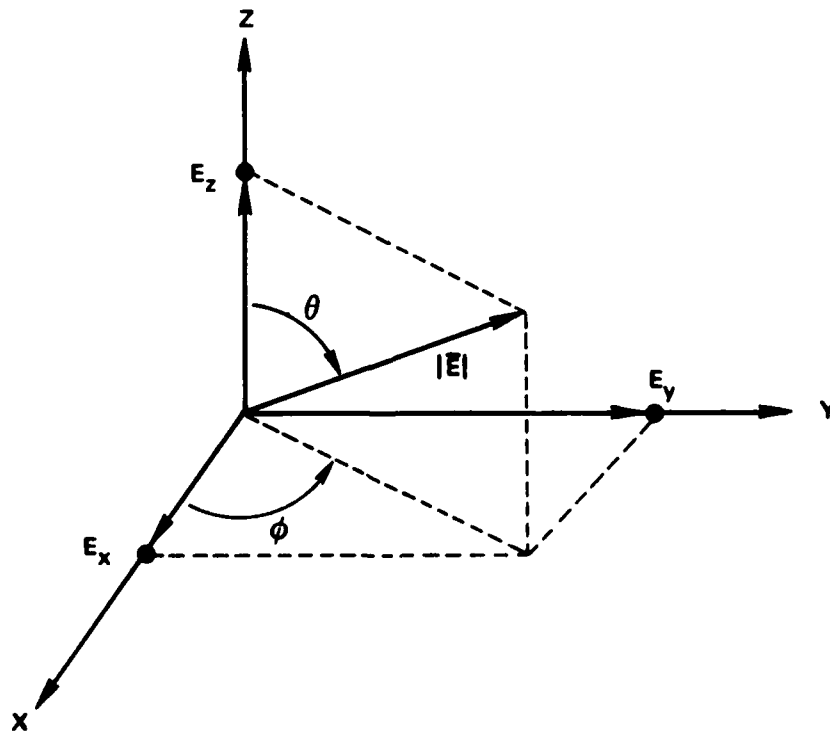


Figure 2. The X, Y, Z Components of the Field

XYZFLD (GTD)

P Phi angle of observation direction
T Theta angle of observation direction

5. I/O VARIABLES:

A. INPUT	LOCATION
D	F.P.
EP	F.P.
ET	F.P.
FX	/FLDXYZ/
FY	/FLDXYZ/
FZ	/FLDXYZ/
IEH	/EHFLD/
B. OUTPUT	LOCATION
FX	/FLDXYZ/
FY	/FLDXYZ/
FZ	/FLDXYZ/

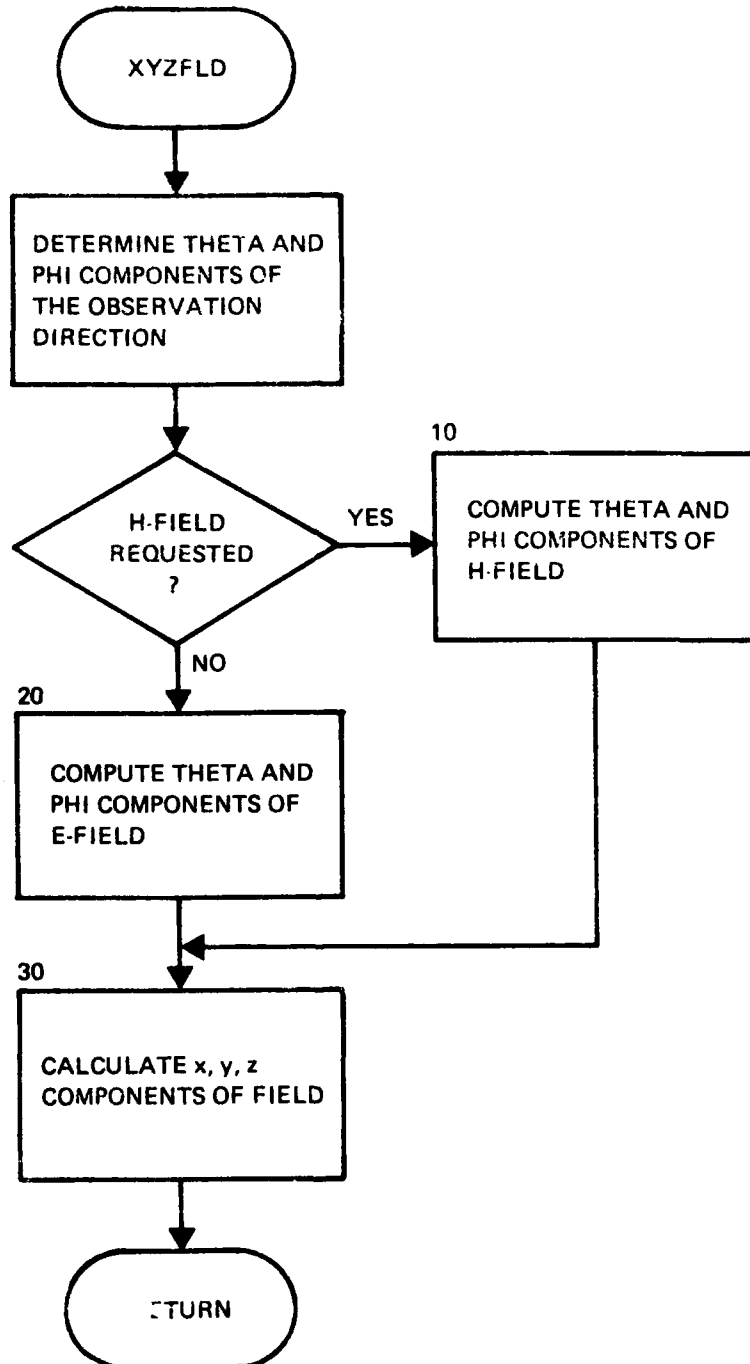
6. CALLING ROUTINES:

DIFPLT	REFCAP
DPLRCL	RPLDPL
DPLRPL	RPLRPL
ENDIF	RPLSCL
INCFLD	SCLRPL
RCLDPL	SCTCYL

7. CALLED ROUTINE:

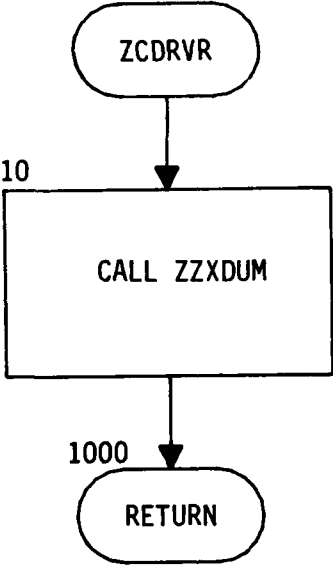
BTAN2

XYZFLD (GTD)



1. NAME: ZCDRVR (MOM)
2. PURPOSE: Routine to interface the user ZCODE subroutines with the GEMACS program.
3. METHOD: The subroutine number requested by the user is called by this routine.
4. INTERNAL VARIABLES:
NONE
5. I/O VARIABLES:
NONE
6. CALLING ROUTINE:
TSKXQT
7. CALLED ROUTINES:
ASSIGN
STATIN
STATOT
WLKBACK
ZZXDUM

ZCDRVR (MOM)



1. NAME: ZGDRV (GTD)
2. PURPOSE: To interface the GTD physics routines with the three physics drivers: EXCDRV, FLDDRV and ZIJDRV.
3. METHOD: ZGDRV loops over source and observation points and fills the matrix CM(J,I) with the field at observation location I due to the unit source at source position J. The fields which are calculated in ZGDRV are due to the GTD interactions set by interaction array KJ. Method of moments interactions are computed in the MOM module.

The definitions of source and observation points are related to the type of problem as specified by ITYPE:

<u>ITYPE</u>	<u>PROBLEM</u>	<u>SOURCE POINTS</u>	<u>OBSERVATION POINTS</u>
1.	Interaction matrix (ZGEN)	Wire segment tangential currents or patch surface current densities	Wire segments or patch surfaces
2.	Excitation vector (ESRC)	Three vector components of electric field source as specified on ESRC card	Wire segments or patch surfaces
3.	Scattered Field (EFIELD)	Wire segment tangential current or patch surface current densities	Field points as in EFIELD command
4.	Incident Field (EFIELD)	Three vector components of all electric field sources contributing to solution vector	Field points as specified in EFIELD command

It is not necessary that the interaction matrix stored in CM represent the entire physics problem, nor that it be square. The JSRC1, JSRC2, IOBS1, IOBS2 indices reference the source and observation point limits for this call to ZGDRV, with the interaction between JSRC1 source and IOBS1 observation point stored in CM(1,1), etc.

ZGDRV has two main loops, an outer loop over source points and an inner loop over observation points. For geometry object source or field points, data are obtained from /AMPZIJ/ after a call to SEJCON. Otherwise data are obtained from subroutine GETFLD.

The number of calls to GTDDRV is then computed for this source-observation point pair. Normally, there is only one call. However, if the source is a wire segment for which the source-observation

ZGTDRV (GTD)

separation distance is less than RAPPX wavelengths, three calls are made to GTDDRV, one each for pulse, sine, and cosine components of the wire segment basis function.

GTDDRV returns the rectangular components of the field vector at the observation point. These are transformed into the tangential components required at the observation point:

<u>OBSERVATION POINT TYPE</u>	<u>FIELD TYPE</u>	<u>TANGENTIAL COMPONENTS</u>
Wire Segment	\bar{E}	1 - Wire Axis
Patch	\bar{H}	2 - Patch surface currents
Far Field	\bar{E}	2 - E_θ, E_ϕ
Near Field	\bar{E}	3 - E_r, E_θ, E_ϕ depends on E_x, E_y, E_z coordinates E_r, E_θ, E_z on EFIELD card

The interaction matrix is filled in one of two ways. The tangential field values are added to the present contents of CM if there has been only one call to GTDDRV. This is called direct fill. If, however, there were three calls to GTDDRV, subroutines INTPLT and JNCSUM are called in order to allocate the tangential field among the three or more basis functions which span the source wire segment. Wire segments connected to ground or plates are treated by the method of images. Direct interaction between a wire segment connected to a patch and the patch to which it is connected is deferred to the MOM module.

Before returning, ZGTDRV makes an entry into the shadowing matrix for ITYPE = 1 if the observation point cannot be seen by the source point. The entry is a packed word. The source point SEGTBL segment number is placed in the left half of the word. The observation point SEGTBL segment number is placed in the right half of the word. The shadowing matrix is used by ZIJSET (MOM) so that direct MOM interactions will not be added into the interaction matrix for shadowed source-observation paths.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
CM	Complex interaction matrix filled by ZGTDRV
CURRENT	Complex source excitation value

ZGTDRV (GTD)

DT	Difference in time from the last call to TICHEK
EHR, EHI	Real and imaginary parts of tangential E- or H-field
EHT	Complex array of tangential field components
FP1, FP2, FP3	Coordinates (near field) or θ - ϕ direction (far field) of observation point
FREQ	Internal variable equal to source frequency in megahertz
FSIGN	Positive or negative, depending on whether tangential fields are to be added to or subtracted from CM
FT	Array of interpolated tangential fields (complex)
FX, FY, FZ	The x,y,z components of the field
I	Observation loop index
IBSCER	Flag indicating if an error occurred in GTDDRV
IEH	Field type indicator: 1 = E-field, 0 = H-field
IFDTYP	Flag indicating near field (1) or far field (0)
II	Segment number of geometry observation point
IOBS	Column of CM in which interaction is stored
IOBS1	Pointer to first observation point for this call to ZGTDRV
IOBS2	Pointer to last observation point for this call to ZGTDRV
ISC	Internal variable indicating source type for GTDDRV call
ISCTYP	Source type indicator

ZGTDRV (GTD)

ISDNFL	Flag indicating that source is shadowed from observation point
ISG	Flag indicating source (-1) or observation (1) segment for SEJCON call
ISHADW	Shadowing array
ISHWRD	Packed word of shadowed source-observation pair
ITYP	Internal variable indicating field source point for call to GETFLD
ITYPE	Interaction problem type
IX	Internal parameter equal to I
J	Source loop index
JCOL	Internal variable equal to NCOL
JJ	Segment number of geometry source point
JROW	Internal variable equal to NROW
JSRC	Row of CM in which interaction is stored
JSRC1	Pointer to first source point for this call to ZGTDRV
JSRC2	Pointer to last source point for this call to ZGTDRV
JX	Internal parameter equal to J
KJ	Array of GTD interactions specified for this call to ZGTDRV
KPR	Internal variable equal to IOBS for call to JNCSUM
LSRCFL	Flag indicating if source has changed since last call to GTDDRV
M	Index over tangential field loop
N	GTDDRV call number

ZGTDRV (GTD)

NAMGEO User-assigned name of geometry data set

NCALL Total number of GTDDRV calls to compute a source-observation pair interaction

NCOL Number of columns in CM

NROW Number of rows in CM

NSHAD Pointer to last entry in shadowing matrix

NTANF Number of tangent vectors for an observation point

NTANS Number of tangent vectors for a source point

R Source-observation point separation distance (in meters)

RAPPRX Minimum separation distance in wavelengths in order to take advantage of far-field approximation.

RSQ R*R

SP1,SP2 Source parameters passed to GTDDRV

TLEFT Execution time remaining

TNOW Current time

TSTART Execution time at beginning of ZGTDRV

TXF,TYF,TZF Array of observation target unit vectors

TXS,TYS,TZS Array of source target unit vectors

XNS,YNS,ZNS Patch normal unit vector

XS,YS,ZS Source point coordinates

5. I/O VARIABLES:

A. INPUT LOCATION

B /AMPZIJ/

CABI /AMPZIJ/

ZGDRV (GTD)

CABJ	/AMPZIJ/
CM	F.P.
DBGPRT	/ADEBUG/
FRQMHZ	/AMPZIJ/
IOBS1	F.P.
IOBS2	F.P.
IP217	/GEODAT/
ISHADW	F.P.
ISOFF	/ADEBUG/
ISON	/ADEBUG/
ITYPE	F.P.
JC01	/AMPZIJ/
JC02	/AMPZIJ/
JIX	/JUNCOM/
JIZ	/JUNCOM/
JOX	/JUNCOM/
JOZ	/JUNCOM/
JSRC1	F.P.
JSRC2	F.P.
KJ	F.P.
LUPRNT	/ADEBUG/
MAXCON	/JUNCOM/
NAMGEO	F.P.
NCIX	/JUNCOM/
NCIZ	/JUNCOM/

ZGTDRV (GTD)

NCOL	F.P.
NCOX	/JUNCOM/
NCOZ	/JUNCOM/
NROW	F.P.
NSHAD	F.P.
NWIRE	/SEGMNT/
S	/AMPZIJ/
SABI	/AMPZIJ/
SABJ	/AMPZIJ/
SALPI	/AMPZIJ/
SALPJ	/AMPZIJ/
TIMTGO	SYSFIL
T1XI,T1YI,T1ZI	/AMPZIJ/
T2XI,T2YI,T2ZI	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
WAVLGH	/AMPZIJ/
XI,YI,ZI	/AMPZIJ/
XJ,YJ,ZJ	/AMPZIJ/
ZERO	/ADEBUG/
B. OUTPUT	LOCATION
CM	F.P.
IERRF	/ADEBUG/
ISHADW	F.P.
NSHAD	F.P.

6. CALLING ROUTINES:

EXCDRV

FLDDRV

ZIJDRV

7. CALLED ROUTINES:

ASSIGN

ERROR

GETFLD

GTDDRV

INTPLT

JNCSUM

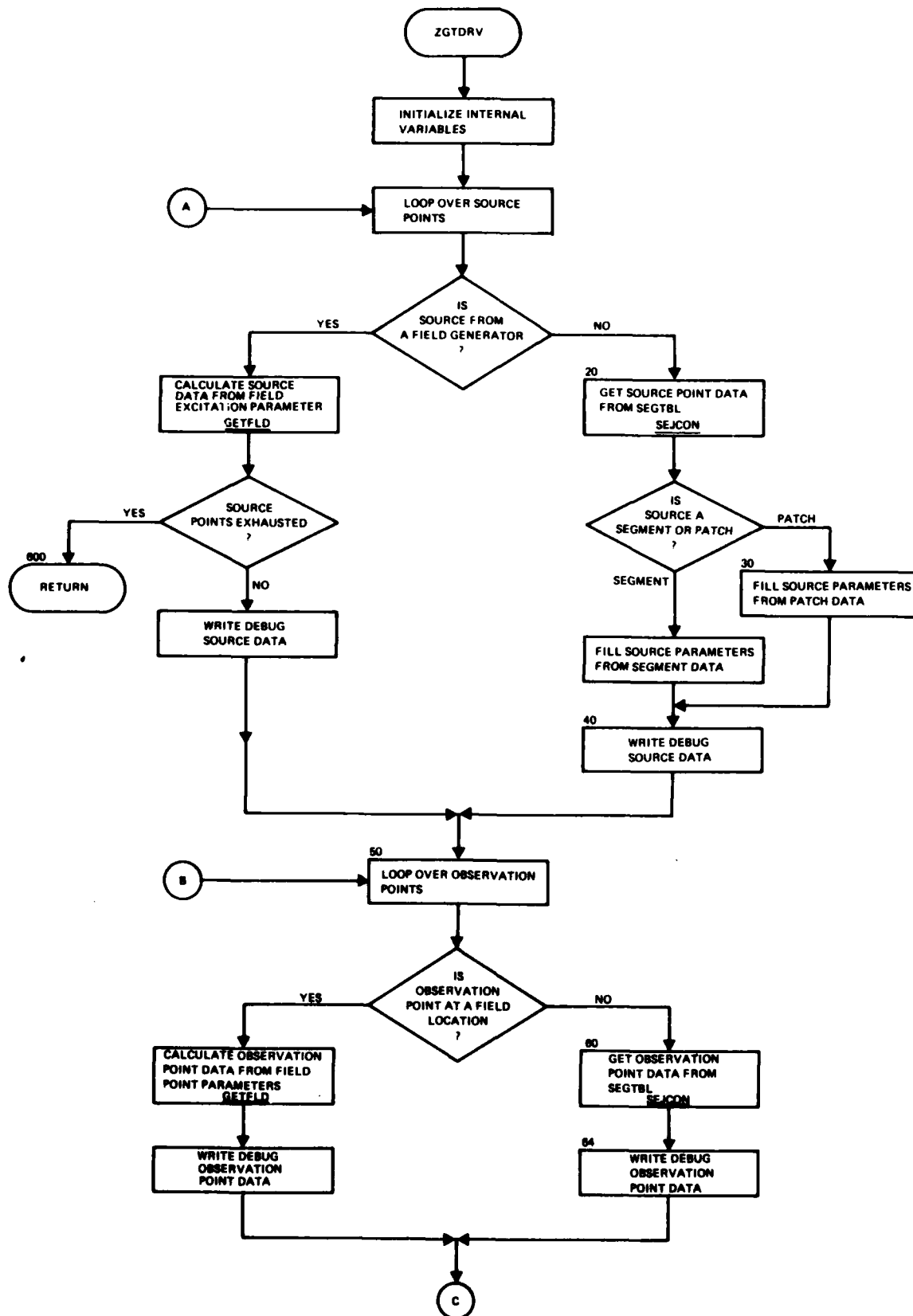
SEJCON

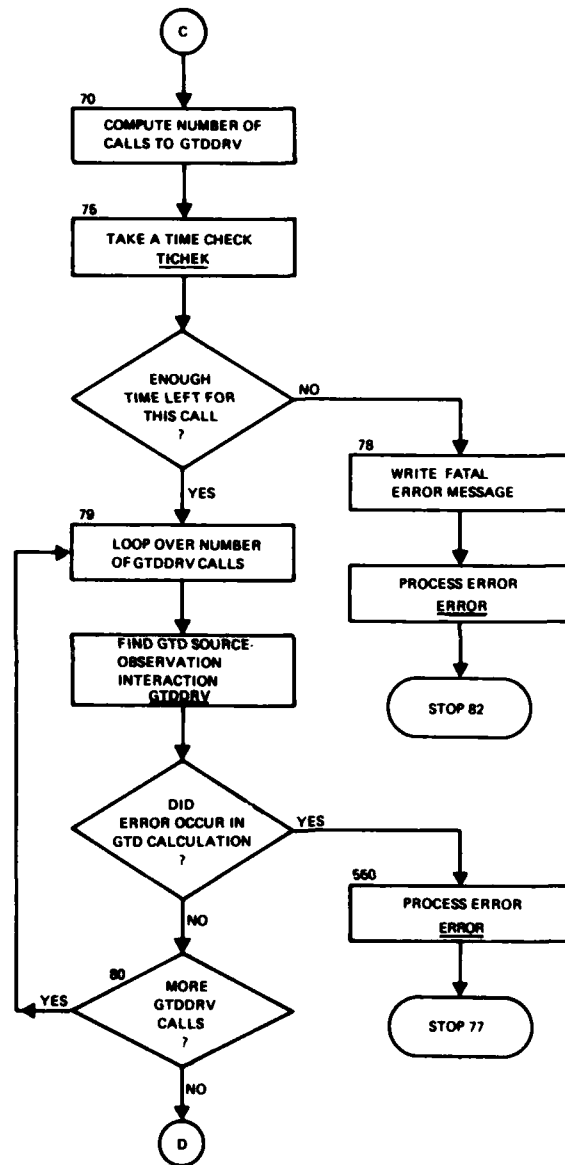
STATIN

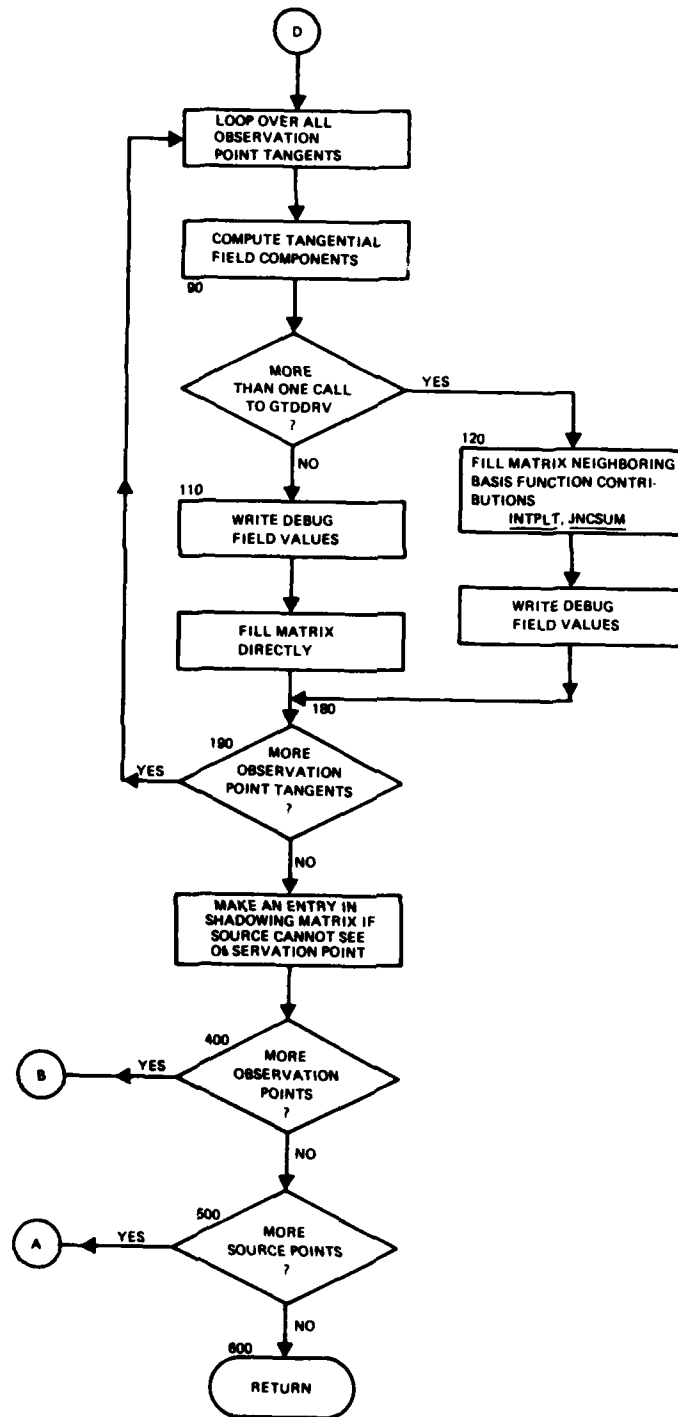
STATOT

TICHEK

WLKBACK







1. NAME: ZIJDRV (GTD)
2. PURPOSE: Interface the GTD physics routines with the GEMACS interaction matrix generator and task execution processor.
3. METHOD: The interface parameters for the interaction matrix generator are passed through the ARGCOM array FLTARG. The arguments are:
 - INTARG (1) Keyword name for sine + cosine + pulse expansion
 - INTARG (2) Location of geometry storage area in NDATBL
 - INTARG (3) Pointer to frequency (MHz)
 - INTARG (4) Pointer to conductivity
 - INTARG (5) Pointer to relative permittivity
 - INTARG (6) Index to load data in NDATBL
 - INTARG (7) Index to interaction matrix in NDATBL

All of the required input parameters for calling subroutine ZGDRV are computed and passed through the calling statement and common variables. If there is not enough room in the data set specified for the interaction matrix, the matrix is redefined on a peripheral file with the proper dimensions.

The results of ZIJDRV (GTD) depend on the physics interactions specified by the user on the SETINT command. If no GTD interactions were requested, ZIJDRV returns without generating a matrix. Otherwise ZIJDRV generates the GTD portion of the interaction matrix for the geometry specified in INTARG(2). If there are no MOM objects in the geometry, the routine prints a warning message and returns. If GTD interactions are requested, but there are no GTD objects in the geometry, a zero interaction matrix is created.

If MOM interactions were requested, a geometry shadowing matrix is created, consisting of segment pairs packed into single words. A segment pair is entered if the source segment cannot see the observation segment directly. ZIJDRV (MOM) uses this matrix to avoid calculating MOM interactions for shadowed pairs. The interaction matrix is sorted prior to exit and contains no duplicate entries. Note that a patch is represented by its segment number, not its interaction matrix row number.

The calculation of GTD interactions with a ground plane are not allowed. The conductivity and permittivity parameters are checked, and if they are not equal to NOPCOD an error message is generated and execution terminated.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
EPSR	Relative dielectric constant of ground plane
I	Loop index over number of basis functions and columns of interaction matrix in TEMP
I1	First column of interaction matrix in TEMP
IBASIS	Pointer to basis function pointer in KWBASE
IBITS	Attribute word for interaction or shadowing matrix
ICOL2	Number of columns thus far computed for the interaction matrix
II	Pointer to last entry in interaction array
IJZLOC	Index to location of interaction matrix in NDATBL
IOBS1	First observation point number for this call to ZGTDRV
IOBS2	Last observation point number for this call to ZGTDRV
IPERF	A flag indicating a perfectly conducting ground plane
ISAVE	Saved value of ISHADW
ISHADW	Shadowing matrix
ISTART	First column of interaction matrix in call to ZGTDRV
ISTOP	Last column of interaction matrix in call to ZGTDRV
ITYPE	GTD interaction type
IYRLOC	Index to geometry data set in NDATBL
J	Loop index over number of columns of interaction matrix in TEMP

ZIJDRV (GTD)

K	Index over interaction matrix rows
KALL	Counter indicating the number of calls to ZGTDRV
KCOLS	Number of columns of interaction matrix which will fit into core
KJ	GTD interaction array
KSYMP	Image flag
KWBASE	Array of pointers to basis function keyword numbers
KWIDX	Keyword index of user-specified basis function
LOCGEO	Location of geometry data set index in INTARG
LOCZIJ	First word address of interaction matrix in TEMP
M	Inner loop index in shadowing matrix sort
N	Loop index over shadowing matrix entries
N1	N-1
NAMESH	Name of shadowing matrix
NAMEXP	Name of expansion function for wire currents
NAMEYR	User-assigned name of geometry data set
NAMEZ	User-assigned name of interaction matrix
NAMGEO	Pointer to default name of geometry data set in NCODES
NAMSHD	Right-most three characters of shadowing matrix = "SHD"
NAMYRS	Internal variable equal to NAMEYR
NAMZIJ	Pointer to default name of interaction matrix in NCODES

ZIJDRV (GTD)

NC	Number of interaction matrix columns to be generated in a call to ZGTDRV
NCOL	Number of interaction matrix columns to be zeroed
NCOLS	Actual number of columns in full interaction matrix
NDX	Pointer to basis function name in NCODES
NDXARG	Pointer to INTARG argument
NEED	Additional core needed
NELRW	Number of words per interaction matrix row
NELTTL	Total number of words for block of interaction matrix
NP	Hollerith name of expansion function
NPRSYM	Dimension of symmetry operator
NR	Hollerith name of geometry data set
NROWS	Number of basis functions used to expand solution
NROWX	Internal variable equal to NROWS
NS	Hollerith name of load vector
NSHADW	Number of entries in shadowing matrix
NSHAD1	Number of shadowing matrix entries minus 1
NSHIFT	Number of bits in three GEMACS format literal characters
NUMBAS	Number of basis functions implemented in MOM formulation
NY	Hollerith name of geometry data set with no MOM objects
NYRSYM	Variable indicating type and degree of symmetry

NZ Hollerith name of interaction matrix data set

RAPPRX Minimum distance in wavelengths for which a pulse basis function approximation can be used

SYMFLG Symmetry flag (logical)

5. I/O VARIABLES:

A. INPUT	LOCATION
CLITE	/AMPZIJ/
DBGPRT	/ADEBUG/
FLTARG	/ARGCOM/
INTARG	/ARGCOM/
IPASS	/ARGCOM/
IP217	/GEODAT/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
KBCPLX	/PARTAB/
KBORDR	/PARTAB/
KBREAL	/PARTAB/
KBSNGL	/PARTAB/
KBZIMP	/PARTAB/
KJGTD	/INTMAT/
KJINT	/INTMAT/
KJMOM	/INTMAT/
KOLCOL	/PARTAB/
KOLLNK	/PARTAB/
KOLNAM	/PARTAB/

ZIJDRV (GTD)

KWNAME	/PARTAB/
LSTSYS	/SYSFIL/
LUPRNT	/ADEBUG/
NAMSEG	/SEGMENT/
NBYTSZ	/ADEBUG/
NCODES	/PARTAB/
NDATBL	/PARTAB/
NPATCH	/SEGMENT/
NOPCOD	/ADEBUG/
NTEMPS	/TEMPO1/
NTFLPT	/ADEBUG/
NTSYMB	/ADEBUG/
NUMGTD	/GTDDAT/
NWIRE	/SEGMENT/
RSTART	/SYSFIL/
TWOPI	/AMPZIJ/
B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
EPSR	/AMPZIJ/
FRQMHZ	/AMPZIJ/
IERRF	/ADEBUG/
IPERF	/AMPZIJ/
KSYMP	/AMPZIJ/
LSTSYS	/SYSFIL/
NYRSYM	/SEGMENT/
TEMP	/TEMPO1/

ZIJDRV (GTD)

WAVLGH /AMPZIJ/

WAVNUM /AMPZIJ/

6. CALLING ROUTINE:

TSKXQT

7. CALLED ROUTINES:

ASSIGN

CONVRT

ERROR

GETARG

GETGEO

GETSYM

PRTKJ

PUTSYM

STATIN

STATOT

SYMDEF

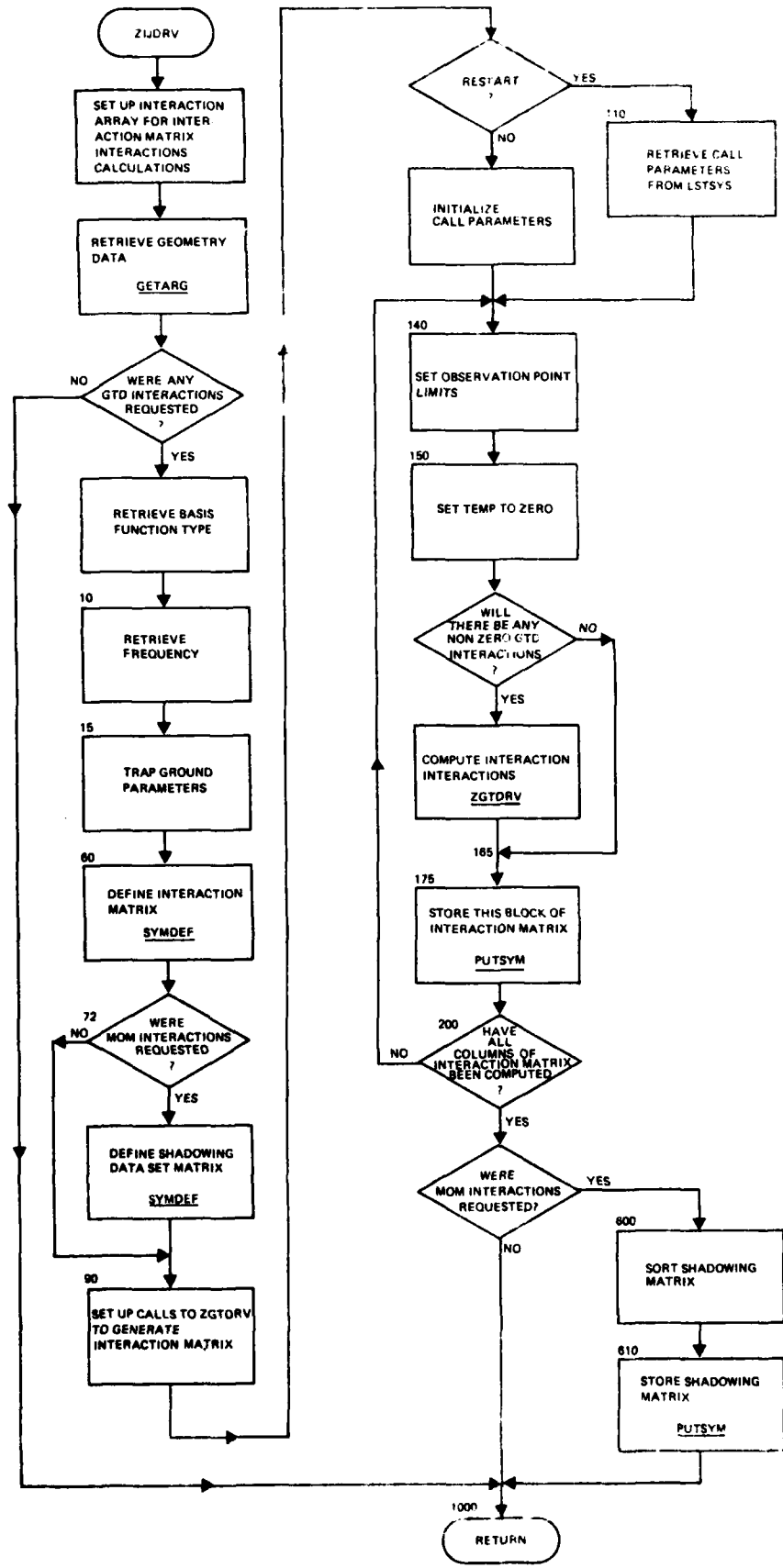
SYMUPD

SYSCHK

WLKBACK

ZGTDREV

ZIJDRV (GTD)



1. NAME: ZIJDRV (MOM)
2. PURPOSE: This subroutine interfaces the interaction matrix generator with the task execution processor.
3. METHOD: The interface parameters for the interaction matrix generator are passed through the ARGCOM array FLTARG. The arguments are:
 - INTARG (1) Keyword name for sine + cosine + pulse expansion
 - INTARG (2) Location of geometry storage area in NDATBL
 - INTARG (3) Pointer to frequency (MHz)
 - INTARG (4) Pointer to conductivity
 - INTARG (5) Pointer to relative permittivity
 - INTARG (6) Index to load data in NDATBL
 - INTARG (7) Index to interaction matrix in NDATBL

All of the required input parameters for calling subroutine ZIJSET are computed and passed through the calling statement and common variables. If there is not enough room in the data set specified for the interaction matrix, the matrix is redefined on a peripheral file with the proper dimensions.

The results of ZIJDRV (MOM) depend on the physics interactions specified by the user. If no MOM interactions are requested on the SETINT command no calculations are made and the routine returns control to TSKXQT. If MOM interactions are requested but there are no MOM objects in the geometry, a warning message is printed, and no calculations are made. If GTD interactions are requested along with MOM interactions ZIJDRV assumes that the interaction matrix contains the GTD interactions upon entry. ZIJDRV adds the MOM interactions to these values. If no GTD interactions are specified on the SETINT command, ZIJDRV creates a null interaction matrix to which the MOM interactions are added.

If GTD interactions have been specified, a geometry shadowing matrix generated by ZIJDRV is also retrieved and used to avoid calculating direct path MOM interactions between pairs of elements which are shadowed by GTD geometry objects. Otherwise, a null shadowing matrix is created by ZIJDRV, and all MOM interactions are computed.

Load impedances are added to the diagonal elements of the interaction matrix. These values are obtained from a load data set (previously calculated) and specified on the command (INTARG(6)).

It is possible to greatly speed up interaction matrix generation by taking symmetry into account. The following conditions are required:

- (1) No ground plane images
- (2) Symmetry present in geometry
- (3) Symmetry present in loads
- (4) No GTD interactions specified
- (5) No incident fields requested

The interaction matrix calculated by ZIJDRV is stored in a temporary data set. This matrix is premultiplied by the symmetry operator in subroutine SYMMOD and reblocked into proper format by REBLCK. REBLCK takes the symmetry format matrix and stores it in the user-assigned interaction matrix data set. The temporary file is released, and the temporary data set name removed from the symbol table.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
EPSR	Relative dielectric constant of ground plane
I	Loop index over number of basis functions and columns of interaction matrix in TEMP
I1	First column of interaction matrix in TEMP
IBITS	Attribute word for interaction or shadowing matrix
ICOL2	Number of columns thus far computed for the interaction matrix
IFILE	Logical unit of temporary interaction matrix
IJZLOC	Index to location of interaction matrix in NDATBL
ILOAD	Index to load data set in NDATBL
IPERF	A flag indicating a perfectly conducting ground plane

ISHADW	Shadowing matrix
IYRLOC	Index to geometry data set in NDATBL
J	Loop index over number of columns of interaction matrix in TEMP
JCOL2	Last column of interaction matrix in TEMP
K	Index over interaction matrix rows
KALL	Counter indicating the number of calls to ZIJSET
KCOLS	Number of columns of interaction matrix which will fit into core
KSYP	Image flag
KWBASE	Array of pointers to basis function keyword numbers
KWDX	Keyword index of user-specified basis function
L	Offset pointer used to zero TEMP
LOADSM	A flag indicating load symmetry
LOCCOL	First word address of a column of interaction matrix in TEMP
LOCDIA	First word address of a diagonal of interaction matrix in TEMP
LOCGEO	Location of geometry data set index in INTARG
LOCLOD	First word address of load vector in TEMP
LOCSCR	First word address of scratch area in TEMP
LOCSYM	First word address of symmetry operator in TEMP
LOCZIJ	First word address of interaction matrix in TEMP
N	Loop index over shadowing matrix entries
NAMESH	Name of shadowing matrix

ZIJDRV (MOM)

NAMEXP	Name of expansion function for wire currents
NAMEYR	User-assigned name of geometry data set
NAMEZ	User-assigned name of interaction matrix
NAMEZ1	Computer generated name of the temporary interaction matrix used when symmetry is used
NAMGEO	Pointer to default name of geometry data set in NCODES
NAMLDS	User-assigned name of load vector
NAMSHD	Right-most three characters of shadowing matrix = "SHD"
NAMYRS	Internal variable equal to NAMEYR
NAMZIJ	Pointer to default name of interaction matrix in NCODES
NC	Number of interaction matrix columns to be generated in a call to ZIJSET
NCL	Number of interaction matrix columns to be zeroed
NCOLS	Actual number of columns in interaction matrix taking into account symmetry
NDX	Pointer to basis function name in NCODES
NEED	Additional core needed
NN	Internal variable equal to I for subroutine call
NP	Hollerith name of expansion function
NPRSYM	Dimension of symmetry operator
NR	Hollerith name of geometry data set
NROWS	Number of basis functions used to expand solution
NRWX2	2*NROWS

NS	Hollerith name of load vector
NSH	Hollerith name of shadowing matrix
NSHAD	Number of entries in shadowing matrix
NSHIFT	Number of bits in three GEMACS format literal characters
NUMBAS	Number of basis functions implemented in MOM formulation
NY	Hollerith name of geometry data set with no MOM objects
NYRSYM	Variable indicating type and degree of symmetry
NZ	Hollerith name of interaction matrix data set
RAPPRX	Minimum distance in wavelengths for which a pulse basis function approximation can be used
RPPRX	RAPPRX in meters
SIGMA	Ground plane conductivity in mhos/m
SYMFLG	Symmetry flag (logical)
ZRATI	Normalized normal incidence impedance of ground plane (unitless)

$$\left[\left(\frac{\epsilon_1}{\epsilon_0} \right) \left(1 - \frac{j\sigma}{\omega\epsilon_1} \right) \right]^{-1/2}$$

5. I/Q VARIABLES:

A.	INPUT	LOCATION
	CHKWRT	/SYSFIL/
	CLITE	/AMPZIJ/
	DBGPRT	/ADEBUG/
	FJ	/AMPZIJ/

ZIJDRV (MOM)

FLTARG	/ARGCOM/
INTARG	/ARGCOM/
IPASS	/ARGCOM/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
KBCPLX	/PARTAB/
KBORDR	/PARTAB/
KBREAL	/PARTAB/
KBSNGL	/PARTAB/
KBZIMP	/PARTAB/
KJFLD	/INTMAT/
KJGTD	/INTMAT/
KJMOM	/INTMAT/
KOLCOL	/PARTAB/
KOLLNK	/PARTAB/
KOLLOC	/PARTAB/
KOLNAM	/PARTAB/
KWNAME	/PARTAB/
LSTSYS	/SYSFIL/
LUPRNT	/ADEBUG/
NAMSEG	/SEGMNT/
NBYTSZ	/ADEBUG/
NCODES	/PARTAB/
NDATBL	/PARTAB/
NOPCOD	/ADEBUG/

NPATCH	/SEGMENT/
NPDATA	/PARTAB/
NTEMPS	/TEMP01/
NTFLPT	/ADEBUG/
NTSYMB	/ADEBUG/
NUMSEG	/SEGMENT/
NWIRE	/SEGMENT/
RSTART	/SYSFIL/
TPCEPI	/AMPZIJ/
TWOPI	/AMPZIJ/
ZERO	/ADEBUG/
B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
EPSR	/AMPZIJ/
FRQMHZ	/AMPZIJ/
IERRF	/ADEBUG/
IPERF	/AMPZIJ/
KSYMP	/AMPZIJ/
LSTSYS	/SYSFIL/
NDATBL	/PARTAB/
NYRSYM	/SEGMENT/
SIGMA	/AMPZIJ/
TEMP	/TEMP01/
WAVLGH	/AMPZIJ/
WAVNUM	/AMPZIJ/
ZRATI	/AMPZIJ/

6. CALLING ROUTINE:

TSKXQT

7. CALLED ROUTINES:

ASSIGN

CLSFIL

CNTGND

CONVRT

ERROR

GETARG

GETGEO

GETSYM

LODSYM

PRTKJ

PUTSYM

REBLCK

SMATRX

STATIN

STATOT

SYMDEF

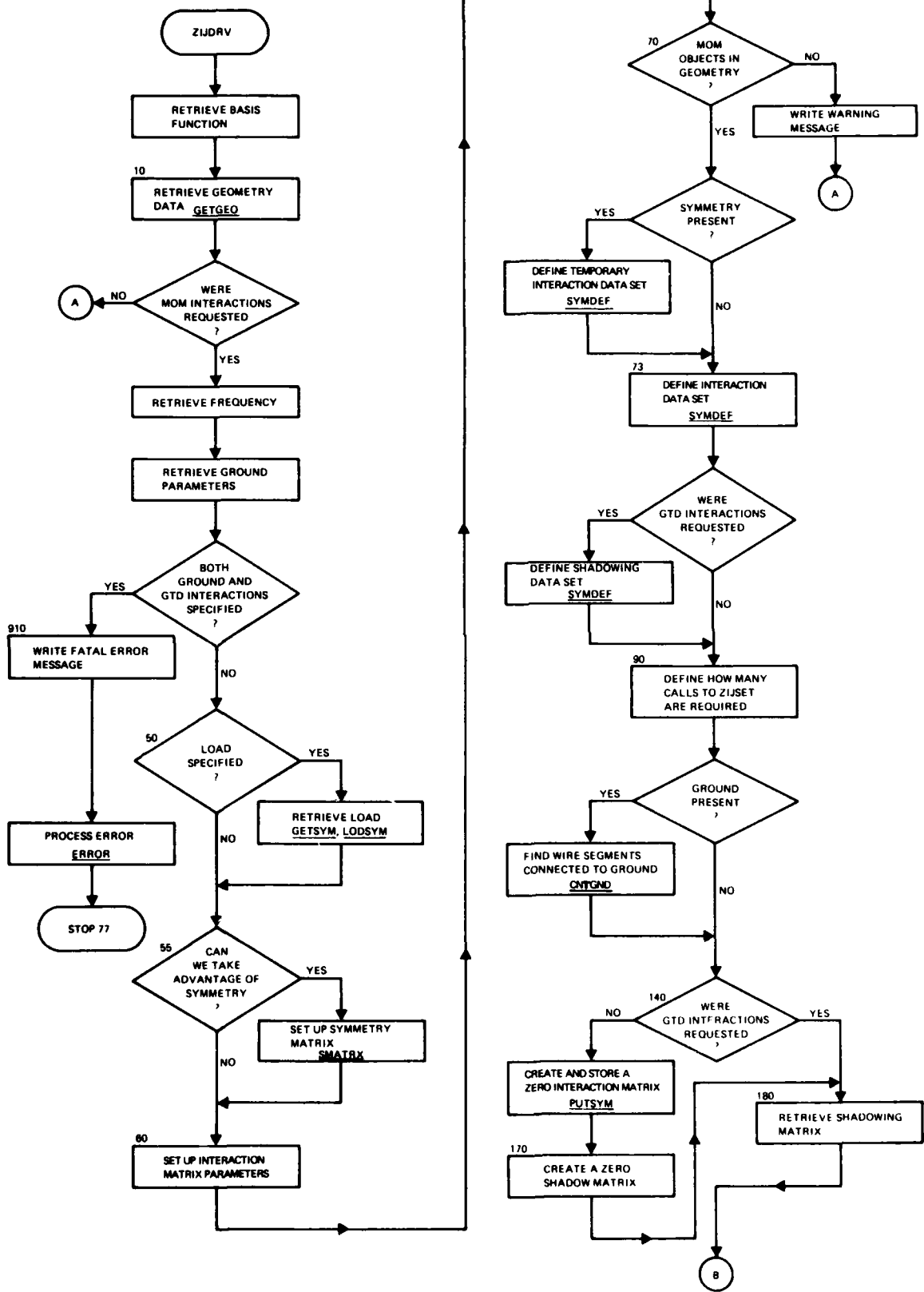
SYMMOD

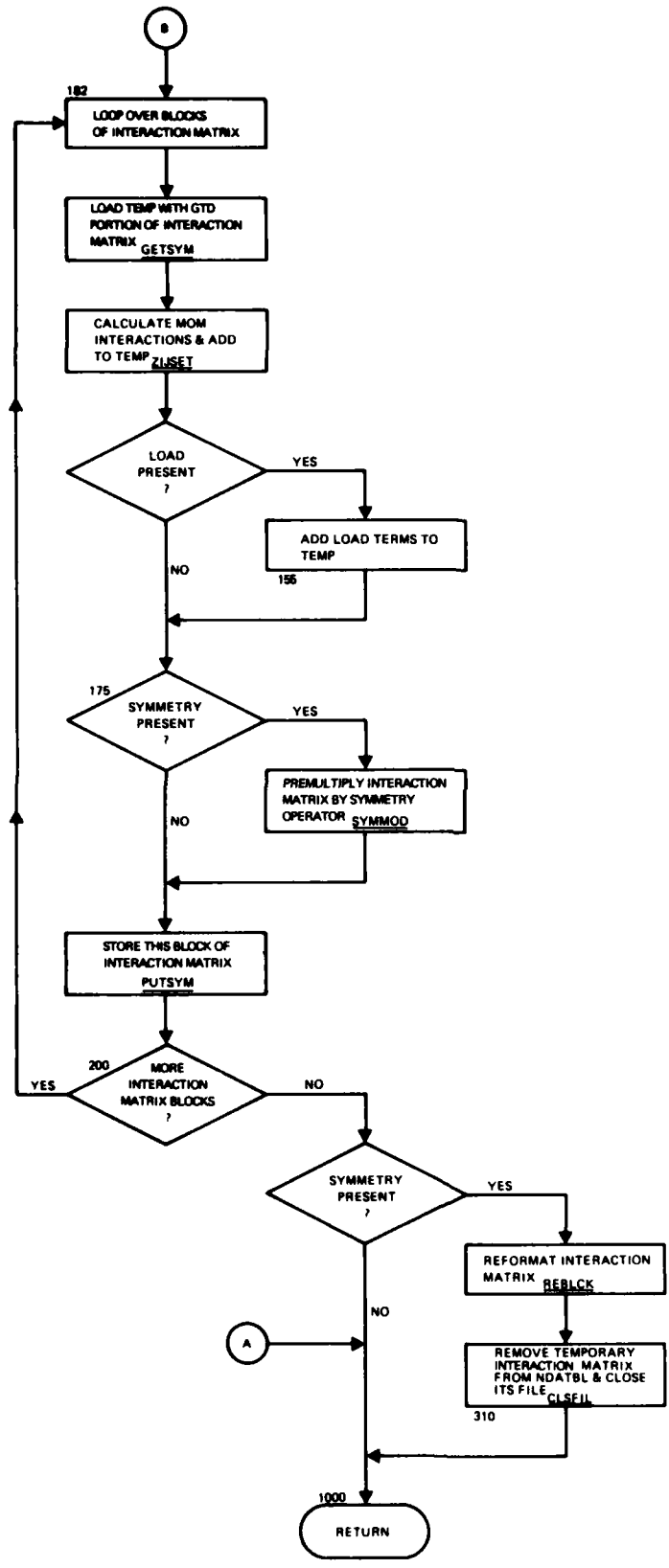
SYMUPD

SYSCHK

WLKBCK

ZIJSET





1. NAME: ZIJSET (MOM)
2. PURPOSE: Sets up the complex interaction matrix in the array CM for method of moments interactions.
3. METHOD: The matrix elements representing the tangential component of the electric field at the center of segment i due to a unit current at the center of segment j and zero current at the center of all other segments (G_{ij}) are stored in the array CM (array TEMP). When sinusoidal interpolation is used, the current basis function for segment j extends onto segments connected to either end of j although it is zero at the center of these segments. Rather than integrating the entire support of the basis function for segment j in one operation, the code integrates the extent of segment j only, while integrating three functions simultaneously: the center of the basis function for segment j , and the ends of the basis functions for the adjacent segments. The resulting matrix values represent contributions to G_{ij} and other elements G_{ik} , where k is any segment connected to segment j .

For a wire segment source point and a wire segment observation point, the electric field is computed by routine NTRPLT, which assumes that the source segment is located at the origin of a cylindrical coordinate system. Thus, the segments i and j have their centers at

$$\bar{r}_i = x_i \hat{x} + y_i \hat{y} + z_i \hat{z}$$

$$\bar{r}_j = x_j \hat{x} + y_j \hat{y} + z_j \hat{z}$$

and the unit vectors in the direction of the segments are

$$\hat{i} = i_x \hat{x} + i_y \hat{y} + i_z \hat{z}$$

$$\hat{j} = j_x \hat{x} + j_y \hat{y} + j_z \hat{z}$$

A cylindrical coordinate system (ρ' , ϕ' , z') is defined with origin at r_j and with $\hat{z}' = \hat{j}$. The cylindrical coordinates of segment i in this coordinate system are computed as:

$$\bar{z}_{ij} = [(\bar{r}_i - \bar{r}_j) \cdot \hat{j}] \hat{j}$$

$$\bar{\rho}_{ij} = (\bar{r}_i - \bar{r}_j) - \bar{z}_{ij}$$

The coordinates are supplied by routine SEJCON to routine NTRPLT, which returns the contribution to the matrix elements stored in array CM. If a ground plane is present, NTRPLT is also called for the image of segment j and returns the field of the image segment modified by the reflection coefficient as computed in ZIJSET. The field of the image of segment j is added to the same matrix elements as the field of segment j by routine JNCSUM.

When the source and observation points are separated by at least RKH meters, a dipole field approximation is used. The electric field at the observation point shown in figure 1 is given by:

$$\bar{E}_R(\bar{R}) = \frac{I_0 \Delta \eta}{2\pi R^2} \left[1 - \frac{j}{kR} \right] e^{-jkR} \cos \theta \hat{R}$$

$$\bar{E}_\theta(\bar{R}) = \frac{I_0 \Delta \eta}{4\pi R^2} \left[1 + j \left(kR - \frac{1}{kR} \right) \right] e^{-jkR} \sin \theta \hat{\theta}$$

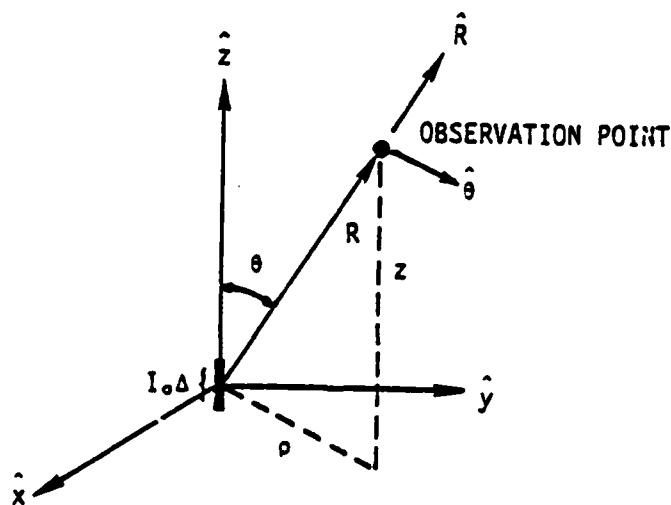


Figure 1. Geometry for Electric Field Calculation

The interaction terms are stored directly in the array CM.

For a wire source and a patch observation point, the magnetic field is evaluated by subroutine NTRPLT in a cylindrical coordinate system with the wire source at the origin. When a ground is present, NTRPLT is again called to calculate the field of the image of the source segment, which is multiplied by the reflection coefficient, and added to the direct field.

For a patch source, the tangential electric fields (wire observation point) and magnetic fields (patch observation point) are computed by a call to NTRPLU. When the patch source is connected to the observation segment, the ICON flag is nonzero. This will result in a subsequent call to WYRPAT. In this subroutine, a special interpolation function is used for currents on the patches, and the fields are calculated by a more careful integration. The interaction at a patch observation point accounts for two columns in the CM array. This is due to the two unit currents \hat{t}_1 and \hat{t}_2 . When the source and observation patches coincide, a contribution of $\pm 1/2$ from the second term of equation 57 and the negative of equation 58 of the Engineering Manual are added to the CM array. If a ground plane is present, the field due to the patch image is computed. The matrix contribution of the image is added to the same matrix element as the source patch.

In all cases, when GTD interactions have been requested the shadowing matrix ISHADW is checked for source-observation path visibility. If the path is obstructed by a GTD geometry object, the MOM interaction is omitted.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
A0	Cos θ for dipole approximation
A1	Sin θ for dipole approximation
C1	exp (-jkr)
CABI	Unit vector of observation segment in x direction
CABJ	Unit vector of source segment in x direction
CM	Complex array for storing interaction matrix
CTH	Cosine of angle between the normal to ground and the reflecting ray from segment j to i

ZIJSET (MOM)

CURDIP	Magnitude of current used in dipole approximation
DIJ	Dot product of source and observation segment unit tangent vectors
DIK	Wire length from center of segment j to center of following segment for interpolation
DIL	Wire length from center of segment j to center of preceding segment for interpolation
DIR	Dot product of observation segment unit vector and source radius unit vector
DT	Difference in time from the last call by TICHEK
EP	The complex ρ component of electric field for the dipole approximation
EPI,EPR	The imaginary and real parts of ρ component of the electric field for the dipole approximation
ER	The complex radial component of the electric field for the dipole approximation
ET	The complex θ component of the electric field for the dipole approximation
ETA	$\sqrt{\mu/\epsilon} \cong 376.7272$ ohms
ETI,ETR	Array containing imaginary and real parts of the contributions to the matrix elements
EWPI,EWPR	Array containing imaginary and real parts of the contributions to the matrix elements of a wire connected to a patch source.
EZ	The complex z component of the electric field for the dipole approximation
EZI, EZR	The imaginary and real parts of the z component of the electric field for the dipole approximation

FJ	$\sqrt{-1}$
FSIGN	One for end 2 of segment connected to a surface, -1 for end 1 of segment connected to a surface
FZI	Variable set to zero in calling GNDREF when using cylindrical coordinate system
FZR	Variable set to zero in calling GNDREF when using cylindrical coordinate system
I	Global column counter, used separately for wires and for patches
IALT	Flag indicating that the wire observation point is connected to a source patch
IC01	Connection data for end 1 of observation segment
IC02	Connection data for end 2 of observation segment
ICON	A flag indicating wire connected to a patch
IERRF	Error flag
IJ	(i - j) for wires, odd/even flag for patches
IK	1 for wires, odd/even flag for patches
IP	DO loop index for actual source segment (=1) and if ground is present its image (=2)
IPATCH	A flag indicating a patch observation point
IPERF	Flag indicating a perfect ground
IPR	Local column counter
IPSEG	Index for observation segment with wire source
ISHADW	Array of packed words of observation-source segment numbers indicating the source-observation path is obstructed by a GTD geometry object

ZIJSET (MOM)

ISVP	Number of columns in interaction matrix for patch observation points already filled from previous calls to ZIJSET
ISVW	Number of columns of interaction matrix for wire observation points already filled from previous calls to ZIJSET
ITYP	Flag indicating whether this segment is a source segment (-1) or an observation segment (+1)
IWIRE	A flag indicating a wire source segment and that a local cylindrical coordinate system is used
J	DO loop variable determining row of CM being filled
J1, J2	Row numbers for matrix elements corresponding to the source current components 1 and 2
JBIA3	An integer to bias connection data to indicate a wire segment is connected to a patch
JCO1	Index of segment connected to end 1 of segment j
JCO2	Index of segment connected to end 2 of segment j
JPR	Shadow word for this source-observation pair
JS	An index pointing to location in segment table for a source segment
JSEG	Index for source segment
JSHAD	Pointer into the shadowing matrix
K	Local column counter for patch sources
K1, K2	Column number for matrix elements corresponding to components 1 and 2 of observation segment

ZIJSET (MOM)

KALL	A flag indicating number of times ZIJSET is called
KC	Saves NC for output
KONT	An index locating position in EWPR and EWPI arrays
KP	Saves IP for output
KPR	Saves IPR for output
KR	Saves NR for output
KSEG	Index for observation segment with patch source
KSYMP	Image flag
NC	Number of columns of CM in core
NCOL	Number of columns to be filled in present call
NPATCH	Total number of patches in segment table
NR	Number of rows in CM in core
NROW	Number of rows to be filled in present call
NSHAD	Number of words in shadowing array
NWIRE	Total number of wire segments in segment table
PX	X component of unit vector normal to plane of incidence of ray from segment i to j that reflects from ground plane
PY	Y component of vector described under PX
R	RMAG
R2	R^2
REFH	The reflection coefficient for polarization normal to the plane of incidence
REFV	The reflection coefficient for polarization in the plane of incidence

ZIJSET (MOM)

RFL	Multiplier to change geometry of actual segment to geometry of image
RH	ρ_{ij}
RHOX,RHOY,RHOZ	X,Y, and Z components of $\bar{\rho}_{ij}/\rho_{ij}$
RKH	Separation distance in meters for elementary dipole interaction ($= 1\lambda$)
RKH1	kR
RKH1IN	1/RKH1
RMAG	$ \bar{r}_i - \bar{r}_j $
S	Source segment length
SABI	Unit vector of the observation segment in the y direction
SABJ	Unit vector of source segment in the y direction
SALPI	Unit vector of the observation segment in the z direction
SALPJ	Unit vector of the source segment in the z direction
SALPR	Reflected unit vector of the source segment in the z direction
SETAC1	$\Delta\eta \exp(-jkr)$
T1ZJ, T2ZJ	The reflected z components of the unit vectors \hat{t}_1 and \hat{t}_2 , respectively
TLEFT	Time left
TNOW	Current time
TPIRSQ	$2\pi R^2$
TSTART	Time of previous call to TICHEK
XI,YI,ZI	X,Y, and Z location of observation point
XIJ,YIJ,ZIJ	$(x_i - x_j); (y_i - y_j); (z_i - z_j)$

ZIJSET (MOM)

XJ,YJ,ZJ X,Y, and Z location of source point

XYMAG Magnitude of projection of $(\bar{r}_i - \bar{r}_j)$ on x-y plane

ZP z_{ij} coordinate in cylindrical coordinate system

ZRATI $\left[\left(\frac{\epsilon_1}{\epsilon_0} \right) \left(1 - \frac{\sigma_j}{\omega \epsilon_1} \right) \right]^{-\frac{1}{2}}$

Normalized complex ground plane impedance

ZRSIN Quantity used in calculating ground reflection coefficients

5. I/O VARIABLES:

A.	INPUT	LOCATION
	CABI	/AMPZIJ/
	CABJ	/AMPZIJ/
	DIK	/AMPZIJ/
	DIL	/AMPZIJ/
	ETA	/AMPZIJ/
	IC01	/AMPZIJ/
	IC02	/AMPZIJ/
	IP217	/GEODAT/
	IPERF	/AMPZIJ/
	ISHADW	F.P.
	ISOFF	/ADEBUG/
	ISON	/ADEBUG/
	JBIAS3	/SEGMNT/
	JC01	/SEGMNT/

ZIJSET (MOM)

JCO2	/SEGMNT/
JIX	/JUNCOM/
JIZ	/JUNCOM/
JOX	/JUNCOM/
JOZ	/JUNCOM/
KALL	F.P.
KSYMP	/AMPZIJ/
LSTSYS	/SYSFIL/
LUPRMT	/ADEBUG/
MAXCON	/JUNCOM/
NAMSEG	/SEGMNT/
NCIX	/JUNCOM/
NCIZ	/JUNCOM/
NCOL	F.P.
NCOX	/JUNCOM/
NCOZ	/JUNCOM/
NPATCH	/SEGMNT/
NROW	F.P.
NSHAD	F.P.
NWIRE	/SEGMNT/
NYRSYM	/SEGMNT/
RKH	F.P.
RSTART	/SYSFIL/
S	/AMPZIJ/
SABI	/AMPZIJ/

ZIJSET (MOM)

SABJ	/AMPZIJ/
SALPI	/AMPZIJ/
SALPJ	/AMPZIJ/
SALPR	/AMPZIJ/
TIMTGO	/SYSFIL/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XI	/AMPZIJ/
XJ	/AMPZIJ/
YI	/AMPZIJ/
YJ	/AMPZIJ/
ZERO	/ADEBUG/
ZI	/AMPZIJ/
ZJ	/AMPZIJ/
ZRATI	/AMPZIJ/
B. OUTPUT	LOCATION
CM	F.P.
FJ	/AMPZIJ/
IERRF	/ADEBUG/
LSTSYS	/SYSFIL/
PX	/AMPZIJ/
PY	/AMPZIJ/
REFH	/AMPZIJ/
REFV	/AMPZIJ/
RHOX	/AMPZIJ/

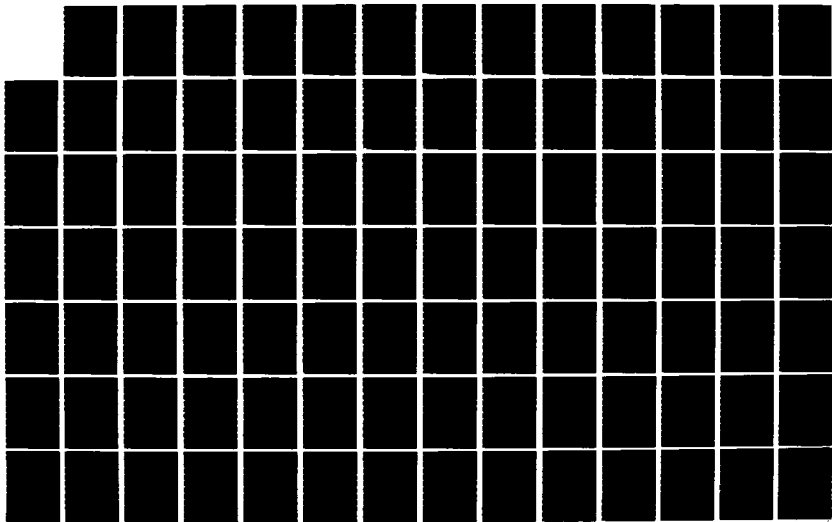
AD-A137 518

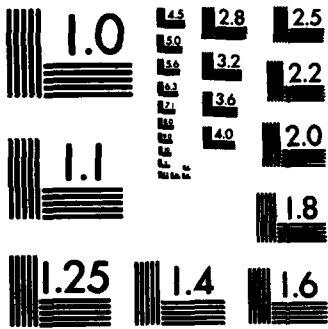
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4
RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14

2/6

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ZIJSET (MOM)

RHOY	/AMPZIJ/
RHOZ	/AMPZIJ/
RSTART	/SYSFIL/
SALPR	/AMPZIJ/
T1ZJ	/AMPZIJ/
T2ZJ	/AMPZIJ/

6. CALLING ROUTINE:

ZIJDRV

7. CALLED ROUTINES:

ASSIGN

CONVRT

ERROR

GNDREF

JNCSUM

NTRPLT

NTRPLU

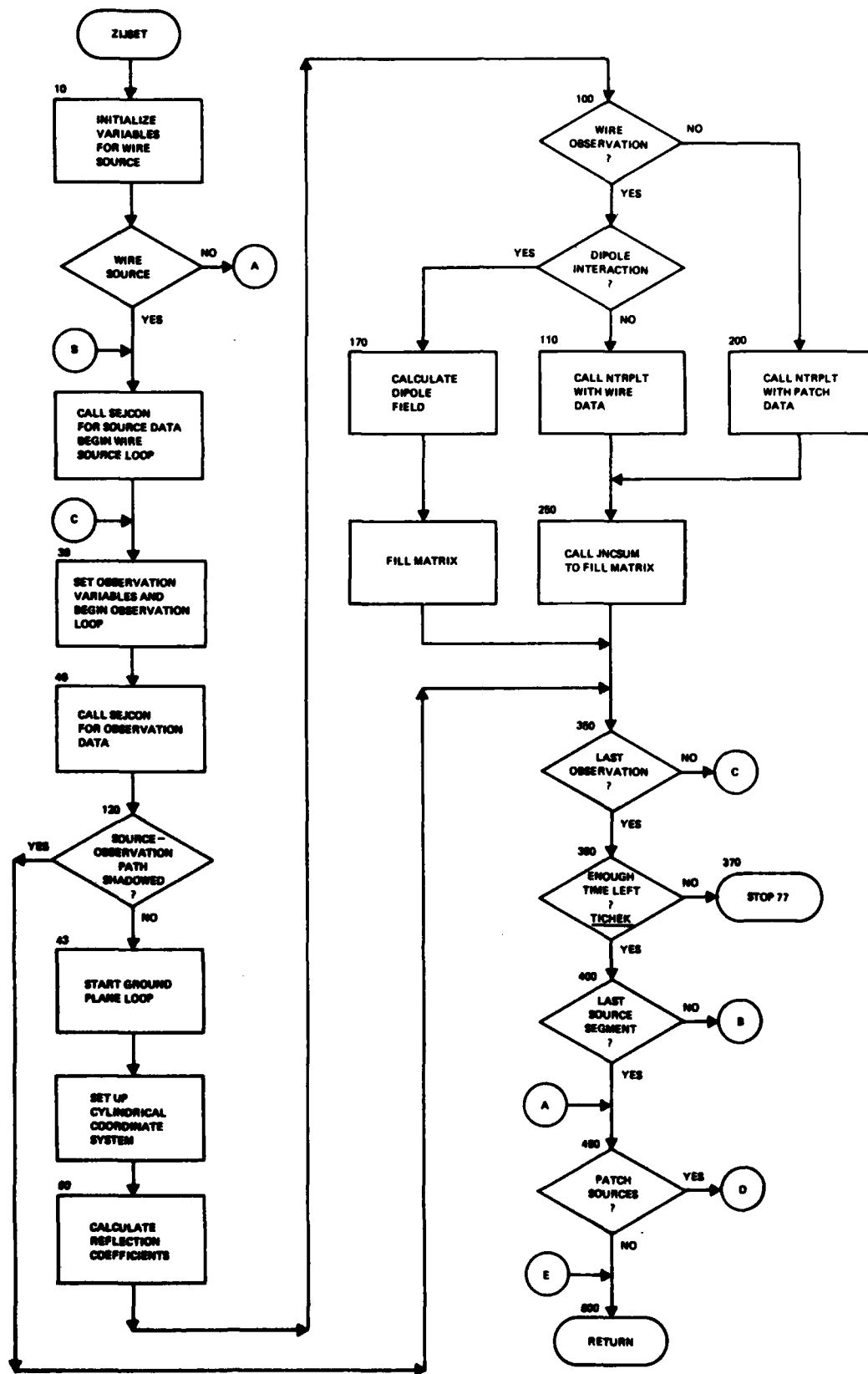
SEJCON

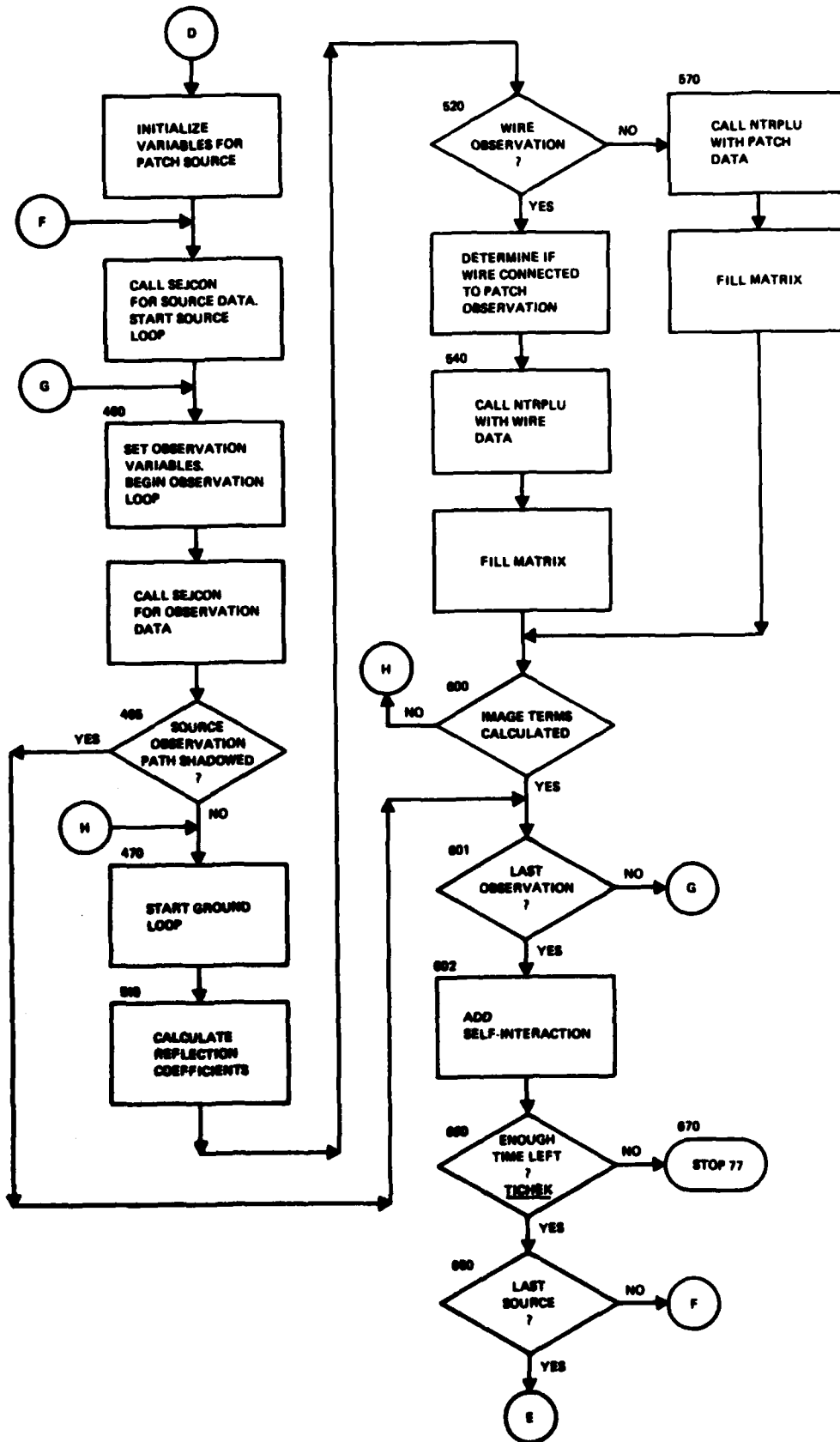
STATIN

STATOT

TICHEK

WLKBACK





1. NAME: ZINT (MOM)
2. PURPOSE: To compute the internal impedance of a circular wire with finite conductivity.
3. METHOD: The internal impedance per unit length of a circular wire is given by

$$z = \frac{j}{b} \sqrt{\frac{f\mu}{2\pi\sigma}} \left[\frac{\text{Ber}(q) + j\text{Bei}(q)}{\text{Ber}'(q) + j\text{Bei}'(q)} \right]$$

where

$$q = b\sqrt{2\pi f\mu\sigma}$$

σ = wire conductivity

μ = permeability of free space

b = wire radius

f = frequency

Ber, Bei = Kelvin functions

The term that modifies the diagonal matrix element G_{ij} in the interaction matrix is the total impedance of segment i divided by Δ_i/λ where Δ_i = segment length. Thus, if G_{ij} is the diagonal matrix element without loading, the new element is

$$G_{ij} - Z\Delta_i/(\Delta_i/\lambda) = G_{ij} - Z\lambda$$

Normalized to wavelength, this term is

$$z_i = Z\lambda = \frac{j}{(b/\lambda)} \sqrt{\frac{c\mu}{2\pi(\sigma\lambda)}} \left[\frac{\text{Ber}(q) + j\text{Bei}(q)}{\text{Ber}'(q) + j\text{Bei}'(q)} \right]$$

where

$$q = (b/\lambda) \sqrt{2\pi c\mu(\sigma\lambda)}$$

c = velocity of light

The Kelvin functions and derivatives of Kelvin functions are computed from their polynomial approximations (see reference A).

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
BEI	$Be_i(q)$ or $Be_i'(q)$
BER	$Be_r(q)$ or $Be_r'(q)$
BR1	$Be_r(q) + jBe_i(q)$ or $[Be_r(q) + jBe_i(q)] / [Be_r'(q) + Be_i'(q)]$
BR2	$Be_r'(q) + jBe_i'(q)$
CMOTP	$c\mu / (2\pi)$
CN	$(1 + j) / \sqrt{2}$
D	Function argument
F	$f(d)$ (see reference A)
FJ	j
G	$g(D)$ (see reference A)
PH	$\phi(X)$, $D = 8/X$ (see reference A)
PI	π
POT	$\pi/2$
ROLAM	b/λ
S	$(X/8)^4$
SIGL	$\sigma\lambda$
TH	$\theta(X)$, (see reference A)
TP	2π
TPCMU	$2\pi c\mu$, $c =$ velocity of light
X	q
Y	$(X/8)^2$
ZINT	Z_1

CONSTANTS:

1.5707963 = $\pi/2$

3.141592654 = π

6.283185308 = 2π

60. = $c\mu/2\pi$

2.368705E+3 = $2\pi c\mu$

(0., 1.) = j

(.70710678, .70710678) = $(1 + j)/\sqrt{2}$

(.70710678, -.70710678) = limit for $q \rightarrow \infty$ of $[\text{Ber}(q) + j\text{Bei}(q)] / [\text{Ber}'(q) + j\text{Bei}'(q)]$

Other constants are factors in the polynomial approximations.

5. I/O VARIABLES:

A.	INPUT	LOCATION
	ROLAM	F.P.
	SIGL	F.P.
B.	OUTPUT	LOCATION
	ZINT	FUNCTION

6. CALLING ROUTINE:

LODRV

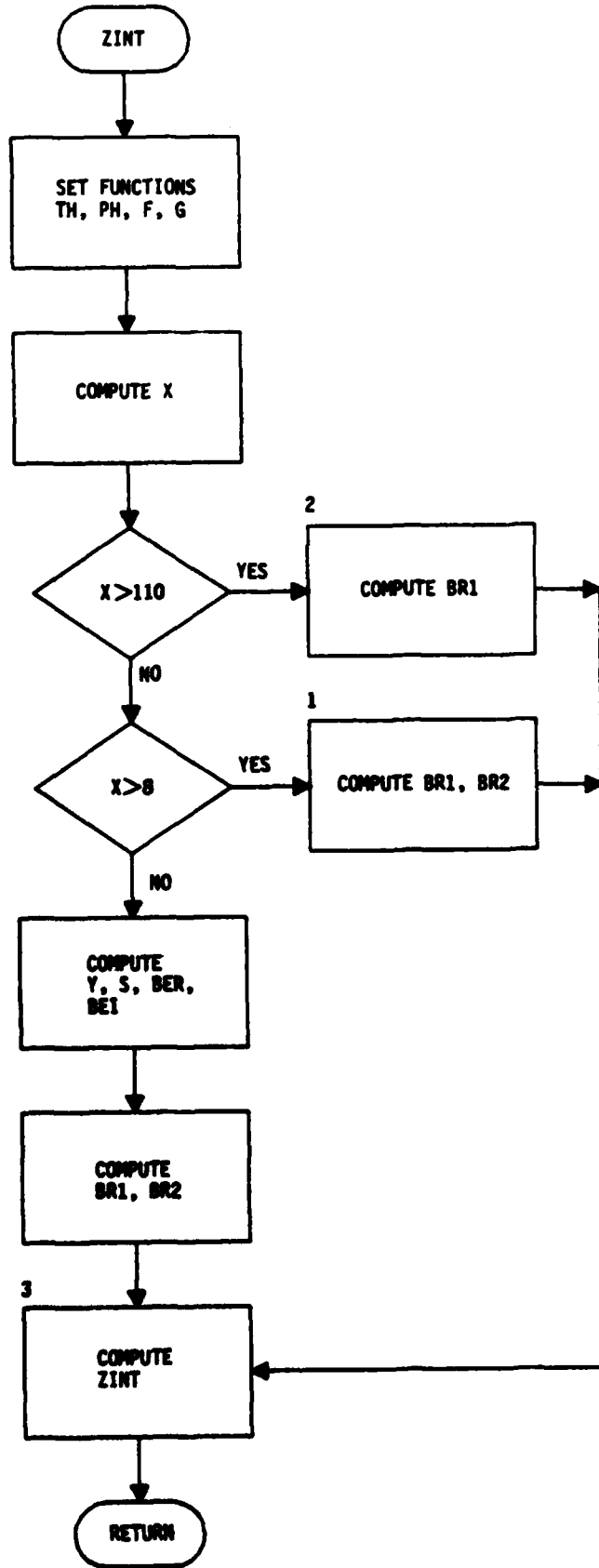
7. CALLED ROUTINES:

NONE

8. REFERENCE:

- A. Handbook of Mathematical Functions, M. Abramowitz, editor, National Bureau of Standards Applied Mathematics, Series 55, 1964, p. 384.

ZINT (MOM)



1. NAME: ZZXDUM (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Dummy subroutine called to provide a program path through or around either nonexistent or undesired subroutines that may occur in the course of execution of a particular task.
3. METHOD: The subroutine name and arguments are transferred from the common INTARG array to the IWORDS array for printing. Printing will occur only if the DEBUG option is turned on for the print command (DBGPRT).

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
NAME	Left-justified alphameric name of subroutine for which ZZXDUM is being substituted

5. I/O VARIABLES:

A. INPUT	LOCATION
FLTARG	/ARGCOM/
INTARG	/ARGCOM/
LUPRNT	/ADEBUG/
NAME	F.P.
NUMARG	/ARGCOM/

B. OUTPUT
NONE

6. CALLING ROUTINES*:

DMPDRV (1,2,3,4)
EXCDRV (3)
TSKXQT (1,3)
ZCDVRV (3)

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

ZZXDUM (GTD, INPUT, MOM, OUTPUT)

7. CALLED ROUTINES:

ASSIGN

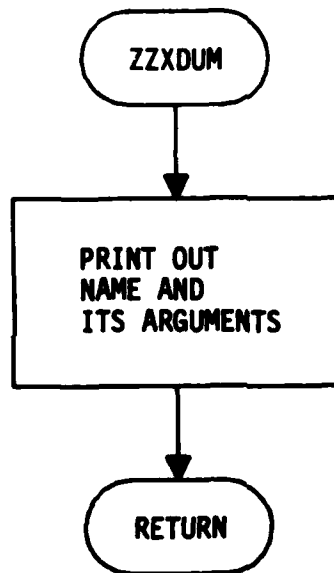
STATIN

STATOT

WLKBACK

ZZXDUM

(GTD, INPUT, MOM, OUTPUT)



D. SYMBOL CROSS REFERENCE INDEX

1. GTD Module

I N D E X

***** SUPER INDEX *****

SYMBOL	ROUTINES IN WHICH THE SYMBOL IS USED								
A	TANG	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL	RFDFPT	RFDFIN	
	REFCYL	RCLRPL	RCLDPL	RADCV	NAND9	GTDDRV	GEOMPC	FJNT	
	FRNELS	FKY	FKARG	FCT	ENDIF	DZCOEF	DQG32	DPLRCL	
	DPI	DICOEF	DFRFP	DFPTCL	CYLINT	CAPINT			
AA	TANG	GTDDRV							
ABS	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	ROMBNT	
	RFPTCL	RFDFPT	REFCYL	REFBP	RCLRPL	QFUN	PUTKWV	POLYRT	
	PLAIN	PFUN	GTDDRV	GETGEO	GEOMPC	GEOMC	GEOM	FLDDRV	
	FKY	FKARG	FFCT	FCT	EXCDRV	ESPARM	ENDIF	DZCOEF	
	DPLRPL	DPI	DIFPLT	DICOEF	DFRFP	DFPTWD	DFPTCL	CNVST	
	BTAN2	BABS							
ACOS	XYZFLD	RPLDPL	RCLRPL	NFD	GTDDRV	ENDIF	DPLRPL	DIFPLT	
ACS	DPI	DICOEF							
ACTHP	SOURCP	SOURCE							
ADDOPR	DMPDRV								
ADEBG	RWCOMS								
ADN	RPLDPL	DPLRPL	DIFPLT						
AE	ENDIF	DFPTCL	CAPINT						
AFN	RPLDPL	DPLRPL	DIFPLT						
AIMAG	ZGDRV	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	RFDFIN	REFPLA	
	REFCAP	RCLDPL	POLYRT	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT	
	BEXP	BABS							
AL	TANG								
ALOG	ROBNT								
ALOG10	BLOG10								
ALPHA	SCTCYL	SCLRPL	RPLSCL						
ALR	SCTCYL	SCLRPL	RPLSCL	FKARG					
ALRS	SCTCYL	SCLRPL	RPLSCL						
ALS	SCTCYL	SCLRPL	RPLSCL						
AN	RFDFPT								
ANAX1	SCTCYL	SCLRPL	RPLSCL						
ANC	QFUN	PFUN							
ANIN1	SCTCYL	SCLRPL	RPLSCL						
ANOD	SOURCE	FRNELS	BEXP						
AMPZJ	RWCOMS								
AN	SCLRPL	RCLRPL	PLAIN	IMAGE	GEOMC	GEOM	DPLRPL	CAPINT	
ANG	DPI	DICOEF							
ANI	GEOM								
ANN	GEOM								
ANP	GEOM								
ANR	SCLRPL	RCLRPL							
ANS	FKARG								
ANUMK	SEJCON	INTPLT							
ANUML	SEJCON	INTPLT							
AP	XYZFLD	DZCOEF							
AQ	QFUN	PFUN							
AREA	ZGDRV	SEJCON							
ARG	BEXP								

PREVIOUS PAGE
IS BLANK

GTD Module

INDEX

***** SUPER INDEX *****

ARGCM	-	RWCOMS							
ARGI	-	BEXP							
ARGII	-	BEXP							
ARGR	-	BEXP							
AS	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
ASSIGN	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTR	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
AT	-	XYZFLD							
ATAN2	-	ESPARM	BTAN2						
AXCL	-	GTDDRV							
AYCL	-	GTDDRV							
AZCL	-	GTDDRV							
A1	-	SCLRPL	RCLRPL	DPLRPL					
A11	-	ROTATE							
A12	-	ROTATE							
A13	-	ROTATE							
A2	-	SCLRPL	RCLRPL	FCT	DPLRPL				
A21	-	ROTATE							
A22	-	ROTATE							
A23	-	ROTATE							
A3	-	SCLRPL	RCLRPL	DPLRPL					
A31	-	ROTATE							
A32	-	ROTATE							
A33	-	ROTATE							
B	-	ZGTDRV	TANG	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL
		RFDFPT	RFDFIN	REFCYL	RCLRPL	RCLDPL	RADCV	NANDB	GTDDRV
		GEOMPC	FUNI	FRNELS	FKARG	FCT	ENDIF	DQG32	DPLRCL
		DFRFPT	DFPTWD	DFPTCL	CYLINT	CAPINT			
BABS	-	POLVRT	DICOEF	DFPTCL					
BB	-	TANG	GTDDRV						
BCD	-	RFDFPT	RCLDPL	GEOMPC					
BD	-	GEOM	DPLRCL						
BDEL	-	DFPTWD							
BDHI	-	DFPTWD							
BDLOW	-	DFPTWD							
BET	-	TANG	DPI	DICOEF					
BETN	-	RPLDPL	DW	DPLRPL	DIFPLT				
BETP	-	RPLOPL	DW	DPLRPL	DIFPLT				
BEXP	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	QFUN	PFUN	INCFLD	FKY	FFCT
		ENDIF	DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	
BJ	-	SCTCYL	SCLRPL	RPLSCL					
BK	-	SOURCE	ROMBNT						
BM	-	CYLINT							

GTD Module

INDEX

***** SUPER INDEX *****

BO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
BOP	-	SOURCP	RPLDPL	RCLDPL	DPLRPL	DIFPLT	DIFPLT		
BOT	-	GEOM							
BOTL	-	DPI	DICOEF						
BPL	-	CYLINT							
BRD	-	RPLDPL	RFDFTP	DPLRPL	DIFPLT	DFPTWD			
BSD	-	DFRFTP							
BT	-	TANG							
BTANZ	-	XYZFLD	TANG	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	RFPTCL
		RFDFTP	RFDFIN	REFCYL	REFBP	RCLRPL	RCLDPL	PLAIN	NFD
		GTDDR	GEOMPC	GEOM	ENDIF	DPLRPL	DPLRCL	DIFPLT	DFPTWD
		CYLINT	CAPINT						
BTCN	-	GEOMPC	GEOM						
BTCP	-	GEOMPC	GEOM						
BTD	-	CYLINT							
BTDC	-	GEOMPC	DPLRCL						
BTI	-	RPLSCL	RPLRCL	RFPTCL	GEOMPC				
BTS	-	SCTCYL	SCLRPL	REFCYL					
BX	-	SCTCYL	SCLRPL	RCLRPL	GEOMC	CYLINT			
BY	-	SCTCYL	SCLRPL	RPLSCL					
BZ	-	SCTCYL	SCLRPL	RPLSCL					
BZ	-	FCT							
C	-	QFUN	POLYRT	PFUN	FRNELS	FKY	DG632	DPI	DMPDRV
		DICOEF	DFPTCL						
CA	-	RFDFIN							
CABI	-	ZGDRV	SEJCON						
CABJ	-	ZGDRV	SEJCON						
CABS	-	GTDDR	BABS						
CAPINT	-	REFCAP	GEOMC	CYLINT					
CAS	-	SCLRPL	GTDDR						
CBO	-	ENDIF							
CC	-	POLYRT	FRNELS	DFPTCL					
CCC	-	SCTCYL	SCLRPL	RPLSCL					
CCDK2	-	SOURCP							
CCIV	-	DFRFTP							
CCU	-	RFDFTP							
CCV	-	RFDFTP							
CC2	-	FLDDR							
CC3	-	FLDDR							
CDK2	-	SOURCP	SOURCE						
CEXP	-	BEXP							
CF	-	SCTCYL	SCLRPL	RPLSCL					
CFM	-	SCTCYL	SCLRPL	RPLSCL					
CFR	-	FFCT							
CFS	-	SCTCYL	SCLRPL	RPLSCL					
CHKPNT	-	ZIJDV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDR	ERROR	BLKDAT	ASSIGN	
CHKWRT	-	ZIJDV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL

GTD Module

I N D E X

***** SUPER INDEX *****

CI	-	MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CINT	-	FLDDRV							
CIUE	-	SOURCE							
CIV	-	DFRPT							
CIVE	-	DFRPT							
CJ	-	DFRPT							
CK	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	INCFLD	GTDDRV	ENDIF
CL	-	DZCOEF	BLDATA	BEXP					
CLITE	-	INTPLT							
CLOG	-	INTPLT							
CLSFIL	-	ZIJDRV	PUTKWV	EXCDRV	BLKDAT				
CM	-	DFPTCL							
CMAG	-	WRCHK	SYMDEF	STATFN	RWFILS	PUTSYM	OPNFIL	ERROR	DMPDRV
CMAX	-	ZGDRV	JNCSUM						
CMPLX	-	DMPDRV							
		POLYRT							
		SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RDFFIN
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	QFUN	POLYRT	PFUN
		JNCSUM	INCFLD	FKY	FFCT	ESPARM	ENDIF	DZCOEF	DPLRPL
		DPLRCL	DPI	DIFPLT	DICOEF	DFPTCL			
CMPLX1	-	DMPDRV							
CMPLX2	-	DMPDRV							
CNC	-	REFCAP	GTDDRV	GEOMC	ENDIF	DFPTCL	CAPINT		
CNDK2	-	SOURCP							
CNEW	-	POLYRT							
CNIN	-	GEOMPC							
CNIP	-	GEOMPC							
CNMW	-	POLYRT							
CNP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
CNSL10	-	WRCHK							
CNTST	-	ROMNT							
CO	-	NTGRAN							
COINC	-	SOURCE							
COM	-	DPI	DICOEF						
COMPLT	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRTUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CONSAV	-	SYSCHK							
CONJG	-	RDFIN	POLYRT	FKY	DFPTCL				
CONS	-	INTPLT							
CONST	-	SOURCP	SOURCE						
CONVRT	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	RWFILS	RESTR	PUTSYM	PUTKWV
		PRTKJ	POSTIP	GETSYM	GETKWV	GETGEO	GETARG	FNDREC	FLDDRV
		EXCDRV	DMPDRV						
COP1	-	DMPDRV							
COP2	-	DMPDRV							
CORN	-	RPLDPL	DPLRPL	DIFPLT					
COS	-	XYZFLD	TPNFLD	TANG	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLRCL	ROTATE	ROTATE	RFPYCL	RDFPPT	RDFIN	REFPLA
		REFCYL	REFBP	RCLRPL	RCLDPL	RADCY	NTGRAN	NAND3	INTPLT

GTD Module

INDEX

***** SUPER INDEX *****

	GTDDRV	GETFLD	GEOMPC	FUNI	FRNELS	FCT	ESPARM	ENDIF
	DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFPT	DFPTCL
	CYLINT	CAPINT						
COSETA -	ESPARM							
COSK -	INTPLT							
COSL -	INTPLT							
COSP -	ESPARM							
COST -	ESPARM							
COTA -	DICOEF							
COTB -	RDFDPT							
CP -	XYZFLD	ROTATE	PLAIN					
CPCS -	RDFDPT	DFRFPT						
CPDC -	GEOMPC	DFRFPT						
CPE -	ENDIF							
CPFRMB -	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK	SYSCHK
	SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	OPNFIL
	MAIN	GETSYM	GETKVV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CPH -	SOURCE	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
CPHI -	RPLRPL	RPLRCL	REFPLA					
CPHJ -	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
CPHO -	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
CPHP -	SOURCE	SOURCE						
CPHS -	SOURCE							
PI4 -	SOURCE	SCTCYL	SCLRPL	RPLSCL	INCFLD	GTDDRV	ENDIF	BLDATA
	BEXP							
CPO -	RDFDPT							
CPOP -	RDFDPT							
CPP -	RFPDPT							
CPS -	SCTCYL	RPLSCL	RPLRCL	RFPTCL	REFCYL	REFBP	GTDDRV	DPLRCL
	CYLINT							
CPS1 -	RPLRCL	REFCYL						
CPS2 -	RPLRCL	REFCYL						
CR -	FLDDRV							
CRK -	NTGRAN							
CRPV -	DFRFPT							
CRUR -	RDFDPT							
CRUV -	RDFDPT							
CRV -	RDFDPT							
CRVR -	RDFDPT							
CRVV -	RDFDPT							
CR1 -	SOURCE							
CR1R -	SOURCE							
CR1RR -	SOURCE							
CR2 -	SOURCE							
CR2R -	SOURCE							
CR2RR -	SOURCE							
CS -	ROTATE	FCT						
CSAS -	SCTCYL	SCLRPL	RPLSCL					
CSCA -	DPI							
CSCE -	DFRFPT							

GTD Module

I N D E X

***** SUPER INDEX *****

CSCR	-	DFRFPT							
CSP	-	DZCOEF							
CSORT	-	POLVRT	DZCOEF						
CST	-	SOURCE							
CSTM	-	RWCOMS							
CSV	-	RPLRCL	RFPCTCL	RFDFFT	RFDFFIN	REFCYL	RCLRPL	DFRFPT	
CS2	-	FCT							
CT	-	XYZFLD	ROTATE						
CTB	-	DFPTWD							
CTBP	-	RFDFFT							
CTBT	-	RFDFFT							
CTC	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	GTDDRV
		GEOMPC	ENDIF	DPLRCL	DFPTCL	CYLINT			
		RFDFFT	DFRFPT						
CTCS	-	ENDIF							
CTE	-	SOURCE	RPLDPL	DPLRPL	DIFPLT				
CTH	-	RCLDPL	DPLRCL						
CTHC	-	DPLRCL							
CTHD	-	RPLRPL	RPLRCL	REFPLA	REFCYL	ENDIF			
CTHI	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
CTHJ	-	RPLDPL	DPLRPL	DIFPLT					
CTHM	-	SOURCE	SOURCE	RPLDPL	DPLRPL	DIFPLT			
CTHP	-	SOURCE	SCTCYL	RPLSCL	RPLRCL	REFCYL	GTDDRV		
CTHS	-	RPLRCL	RCLRPL						
CTHW	-	RPLRCL	RCLRPL						
CTO	-	RFDFFT							
CTOP	-	RFDFFT							
CTS	-	REFBP							
CURRENT	-	ZGTDRV	GTDDRV	GETFLD					
CV	-	TANG	ENDIF	DFPTCL					
CVAL	-	CYAXIS	BLKDAT						
CVE	-	TANG	CYLINT	CAPINT					
CVXD	-	RCLDPL							
CVXMP	-	RCLDPL							
CVXMP1	-	RCLDPL							
CW	-	RPLRCL	REFCYL	RCLRPL	RCLDPL				
CX	-	CYAXIS	BLKDAT						
CXRUE	-	DFRFPT							
CXRUI	-	DFRFPT							
CXRVE	-	DFRFPT							
CXRVI	-	DFRFPT							
CXR1	-	RCLDPL							
CXR2	-	RCLDPL							
CYAXIS	-	GTDDRV							
CYLINT	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	RCLRPL	RCLDPL
		INCFLD	GTDDRV	GEOM	DPLRPL	DPLRCL	DIFPLT		
C1	-	FLDDRV							
C11	-	SCLRPL	RCLRPL	DPLRPL					
C11A	-	DPLRPL							
C12	-	SCLRPL	RCLRPL	DPLRPL					
C12A	-	DPLRPL							

GTD Module

I N D E X

***** SUPER INDEX *****

C2	-	FLDDRV							
C21	-	SCLRPL	RCLRPL	DPLRPL					
C21A	-	DPLRPL							
C22	-	SCLRPL	RCLRPL	DPLRPL					
C22A	-	DPLRPL							
C3	-	FLDDRV							
D	-	XYZFLD	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	PLAINT	NFD	INCFLD
		GTDDRV	FNELS	FLDDRV	EXCDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT
		DFRFT	DFPTWD	DFPTCL	CYLINT	CAPINT			
DATIM	-	SYSRTN							
DAX	-	RFDFT							
DAY	-	RFDFT							
DAZ	-	RFDFT							
DBGPRT	-	ZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYNUPT	SYMDEF	STRUP	STATOT	STATIN
		STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPTCL	RFDFT	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLVRT
		OPNFIL	NTGRAN	NOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWV	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DFRFT	CYAXIS	CONVRT	CLSFIL	BTANZ
		BLKDAT	ASSIGN						
DBGSAV	-	ZIJDRV							
DBI	-	PLAINT							
DBT	-	PLAINT							
DC	-	RFDFT	FLDDRV						
DCP	-	RFDFT							
DCT	-	RFDFT							
DD	-	RPLRCL	RFPTCL	REFCYL	RCLRPL	RCLDPL	DPLRCL	DFPTCL	
DDC	-	GEOMPC	DPLRCL	DFRFT					
DDC1	-	DFRFT							
DDC2	-	DFRFT							
DDV	-	RFDFT							
DDPV	-	RFDFT							
DDRV	-	RFDFT							
DDTV	-	RFDFT							
DDV	-	RFDFT							
DD1	-	RPLRCL	REFCYL	RCLRPL	DPLRCL	CYLINT			
DD2	-	RPLRCL	REFCYL	RCLRPL	DPLRCL	CYLINT			
DE	-	RFDFT	DFRFT						
DEEX	-	DFPTCL							
DEEY	-	DFPTCL							
DEEZ	-	DFPTCL							
DEL	-	RPLDPL	FFCT	DPLRPL	DIFPLT	DICOEF	DFPTCL		
DELL	-	DICOEF							
DELU	-	DICOEF							
DZM	-	DPI	DICOEF						

GTD Module

I N D E X

***** SUPER INDEX *****

DEN1	-	DFPTCL							
DEN2	-	DFPTCL							
DEN3	-	DFPTCL							
DEN5	-	DFPTCL							
DEPH	-	SCTCYL	SCLRPL	RPLSCL					
DET	-	RFDFT	RCLDPL	DPLRCL	DFRFT				
DETH	-	SCTCYL	SCLRPL	RPLSCL					
DFBT	-	RUCOMS							
DFPTCL	-	ENDIF							
DFPTWD	-	RPLDPL	RFDFT	DPLRPL	DIFPLT				
DFRFT	-	DPLRCL							
DGTORD	-	FLDDRV	ESPARM	BLKDAT					
DH	-	RPLDPL	RCLDPL	ENDIF	DZCOEF	DW	DPLRPL	DPLRCL	DIFPLT
DHIJ	-	RPLRPL							
DHIR	-	RPLDPL							
DHIS	-	RPLRPL	RPLRCL						
DHIT	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMC	GEOM
		ENDIF	DPLRPL	DPLRCL	DIFPLT	CYLINT	CAPINT		
DHIV	-	RPLSCL							
DHJT	-	SCLRPL	RCLRPL						
DHT	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	RCLRPL
		PLAINT	INCFLD	GTDDRV	DPLRPL	CAPINT			
DI	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	REFPLA	REFCYL	REFCAP
		RCLRPL	ENDIF						
DICOEF	-	RPLDPL	DW	DPLRPL	DIFPLT				
DIFPLT	-	GTDDRV							
DIJ	-	SCTCYL	SCLRPL	RPLSCL					
DIJXDJ	-	SCTCYL	SCLRPL	RPLSCL					
DIK	-	SEJCON	INTPLT						
DIL	-	SEJCON	INTPLT						
DIN	-	RPLDPL	DW						
DIP	-	RPLDPL	DW						
DIR	-	DICOEF							
DIT	-	SCTCYL	SCLRPL	RPLSCL					
DIVOPR	-	DMPDRV							
DIXDIJ	-	SCTCYL	SCLRPL	RPLSCL					
DJ	-	SYSRTN	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RCLRPL	DPLRPL	
DJT	-	SCTCYL	SCLRPL	RPLSCL					
DJ1	-	SCLRPL							
DJ2	-	SCLRPL							
DK2	-	SOURCP	SOURCE						
DM	-	DFPTCL	CYLINT						
DMAG	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL	DPLRPL			
DMPDRV	-	TSKXGT							
DN	-	REFCAP	REFBP	RADCY	PLAINT	HANDB	DPI	DICOEF	CAPINT
DNI	-	REFCAP							
DNS	-	DPI	DICOEF						
DOB	-	RFDFT							
DOM	-	RFDFT							

GTD Module

INDEX

***** SUPER INDEX *****

DOT	-	GEOM							
DOTP	-	RPLRCL	RFPTCL	RFDFTP	REFCYL	RCLRPL	RCLDPL	DPLRCL	DFRFTP
DOTQ1	-	DFPTCL							
DOTQ2	-	DFPTCL							
DOV	-	RFDFTP							
DOX	-	RFDFTP							
DOY	-	RFDFTP							
DOZ	-	RFDFTP							
DP	-	TPNFLD	SCLRPL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	GTDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
DPH	-	RPLDPL	RCLDPL	DW	DPLRPL	DPLRCL	DIFPLT		
DPI	-	DW							
DPIR	-	DPI							
DPL	-	CYLINT							
DPLRCL	-	GTDRV							
DPLRPL	-	GTDRV							
DPN	-	DW							
DPP	-	DW							
DPR	-	TANG	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFPTCL	BLDATA
DPS	-	RPLOPL	RCLDPL	DW	DPLRPL	DPLRCL	DIFPLT		
DPSR	-	RFPTCL	RFDFTP	DFRFTP					
DPTNFW	-	GEOMPC							
DPX	-	RFPTCL							
DPY	-	RFPTCL							
DQ632	-	SCTCYL	SCLRPL	RPLSCL	FKARG				
DR	-	RFPTCL	RFDFTP	REFBP	DFRFTP				
DRM	-	RFDFTP							
DRP	-	RFDFTP	DFRFTP						
DRT	-	RFDFTP	DFRFTP						
DRU	-	RFDFTP							
DRV	-	RFDFTP							
DS	-	RPLDPL	RFPTCL	RCLDPL	GEOMPC	GEOMC	GEOM	ENDIF	DZCOEF
		DW	DPLRPL	DPLRCL	DIFPLT				
DSM	-	GEOMC	GEOM						
DSSX	-	DFPTCL							
DSSY	-	DFPTCL							
DSSZ	-	DFPTCL							
DT	-	ZGDRV	WRTCHK	TSKXQT	TPNFLD	TICHEK	TANG	SYSCHK	SCTCYL
		SCLRPL	RPLSCL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	GTDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
DTCN	-	GEOMPC							
DTCP	-	GEOMPC							
DTD	-	CYLINT							
DTDC	-	GEOMPC	DPLRCL						
DTI	-	RPLSCL	RPLRCL	GEOMPC					
DTS	-	SCTCYL	SCLRPL	REFCYL	RCLRPL	GEOMC	CYLINT		
DTSR	-	RFDFTP	DFRFTP						
DU	-	RFDFTP	DFRFTP						
DUMMY	-	ZGDRV							
DV	-	RPLOPL	RFPTCL	RFDFTP	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFRFTP

GTD Module

I N D E X

***** SUPER INDEX *****

		DFPTWD	DFPTCL				
DVB	-	RFPTCL					
DVT	-	RFPTCL					
DV1	-	TANG					
DV2	-	TANG					
DW	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	
DX	-	SOURCE	RFPTCL				
DXF	-	RFDFTP					
DXP	-	RFDFTP					
DXY	-	RPLRCL	REFCYL	RCLRPL	CYLINT		
DY	-	RFPTCL	POLYRT				
DYP	-	RFDFTP					
DZ	-	ROMBNT					
DZCOEF	-	ENDIF					
DZOT	-	ROMBNT					
DZP	-	RFDFTP					
D1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL		
D12	-	REFCYL	CYLINT				
D2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL		
D4	-	DFPTCL					
E	-	SCLRPL	GETFLD	FLDRV	EXCDRV	ESPARM	
EA	-	SOURCP					
EB	-	SOURCP					
ECBI	-	RPLDPL	DPLRPL	DIFPLT			
ECBR	-	RPLDPL	DPLRPL	DIFPLT			
ECC	-	EXCDRV	ESPARM				
ECPH	-	RPLDPL	DPLRPL	DIFPLT			
ECPHC	-	RPLDPL	DIFPLT				
ECTH	-	RPLDPL	DPLRPL	DIFPLT			
ECTHC	-	RPLDPL	DIFPLT				
EDCPH	-	GTDRV					
EDCRPP	-	GTDRV					
EDCRPT	-	GTDRV					
EDCTH	-	GTDRV					
EDDPH	-	GTDRV					
EDDTH	-	GTDRV					
EDPCPH	-	GTDRV					
EDPCTH	-	GTDRV					
EDPH	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT
EDPHA	-	ENDIF					
EDPHB	-	ENDIF					
EOPL	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	
EDPP	-	ENDIF					
EDPPH	-	GTDRV					
EDPR	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT
EDPTH	-	GTDRV					
EDRCP	-	GTDRV					
EDRCT	-	GTDRV					
EDRPP	-	GTDRV					
EDRPT	-	GTDRV					

GTD Module

INDEX

***** SUPER INDEX *****

EDTH	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT		
EDTHA	-	ENDIF							
EDTHB	-	ENDIF							
EEX	-	DFPTCL							
EEY	-	DFPTCL							
EEZ	-	DFPTCL							
EF	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
EFA	-	SOURCP							
EFB	-	SOURCP							
EFC	-	DPLRPL							
EG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
EGC	-	DPLRPL							
EMI	-	ZGDRV							
EMP	-	SCTCYL	SCLRPL	RPLSCL					
EMPH	-	SCTCYL	REFCYL						
EMPHI	-	RPLSCL	RPLRCL						
EMPHJ	-	SCLRPL	RCLRPL						
ENR	-	ZGDRV							
ENT	-	ZGDRV	SCTCYL	SCLRPL	RPLSCL				
ENTH	-	SCTCYL	REFCYL						
ENTHI	-	RPLSCL	RPLRCL						
ENTHJ	-	SCLRPL	RCLRPL						
EIPH	-	SCTCYL	SCLRPL	RPLSCL	GTDRV				
EIPL	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
EIPLP	-	SOURCP	RPLDPL	DPLRPL	DIFPLT				
EIPP	-	RPLRCL	REFCYL	RCLRPL	ENDIF				
EIPR	-	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL
		DIFPLT							
EIPRP	-	SOURCP	RPLDPL	DPLRPL	DIFPLT				
EITN	-	SCTCYL	SCLRPL	RPLSCL	GTDRV				
EIX	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		FNDIF	DPLRPL	DPLRCL	DIFPLT				
EIV	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
EIZ	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
EL1	-	ROMNT							
EL2	-	ROMNT							
EM	-	ESPARM	ENDIF						
ENAG	-	DFPTND							
ENDIF	-	GTDRV							
END1	-	SEJCON							
END2	-	SEJCON							
ENORM	-	GEOMC	GEOM						
EP	-	XYZFLD	SOURCP	SCTCYL	SCLRPL	RPLSCL	ROMNT		
EPH	-	RPLRCL	REFCYL	REFCAP	RCLRPL	INCFLD	GTDRV	FLDRV	
EPHT	-	GTDRV							
EPI	-	ESPARM							

GTD Module

I N D E X

***** SUPER INDEX *****

EPP	-	SOURCP							
EPR	-	ESPARM							
EPS	-	POLYRT							
EPSQ	-	DFPTCL							
EPSR	-	ZIJDRV	PUTKWV	GETKWV	BLKDAT				
EPT	-	SOURCP							
EPX	-	ESPARM							
EPY	-	ESPARM							
EPZ	-	ESPARM							
ER	-	SOURCE	SCTCYL	SCLRPL	RPLSCL				
ERC	-	RFPTCL	RDFDPT	DFRFPT					
ERCA	-	RFPTCL	RDFDPT	DFRFPT					
ERCAP	-	GTDDRV							
ERCAT	-	GTDDRV							
ERCB	-	RFDFPT	DFRFPT						
ERCPP	-	GTDDRV							
ERCPT	-	GTDDRV							
END	-	REFBP							
ERDPH	-	GTDDRV							
ERTH	-	GTDDRV							
ERIC	-	SOURCE							
ERIK	-	SOURCE							
ERIS	-	SOURCE							
ERP	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	REFPLA			
ERPDP	-	GTDDRV							
ERPCT	-	GTDDRV							
ERPDCP	-	GTDDRV							
ERPDC	-	GTDDRV							
ERPDP	-	GTDDRV							
ERPOT	-	GTDDRV							
ERPH	-	GTDDRV							
ERPP	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
ERPPH	-	GTDDRV							
ERPR	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
ERPSP	-	GTDDRV							
ERPST	-	GTDDRV							
ERPTH	-	GTDDRV							
ERRC	-	SOURCE							
ERRK	-	SOURCE							
ERROR	-	ZIJDRV	ZGDRV	WRTFIL	TSKXGT	SYSCHK	SYMUPD	SYMDEF	SEJCON
		RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MOVFIL	GETSYM	GETKWV
		GETARG	FNDREC	FLDRV	EXCDRV	ESPARM	DMPDRV		
ERRPP	-	GTDDRV							
ERRPT	-	GTDDRV							
ERRS	-	SOURCE							
ERSPP	-	GTDDRV							
ERSPT	-	GTDDRV							
ERT	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	REFPLA			
ERTH	-	GTDDRV							
ERX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			

GTD Module

I N D E X

***** SUPER INDEX *****

ERV	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
ERZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
ESP	-	SCTCYL	SCLRPL	RPLSCL					
ESPARM	-	GETFLD							
ESPH	-	SCTCYL	REFCYL	GTDDRV					
ESPHI	-	RPLSCL	RPLRCL						
ESPHJ	-	SCLRPL	RCLRPL						
EST	-	SCTCYL	SCLRPL	RPLSCL					
ESTH	-	SCTCYL	REFCYL	GTDDRV					
ESTHI	-	RPLSCL	RPLRCL						
ESTHJ	-	SCLRPL	RCLRPL						
ESX	-	ESPARM							
ESY	-	ESPARM							
ESZ	-	ESPARM							
ET	-	XYZFLD	SYSCHK	SOURCP	SCTCYL	SCLRPL	RPLSCL		
ETA	-	SOURCP	SOURCE	BLKDAT					
ETAE	-	ESPARM							
ETH	-	RPLRCL	REFCYL	REFCAP	RCLRPL	INCFLD	GTDDRV	FLDDRV	
ETHT	-	GTDDRV							
ETI	-	JNCSUM	ESPARM						
ETIME	-	SYSCHK							
ETP	-	SOURCP							
ETR	-	JNCSUM	ESPARM						
ETT	-	SOURCP							
EX	-	SOURCE	RPLRPL	RPLRCL	REFPLA	REFCYL	REFCAP	RCLRPL	INCFLD
		FLDDRV	ENDIF	DPI	DICOEF				
EXC	-	QFUN	PFUN						
EXCDRV	-	TSKXQT							
EXIT1	-	SOURCE							
EXPARG	-	SOURCE							
EXPH	-	RPLDPL	RCLDPL	DPLRPL	OPLRCL	DIFPLT			
EXPOPR	-	DMPDRV							
EXQ	-	DFPTCL							
EXRT1	-	SOURCE							
EX1	-	SOURCE							
EY	-	SOURCE	RPLRCL	REFCYL	RCLRPL	INCFLD	FLDDRV	ENDIF	
EYIT1	-	SOURCE							
EYQ	-	DFPTCL							
EYRT1	-	SOURCE							
EZ	-	SOURCE	RPLRCL	REFCYL	RCLRPL	INCFLD	FLDDRV	ENDIF	
EZIC	-	SOURCE							
EZIK	-	SOURCE							
EZIS	-	SOURCE							
EZIT1	-	SOURCE							
EZQ	-	DFPTCL							
EZRC	-	SOURCE							
EZRK	-	SOURCE							
EZRS	-	SOURCE							
EZRT1	-	SOURCE							
E1	-	TANG	SOURCP						

GTD Module

I N D E X

***** SUPER INDEX *****

E2	-	TANG	SOURCP						
F	-	FCT	CYLINT						
FA	-	DICOEF							
FACTOR	-	GTDDRV	GEOMC	GEOM					
FANG	-	GEOM							
FANF	-	SOURCE							
FARFLD	-	GETFLD	FLDDRV	EXCDRV	ESPARM				
FARG	-	SOURCE							
FCT	-	SCTCYL	SCLRPL	RPLSCL	DQG32				
FFCT	-	RPLDPL	DPLRPL	DIFPLT	DICOEF				
FG	-	CYLINT							
FGH	-	CYLINT							
FH	-	CYLINT							
FI	-	SCTCYL	SCLRPL	RPLSCL	RFPTCL	RDFDPT	FRNELS	DFRPT	
FIRST	-	IBITCK							
FIXY	-	SCLRPL							
FJ	-	ZIJDRV	ZGDRV	STRUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNC SUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
FKARG	-	SCTCYL	SCLRPL	RPLSCL					
FKY	-	DZCOEF							
FL	-	FKY							
FLA	-	FKY							
FLDCM	-	RWCOMS							
FLDDRV	-	TSKXQT							
FLDMAG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT			
FLOPT	-	SMAGNF	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RDFDPT
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	NFD	INCFLD	GTDDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT	DFPTCL			
FLOPTI	-	SCLRPL	RCLRPL	DPLRPL					
FLDX	-	DFPTWD							
FLI	-	ENDIF	DZCOEF						
FLOAT	-	SYSRTN	SYSCHK	SEJCON	QFUN	PFUN	GETKWV	GETARG	DPI
		DMPDRV	DICOEF						
FLRN	-	ENDIF	DZCOEF						
FLRO	-	ENDIF	DZCOEF						
FLTARG	-	ZZXDUM	ZIJDRV	TSKXQT	SYMDEF	SET	RESTRT	PRTKJ	OPNFIL
		MAIN	GETGEO	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT
FLTINC	-	SYSCHK							
FTLIT	-	ZZXDUM	ZIJDRV	WRCHK	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS
		RESTRT	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MAIN
		GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV
		ESPARM	DMPDRV	CONVRT	BLKDAT				
FLT SYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
FN	-	RPLDPL	RCLDPL	GTDDRV	GEOM	ENDIF	DZCOEF	DW	DPLRPL
		DPLRCL	DPI	DIFPLT	DICOEF				
FNCON	-	SEJCON							
FNDREC	-	PUTSYM	GETSYM						
FNM	-	ROMBNT							
FNN	-	RPLDPL	DPLRPL	DIFPLT					

GTD Module

I N D E X

***** SUPER INDEX *****

FNP	-	RPLDPL	RCLDPL	GTDDRV	GEOMPC	GEOM	DPLRPL	DPLRCL	DIFPLT
FNS	-	ROMBNT							
FP	-	RFDFT	DFRFT						
FPA	-	DPI							
FPTHAG	-	NFD							
FPTY	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL			
FP1	-	ZGDRV	GTDDRV						
FP2	-	ZGDRV	GTDDRV						
FP3	-	ZGDRV	GTDDRV						
FR	-	FRNELS							
FREFLG	-	GTDDRV							
FREQ	-	ZGDRV							
FRFLD	-	FLDDRV							
FRNELS	-	SCTCYL	SCLRPL	RPLSCL	FKY	FFCT	DPI	DICOEF	
FRG	-	GTDDRV							
FRGLA	-	GTDDRV							
FRMHZ	-	ZIJDRV	ZGDRV	STRTUP	PUTKWV	GTDDRV	GETKWV	EXCDRV	
FRQSAV	-	ZIJDRV	EXCDRV						
FSIGN	-	ZGDRV							
FSTCHK	-	WRTCHK							
FT	-	ZGDRV	RFDFT	INTPLT					
FTC	-	INTPLT							
FTK	-	INTPLT							
FTS	-	INTPLT							
FU	-	RFDFT	DFRFT						
FUNI	-	FKARG							
FV	-	RFDFT	DFRFT						
FX	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
FY	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
FZ	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
F1	-	DZCOEF	CNVST						
F2	-	DZCOEF	CNVST						
F3	-	DZCOEF							
F4	-	DZCOEF							
G	-	CYLINT							
GAM	-	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLRPL	RCLDPL	DPLRPL	DIFPLT
GEODT	-	RWCOMS							
GEOM	-	GTDDRV							
GEOMC	-	GTDDRV							
GEOMPC	-	GTDDRV							
GETARG	-	ZIJDRV	TSKXQT	RESTRT	GETGEO	FLDDRV	EXCDRV	ESPARM	
GETFLD	-	ZGDRV							
GETGEO	-	ZIJDRV	TSKXQT	FLDDRV	EXCDRV				
GETKWV	-	DMPDRV							
GETSEG	-	SEJCON	PUTSEG	GTDDRV	GETGEO	EXCDRV			
GETSYM	-	ZIJDRV	WRTCHK	SYMDEF	STRTUP	RESTRT	PUTSYM	PUTSEG	GETSEG
		GETARG	EXCDRV	DMPDRV					
GH	-	CYLINT							
GI	-	RFDFT	DFRFT						
GIN	-	FCT							

GTD Module

I N D E X

***** SUPER INDEX *****

GM	-	SCTCYL	SCLRPL	RPLSCL					
GMM	-	SCTCYL	SCLRPL	RPLSCL					
GP	-	RDFPT	DFRPT						
GT	-	RDFPT	DFRPT						
GTDDRV	-	ZGDRV	TSKXQT						
GTDDT	-	RWCOMS							
GU	-	RDFPT	DFRPT						
GV	-	RDFPT	DFRPT						
G11	-	ROMBNT							
G1R	-	ROMBNT							
G21	-	ROMBNT							
G2R	-	ROMBNT							
G31	-	ROMBNT							
G3R	-	ROMBNT							
G41	-	ROMBNT							
G4R	-	ROMBNT							
G51	-	ROMBNT							
G5R	-	ROMBNT							
H	-	SCTCYL	SCLRPL	RPLSCL	CYLINT				
HI	-	SHELL							
HP	-	SOURCE							
HT	-	SOURCE							
I	-	ZXDUM	ZIJDRV	ZGDRV	SYSRTN	STRTUP	STATFN	SHELL	SET
		SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RDFIN	RESTR	QFUN
		PUTSYM	PUTSEG	PRTKJ	POSTIP	POLYRT	PFUN	JNCSUM	IBITCK
		GETSYM	GETKWD	GETGEO	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DFPTCL	CYAXIS	CONVRT	BLKDAT			
IABS	-	TSKXQT	SEJCON	POSTIP	PLAINT	OPNFIL	GETARG	GEOM	DMPDRV
		DFPTCL							
IANG	-	GTDDRV	DIFPLT						
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	GETSYM	FNDREC					
IBASIS	-	ZIJDRV							
IBIT	-	TSKXQT	IBITCK	EXCDRV					
IBITA	-	FLDDRV							
IBITB	-	FLDDRV							
IBITCK	-	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDDRV	EXCDRV	DMPDRV
IBITR	-	DMPDRV							
IBITS	-	ZIJDRV	TSKXQT	SYMDEF					
IBIT1	-	SYMDEF	DMPDRV						
IBIT2	-	DMPDRV							
IBLANK	-	FLDDRV	BLKDAT						
IBLK	-	SEJCON	GETGEO	FLDDRV					
IBLKK	-	GETGEO							
IBLKL	-	WLKBCK							
IBSCER	-	ZGDRV	GTDDRV	GEOM					
IBSCEO	-	GTDDRV							
IBT	-	FLDDRV							
IC	-	SYSRTN	SCTCYL	SCLRPL	RPLSCL	GETFLD			
ICALL	-	ROMBNT	POSTIP						

GTD Module

INDEX

***** SUPER INDEX *****

ICASE	-	PUTSEG								
ICHR	-	CONVRT								
ICHKPT	-	STRTUP	RESTR							
ICKFIL	-	WRTCHK								
ICKLOP	-	STRTUP	RESTR							
ICOL2	-	ZIJDRV	FLDDRV							
ICOM	-	RWCOMS								
ICOMMA	-	BLKDAT								
ICOMSV	-	RWCOMS								
ICON	-	SEJCON								
ICONJ	-	POLYRT								
ICON1	-	SEJCON								
ICON2	-	SEJCON								
ICORDT	-	FLDDRV								
ICOST	-	FLDDRV								
ICOUNT	-	POLYRT								
ICO1	-	SEJCON								
ICO2	-	SEJCON								
ICSYS	-	GTDDRV	CYAXIS							
ICT	-	GETFLD								
ICTYPE	-	GETFLD	FLDDRV							
ICM	-	EXCDRV	ESPARM							
ICYTAG	-	BLKDAT								
ID	-	SCTCYL	SCLRPL	RPLSCL	FCT	CONVRT				
IDATA	-	POSTJP								
IDATE	-	SYSRTN								
IDAY	-	MAIN								
IDCSYS	-	CYAXIS	BLKDAT							
ISU	-	DIFPLT								
IDEFIN	-	BLKDAT								
IDEL	-	DFPTCL								
IDFINS	-	BLKDAT								
IDG	-	DIFPLT								
IDIG	-	BLKDAT								
IDOLAR	-	BLKDAT								
IDP	-	EXCDRV	ESPARM							
IECTAG	-	BLKDAT								
IEM	-	ZGDRV	XYZFLD	REFPLA	GTDDRV					
IEMD	-	GTDDRV								
IEM1	-	XYZFLD								
IEOF	-	WRTCHK	STRTUP	RWCOMS	RESTR					
IEQUAL	-	DMPDRV	BLKDAT							
IERNF	-	ZIJDRV	ZGDRV	WTFIL	TSKXOT	SYSCHK	SYMUPD	SYMDEF	STRTUP	
		SEJCON	RWFILS	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL	NOVFIL	
		GETSYM	GETKVV	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	DMPDRV	
		BLKDAT								
IFDTYP	-	ZGDRV	GTDDRV							
IFILE	-	SYMUPD	RWFILS	PUTSYM	NOVFIL	GETSYM	FNDREC	CLSFIL		
IFIX	-	SYSRTN	STATFN	FLDDRV	ESPARM	DPI	DICOEF			
IFLAG	-	POLYRT								

GTD Module

I N D E X

***** SUPER INDEX *****

IFLDMT	-	FLDDRV							
IFLE	-	MOVFIL							
IFLNAM	-	R4COMS							
IFM	-	GEOM							
IF1	-	PUTSYM							
IF2	-	PUTSYM							
IGDNLA	-	GTDDRV							
IGEGBT	-	FLDDRV							
IGEOM	-	EXCDRV							
IGFM	-	FLDDRV							
IGLIM	-	GTDDRV							
IGNORE	-	BLKDAT							
IGTD	-	GTDDRV							
IGTDGM	-	GTDDRV							
IHIT	-	GEOM							
II	-	ZIJDRV	ZGTDRV	SET	PRTKJ	FLDDRV	EXCDRV	CYAXIS	
IJ	-	SYSRTN	SOURCE	ROMBNT	NTGRAN				
IJMOD	-	PUTSYM	GETSYM	FNDREC					
IJX	-	SOURCE							
IJZLOC	-	ZIJDRV							
IKW	-	PRTKJ							
ILEFT	-	DMPDRV	BLKDAT						
ILINE	-	GTDDRV							
ILOWER	-	PUTSYM	GETSYM	FNDREC					
ILP	-	DMPDRV							
ILIM	-	GETGEO							
IM	-	SOURCP	SOURCE	SHELL	IMDIR	IMCDIR	GTDDRV	GEOMC	GEOM
IMAGE	-	SCLRPL	RCLRPL	GEOM	DPLRPL				
IMCDIR	-	GEOMC							
INDCHK	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT			
INDIR	-	RPLRPL	GEOM						
IMINUS	-	DMPDRV	BLKDAT						
IMIS	-	FLDDRV							
IMSRC	-	GTDDRV							
IM1	-	IBITCK							
IMS	-	GTDDRV							
INAME	-	BLKDAT							
INCCHK	-	TSKXQT	SYSCHK						
INCFLD	-	GTDDRV							
INCORE	-	FLDDRV							
IND	-	CONVRT							
INDEX	-	GETKWD	GETGEO	FLDDRV					
INDEX1	-	FLDDRV							
INDEX2	-	FLDDRV							
INDEX3	-	FLDDRV							
INDX	-	SEJCON	FLDDRV						
INDXA	-	TSKXQT	FLDDRV						
INDXB	-	TSKXQT	FLDDRV						
INDXC	-	TSKXQT							
INDXG	-	TSKXQT							

GTD Module

I N D E X

***** SUPER INDEX *****

INDXP1 -	RWCOMS								
INDXWB -	WLKBCK	TRCEBK	RWCOMS	BLKDAT					
INDXX -	TSKXQT								
INEM -	SYMDEF								
INPBLK -	GTDDRV								
INT -	PUTKWV	GETARG							
INTARG -	ZZXNUM	ZIJDRV	TSKXQT	SYMDEF	SET	RESTR	PRTKJ	OPNFIL	
	MAIN	GETGEO	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT	
INTBCD -	CONVRT								
INTM -	RWCOMS								
INTPLT -	ZGDRV								
INTSYM -	SYMDEF	PUTSYM	GETSYM	BLKDAT					
INTWRD -	CONVRT								
IOBS -	ZGDRV								
IOBS1 -	ZIJDRV	ZGDRV	FLDDRV	EXCDRV					
IOBS2 -	ZIJDRV	ZGDRV	FLDDRV	EXCDRV					
IOCKPT -	WRTCHK	TSKXQT	RWCOMS	RESTR	RDEFIL	PUTSYM	BLKDAT		
IOFILE -	WRTFIL	WRTCHK	SYMDEF	STRUP	RWCOMS	RDEFIL	PUTSYM	OPNFIL	
	MOVFIL	GETSYM	ERROR	CLSFIL	BLKDAT				
IOFLS -	RWCOMS								
IOP -	ROTATE								
IOPR -	DMPDRV								
IORDER -	PUTSYM	GETSYM	FNDREC						
IOSCRT -	PUTSYM								
IOSCR1 -	SYMDEF	PUTSYM	BLKDAT						
IOSCR2 -	SYMDEF	PUTSYM	BLKDAT						
IOSTOR -	SYMDEF	STRUP							
IOSYMB -	SYMDEF	BLKDAT							
IOTASK -	BLKDAT								
IPAREN -	DMPDRV								
IPASS -	ZIJDRV	TSKXQT	SYMDEF	GETARG	FLDDRV	EXCDRV	DMPDRV		
IPATCH -	SOURCE	NTGRAN							
IPER -	BLKDAT								
IPERF -	ZIJDRV	PUTKWV							
IPLTAG -	ZIJDRV	PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
IPLUS -	DMPDRV	BLKDAT							
IPOL -	ESPARM								
IPR -	JNCSUM								
IPTBUF -	BLKDAT								
IPTS -	BLKDAT								
IPTTBL -	BLKDAT								
IPWR2 -	IBITCK								
IP217 -	ZIJDRV	ZGDRV	SET	SEJCON	PUTSEG	PRTKJ	GTDDRV	GETSEG	
	GETGEO	FLDDRV	EXCDRV	BLKDAT					
IR -	PUTSYM	GETSYM							
IRC1 -	PUTSYM	GETSYM							
IRC2 -	PUTSYM	GETSYM							
IREAD -	GETSYM								
IREC -	PUTSYM	GETSYM	FNDREC						
IRECFS -	PUTSYM								

GTD Module

I N D E X

***** SUPER INDEX *****

IRECND	-	PUTSYM							
IRECNW	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	PUTSYM	GETSYM						
IREC2	-	PUTSYM	GETSYM						
IRIGHT	-	DMPDRV	BLKDAT						
IROWA	-	FLDRV							
IROWM1	-	PUTSYM	GETSYM						
IRP	-	DMPDRV							
IRSAV	-	STRUP							
IRSTRT	-	STRUP	RESTR		PUTSYM				
IR1	-	RWFILS	PUTSYM		GETSYM				
IR2	-	PUTSYM	GETSYM						
IS	-	PUTSEG							
ISAVE	-	ZIJDRV							
ISC	-	ZGDRV							
ISCALE	-	BLKDAT							
ISCTYP	-	ZGDRV	GETFLO						
ISDBON	-	RESTR							
ISDWFL	-	ZGDRV	GTDRV						
ISEG	-	PUTSEG	GETSEG		GETGEO		BLKDAT		
ISEGBL	-	GTDRV							
ISET	-	SET	PRTKJ						
ISET8	-	SET	PRTKJ		BLKDAT				
IS6	-	ZGDRV	PUTSEG						
ISGM	-	RFDFPT							
ISGMNT	-	SEJCON							
ISGTBL	-	ZIJDRV	ZGDRV	WRTCHK	TSKXQT	STRUP	SEJCON	RWFILS	RESTR
		PUTSEG	GTDRV	GETSEG	GETGEO	FLDRV	EXCDRV	BLKDAT	
ISHADW	-	ZIJDRV	ZGDRV						
ISHWRD	-	ZGDRV							
ISLASH	-	DMPDRV	BLKDAT						
ISN	-	RPLDPL	DPLRPL	DIFPLT					
ISOFF	-	ZIJDRV	ZGDRV	WRTCHK	TSKXQT	STRUP	STATFN	SOURCE	SEJCON
		RWFILS	RWCOMS	ROTATE	RESTR	PUTSYM	PUTSEG	MAIN	GETSYM
		GETSEG	GETARG	FNDREC	EXCDRV	ESPARM	ERROR	DMPDRV	CONVRT
		CLSFIL	BLKDAT						
ISON	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRUP	STATOT	STATIN	STATFN	SEJCON	RWFILS	RWCOMS	RESTR
		RDEFIL	PUTSYM	PUTKWV	OPNFIL	NTGRAN	MOVFIL	MAIN	GETSYM
		GETKWV	FNDREC	FLDRV	EXCDRV	ESPARM	ERROR	DMPDRV	BLKDAT
ISRCBT	-	FLDRV							
ISRCE	-	GETFLO	ESPARM						
ISSUE	-	MAIN							
ISTAR	-	DMPDRV	BLKDAT						
ISTART	-	ZIJDRV	POLYRT						
ISTAT	-	OPNFIL							
ISTOP	-	ZIJDRV	SET						
ISTRBT	-	RESTR							
ISV	-	PUTSYM	GETSYM	FNDREC					

GTD Module

I N D E X

***** SUPER INDEX *****

ISW -	PUTSYM	EXCDRV	ESPARM						
ISYMBL -	POSTIP	BLKDAT							
IT -	PUTSYM	GETSYM							
ITAG -	PUTSEG	GTDDRV	GETSEG	GETGEO					
ITAGID -	ZIJDRV	PUTSEG	GYDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
ITAGI -	GETGEO								
ITASK -	TSKXQT	POSTIP							
ITEM -	GTDDRV								
ITEMP -	ZIJDRV	WRTCHK	SYMDEF	RWFILS	RESTRT	PUTSYM	MOVFIL	MAIN	
	FLDDRV	EXCDRV	DMPDRV	BLKDAT					
ITEMS -	STATFN	SHELL							
ITG -	PUTSEG								
ITIME -	SYSRTN	MAIN							
ITYP -	ZGTDRV	SEJCON							
ITYPDE -	BLKDAT								
ITYPE -	ZIJDRV	ZGTDRV	GETFLD	FLDDRV	EXCDRV				
ITYPPL -	BLKDAT								
ITYPPT -	BLKDAT								
ITYPTG -	BLKDAT								
IU -	FLDDRV								
IUPPER -	PUTSYM	GETSYM	FNDREC						
IV -	RFP TCL	RDFP T	DFRFP T	DFP TCL					
IVD -	RFP TCL	RDFP T	DFRFP T						
IVDM -	RFP TCL								
IVDP -	RDFP T	DFRFP T							
IVS -	EXCDRV	ESPARM							
IWSAV -	RWCMS								
IWORDS -	ZZXBUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLK BCK	TSKXQT	TRCERK	
	TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STR TUP	STATOT	STATIN	
	STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL	
	RWFILS	RWCMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT	
	RFP TCL	RDFP T	RESTR T	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL	
	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	POLYRT	
	OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	I BITCK	
	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD	GETARG	
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL	
	DPLRCL	DMPDRV	DIFPLT	DFRFP T	CYAXIS	CONVRT	CLSFIL	BTANZ	
	BLKDAT	ASSIGH							
	I BITCK	FNDREC							
IWRD -	PUTSYM	GETSYM							
IWRD1 -	WRTCHK	PUTSYM							
IWRTCK -	ZGTDRV								
IX -	EXCDRV								
IXCNAH -	EXCDRV	ESPARM							
IXTYPE -	PUTSEG								
IXI -	ZIJDRV	GETGEO							
IYRLOC -	PUTSEG								
I23 -	ZIJDRV	TRCEBK	FLDDRV						
I1 -	TRCEBK								
I2 -	ZGTDRV	SYSRTN	STR TUP	STATFN	SHELL	SET	SEJCON		
J -									

GTD Module

INDEX

***** SUPER INDEX *****

	RPLDPL	RFDFTP	PUTSYM	PUTSEG	PRTKJ	POSTIP	JNCSUM	GTCDRV
	GETSYM	GETKWD	GEOMPC	GEOM	FNDREC	FLDDRV	EXCDRV	DFPTWD
	DFPTCL							
JBIAS1 -	SEJCON	BLKDAT						
JBIAS2 -	SEJCON	BLKDAT						
JBIAS3 -	SEJCON	BLKDAT						
JBIT -	IBITCK							
JBLK -	SEJCON							
JCALL -	GETFLD	ESPARM						
JCBIAS -	BLKDAT							
JCOL -	ZGDRV							
JCON -	SEJCON							
JCO1 -	ZGDRV	SEJCON						
JCO2 -	ZGDRV	SEJCON						
JDIG -	BLKDAT							
JE -	RFDFTP							
JHOURS -	SYSRTN							
JIX -	ZGDRV	SEJCON						
JIZ -	ZGDRV	SEJCON						
JJ -	ZGDRV	POLYRT						
JM -	JNCSUM							
JMINIT -	SYSRTN							
JMJ -	JNCSUM							
JNCN -	RWCOMS							
JNCSUM -	ZGDRV							
JOX -	ZGDRV	SEJCON						
JOZ -	ZGDRV	SEJCON						
JP -	JNCSUM							
JPJ -	JNCSUM							
JROM -	ZGDRV							
JSV -	FLDDRV							
JSE6 -	SEJCON							
JSG -	PUTSEG							
JSGMNT -	SEJCON							
JSRC -	ZGDRV							
JSRC1 -	ZGDRV	FLDDRV	EXCDRV					
JSRC2 -	ZGDRV	FLDDRV	EXCDRV					
JTASK -	TSKXQT	ESPARM						
JTG -	PUTSEG							
JWRD -	IBITCK							
JX -	ZGDRV							
K -	ZIJDRV	SHELL	SET	PRTKJ	IMDIR	IMCDIR	GTDDRV	FRNELS
	FLDDRV	EXCDRV	DFPTCL	CONVRT				
KALL -	ZIJDRV							
KBAKD -	PUTSYM	GETSYM	FNDREC					
KBBAND -	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBBITS -	BLKDAT							
KBCPLX -	ZIJDRV	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDDRV	EXCDRV
	DMPDRV	BLKDAT						
KBDPRE -	PUTSYM	GETSYM	FNDREC	BLKDAT				

GTD Module

I N D E X

***** SUPER INDEX *****

KOLROW	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	EXCDRV	DMPDRV
		BLKDAT							
KOLTIN	-	TSKXQT	BLKDAT						
KOLTSK	-	TSKXQT	BLKDAT						
KOLVAL	-	GETARG	ESPARM	DMPDRV	BLKDAT				
KOUNT	-	TSKXQT							
KOUTPT	-	BLKDAT							
KPR	-	ZGDRV							
KRSTR	-	BLKDAT							
KSYMDF	-	BLKDAT							
KSYMP	-	ZIJDRV	PUTKWV						
KW	-	SET	PUTKWV	GETKWV					
KWA	-	FLDRV							
KWABS	-	BLKDAT							
KWARG	-	BLKDAT							
KWAXIS	-	BLKDAT							
KWAND	-	BLKDAT							
KWASE	-	ZIJDRV							
KWBCRE	-	BLKDAT							
KWBCSB	-	BLKDAT							
KWBNDW	-	BLKDAT							
KWC	-	BLKDAT							
KWC0	-	BLKDAT							
KWC0P	-	BLKDAT							
KWCHKP	-	RESTR	BLKDAT						
KWCLPS	-	BLKDAT							
KWCNJG	-	BLKDAT							
KWCNVG	-	BLKDAT							
KWCND	-	PUTKWV	GETKWV	BLKDAT					
KWCPNC	-	BLKDAT							
KWCPNH	-	BLKDAT							
KWCR	-	BLKDAT							
KWCS	-	BLKDAT							
KWCH	-	BLKDAT							
KWCY	-	BLKDAT							
KWC1	-	BLKDAT							
KWC2	-	BLKDAT							
KWD	-	BLKDAT							
KWDBUG	-	BLKDAT							
KWDC	-	BLKDAT							
KWONAH	-	POSTIP							
KWDP	-	BLKDAT							
KWDR	-	BLKDAT							
KWDT	-	BLKDAT							
KWDV	-	BLKDAT							
KWDX	-	BLKDAT							
KWDY	-	BLKDAT							
KW0Z	-	BLKDAT							
KWEC	-	BLKDAT							
KWEC	-	BLKDAT							

GTD Module

I N D E X

***** SUPER INDEX *****

KWED	-	BLKDAT							
KWEI	-	BLKDAT							
KWEND	-	BLKDAT							
KWEP SR	-	PUTKWV	GETKWV	BLKDAT					
KWER	-	BLKDAT							
KWES	-	BLKDAT							
KWESRC	-	BLKDAT							
KWEU	-	BLKDAT							
KWFFLD	-	BLKDAT							
KWFLID	-	BLKDAT							
KWFMT P	-	BLKDAT							
KWFRQ	-	PUTKWV	GETKWV	BLKDAT					
KWGM DT	-	BLKDAT							
KWGT O	-	BLKDAT							
KWILP	-	BLKDAT							
KWINPT	-	BLKDAT							
KWINV	-	BLKDAT							
KWIPE	-	BLKDAT							
KWIRE	-	BLKDAT							
KWIS	-	BLKDAT							
KWLABL	-	BLKDAT							
KWLGLG	-	BLKDAT							
KWLGLN	-	BLKDAT							
KWLGPO	-	BLKDAT							
KWLMT	-	BLKDAT							
KWLNLG	-	BLKDAT							
KWLNLN	-	BLKDAT							
KWLNPO	-	BLKDAT							
KWLOOP	-	BLKDAT							
KWLU	-	BLKDAT							
KWLUD	-	BLKDAT							
KWMAX	-	GETKWD	BLKDAT						
KWHM	-	BLKDAT							
KWMODL	-	BLKDAT							
KWMXIT	-	BLKDAT							
KWN	-	BLKDAT							
KWNAME	-	ZIJDRV	RESTR	PUTKWV	PRTKJ	POSTIP	GETKWV	GETKWD	FLDDRV
		ESPARM	BLKDAT						
KWNDX	-	ZIJDRV							
KWNFLD	-	BLKDAT							
KWNMFL	-	PUTKWV	GETKWV	BLKDAT					
KWNP	-	BLKDAT							
KWNR	-	BLKDAT							
KWOFF	-	TSKXQT	BLKDAT						
KWON	-	TSKXQT	BLKDAT						
KWOUTP	-	BLKDAT							
KWPART	-	BLKDAT							
KWPC	-	BLKDAT							
KWPB	-	BLKDAT							
KWPDR	-	BLKDAT							

GTD Module

I N D E X

***** SUPER INDEX *****

KWPHI	-	BLKDAT		
KWPIVT	-	BLKDAT		
KWPL	-	BLKDAT		
KWPLOT	-	BLKDAT		
KWPLSE	-	BLKDAT		
KWPR	-	BLKDAT		
KWPRE	-	BLKDAT		
KWPRGE	-	BLKDAT		
KWPRLC	-	BLKDAT		
KWPRNT	-	BLKDAT		
KWPSN	-	BLKDAT		
KWP1	-	BLKDAT		
KWP2	-	BLKDAT		
KWR	-	BLKDAT		
KWRC	-	BLKDAT		
KWRD	-	BLKDAT		
KWRDP	-	BLKDAT		
KWRDUC	-	BLKDAT		
KWREAD	-	BLKDAT		
KWREPL	-	BLKDAT		
KWRFLC	-	BLKDAT		
KWRITE	-	BLKDAT		
KWRR	-	BLKDAT		
KWRSTR	-	BLKDAT		
KWR1	-	BLKDAT		
KWR2	-	BLKDAT		
KWSC	-	BLKDAT		
KWSCDP	-	BLKDAT		
KWSEGS	-	BLKDAT		
KWSEQ	-	BLKDAT		
KWSET	-	BLKDAT		
KWSIZE	-	BLKDAT		
KWSMDF	-	BLKDAT		
KWSNCS	-	BLKDAT		
KWSOLV	-	BLKDAT		
KWSR	-	BLKDAT		
KWSRDP	-	BLKDAT		
KWSRLC	-	BLKDAT		
KWSTAT	-	TSKXQT	BLKDAT	
KWSTNT	-	BLKDAT		
KWSW	-	BLKDAT		
KWTAGS	-	BLKDAT		
KWTDM	-	BLKDAT		
KWTHET	-	BLKDAT		
KWTIME	-	PUTKWV	GETKWV	BLKDAT
KWTRAC	-	TSKXQT	BLKDAT	
KWTRAN	-	BLKDAT		
KWTYPE	-	BLKDAT		
KWT1	-	BLKDAT		
KWT2	-	BLKDAT		

GTD Module

INDEX

***** SUPER INDEX *****

KV	-	BLKDAT							
KVVALU	-	BLKDAT							
KVVS	-	BLKDAT							
KVVSRC	-	BLKDAT							
KWX	-	BLKDAT							
KWXPND	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	BLKDAT							
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
K1	-	SEJCON							
K2	-	SEJCON							
L	-	INDIR	INCDIR	FLDDRV	ERROR	DMPDRV			
LAMP	-	GTDDRV							
LBDP	-	CYLINT							
LCALLR	-	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRTUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LALNM	-	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRTUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LCD	-	GEOMPC							
LCNPAT	-	GTDDRV							
LCORNR	-	RPLDPL	GTDDRV	DPLRPL	DIFPLT	DFPTWD			
LCTD	-	GEOMPC	GEOM						
LCYL	-	PLAINT	GTDDRV	GEOMPC	GEOMC	CYLINT			
LDC	-	GTDDRV	GEOMPC						
LDEBUG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTRAN	REFPLA
		REFCYL	REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMPC
		GEOMC	GEOM	FRNELS	ENDIF	DPLRPL	DPLRCL	DPI	DIFPLT
		DICOEF	CYLINT	CAPINT					
LDF	-	RPLDPL	DPLRPL	DIFPLT					

GTD Module

I N D E X

***** SUPER INDEX *****

LDIFFR -	RPLDPL	RDFDPT	DPLRPL	DIFPLT	DFPTWD				
LDRC -	GTDDRV	DPLRCL	DFRFT						
LES -	FLDDRV								
LETR -	BLKDAT								
LEU -	FLDDRV								
LFRQFL -	GTDDRV	GEOMPC	GEOM						
LGDNFL -	GTDDRV	GEOMPC	GEOM						
LGRND -	RFPTCL	PLAINT	GTDDRV	GEOM					
LHCT -	GEOMPC	GEOM							
LMIT -	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL	
	REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMPC	GEOMC	
	GEOM	ENDIF	DPLRPL	DPLRCL	DIFPLT	CYLINT	CAPINT		
	GTDDRV	GEOMPC	GEOM						
LIHD -	POLYRT								
LIMIT -	PUTSEG								
LIMSEG -	SEJCON								
LIMWYR -	TSKXQT								
LINDX -	PUTSYM	GETSYM	FNDREC						
LINK -	TSKXQT	FLDDRV							
LINKA -	FLDDRV								
LINKB -	FLDDRV								
LINKG -	BLKDAT								
LITMX -	ZZXDUM	ZIJDRV	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRTUP	RWFILS	
LITNUM -	RESTR	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MAIN	
	GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	
	ESPARM	DMPDRV	CONVRT	BLKDAT					
LITYP -	GETARG	DMPDRV							
LITVAL -	DMPDRV								
LL -	IMDIR	IMCDIR							
LMID -	FLDDRV								
LNKBIT -	FLDDRV								
LNKEXC -	EXCDRV								
LNPL -	GEOM								
LNRFLO -	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RDFDPT	
	REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	ENDIF	
	DPLRPL	DPLRCL	DIFPLT	DFPTWD	DFPTCL				
LNROT -	GTDDRV								
LO -	SHELL								
LOC -	STATFN	SHELL	PUTSYM	GTDDRV	GETSYM	FNDREC			
LOCARG -	TSKXQT	GETARG	DMPDRV						
LOCEND -	PUTSYM								
LOCXC -	EXCDRV								
LOCFST -	SYMDEF	PUTSYM	GETSYM	FNDREC					
LOGGEO -	ZIJDRV	GETGEO	ESPARM						
LOCLIT -	ESPARM	DMPDRV							
LOCLST -	SYMDEF	PUTSYM	FNDREC						
LOCNAM -	ESPARM								
LOCNOW -	STRTUP	PUTSYM	GETSYM						
LOCNXT -	TSKXQT								
LOCSTR -	PUTSYM	GETSYM							

GTD Module

I N D E X

***** SUPER INDEX *****

LOCTPO -	RESTR							
LOCTP1 -	TSKXQT							
LOCTSK -	TSKXQT	ESPARM						
LOCYRS -	EXCDRV							
LOCZIJ -	ZIJDRV							
LOG -	DICOEF							
LOOP -	FLDDRV							
LOOPMX -	TSKXQT	BLKDAT						
LOOP1 -	GETFLD	FLDDRV						
LOOP2 -	GETFLD	FLDDRV						
LOOP3 -	GETFLD	FLDDRV						
LORDER -	FLDDRV							
LOUT -	GTDDRV	FLDDRV						
LPLA -	PLAINT	GTDDRV	GEOMPC	GEOMC	CYLINT			
LPLT -	GTDDRV							
LPRAD -	GTDDRV							
LRANG -	GTDDRV							
LROC -	RFDFTP	RCLDPL	GTDDRV					
LRFC -	SCTCYL	RFPTCL	REFCYL	GTDDRV				
LRFCT -	SCTCYL							
LRFI -	RPLSCL	RPLRCL	GTDDRV					
LRFIT -	RPLSCL							
LRF5 -	SCLRPL	RCLRPL	GTDDRV					
LRFST -	SCLRPL							
LROUTN -	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
	SYMUPD	SYMDEF	STRTUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
	ROMBNT	RESTR	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
	JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
	GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
	ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LRTNUM -	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
	SYMUPD	SYMDEF	STRTUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
	ROMBNT	RESTR	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
	JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
	GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
	ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LSAVE -	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLK8CK	TSKXQT	TRCEBK
	TANG	SYSRTN	SYMUPD	SYMDEF	SET	STRTUP	STATOT	STATIN
	STATFN	SOURCP	SOURCE	SHELL	RPLRCL	SEJCON	SCTCYL	SCLRPL
	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
	RFPTCL	RESTR	REFPLA	REFCYL	REFCAP	REFBP	REFBP	RDEFIL
	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PRTKJ	POSTIP	POSTIP	POLYRT
	OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK
	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
	DPLRCL	DMPDRV	DIFPLT	DFRPT	CYAXIS	CONVRT	CLSFIL	BTAN2

GTD Module

I N D E X

***** SUPER INDEX *****

LSHD -	BLKDAT	ASSIGN	GEOM						
LSLOPE -	GTDDRV	GEOMPC	GEOM						
LSJR -	RPLDPL	GTDDRV	DPLRPL	DIFPLT	DFPTWD				
LSRCFL -	INCFLD	GTDDRV							
LSRCFO -	ZGTDRV	GTDDRV	GEOMPC	GEOM					
LSRFC -	GTDDRV								
LSTARG -	GTDDRV	GEOMPC	GEOMC						
LSTAT -	TSKXQT	POSTIP	EXCDRV						
	BLKDAT								
	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	
	SYMUPD	SYMDEF	STRTUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL	
	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	
	ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL	
	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCSUM	
	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	
	GETGEO	GETFLO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	
	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT		
LSTCHK -	SYSCHK								
LSTCOL -	LUSTAT	BLKDAT							
LSTCSY -	CYAXIS	BLKDAT							
LSTD -	PLAINT	GEOMPC	GEOM						
LSTDAT -	BLKDAT								
LSTFNC -	BLKDAT								
LSTINP -	BLKDAT								
LSTINT -	BLKDAT								
LSTIOD -	BLKDAT								
LSTMOD -	STRTUP	STATFN							
LSTS -	PLAINT	GEOMPC	GEOM						
LSTSYS -	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK	
	SYMDEF	STRTUP	STATFN	RESTRT	RDEFIL	PUTSYM	PUTKWV	OPNFIL	
	MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN		
LSTTPF -	TSKXQT	BLKDAT							
LSTWRD -	PUTSYM	GETSYM							
LSURF -	RPLDPL	GTDDRV	GEOMPC	GEOM	DW	DPLRPL	DIFPLT		
LTEST -	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTRAN	REFPLA	
	REFCYL	REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMPC	
	GEOMC	GEOM	FRNELS	ENDIF	DPLRPL	DPLRCL	DPI	DIFPLT	
	DICOEF	CYLINT	CAPINT						
LTRACE -	TSKXQT	STATOT	STATIN	BLKDAT					
LTRF -	SCTCYL	REFCYL							
LTRFI -	RPLSCL	RPLRCL							
LTRFJ -	SCLRPL	RCLRPL							
LUDEBUG -	RESTRT	POSTIP	BLKDAT						
LUFIL -	STRTUP	RESTRT	OPNFIL						
LJUNIT -	WRTFIL	RDEFIL							
LUPRNT -	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	
	TANG	SYSCHK	SYMUPD	SYMDEF	STRTUP	STATOT	STATIN	STATFN	
	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLDPL	
	RFPTCL	RFDFPT	RESFRT	REFPLA	REFCAP	REFBP	RDEFIL	RCLDPL	
	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT	OPNFIL	MOVFIL	

GTD Module

I N D E X

***** SUPER INDEX *****

	MAIN	INCFLD	GETSYM	GETSEG	GETKWV	GETGEO	GETFLD	GETARG
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ENDIF	DPLRPL	DPLRCL
	DMPDRV	DIFPLT	DFRFPT	CYAXIS	BLKDAT	ASSIGN		
LUTASK -	LUSTAT	BLKDAT						
LVJ -	SCTCYL	SCLRPL	RPLSCL					
LWRITE -	GTDDRV							
LWRUPR -	PUTSYM	GETSYM	FNDREC					
LX -	FLDDRV							
L1 -	GETFLD	FLDDRV						
L123 -	FLDDRV							
L2 -	GETFLD	FLDDRV						
L3 -	GETFLD	FLDDRV						
M -	ZIJDRV	ZGTRV	SHELL	POLYRT				
MACHIN -	BLKDAT							
MANTSA -	IBITCK	BLKDAT						
MASK -	FLDDRV							
MATNAM -	PUTSYM	GETSYM	FNDREC					
MATOP1 -	DMPDRV							
MATOP2 -	DMPDRV							
MAXBLK -	TSKXQT	PUTSEG	GETSEG	GETGEO				
MAXCOS -	BLKDAT							
MAXCON -	ZGTRV	SEJCON	JNCSUM	BLKDAT				
MAXCSY -	BLKDAT							
MAXCYL -	BLKDAT							
MAXDEF -	BLKDAT							
MAXECP -	BLKDAT							
MAXPLT -	BLKDAT							
MAXPTS -	BLKDAT							
MAXRAD -	BLKDAT							
MAXSEG -	TSKXQT	SEJCON	PUTSEG	GTDDRV	GETSEG	BLKDAT		
MAXSTR -	SYMDEF	PUTSYM	BLKDAT					
MAXWRD -	PUTSYM	GETSYM						
MAXO -	SYMDEF	PUTSYM						
MC -	RPLDPL	RFDFT	REFCAP	GTDDRV	GEOMC	GEOM	DPLRPL	DIFPLT
	CAPINT							
MCINX -	GTDDRV	GEOMC						
MD -	CAPINT							
MDLE -	RWCOMS							
ME -	RPLDPL	RFDFT	RCLDPL	PLAINT	GTDDRV	GEOMPC	GEOM	DPTNFW
	DPLRPL	DPLRCL	DIFPLT	DFRFPT	DFPTWD			
MEC -	RPLDPL	RCLDPL	GEOMPC	GEOM	DFPTWD			
MEE -	GEOM							
MEH -	GEOM							
MEINX -	GTDDRV	GEOMPC						
MEN -	GEOMPC	GEOM						
MEP -	RPLDPL	RFDFT	RCLDPL	PLAINT	GTDDRV	GEOMPC	GEOM	DPLRPL
	DIFPLT	DFPTWD						
MES -	GEOM							
MEX -	PLAINT	GTDDRV	GEOMPC	GEOM				
MF -	GEOM							

GTD Module

I N D E X

***** SUPER INDEX *****

MFC	-	GEOM							
MFM	-	GEOM							
MFS	-	GEOM							
MFX	-	GEOM							
MH	-	PLAINT							
MI	-	POLYRT							
MIND	-	ZIJDRV	PUTSYM	PUTSEG	GTDDRV	GETSYM	FNDREC	FLDDRV	
MJ	-	GEOMPC	GEOM	DFRFP					
MKMX	-	BLKDAT							
ML	-	GEOM							
MM	-	POLYRT							
MME	-	PLAINT	GEOM						
MMP1	-	POLYRT							
MN	-	POLYRT	FNDREC						
MOD	-	ZIJDRV	ZGTDRV	STRUP	SEJCON	PUTSEG	IBITCK	GTDDRV	GETGEO
		GETFLD	FLDDRV						
MODCHK	-	WRTCHK	STRUP	STATFN	PUTSYM	BLKDAT			
MODLST	-	STRUP	STATFN	BLKDAT					
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STRUP	STATFN	MAIN				
MODNOW	-	STRUP							
MORE	-	PUTSYM	GETSYM	FNDREC					
MOVE	-	MOVFIL							
MOVFIL	-	STRUP	PUTSYM	GETSYM					
MOVNRD	-	PUTSYM	MOVFIL						
MP	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	RFDFPT	REFPLA
		REFBP	RCLRPL	RCLOPL	PLAINT	INDIR	IMAGE	GTDDRV	GEOMPC
		GEOM	DPTNFW	DPLRPL	DPLRCL	DIFPLT	DFRFP	DFPTWD	
MPH	-	PLAINT	GEOM	DIFPLT					
MPINX	-	GTDDRV	GEOMPC	GEOM					
MPP	-	RPLRPL	PLAINT	GTDDRV	GEOM				
MPPINX	-	GTDDRV	GEOM						
MPX	-	GTDDRV	GEOMPC	GEOM					
MPXR	-	RFPTCL	PLAINT	GTDDRV	GEOM				
MQ	-	GEOM							
MR	-	RPLDPL	RFPTCL	GTDDRV	GEOM	DPLRPL			
MRINX	-	GTDDRV							
MSAVE	-	STATOT	STATIN						
MTASK	-	ESPARM							
MULJNC	-	SEJCON							
MULOPR	-	DMPDRV							
MV	-	GEOM							
MXANCT	-	BLKDAT							
MXARGS	-	TSKXGT	BLKDAT						
MXARGT	-	BLKDAT							
MXCDFG	-	BLKDAT							
MXCYAR	-	BLKDAT							
MXDPT	-	BLKDAT							
MXECAR	-	BLKDAT							
MXEXFP	-	BLKDAT							

GTD Module

I N D E X

***** SUPER INDEX *****

MXEPD	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	WLKBCK	RWCOMS	BLKDAT					
M1	-	GETFLD							
M2	-	GETFLD							
N	-	ZIJDRV	ZGDRV	TSKXQT	SYMUPD	SYMDEF	STATOT	STATIN	SMAGNF
		SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTRAN	RFPTCL
		RFDFPT	RFDFIN	REFPLA	REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL
		QFUN	PUTSYM	POSTIP	POLYRT	PLAINT	PFUN	MOVFIL	LUSTAT
		INCFLD	INDIR	IMAGE	GTDDRV	GETARG	GEOMPC	GEOMC	GEOM
		FLDDRV	ENDIF	DPTNFW	DPLRPL	DPLRCL	DPI	DMPDRV	DIFPLT
		DICOEF	DFRFP	DFPTWD	DFPTCL	CAPINT			
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FLDDRV			
NAM	-	RESTR	FLDDRV						
NAMCOM	-	RWCOMS							
NAMCPF	-	RESTR							
NAMDAT	-	TSKXQT							
NAMDEF	-	BLKDAT							
NAME	-	ZZXUM	SYMDEF	STRTUP	STATOT	STATIN	RWFILS	RWCOMS	RESTR
		PUTKWV	PRTKJ	POSTIP	GETKWV	GETKWV	FLDDRV	ESPARM	
NAMEA	-	FLDDRV							
NAMEB	-	TSKXQT	FLDDRV						
NAMEC	-	TSKXQT							
NAMEG	-	ESPARM							
NAMESH	-	ZIJDRV							
NAMEX	-	TSKXQT							
NAMEXC	-	EXCDRV							
NAMEXP	-	ZIJDRV							
NAMEYR	-	ZIJDRV	GETGEO						
NAMEZ	-	ZIJDRV							
NAMFIL	-	DMPDRV							
NAMGEO	-	ZIJDRV	ZGDRV	TSKXQT	GETGEO	GETFLD	FLDDRV	ESPARM	
NAMGFH	-	FLDDRV							
NAMHOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPTS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC	EXCDRV				
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	ZIJDRV	TSKXQT	RESTR	PUTSEG	GETSEG	GETGEO	BLKDAT	
NAMSHD	-	ZIJDRV							

GTD Module

INDEX

***** SUPER INDEX *****

NAMSRC -	FLDDRV	EXCDRV	ESPARM						
NAMSUB -	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN	
	SYCHK	SYMUPD	SYMDEF	STARTUP	STATOT	STATIN	STATFN	SOURCE	
	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	
	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT	RESTR	REFPLA	
	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV	
	PRTKJ	POSTIP	OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	
	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	
	GETFLO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	
	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	CNVST	CLSFIL	ASSIGN	
NAMSYM -	SYMUPD	GETARG	DMPDRV						
NAMTSK -	TSKXQT	POSTIP	BLKDAT						
NAMYRS -	ZIJDRV	EXCDRV							
NAMZIJ -	ZIJDRV								
NANDB -	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF	
	DPLRCL								
NARGMX -	BLKDAT								
NARGTB -	TSKXQT	RESTR	POSTIP	ESPARM	BLKDAT				
NARITH -	BLKDAT								
NBIT -	EXCDRV								
NBITA -	FLDDRV								
NBITS -	IBITCK								
NBITWD -	RWFILS	PUTSYM	GETSYM	FNDREC					
NBLANK -	BLKDAT								
NBS -	CONVRT								
NBUFS -	MOVFIL								
NBYTES -	CONVRT	BLKDAT							
NBYTSZ -	ZIJDRV	FLDDRV	CONVRT	BLKDAT					
NC -	ZIJDRV	REFCAP	GEOMC	FLDDRV	EXCDRV	ENDIF	DFPTCL	CAPINT	
NCALL -	ZGDRV								
NCARD -	LUSTAT	BLKDAT							
NCARDS -	BLKDAT								
NCC -	ENDIF	DFPTCL							
NCCLAS -	BLKDAT								
NCBNDX -	POSTIP								
NCELLS -	EXCDRV								
NCHAR -	CONVRT	BLKDAT							
NCIX -	ZGDRV	SEJCON							
NCIZ -	ZGDRV	SEJCON							
NCH -	JNCSUM								
NCODE -	GETKWD	BLKDAT							
NCODES -	ZIJDRV	TSKXQT	RESTR	PUTKVV	PRTKJ	POSTIP	GETKVV	GETKWD	
	GETGEO	FLDDRV	EXCDRV	ESPARM	BLKDAT				
NCOL -	ZIJDRV	ZGDRV	JNCSUM	BLKDAT					
NCOLE -	EXCDRV								
NCOLS -	ZIJDRV	SYMDEF	FLDDRV	EXCDRV					
NCOL1 -	SYMDEF								
NCOL2 -	DMPDRV								
NCOM -	BLKDAT								
NCOMCH -	BLKDAT								

GTD Module

I N D E X

***** SUPER INDEX *****

NCOMMA	-	BLKDAT							
NCOMSZ	-	RWCONS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCORN	-	GTDDRV	GETGEO						
NCOX	-	ZGTDRV	SEJCON						
MCOZ	-	ZGTDRV	SEJCON						
NCP	-	JNCSUM							
NDATBL	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS	RESTR	PUTSYM
		POSTIP	GETSYM	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		DMPDRV	BLKDAT						
NDATMX	-	SYMDEF	BLKDAT						
NDEBUF	-	BLKDAT							
NDEBUG	-	RESTR							
NJF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL
		BLKDAT							
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDTASK	-	BLKDAT							
NDX	-	ZIJDRV	TSKXQT	PUTKVV	GETKVV	FLDDRV			
NDXARG	-	ZIJDRV	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV		
NDXBLK	-	SEJCON	RESTR	PUTSEG	GTDDRV	GETSEG	GETGEO		
NDXINR	-	FLDDRV							
NDXKWC	-	EXCDRV	ESPARM						
NDXKWD	-	PUTKVV	GETKVV	EXCDRV	ESPARM				
NDXKWS	-	EXCDRV	ESPARM						
NDXKYW	-	DMPDRV							
NDXMID	-	FLDDRV							
NDXNAM	-	POSTIP							
NDXNCD	-	RESTR							
NDXOUT	-	FLDDRV							
NDXTSK	-	POSTIP							
NE	-	EXCDRV							
NEED	-	ZIJDRV	SYMDEF	FLDDRV					
NEL	-	ZIJDRV	FLDDRV						
NELRW	-	ZIJDRV	FLDDRV						
NELTTL	-	ZIJDRV	FLDDRV						
NENDCO	-	BLKDAT							
NEOFLG	-	BLKDAT							
NERCL1	-	BLKDAT							
NERCOD	-	GETKWD	BLKDAT						
NERCON	-	BLKDAT							
NERDPN	-	BLKDAT							
NEREOF	-	BLKDAT							
NEREXD	-	BLKDAT							
NEREXF	-	BLKDAT							
NEREXP	-	BLKDAT							

GTD Module

I N D E X

***** SUPER INDEX *****

NERINT -	BLKDAT							
NERNAM -	BLKDAT							
NEWDAT -	SYMUPD							
NEWNAM -	SYMUPD							
NEWSYM -	SYMDEF							
NFD -	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT	REFPLA
	REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	ENDIF	DPLRPL
	DPLRCL	DIFPLT	DFPTWD	DFPTCL				
NFILE -	RWFILS							
NFILES -	SYMDEF	RWCOMS	PUTKWV	GETKWV	ERROR	BLKDAT		
NFINCD -	RESTRT	BLKDAT						
NFN -	GEOM							
NFRAC -	BLKDAT							
NFRQ -	ESPARM							
NG -	FLDDRV							
NGEOM -	ESPARM							
NI -	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	GTDDRV	GEOMC
	GEOM							
NILEGL -	BLKDAT							
NINC -	FLDDRV							
NINT -	BLKDAT							
NITEMS -	STATFN	SHELL						
NJ -	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	GTDDRV	GEOMC
	GEOM							
NLETR -	BLKDAT							
NLOOPS -	TSKXQT	POSTIP	BLKDAT					
NM -	ROMBNT							
NMARGS -	POSTIP							
NMLITN -	POSTIP							
NMLOOP -	POSTIP							
NMNAMS -	BLKDAT							
NMSPTR -	BLKDAT							
NMSYMB -	POSTIP							
NMTASK -	POSTIP							
NMTIMS -	BLKDAT							
NMWRDS -	RWCOMS							
NOBS -	FLDDRV							
NOEND -	BLKDAT							
NOGOF6 -	TSKXQT	RWCOMS	MAIN	FLDDRV	DMPDRV	BLKDAT		
NOP -	TSKXQT	ROTATE						
NOPCOD -	ZIJDRV	TSKXQT	RESTRT	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV
	BLKDAT							
NOPNAM -	CONVRT							
NOSTAT -	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK
	TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN
	STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
	RFPTCL	RFDFT	RESTRT	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLVRT
	OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK

GTD Module

I N D E X

***** SUPER INDEX *****

	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD	GETARG
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
	DPLRCL	DMPDRV	DIFPLT	DFRFPT	CYAXIS	CONVRT	CLSFIL	BTAN2
NOTASK	-	BLKDAT						
NP	-	ZIJDRV	PUTSYM					
NPAREN	-	BLKDAT						
NPARGL	-	POSTIP						
NPATCH	-	ZIJDRV	GTDDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT	
NPASV	-	SYMDEF						
NPDATA	-	SYMUPD	SYMDEF	STRUP	RWFILS	RESTR	PUTSYM	POSTIP
		GETARG	FNDREC	FLODRV	DMPDRV			GETSYM
NPEAR	-	BLKDAT						
NPEDPC	-	BLKDAT						
NPEDPL	-	BLKDAT						
NPEDRM	-	BLKDAT						
NPEIFO	-	BLKDAT						
NPEKWD	-	BLKDAT						
NPELAB	-	BLKDAT						
NPELIT	-	BLKDAT						
NPELNL	-	BLKDAT						
NPELOO	-	BLKDAT						
NPELOP	-	BLKDAT						
NPELST	-	BLKDAT						
NPENQI	-	BLKDAT						
NPENOM	-	BLKDAT						
NPENRG	-	BLKDAT						
NPENTK	-	BLKDAT						
NPENUM	-	BLKDAT						
NPERGE	-	BLKDAT						
NPEROD	-	BLKDAT						
NPESCN	-	BLKDAT						
NPESEX	-	BLKDAT						
NPESYM	-	BLKDAT						
NPETSK	-	BLKDAT						
NPLITM	-	POSTIP						
NPLOOP	-	POSTIP						
NPRBUF	-	RWFILS	NOVFIL					
NPRDEF	-	BLKDAT						
NPRELM	-	RWFILS	PUTSYM	GETSYM	FNDREC			
NPRFPT	-	FLDDRV						
NPRPRT	-	PUTSYM	GETSYM	FNDREC				
NPRPT	-	BLKDAT						
NPRREC	-	TSKXQT	RWFILS	PUTSYM	GETSYM	FNDREC		
NPRSEG	-	TSKXQT	PUTSEG	BLKDAT				
NPRSER	-	BLKDAT						
NPRSYM	-	ZIJDRV						
NPSAV	-	DMPDRV						
NPTASK	-	TSKXQT	RESTR	POSTIP				
NPTBUF	-	BLKDAT						

GTD Module

INDEX

***** SUPER INDEX *****

NU	-	GETFLD	FLDDRV						
NUM	-	GTDDRV							
NUMARG	-	ZZXDUM	TSKXQT	SET	FLDDRV	DMPDRV	BLKDAT		
NUMBAS	-	ZIJDRV							
NUMBLK	-	PUTSEG	GETSEG						
NUMCHK	-	WRTCHK	RESTRT	BLKDAT					
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCYL	-	GTDDRV	GETGEO	BLKDAT					
NUMECP	-	GTDDRV	GETGEO	BLKDAT					
NUMGTD	-	ZIJDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT			
NUMLFT	-	RDEFIL							
NUMPLT	-	GTDDRV	GETGEO	BLKDAT					
NUMPTS	-	BLKDAT							
NUMREC	-	RWFILS	RESTRT						
NUMROW	-	PUTSYM	GETSYM	FNDREC					
NUMSB	-	STATOT	STATIN	ASSIGN					
NUMSEG	-	SEJCON	PUTSEG	GTDDRV	GETGEO	BLKDAT			
NUMSUB	-	ZZXDUM	ZIJDRV	ZGTRV	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN
		SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SOURCP
		SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS
		RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT	RESTRT	REFPLA
		REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV
		PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD
		IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD
		GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENOIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	CYAXIS	ASSIGN			
NUMSYM	-	GETARG							
NUMTSK	-	TSKXQT	OPNFIL	ESPARM					
NUMWIP	-	BLKDAT							
NUMWRD	-	SYMDEF	ROMBNT						
NUMYRS	-	EXCDRV							
NVAL	-	TSKXQT	STRUP	RWFILS	RESTRT	PUTKVV	POSTIP	MAIN	GETKVV
		GETKWD	DMPDRV	BLKDAT					
NVALMX	-	GETKWD	BLKDAT						
NV	-	CONVRT							
NVDSIZ	-	CONVRT	BLKDAT						
NVIRE	-	ZIJDRV	ZGTRV	SEJCON	GTDDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT
NWORD	-	CONVRT							
NWORDS	-	WRTFIL	RDEFIL						
NX	-	ROMBNT							
NXTARG	-	POSTIP	FLDDRV	DMPDRV					
NXTSYM	-	SYMDEF	BLKDAT						
NXTTSK	-	TSKXQT							
NXTWRD	-	CONVRT							
NY	-	ZIJDRV	EXCDRV						
NYSYM	-	ZIJDRV							
NZ	-	ZIJDRV							
NO	-	GETSYM							
NI	-	ZIJDRV	PUTSYM						

GTD Module

I N D E X

***** SUPER INDEX *****

N2	-	PUTSYM							
OPNFIL	-	WRTCHK	SYNDEF	STATFN	RWFILS	PUTSYM			
ORIGIN	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	GTDDRV	ENDIF	
P	-	XYZFLD	DFPTWD	DFPTCL					
PARTB	-	RWCOMS							
PB	-	IMDIR	IMCDIR						
PCNT	-	STATFN							
PD	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PDCR	-	GEOMPC	DFRFPT						
PFUN	-	SCTCYL	SCLRPL	RPLSCL					
PH	-	TPHFLD	SOURCE	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	INCFLD
		ENOIF	DW	DPLRPL	DPLRCL	DIFPLT			
PHCN	-	RFDFPT							
PHCR	-	RFDFPT	GEOM	DFRFPT					
PHE	-	RFPTCL							
PHEDR	-	ENDIF							
PHEP	-	RFPTCL							
PHER	-	ENDIF							
PHEX	-	ENDIF							
PHEY	-	ENDIF							
PHEZ	-	ENDIF							
PHI	-	ROTATE	GETFLD	EXCDRV	ESPARM				
PHICR	-	RCLDPL							
PHIR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	REFPLA
		REFCYL	REFBP	RCLRPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
PHISV	-	ROTATE							
PHJR	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
PHJR1	-	SCLRPL							
PHJR2	-	SCLRPL							
PHO	-	SOURCP	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
PHOR	-	RFPTCL	RFDFPT	DFRFPT					
PHORB	-	RFPTCL							
PHORBP	-	RFPTCL							
PHORP	-	RFPTCL	RFDFPT	DFRFPT					
PHP	-	DW							
PHPR	-	RFPTCL	DZCOEF						
PHR	-	DZCOEF							
PHS	-	SOURCE							
PHSMAG	-	FLDTRV							
PHSPR	-	RFPTCL	RFDFPT	DFRFPT					
PHSR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	RFDFPT
		REFPLA	REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	NFD	INCFLD
		GTDDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT	DFRFPT	DFPTWD	CYLINT
PHSRM	-	DFPTCL							
PHSR1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
PHSR2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
PHWAR	-	GEOM							
PHWR	-	RFDFPT	GEOMPC	DFRFPT					
PI	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	RFPTCL
		RFDFPT	REFCYL	RCLRPL	RCLDPL	2FUN	PLAINT	PFUN	GTDDRV

GTD Module

I N D E X

***** SUPER INDEX *****

	GEOM	FRNELS	FKARG	FFCT	ENDIF	DZCOEF	DPLRPL	DPLRCL
	DPI	DIFPLT	DICOEF	DFRPT	BTANZ	BLDATA	BEXP	
PJ	PFUN							
PLAINT	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
	REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	GEOM	ENDIF	DPLRPL
	DPLRCL	DIFPLT						
PMR	DZCOEF							
PN	IMDIR	IMCDIR						
POLYRT	RFDFIN	DFPTCL						
POSTIP	RESTR							
PP	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PPBO	SOURCP							
PPHO	SOURCP							
PPR	DZCOEF							
PR	PFUN							
PRTKJ	ZIJDRV	FLDDRV	EXCDRV					
PS	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSD	RPLDPL	DPLRPL	DIFPLT					
PSI	ROTATE							
PSISV	ROTATE							
PSO	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSOD	RPLDPL	DPLRPL	DIFPLT					
PSOR	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSR	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PT	IMDIR	IMCDIR						
PTIME	TICHEK	STATOT	STATIN					
PTTBLE	BLKDAT							
PUTKWV	DMPDRV							
PUTSYM	ZIJDRV	WRCHK	STRUP	RWFILS	RESTR	PUTSEG	GETSEG	FLDDRV
	EXCDRV	DMPDRV						
PV	RFDFPT							
PWSRC	GTDDRV							
PWSRCO	GTDDRV							
Q	PFUN	POLYRT	PFUN	FCT	DFPTCL			
QC	DFPTCL							
QD	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
QDM	RCLDPL							
QFUN	SCTCYL	SCLRPL	RPLSCL					
QI	RPLDPL	RCLDPL	QFUN	DPLRPL	DPLRCL	DIFPLT		
QR	QFUN							
QRH	RCLDPL							
QR11	RCLDPL							
QR12	RCLDPL							
QR22	RCLDPL							
R	ZGDRV	SOURCE	PUTSEG	POLYRT	GETFLD	EXCDRV	ESPARM	ENDIF
	DW	DPI	DMPDRV	DICOEF	DFPTCL			
RAD	BLKDAT							
RADCV	SCTCYL	SCLRPL	RPLSCL					
RAG	DPI	DICOEF						
RAPPRX	ZIJDRV	ZGDRV						

GTD Module

INDEX

***** SUPER INDEX *****

RC	-	GEOMPC	DFPTCL						
RCLDPL	-	GTDDRV							
RCLRPL	-	SCLRPL							
RCS	-	SOURCE							
RD	-	PLAINT							
RDEFIL	-	STRTUP	RWFILS	RWCOMS	RESTRT	PUTSYM	MOVFIL	GETSYM	
RDODG	-	FLDDRV							
RDX	-	SOURCP	SOURCE						
RDY	-	SOURCP	SOURCE						
RE	-	GEOMPC	DFPTWD						
READ	-	RWCOMS	RDEFIL	LUSTAT					
REAL	-	ZGTDRV	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	RDFDFIN	REFPLA
		REFCAP	RCLDPL	POLYRT	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT
		DFPTCL	BEXP	BABS					
		SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	RCLRPL	DPLRPL
REFBP	-	GTDDRV							
REFCAP	-	SCTCYL							
REFCYL	-	ZIJDRV	ZGTDRV	STRTUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
REFH	-	INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
		GTDDRV							
REFPLA	-	ZIJDRV	ZGTDRV	STRTUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
REFV	-	INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
		ZIXDUM	ZIJDRV	ZGTDRV	XYZFLD	WRTFIL	WRCHK	WLKBCK	TSKXQT
RETURN	-	TRCEBK	TPNFLD	TICHEK	TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF
		STATUP	STATOT	STATIN	STATFN	SOURCP	SOURCE	SMAGNF	SHELL
		SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL
		RPLRCL	RPLDPL	ROTRAN	ROTATE	ROMBNT	RFPTCL	RDFDPT	RDFDFIN
		RESTRT	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL	RCLRPL	RCLDPL
		RADCY	QFUN	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		PLAINT	PFUN	OPNFIL	NTGRAN	NFD	NANDB	MOVFIL	LUSTAT
		JNCSUM	INTPLT	INCFLD	IMDIR	INCDIR	IMAGE	IBITCK	GTDDRV
		GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG	GEOMPC
		GEOMC	GEOM	FUNI	FRNELS	FNDRET	FLDDRV	FKY	FKARG
		FFCT	FCT	EXCDRV	ESPARM	ERROR	ENDIF	DZCOEF	DW
		DQG32	DPINFW	DPLRPL	DPLRCL	DPI	DMPDRV	DIFPLT	DICOEF
		DFRFPT	DFPTWD	DFPTCL	CYLINT	CYAXIS	CONVRT	CNVST	CLSFIL
		CAPINT	BTAN2	BLOG10	BEXP	BASS	ASSIGN		
RDFDFIN	-	RPLRCL	REFCYL	RCLRPL	GEOMPC				
RDFDPT	-	RCLDPL	DPLRCL						
RFPTCL	-	RPLRCL	REFCYL	RCLRPL					
RG	-	SCTCYL	REFCYL	RCLDPL	RADCY	ENDIF	DPLRCL		
RGAE	-	ENDIF							
RGF	-	SCTCYL	SCLRPL	RPLSCL					
RGI	-	SCTCYL	SCLRPL	RPLSCL					
RGII	-	RPLSCL	RPLRCL						
RGJ	-	SCLRPL	RCLRPL						
RGT	-	RADCY							
RHA	-	DPLRCL							
RHB	-	DPLRCL							
RHIE	-	RCLDPL							

GTD Module

I N D E X

***** SUPER INDEX *****

RH11	-	RCLDPL	DPLRCL						
RH12	-	RCLDPL	DPLRCL						
RHK	-	SOURCE	NTGRAN						
RHO	-	SOURCE	CAPINT						
RHOE	-	TANG	CYLINT						
RHOS	-	TANG	CYLINT						
RHOT	-	CAPINT							
RHO1	-	SCTCYL	REFCYL	RCLDPL	ENDIF	DPLRCL			
RHO11	-	RPLSCL	RPLRCL						
RHO1J	-	SCLRPL	RCLRPL						
RHO2	-	SOURCE	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRCL	
RHS	-	SCTCYL	SCLRPL	RPLSCL					
RH12	-	DPLRCL							
RITEMS	-	STATFN							
RJ	-	POLYRT							
RJP	-	POLYRT							
RJ1	-	SOURCE							
RK	-	SOURCE	NTGRAN						
RKB	-	SOURCE							
RKB2	-	SOURCE	NTGRAN						
RK2	-	NTGRAN							
RH	-	DPLRPL	DIFPLT	DFPTCL					
RHAG	-	RDFDPT							
ROMBNT	-	SOURCE							
ROOT	-	DFPTCL							
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
ROTATE	-	CYAXIS							
ROTRAN	-	GTDDRV							
ROX	-	CYAXIS							
ROY	-	CYAXIS							
ROZ	-	CYAXIS							
RPD	-	ENDIF	DPI	DICOEF	DFPTCL	3LDATA			
RPE	-	DFPTWD							
RPLDPL	-	GTDDRV							
RPLRCL	-	RPLSCL							
RPLRPL	-	GTDDRV							
RPLSCL	-	GTDDRV							
RRK2	-	NTGRAN							
RRK3	-	NTGRAN							
RRN	-	ENDIF							
RSO	-	ZGDRV							
RSTART	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
RSTRTA	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT			
RT	-	SCTCYL	SCLRPL	RPLSCL	RDFDIN	RADCY	POLYRT		

GTD Module

I N D E X

***** SUPER INDEX *****

RTINS	-	STATOT	STATIN	BLKDAT						
RTP	-	POLYRT								
RWCOMS	-	WRTCHK	STRUP	RESTR						
RWFILS	-	WRTCHK	STRUP	RESTR						
RX	-	SOURCE	ROTATE	ROMBNT	DPLRPL	DIFPLT	CYAXIS			
RY	-	SOURCE	ROTATE	DPLRPL	DIFPLT	DFPTWD	CYAXIS			
RZ	-	SOURCE	ROTATE	DPLRPL	DIFPLT	CYAXIS				
R1K	-	SOURCE								
R1KS	-	SOURCE								
R2	-	SOURCE								
R2K	-	SOURCE								
R2KS	-	SOURCE								
R3	-	SOURCE								
R5	-	SOURCE								
S	-	ZGDRV	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL	RDFIN	
		REFCYL	RCLRPL	FRNELS	FKY	FFCT	DPLRCL	DPI	DICOEF	
		DFPTWD	DFPTCL							
SA	-	RDFPT								
SABI	-	ZGDRV	SEJCON							
SABJ	-	ZGDRV	SEJCON							
SALPI	-	ZGDRV	SEJCON							
SALPJ	-	ZGDRV	SEJCON							
SAM	-	RDFPT								
SAS	-	SCTCYL	SCLRPL	RPLSCL	RADCV	GTDDRV	FCT			
SASP	-	SCLRPL	RADCV	GTDDRV						
SB	-	RDFPT								
SBO	-	RPLDPL	RCLDPL	ENDIF	DZCOEF	DW	DPLRPL	DPLRCL	DPI	
		DIFPLT	DICOEF							
SCALE	-	BLKDAT								
SCALES	-	BLKDAT								
SCDK2	-	SOURCP								
SCLRPL	-	GTDDRV								
SCNPR	-	RWCOMS								
SCP	-	SCTCYL	SCLRPL	RPLSCL						
SCTCYL	-	GTDDRV								
SCW	-	ENDIF								
SDEL	-	FFCT								
SE	-	DFPTWD								
SEGNAM	-	EXCDRV								
SEGTBL	-	ZIJDV	ZGDRV	WRTCHK	TSKXQT	STRUP	SEJCON	RWFILS	RESTR	
		PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT		
SEJCON	-	ZGDRV								
SERCS	-	DFPTWD								
SET	-	TSKXQT								
SFR	-	FFCT								
SGI	-	ROMBNT								
SGMNT	-	RWCOMS								
SGN	-	SCTCYL	SCLRPL	RPLSCL	DPI	DICOEF				
SGR	-	ROMBNT								
SHAD	-	RDFPT	DFRPT							

GTD Module

I N D E X

***** SUPER INDEX *****

SHADC	-	RDFDPT	DFRFPT						
SHELL	-	STATFN							
SI	-	NTGRAN							
SIGMA	-	PUTKWV	GETKWV	BLKDAT					
SIGN	-	SOURCP	SCTCYL	SCLRPL	RPLSCL	PLAINT	GEOMPC	DPI	DICOEF
		DFRFPT							
SILK	-	INTPLT							
SIN	-	XYZFLD	TPNFLD	TANG	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLRCL	RPLDPL	ROTATE	RFPTCL	RDFDPT	RDFDPT	REFPLA
		REFCYL	REFBP	RCLRPL	RCLDPL	RADCV	NTGRAN	NANDB	INTPLT
		GTDDR	GETFLD	GEOMPC	FUNI	FRNELS	FKARG	FCT	ESPARM
		ENDIF	DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFPT
		DFPTCL	CYLINT	CAPINT					
SINA	-	SCTCYL	SCLRPL	RPLSCL					
SINETA	-	ESPARM							
SINK	-	INTPLT							
SINL	-	INTPLT							
SINP	-	ESPARM							
SINT	-	SOURCE	ESPARM						
SIPX	-	RFPTCL							
SIPY	-	RFPTCL							
SIX	-	RFPTCL	RDFDPT						
SIY	-	RFPTCL	RDFDPT						
SJ1	-	SEJCON							
SJ2	-	SEJCON							
SKT	-	SOURCE							
SKWIG	-	SCTCYL	SCLRPL	RPLSCL	FKARG				
SM	-	RDFDPT	RDFDPT	DFRFPT					
SHA	-	RDFDPT							
SHAG	-	SCTCYL	REFCYL	RCLDPL	DPLRCL				
SHAGI	-	RPLSCL	RPLRCL						
SHAGJ	-	SCLRPL	RCLRPL						
SHAGNF	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDR	ENDIF	DPLRPL	DPLRCL
		DIFPLT							
SW0	-	RDFDPT							
SHSTR	-	RWCOMS							
SN	-	SOURCP	FCT						
SNA	-	FCT							
SNAS	-	SCTCYL	SCLRPL	RPLSCL					
SNC	-	SEJCON	REFCAP	GTDDR	GEOMC	ENDIF	DFPTCL	CAPINT	
SND	-	RDFDPT							
SNDK2	-	SOURCP							
SNF	-	SHAGNF	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA
		REFCYL	REFCAP	RCLDPL	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT
SNFF	-	SCLRPL	RCLRPL						
SNI	-	RDFDPT							
SNH	-	RDFDPT	DFRFPT						
SNP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
SNPX	-	RFPTCL	RDFDPT	DFRFPT					

GTD Module

I N D E X

***** SUPER INDEX *****

SNPY	-	RFPTCL	RFDFTP	DFRFP					
SNV	-	RPLRCL	RFPTCL	RFDFTP	RFDFFIN	REFCYL	RCLRPL	DFRFP	
SNX	-	RPLRCL	RFPTCL	RFDFTP	RFDFFIN	REFCYL	RCLRPL	GEOMPC	DFRFP
SNY	-	RPLRCL	RFPTCL	RFDFTP	RFDFFIN	REFCYL	RCLRPL	GEOMPC	DFRFP
SNZ	-	FCT							
SO	-	DPTNFW							
SORT	-	ZIJDRV	ZGDRV	SET	SEJCON	PUTSEG	PRTKJ	GTDRV	GETSEG
		GETGEO	FLDRV	EXCDRV	ESPARM	BLKDAT			
SOURCE	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	INCFD	ENDIF	DPLRPL	DPLRCL	DIFPLT
SOURCEP	-	RPLDPL	DPLRPL	DIFPLT					
SP	-	XYZFLD	RPLDPL	ROTATE	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFPTWD
SPCS	-	RFDFTP	DFRFP						
SPDC	-	GEOMPC	DFRFP						
SPE	-	ENDIF	DFPTWD						
SPERCS	-	DFPTWD							
SPH	-	SOURCE	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
SPHI	-	RPLRPL	RPLRCL	REFPLA					
SPHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
SPHO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
SPHP	-	SOURCEP	SOURCE						
SPHS	-	SOURCE							
SPL	-	DFRFP							
SPM	-	ENDIF							
SPO	-	RFDFTP							
SPOP	-	RFDFTP							
SPP	-	RCLDPL	RFPTCL	DPLRPL	DIFPLT				
SPS	-	SCTCYL	RPLSCL	RPLRCL	RFPTCL	REFCYL	REFBP	GTDRV	DPLRCL
		CYLINT							
SPS1	-	RPLRCL	REFCYL						
SPS2	-	RPLRCL	REFCYL						
SPX	-	ENDIF							
SPY	-	ENDIF							
SPZ	-	ENDIF							
SP1	-	ZGDRV	SOURCEP	SOURCE	GTDRV				
SP2	-	ZGDRV	SOURCEP	SOURCE	GTDRV				
SQR	-	DICOEF							
SQRH	-	RPLRCL	REFCYL	RCLRPL					
SQRT	-	ZGDRV	TANG	SOURCEP	SOURCE	SMAGNF	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLRCL	RPLDPL	ROMBHT	RFP	RFDFTP	RFDFFIN	REFPLA
		REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	RADCY	QFUN	PLAINT
		PFUN	NTGRAN	NFD	NANDB	INCFD	GTDRV	GEOMC	GEOM
		FUNI	FRNELS	FKY	FFCT	FCT	ESPARM	ENDIF	DPTNFW
		DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFP	DFPTWD	DFPTCL
		CYLINT	CAPINT						
SQTP	-	SCTCYL	SCLRPL	RPLSCL					
SR	-	POLYRT							
SRAY	-	WRTCHK							
SRK	-	NTGRAN							
SR1	-	SOURCE							

GTD Module

INDEX

***** SUPER INDEX *****

SR1R	-	SOURCE							
SR1RR	-	SOURCE							
SR2	-	SOURCE							
SR2R	-	SOURCE							
SR2RR	-	SOURCE							
SS	-	SCTCYL	SCLRPL	RPLSCL	ROTATE	ROMBNT	DPINFW		
SSBO	-	ENDIF							
SSM	-	DFRFPT							
SSPL	-	DFRFPT							
SSP1	-	GTDDRV							
SSP2	-	GTDDRV							
SSS	-	SCTCYL	SCLRPL	RPLSCL					
SST	-	SOURCE							
SST2	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF			
SSW	-	ENDIF							
SSX	-	DFPTCL							
SSY	-	DFPTCL							
SSZ	-	DFPTCL							
SS1	-	SCLRPL							
ST	-	XYZFLD	ROTATE						
STA	-	SCTCYL	SCLRPL	RPLSCL					
START	-	POLYRT							
STATFN	-	MAIN	ERROR						
STATIN	-	ZZXDUM	ZIJDRV	ZGTRDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCSUM
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
STATOT	-	ZZXDUM	ZIJDRV	ZGTRDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCSUM
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
STCS	-	RDFRPT	DFRFPT						
STDC	-	DFRFPT							
STE	-	ENDIF							
STH	-	SOURCE							
STH1	-	RPLRPL	RPLRCL	REFPLA					
STHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
STHJ1	-	SCLRPL							
STHJ2	-	SCLRPL							
STHP	-	SOURCP	SOURCE						
STHR	-	RPLDPL	DPLRPL	DIFPLT					
STHS	-	SOURCE	SCTCYL	RPLSCL	RPLRCL	REFCYL	GTDDRV		

GTD Module

INDEX

***** SUPER INDEX *****

STHS1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
STHS2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
STO	-	RDFDPT							
STOP	-	ZIJDRV	ZGTRV	JRTFIL	WLKCK	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRUP	SEJCON	RWFILS	RDFDPT	RESTR	RDEFIL	PUTSYM	PUTKVV
		OPNFIL	MOVFIL	MAIN	GETSYM	GETKVV	GETFLD	GETARG	FNDREC
		FLDDRV	EXCDRV	ESPARM	DMPDRV				
STP	-	RFPCTL	RDFDPT	DFRPT					
STRUP	-	MAIN							
STS	-	REFBP							
SUBOPR	-	DMPDRV							
SUM	-	GEOM							
SUMT	-	GEOM							
SV	-	TANG	ENDIF						
SVCV	-	GEOMPC							
SVE	-	TANG	CYLINT	CAPINT					
SW	-	RPLRCL	REFCYL	RCLRPL	RCLDPL				
SX	-	TANG	DFPTWD						
SXN	-	RPLRCL	REFCYL	RCLRPL					
SXQ	-	DFPTCL							
SXY	-	SCTCYL	SCLRPL	RPLSCL					
SY	-	TANG							
SYMDEF	-	ZIJDRV	TSKXQT	PUTSYM	FLDDRV	EXCDRV	DMPDRV		
SYHFLG	-	ZIJDRV							
SYMUPD	-	ZIJDRV	TSKXQT	PUTSEG	FLDDRV	EXCDRV			
SYN	-	RPLRCL	REFCYL	RCLRPL					
SYQ	-	DFPTCL							
SYSCHK	-	ZIJDRV	TSKXQT	FLDDRV					
SYSFL	-	RWCOMS							
SYSLST	-	ZIJDRV	ZGTRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	OPNFIL
		MAIN	GETSYM	GETKVV	FLDDRV	ERROR	BLKDAT	ASSIGN	
SYSRTN	-	MAIN							
SZN	-	RPLRCL	REFCYL	RCLRPL					
SZO	-	DFPTCL							
S1	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL				
S2	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL				
T	-	XYZFLD	WRTCHK	TICHEK	DFPTCL				
TAGNAM	-	EXCDRV							
TAN	-	SCTCYL	SCLRPL	RPLSCL	DZCOEF	DFPTWD			
TANG	-	SCTCYL	SCLRPL	RPLSCL	GEOMC	GEOMC	CYLINT		
TAN1	-	DZCOEF							
TAN2	-	DZCOEF							
TCI	-	SOURCE							
TCR	-	SOURCE							
TDCR	-	GEOMPC	DFRPT						
TEMP	-	ZIJDRV	WRTCHK	SYMDEF	RWFILS	RWCOMS	RESTR	PUTSYM	MOVFIL
		MAIN	FLDDRV	EXCDRV	DPLRCL	DMPDRV	BLKDAT		
TERM	-	SOURCE	RPLDPL	DPLRPL	DIFPLT				
TEST	-	POLYRT							

GTD Module

I N D E X

***** SUPER INDEX *****

TE11	-	ROMBNT							
TE1R	-	ROMBNT							
TE21	-	ROM3NT							
TE2R	-	ROMBNT							
TH	-	TPNFLD							
THCN	-	RFDFTP							
THCR	-	RFDFTP	DFRFTP						
THEDR	-	ENDIF							
THER	-	ENDIF							
THETA	-	ROTATE	GETFLD	EXCDRV	ESPARM				
THEX	-	ENDIF							
THEY	-	ENDIF							
THEZ	-	ENDIF							
THICR	-	RCLDPL							
THIR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFBP	RCLRPL	ENDIF	DPLRPL	DPLRCL	DIFPLT		
THJR	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
THJR1	-	SCLRPL							
THJR2	-	SCLRPL							
THOR	-	RFDFTP	DFRFTP						
THPR	-	RPLDPL	DPLRPL	DIFPLT					
THR	-	RPLDPL	DPLRPL	DIFPLT					
THSR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFTP	REFPLA
		REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	NFD	INCFLD	
		ENDIF	DPLRPL	DPLRCL	DIFPLT	DFRFTP	DFPTWD	GTDDRV	
THSRM	-	DFPTCL							
THSR1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
THSR2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
THTN	-	GTDDRV							
THTNR	-	GTDDRV							
THTP	-	GTDDRV							
THTPR	-	GTDDRV							
THTSV	-	ROTATE							
TH11	-	RCLDPL	DPLRCL						
TH12	-	RCLDPL	DPLRCL						
TH21	-	RCLDPL	DPLRCL						
TH22	-	RCLDPL	DPLRCL						
TICHEK	-	ZGTRV	WRTCHK	TSKXQT	SYSCHK				
TINCHK	-	SYSCHK							
TIME	-	SYSRTH	MAIN						
TIMIN	-	STATIN							
TIMOUT	-	STATOT							
TIMTGO	-	ZGTRV	SYSCHK	PUTKWV	GETKWV	BLKDAT			
TLAST	-	TICHEK	SYSCHK						
TLEFT	-	ZGTRV							
TPPBUF	-	PUTSYM	GETSYM						
TNOW	-	ZGTRV	TSKXQT	SYSCHK					
TOP	-	GEOM	ENDIF	DPI	DICOEF	CYLINT	BLDATA		
TOTAL	-	STATFN							
TPBO	-	SOURCP							

GTD Module

INDEX

***** SUPER INDEX *****

TPCEPI	-	BLKDAT							
TPHO	-	SOURCP							
TPI	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL
		RFPTCL	RFDFPT	REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD
		GEOM	FKY	FFCT	ENDIF	D7COEF	DPLRPL	DPLRCL	DPI
		DIFPLT	DICOEF	DFRPT	BLDATA				
TPNFLD	-	SCLRPL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRPL
		DPLRCL	DIFPLT						
TPP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
TR	-	GTDDRV							
TRACE	-	MAIN							
TRACST	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYMUPD	SYNDEF	STRUP	STATOT	STATIN
		STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLOPL	ROTATE	ROMBNT
		RFPTCL	RFDFPT	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		OPNFIL	NTGRAN	MOVFI	MAIN	JNC SUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DFRPT	CYAXIS	CONVRT	CLSFIL	BTAN2
		BLKDAT	ASSIGN						
TRAN	-	SCTCYL	REFCYL						
TRANI	-	RPLSCL	RPLRCL						
TRANJ	-	SCLRPL	RCLRPL						
TRCEBK	-	WLKBCK	ERROR						
TRO	-	GTDDRV							
TS	-	TICHEK	DPTNFW	DPI	DICOEF				
TSIN	-	DPI	DICOEF						
TSKXQT	-	MAIN							
TSTART	-	ZGTDV							
TSUMS	-	BLKDAT							
TTINS	-	BLKDAT							
TTRM	-	SCTCYL	SCLRPL	RPLSCL					
TWOPI	-	ZIJDRV	PUTKWV	EXCDRV	BLKDAT				
TX	-	GETFLD							
TXF	-	ZGTDV							
TXS	-	ZGTDV	GTDDRV						
TX1	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TX2	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TY	-	GETFLD							
TYF	-	ZGTDV							
TY5	-	ZGTDV	GTDDRV						
TY1	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TY2	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TZ	-	GETFLD							
TZF	-	ZGTDV							
TZ5	-	ZGTDV	GTDDRV						
TOO1	-	ROMBNT							
TOOR	-	ROMBNT							

GTD Module

INDEX

***** SUPER INDEX *****

T01I	-	ROMBNT							
T01R	-	ROMBNT							
T02I	-	ROMBNT							
T02R	-	ROMBNT							
T1	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	ENDIF			
T1I	-	SOURCE							
T1R	-	SOURCE							
T1S	-	SOURCE							
T1X	-	TANG							
T1XI	-	ZGDRV	SEJCON						
T1XJ	-	ZGDRV	SEJCON						
T1Y	-	TANG							
T1YI	-	ZGDRV	SEJCON						
T1YJ	-	ZGDRV	SEJCON						
T1ZI	-	ZGDRV	SEJCON						
T1ZJ	-	ZGDRV	SEJCON						
T10I	-	ROMBNT							
T10R	-	ROMBNT							
T11I	-	ROMBNT							
T11R	-	ROMBNT							
T2	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	ENDIF			
T2I	-	SOURCE							
T2R	-	SOURCE							
T2S	-	SOURCE							
T2X	-	TANG							
T2XI	-	ZGDRV	SEJCON						
T2XJ	-	ZGDRV	SEJCON						
T2Y	-	TANG							
T2YI	-	ZGDRV	SEJCON						
T2YJ	-	ZGDRV	SEJCON						
T2ZI	-	ZGDRV	SEJCON						
T2ZJ	-	ZGDRV	SEJCON						
T20I	-	ROMBNT							
T20R	-	ROMBNT							
T3	-	SOURCE	ENDIF						
T3S	-	SOURCE							
T4	-	SOURCE							
T4S	-	SOURCE							
U	-	FLDRV							
UB	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF
		DPLRCL							
UCD	-	RFDPT	GEOMPC						
UDC	-	GEOMPC	DFRPT						
UIN1	-	RCLDPL							
UIN2	-	RCLDPL							
UIPPX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPPY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPPZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPRX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPRY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			

GTD Module

I N D E X

***** SUPER INDEX *****

UIPRZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UN	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	NANDB
		ENDIF	DPLRCL						
UNEM	-	ENDIF							
UNEX	-	ENDIF							
UNEY	-	ENDIF							
UNEZ	-	ENDIF							
UNPI	-	DPI	DICOEF						
UPDBLK	-	ZIJDRV	ZGDRV	JRTCHK	TSKXQT	STRTUP	SEJCON	RWFILS	RESTR
		PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
UPPI	-	DPI	DICOEF						
UR	-	RFDFTP	RFDFIN	RCLRPL	GEOMPC	DFRFTP			
URO	-	RFDFTP	DFRFTP						
URPPX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
URPPY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
URPPZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UT	-	NANDB							
UXR1X	-	RCLDPL							
UXR1Y	-	RCLDPL							
UXR1Z	-	RCLDPL							
UXR2X	-	RCLDPL							
UXR2Y	-	RCLDPL							
UXR2Z	-	RCLDPL							
U1	-	GETFLD	FLDDRV						
U2	-	GETFLD							
V	-	RPLDPL	RFDFTP	RCLDPL	IMDIR	GEOMPC	GEOM	ENDIF	DPTNFW
		DPLRPL	DPLRCL	DIFPLT	DFRFTP	DFPTWD	DFPTCL		
VAL	-	TSKXQT	STRTUP	RWFILS	RESTR	PUTKWV	POSTIP	MAIN	GETKWV
		GETKWV	DMPDRV	BLKDAT					
VALUKW	-	PUTKWV	GETKWV						
VAX	-	SOURCP	SOURCE	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP
		GEOMC	GEOM						
VAXP	-	RPLRPL							
VC	-	RPLDPL	IMCDIR	GEOMPC	DFPTWD				
VCD	-	RFDFTP	GEOMPC						
VCM	-	RPLDPL	RFDFTP	DPLRPL	DIFPLT	DFPTWD			
VCR	-	GEOMPC							
VCV	-	GEOMPC							
VD	-	SCTCYL	SCLRPL	RPLSCL					
VDC	-	GEOMPC	DFRFTP						
VDCA	-	GEOMPC							
VDCB	-	GEOMPC							
VDP	-	SCTCYL	SCLRPL	RPLSCL					
VE	-	TANG	CYLINT	CAPINT					
VECT	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
VFR	-	FKARG							
Vf	-	SOURCP	SCTCYL	SCLRPL	RPLSCL	RPLDPL	RFDFTP	RFDFIN	REFBP
		RCLDPL	GEOMPC	GEOM	DPLRPL	DPLRCL	DIFPLT	DFRFTP	DFPTWD
VIC	-	RCLDPL	DPLRCL						
VIM	-	RFDFTP	RFDFIN	GEOM	DFRFTP				

GTD Module

I N D E X

***** SUPER INDEX *****

VIMAG	-	IMDIR	IMCDIR						
VIMAX	-	SCTCYL	SCLRPL	RPLSCL					
VIMIN	-	SCTCYL	SCLRPL	RPLSCL					
VIN	-	REFBP							
VIP	-	RPLDPL	DPLRPL	DIFPLT					
VIR	-	FKARG							
VIU	-	RFDFTPT	DFRFTPT						
VIV	-	RFDFTPT	DFRFTPT						
VJ	-	SCTCYL	SCLRPL	RPLSCL	RPLDPL				
VJB	-	SCTCYL	SCLRPL	RPLSCL					
VL	-	SCTCYL	SCLRPL	RPLSCL					
VM	-	RFDFIN	GEOM	CYLINT					
VMAG	-	RPLDPL	GEOMPC	GEOM	DPLRPL	DIFPLT			
VMG	-	RPLDPL	DPLRPL	DIFPLT					
VN	-	SCLRPL	RPLDPL	REFCAP	REFBP	RCLRPL	RCLDPL	PLAINT	IMDIR
		IMAGE	GEOM	DPLRPL	DPLRCL	DIFPLT	DFPTWD		
VNC	-	IMCDIR	GEOMPC	GEOMC					
VNM	-	GEOM							
VNX	-	GEOMPC							
VNY	-	GEOMPC							
VP	-	RPLDPL	RCLDPL	IMDIR	GEOM	DPLRPL	DPLRCL	DIFPLT	DFPTWD
VPHI	-	EXCDRV	ESPARM						
VPL	-	CYLINT							
VQ	-	DFPTCL							
VR	-	RPLRCL	RFPTCL	RFDFTPT	RFDFIN	REFCYL	RCLRPL	RCLDPL	RADCV
		NANDB	GEOMPC	FUNI	ENDIF	DPLRCL	DFRFTPT	DFPTCL	
VRO	-	RFPTCL	RFDFTPT	DFRFTPT					
VSD	-	RFDFTPT	DFRFTPT						
VSDM	-	DFRFTPT							
VSOURC	-	IMDIR	IMCDIR						
VT	-	TANG	SCLRPL	RPLDPL	RCLRPL	DPLRPL	DFPTCL	CYLINT	
VTCN	-	GEOMPC	GEOM						
VTCP	-	GEOMPC	GEOM						
VTD	-	CYLINT							
VTHETA	-	EXCDRV	ESPARM						
VTI	-	RPLSCL	RPLRCL	RFPTCL	GEOMPC				
VTS	-	SCTCYL	SCLRPL	RFPTCL	REFCYL	GEOMC			
VU	-	SCTCYL	SCLRPL	RPLSCL					
VX	-	IMDIR	IMCDIR						
VXI	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	GEOM		
VXIC	-	REFCAP	GEOMC						
VXS	-	SCTCYL	SCLRPL	REFCYL	RCLRPL	RCLDPL	INCFLD	GTDDRV	GEOMC
		GEOM	ENDIF	DPLRPL	DPLRCL	DIFPLT			
VXSS	-	GTDDRV							
VY	-	IMDIR	IMCDIR						
VZ	-	IMDIR	IMCDIR						
V1	-	TANG	GETFLD	FLDDRV					
V2	-	TANG	GETFLD						
WAVLGH	-	ZIJDRV	ZGTDRV	SOURCP	SOURCE	PUTKWV	EXCDRV		
WAVNUM	-	ZIJDRV	PUTKWV	INTPLT	EXCDRV				

GTD Module

INDEX

***** SUPER INDEX *****

XDP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT					
XDPP	-	DPLRPL									
XD1	-	RPLDPL	DPLRPL	DIFPLT							
XE	-	GEOMPC									
XEX	-	ENDIF									
XEY	-	ENDIF									
XEZ	-	ENDIF									
XE1	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL					
XE2	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL					
XF	-	SOURCE	ENDIF								
XFC	-	RFDFT									
XFENDC	-	DFPTCL									
XFLD	-	GTDDRV									
XFM	-	DFPTCL									
XFP	-	RFDFT									
XFRCS	-	ENDIF									
XFY	-	GTDDRV									
XFZ	-	GTDDRV									
XI	-	ZGTDV	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL		
		RFPTCL	REFPLA	QFUN	POLYRT	PFUN	GEOMPC	GEOM			
XIC	-	REFCAP	GEOMC								
XII	-	RPLSCL	IMAGE	GEOMPC	GEOM						
XIJ	-	RPLRPL									
XIN	-	GEOMPC	GEOMC	GEOM							
XIPT	-	RPLSCL									
XIS	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	REFPLA	REFCAP	PLAINT		
		IMAGE	CAPINT								
XJ	-	ZGTDV	SEJCON								
XL	-	DOG32									
XM	-	GEOM									
XMAG	-	RCLDPL									
XNS	-	ZGTDV	GTDDRV								
XO	-	ROTRAN	DPTNFW								
XOB	-	GEOMPC	GEOM								
XOCE	-	DPTNFW									
XOSE	-	DPTNFW									
XP	-	SOURCE	RFDFT	GTDDRV	DFRFT						
XPH	-	SOURCP									
XPHW	-	GEOMPC									
XPM	-	CYLINT									
XPO	-	DPTNFW									
XPS	-	DPTNFW									
XPT	-	SCTCYL	SCLRPL	RPLSCL							
XQ	-	RPLRPL									
XQS	-	REFPLA									
XR	-	SCTCYL	RFDFT	RDFIN	REFCYL	RCLDPL	POLYRT	DPLRCL	DFRFT		
XRF	-	SCTCYL	SCLRPL	RPLSCL							
XRFIN	-	SCTCYL	SCLRPL	RPLSCL							
XRI	-	RPLSCL	RPLRCL								

GTD Module

INDEX

***** SUPER INDEX *****

W1	-	GTDDRV																		
WL	-	GTDDRV																		
WLKBCK	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK											
		SYMUPD	SYNDEF	STARTUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL											
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE											
		ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL											
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCSUM											
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD											
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR											
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS													
WORDS	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK											
		TANG	SYSRTN	SYSCHK	SYMUPD	STRUP	STATOT	STATIN	STATIN											
		STATFN	SOURCE	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL											
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT											
		RFPTCL	RFDFTP	RESTRT	REFPLA	REFCAP	REFBP	REFCYL	RDEFIL											
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT											
		OPNFIL	TGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK											
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG											
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL											
		DPLRCL	DMPDRV	DIFPLT	DFRFTP	CYAXIS	CONVRT	CLSFIL	BTAN2											
		BLKDAT	ASSIGN																	
WR	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRCL	TSKXQT	TRCEBK											
WRITE	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK											
		TANG	SYSCHK	SYMUPD	SYNDEF	STARTUP	STATOT	STATIN	STATIN											
		SEJCON	SCTCYL	SCLRPL	RWFILS	REFPLA	RPLSCL	RPLRPL	RPLDPL											
		RFPTCL	RFDFTP	RESTRT	REFCAP	REFBP	REFCYL	RDEFIL	RCLDPL											
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT	OPNFIL	MOVFIL											
		MAIN	INCFLD	GETSYM	GETSEG	GETKWV	GETGEO	GETFLD	GETARG											
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	GETGEO	GETFLD	GETARG											
		DMPDRV	DIFPLT	DFRFTP	CYAXIS	ASSIGN	ENDIF	DPLRPL	DPLRCL											
WRTCHK	-	TSKXQT	SYSCHK	STATFN	ERROR															
WRTFIL	-	WRTCHK	RWFILS	RWCOMS	PUTSYM															
W1	-	GETFLD	FLDDRV																	
W2	-	GETFLD																		
X	-	SMAGNF	RPLDPL	ROTATE	RFDFTP	RCLDPL	QFUN	PLAINT	PFUN											
		NFD	IMAGE	GTDDRV	GETFLD	GEOMPC	GEOM	FRNELS	FCT											
		ESPARM	DPTNFW	DPLRPL	DIFPLT	DFRFTP	DFPTWD	BTAN2	8LOG10											
		BABS																		
XC	-	RPLDPL	RFDFTP	RFDIN	GETFLD	GEOMPC	GEOM	ENDIF	DIFPLT											
XCL	-	ROTRAN	GTDDRV	CYAXIS																
XCOM	-	GTDDRV																		
XCSRC	-	GTDDRV																		
XB	-	SCTCYL	SCLRPL	RPLSCL	RPLDPL	RFDFTP	RCLDPL	DPTNFW	DPLRPL											
		DPLRCL	DIFPLT	DFRFTP	DFPTWD															
XDC	-	GEOMPC	GEOM																	
XDD	-	DPLRCL																		
XDENDC	-	DFPTCL																		
XDI	-	DPLRPL																		
XDIS	-	DFRFTP																		
XDMAG	-	RCLDPL																		

GTD Module

I N D E X

***** SUPER INDEX *****

XRJ	-	RCLRPL							
XRP	-	RDFPT	DFRPT						
XRPL	-	DFRPT							
XRR	-	SCLRPL	RCLRPL	RCLDPL					
XRS	-	SCLRPL	RCLRPL						
XRT	-	ROTRAN							
XRU	-	RDFPT	DFRPT						
XRV	-	RDFPT	DFRPT						
XR1X	-	RCLDPL							
XR1Y	-	RCLDPL							
XR1Z	-	RCLDPL							
XR2X	-	RCLDPL							
XR2Y	-	RCLDPL							
XR2Z	-	RCLDPL							
XS	-	ZGDRV	TANG	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL
		RPLDPL	RFPTCL	RFDFPT	RFDFIN	REFPLA	REFCYL	REFCAP	RCLRPL
		RCLDPL	INCLD	GTDDRV	GEOMPC	GEOMC	GEOM	FRNELS	FKY
		ENDIF	DPTNFW	DPLRPL	DPLRCL	DIFPLT	DFRPT	DFPTWD	DFPTCL
		CYLINT							
XSCF	-	DPTNFW							
XSI	-	GEOM							
XSII	-	GEOM							
XSM	-	DFPTCL							
XSS	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	REFCYL	REFCAP	RCLRPL
		RCLDPL	GTDDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT		
		GEOM							
XSX	-	INCLD	DPLRPL	DIFPLT					
XSJ	-	TANG	ROTRAN	PLAINT	CAPINT				
XT	-	SOURCP							
XTH	-	RPLRCL	REFCYL						
XT1	-	RPLRCL	REFCYL						
XT2	-	DQG32							
XU	-	WRTFIL	RDEFIL						
XWORDS	-	SCTCYL	SCLRPL	RPLSCL	ROTRAN	GTDDRV	GEOM		
XX	-	SCTCYL	SCLRPL	RPLSCL					
XXS	-	SCTCYL	SCLRPL	RPLSCL					
XXX	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
XXI	-	PUTSEG							
XY	-	TANG							
XYZFLD	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		INCLD	ENDIF	DPLRPL	DPLRCL	DIFPLT			
		RPLDPL	ROTATE	PUTSEG					
		RCLDPL							
X1	-	PUTSEG							
X1MAG	-	PUTSEG							
X2	-	PUTSEG							
X3	-	ROTATE	POLYRT	GETFLD	FRNELS	ESPARM	DQG32	STAN2	BABS
Y	-	GETFLD							
YC	-	ROTRAN	GTDDRV	CYAXIS					
YCL	-	GTDDRV							
YCSRC	-	SCLRPL	RPLSCL						
YD	-								
YE	-	GEOMPC							

GTD Module

I N D E X

***** SUPER INDEX *****

YEX	-	ENDIF							
YEZ	-	ENDIF							
YFLD	-	GTDDRV							
YFM	-	DFPTCL							
YI	-	ZGDRV	SEJCON	SCTCYL	SCLRPL				
YII	-	RPLSCL							
YIPT	-	RPLSCL							
YJ	-	ZGDRV	SEJCON						
YNS	-	ZGDRV	GTDDRV						
YP	-	SOURCE	GTDDRV						
YPH	-	SOURCP							
YPHW	-	GEOMPC							
YPM	-	CYLINT							
YS	-	ZGDRV							
YSM	-	DFPTCL							
YSSSTAT	-	TSKXQT							
YT	-	TANG							
YTH	-	SOURCP							
YY	-	GEOM							
Y1	-	ROTATE	PUTSEG						
Y2	-	PUTSEG							
Y3	-	PUTSEG							
Z	-	ROTATE	ROMBNT	GETFLD	ESPARM	SABS			
ZC	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	GTDDRV
		GETFLD	GEOMPC	GEOMC	ENDIF	DPLRCL	DFPTCL	CYLINT	CAPINT
ZCL	-	ROTRAN	GTDDRV	CYAXIS					
ZCN	-	GTDDRV							
ZCP	-	GTDDRV							
ZCSRC	-	GTDDRV							
ZD	-	SCTCYL	SCLRPL	RPLSCL	DFPTWD				
ZDK	-	NTGRAN							
ZD1	-	SOURCE							
ZD2	-	SOURCE							
ZE	-	ROMBNT	DFPTWD						
ZEND	-	ROMBNT							
ZERO	-	ZGDRV	SYSCHK	SOURCE	PUTKWV	GETGEO	FLDDRV	EXCDRV	ESPARM
		BTAN2	BLKOAT						
ZFLD	-	GTDDRV							
ZFM	-	DFPTCL							
ZGDRV	-	ZIJDRV	FLDDRV	EXCDRV					
ZI	-	ZGDRV	SEJCON	SCTCYL	SCLRPL				
ZII	-	RPLSCL							
ZIINC	-	SCTCYL	SCLRPL	RPLSCL					
ZIJDRV	-	TSKXQT							
ZIPT	-	RPLSCL							
ZJ	-	ZGDRV	SEJCON						
ZK	-	NTGRAN							
ZLOC	-	GTDDRV							
ZNS	-	ZGDRV	GTDDRV						
ZP	-	SOURCE	RPLDPL	ROMBNT	GTDDRV	DPLRPL	DIFPLT		

GTD Module

I N D E X

***** SUPER INDEX *****

ZPE	-	DFPTWD							
ZPH	-	SOURCP							
ZPK	-	SOURCE	NTGRAN						
ZPM	-	CYLINT							
ZPS	-	CYLINT							
ZRATI	-	ZIJDRV	ZGTDRV	STRUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNC SUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
ZS	-	ZGTDRV							
ZSM	-	DFPTCL							
ZTH	-	SOURCP							
ZX	-	DFPTWD							
ZZ	-	SOURCE							
ZZXDUM	-	DMPDRV							
ZZ3	-	PUTSEG							
Z1	-	ROTATE	PUTSEG						
Z2	-	PUTSEG							
Z3	-	PUTSEG							

.....

2. INPUT Module

I N D E X

***** SUPER INDEX *****

SYMBOL		ROUTINES IN WHICH THE SYMBOL IS USED							
A	-	SCALE3	SCALE2						
AA	-	CYLNDR							
ABS	-	WYDRV	SUBPAT	SCALE3	SCALE2	PUTKWV	PRTGTD	PLTSEG	PLTDRV
		PAGPLT	JCTION	GEODRV	FLTPLT				
ADDOPR	-	DMPDRV							
ADEBG	-	RWCOMS							
AINI	-	PAGPLT							
AL	-	SCALE3	SCALE2						
ALOG10	-	SCALE3	SCALE2	PAGPLT					
AMAX1	-	PAGPLT							
AMINI	-	PAGPLT	JCTION						
AMOD	-	PLTDRV							
AMP2J	-	RWCOMS							
AN	-	PLTSEG							
AREA	-	SUBPAT	PATCH						
AREAP	-	GEODRV							
ARGCM	-	RWCOMS							
ASIN	-	GTDCS							
ASSIGN	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS
		CNVGTD	BUBBLE						
ATAN2	-	PLTSEG	PLTDRV	GTDCS	GEODRV				
ATTACH	-	WYDRV	PATCH	COORDS					
A11	-	ROTATE							
A12	-	ROTATE							
A13	-	ROTATE							
A21	-	ROTATE							
A22	-	ROTATE							
A23	-	ROTATE							
A31	-	ROTATE							
A32	-	ROTATE							
A33	-	ROTATE							
B	-	SCALE3	SCALE2						
BB	-	CYLNDR							
BUBBLE	-	GEODRV							
C	-	PLTDRV	DMPDRV						
CHKPNT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
CHKWRT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN

INPUT Module

I N D E X

***** SUPER INDEX *****

DEL	-	SCALE3	SCALE2																	
DFDT	-	RWCOMS																		
DGTORD	-	WYDRV	PRTGTD	PLTDRV	PATCH	GEODRV	ENDCAP	BLKDAT												
DIST	-	SCALE3	SCALE2																	
DISTL	-	SCALE3																		
DIVOPR	-	DMPDRV																		
DJ	-	SYSRTN																		
DLINV	-	PAGPLT																		
DLYN	-	PAGPLT																		
DMPDRV	-	TSKXQT																		
DOT	-	FLTPLT																		
DT	-	WRTCHK	TSKXQT	TICHEK	SYSCHK															
DX	-	WYDRV	TRNLAT	PAGPLT	JCTION	GEODRV	COORDS	CNVGTD												
DY	-	WYDRV	TRNLAT	PAGPLT	JCTION	GEODRV	COORDS	CNVGTD												
DZ	-	WYDRV	TRNLAT	JCTION	GEODRV	COORDS	CNVGTD													
EFDGEO	-	TSKXQT																		
EN	-	PLTSEG																		
ENDCAP	-	WYDRV																		
ENH	-	PLTSEG																		
ENX	-	PLTSEG																		
ENY	-	PLTSEG																		
ENZ	-	PLTSEG																		
EPSR	-	PUTKWV	GETKWV	BLKDAT																
ERRFLG	-	PLATE	LNKGTD	ENDCAP	CYLNRD															
ERRMSG	-	WYDRV	FABLO2																	
ERROR	-	WRTFIL	TSKXQT	SYSCHK	SYMUPO	SYMDEF	RESTRT	RDEFIL	PUTSYM											
		PUTPNT	PUTKWV	PRESCH	PLTDRV	OPNFIL	NOVFIL	GETSYM	GETKWV											
		GETARG	FNDREC	DMPDRV	COORDS	CNVGTD														
ET	-	SYSCHK																		
ETA	-	BLKDAT																		
ETIME	-	SYSCHK																		
EXPOPR	-	DMPDRV																		
E1X	-	PLTSEG	FLTPLT																	
E1Y	-	PLTSEG	FLTPLT																	
E1Z	-	PLTSEG	FLTPLT																	
E2X	-	PLTSEG	FLTPLT																	
E2Y	-	PLTSEG	FLTPLT																	
E2Z	-	PLTSEG	FLTPLT																	
FABLO2	-	SYMSCH	SYMLIT	PLIST	PARSE	LITSCH	FNDARG													
FIRST	-	SCAN	IBITCK																	
FJ	-	PUTKWV	GETKWV	BLKDAT																
FJS	-	WYDRV																		
FLOCH	-	RWCOMS																		
FLEM	-	LNKGTD	CYLNRD	CNVGTD																
FLOAT	-	WYDRV	SYSRTN	SYSCHK	SCAN	SCALE3	SCALE2	PLTDRV	PATCH											
		PAGPLT	LITSCH	GETKWV	GETARG	ENDCAP	DMPDRV	CYLNRD												
FLTARG	-	ZZXDUM	WYDRV	TSKXQT	SYMDEF	RESTRT	PLTDRV	OPNFIL	MAIN											
		GETGEO	GETARG	GEODRV	EFDGEO	DMPDRV	BLKDAT													
FLTINC	-	SYSCHK																		
FLTLLT	-	ZZXDUM	WYDRV	WRTCHK	TSKXQT	SYMUPO	SYMSCH	SYMLIT	SYMDEF											

INPUT Module

INDEX

***** SUPER INDEX *****

	SUBPAT	SCAN	RWFILS	RESTR	PUTSYM	PUTSEG	PUTKWV	PRESCN
	PREPAR	POSTPR	POSTIP	PLTDRV	PLIST	PATCH	PARSE	OPNFIL
	MAIN	LITSCH	INPDRV	GETSYM	GETKWV	GETKWD	GETGEO	GETARG
	GEODRV	FNDREC	FNDARG	EFDGEO	DMPDRV	CONVRT	BLKDAT	
FLTPLY -	PLATE							
FLTSYM -	SYMDEF	PUTSYM	GETSYM	BLKDAT				
FM1 -	SCALE3	SCALE2						
FM2 -	SCALE3	SCALE2						
FN -	SCALE3	SCALE2						
FNDARG -	PARSE							
FNDREC -	PUTSYM	GETSYM						
FRAC -	SCAN							
FRQMHZ -	PUTKWV	GETKWV						
FSTCHK -	WRTCHK							
F0 -	ENDCAP	CYLNR						
F1 -	PRTGTD	LNKGT0	ENDCAP	CYLNR				
F12 -	ENDCAP	CYLNR						
F2 -	PRTGTD	LNKGT0						
F3 -	PRTGTD	LNKGT0						
F34 -	ENDCAP	CYLNR						
F4 -	LNKGT0							
F5 -	LNKGT0							
F56 -	ENDCAP	CYLNR						
F6 -	LNKGT0							
GAREA -	GEODRV							
GEODRV -	TSKXQT							
GEODT -	RWCOMS							
GETARG -	GETGEO	GEODRV						
GETGEO -	PLTDRV							
GETKWD -	SCAN							
GETKWV -	DMPDRV							
GETPNT -	WYDRV	PRTGTD	PLATE	PATCH	LNKGT0	PLTDRV	LNKJCT	LNKGT0
GETSEG -	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV		
	JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE			
GETSYM -	WRTCHK	SYMDEF	SUBPAT	RESTR	PUTSYM	PUTSEG	PLTDRV	GETSEG
	GETARG	GEODRV	DMPDRV					
GTOCS -	LNKGT0	CYLNR						
GTDOT -	RWCOMS							
HI -	SHELL							
I -	ZZXDUM	WYDRV	SYSRTH	SYMSCH	SUBPAT	STATFN	SHELL	SCALE3
	SCALE2	RWFILS	RWCOMS	RESTR	PUTSYM	PUTSEG	PUTPNT	PRESCN
	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PAGPLT	MAIN	LNKJCT
	LITSCH	JCTION	INPDRV	IBITCK	GTOCS	GETSYM	GETPNT	GETKWD
	GETGEO	GEODRV	FNDREC	FABLOZ	ERROR	COORDS	CONVRT	CNVGTD
	BUBBLE	BLKDAT						
IABS -	WYDRV	TSKXQT	PRESCN	POSTIP	PLTDRV	PAGPLT	OPNFIL	LNKGT0
	GETARG	FNDARG	DMPDRV	COORDS				
IADD -	WYDRV							
IADD1 -	WYDRV							
IARG -	WYDRV							

INPUT Module

I N D E X

***** SUPER INDEX *****

IARGS	-	WYDRV							
IAXIS	-	WYDRV	BLKDAT						
ID	-	SUBPAT	BUBBLE						
IDAND	-	PUTSYM	GETSYM	FNDREC					
IDB	-	SUBPAT	BUBBLE						
IDIT	-	IDITCK							
IDITCK	-	SYMDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	EFOGEO	DMPDRV
IDITR	-	DMPDRV							
IDITS	-	SYMDEF	GEODRV						
IDIT1	-	SYMDEF	DMPDRV						
IDIT2	-	DMPDRV							
IDLANK	-	SCAN	BLKDAT						
IDLK	-	SUBPAT	JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE		
IDLKK	-	GETGEO	BUBBLE						
IDLKKK	-	SUBPAT							
IDLKL	-	WLKCK							
IDLKS	-	SUBPAT							
IDUF	-	WYDRV							
IC	-	SYSRTN	SUBPAT	COORDS					
ICALL	-	WYDRV	POSTIP	PARSE	INDRV	FNDARG			
ICASE	-	PUTSEG							
ICAR	-	CONVRT							
ICHKPT	-	RESTR							
ICKFIL	-	WRTCHK							
ICKLOP	-	RESTR							
ICLEAR	-	PRESCH							
ICNECT	-	JCTION							
ICOL	-	SUBPAT							
ICOLSV	-	SUBPAT							
ICOM	-	RWCOMS							
ICOMMA	-	SCAN	BLKDAT						
ICOMSV	-	RWCOMS							
ICON	-	SUBPAT	CNVGTD						
ICONT	-	SUBPAT							
ICON1	-	SUBPAT							
ICON2	-	SUBPAT							
ICPTSK	-	PRESCH							
ICS	-	WYDRV	PATCH	COORDS					
ICSAV	-	COORDS							
ICSSAV	-	WYDRV	PATCH						
ICSYS	-	WYDRV	PRTGTD	LNKGTD	GTDCS	CYLNR			
ICYL	-	PRTGTD	LNKGTD						
ICYLN	-	ENDCAP							
ICYLPT	-	PRTGTD	LNKGTD						
ICYTAG	-	PRTGTD	LNKGTD	CYLNR	BLKDAT				
ID	-	CONVRT							
IDATA	-	PREPAR	POSTPR	POSTIP					
IDATE	-	SYSRTN							
IDAY	-	MAIN							
IDCSYS	-	WYDRV	GTDCS	GEODRV	COORDS	BLKDAT			

INPUT Module

I N D E X

***** SUPER INDEX *****

IDEF	-	WYRDRV												
IDEFIN	-	WYRDRV	GEODRV	BLKDAT										
IDFINS	-	WYRDRV	GEODRV	BLKDAT										
IDIG	-	SCAN	BLKDAT											
IDOLAR	-	BLKDAT												
IEC	-	LNKGTD												
IECPT	-	PRTGTD	LNKGTD											
IECPT1	-	LNKGTD												
IECPT2	-	LNKGTD												
IECTAG	-	PRTGTD	LNKGTD	ENDCAP	BLKDAT									
IECO	-	LNKGTD												
IECOPT	-	LNKGTD												
IEC1	-	PRTGTD	LNKGTD											
IEC2	-	PRTGTD	LNKGTD											
IEND	-	SYMSCH	LITSCH	GEODRV										
IEND1	-	GEODRV	CNVGTD											
IEND2	-	GEODRV	CNVGTD											
IEOF	-	WRTCHK	RWCMS	RESTR										
IEQUAL	-	DMPDRV	BLKDAT											
IERF	-	PLATE	FLTPLT											
IERRF	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	RWFILS	RESTR	RDEFIL					
		PUTSYM	PUTPNT	PUTKVV	PRESCN	OPNFIL	MOVFIL	GETSYM	GETKVV					
		FNDREC	ERROR	DMPDRV	COORDS	CNVGTD	BLKDAT							
		SYMUPD	SUBPAT	RWFILS	PUTSYM	MOVFIL	GETSYM	FNDREC	CLSFIL					
IFILE	-	SYNJCT												
IFIRST	-	LNKJCT												
IFIX	-	SYSRTN	STATFN	PAGPLT	ENDCAP	CYLNDR								
IFLE	-	MOVFIL												
IFLG	-	LITSCH												
IFLNAM	-	RWCMS												
IFOUND	-	WYRDRV	SCAN											
IF1	-	PUTSYM												
IF2	-	PUTSYM												
IG	-	PRTGTD	PLTSEG	LNKGTD										
IGBLK	-	PRTGTD	LNKGTD											
IGBLKK	-	PRTGTD	PLTSEG	LNKGTD										
IGBLK1	-	PRTGTD	PLTSEG											
IGEGBT	-	EFDGEO												
IGLIM	-	PRTGTD	PLTSEG	LNKGTD										
IGLIM1	-	PRTGTD	PLTSEG											
IGLOW	-	PRTGTD	PLTSEG	LNKGTD										
IGLOW1	-	PRTGTD	PLTSEG											
IGNORE	-	WYRDRV	SCAN	INDRV	BLKDAT									
IG1	-	PRTGTD	PLTSEG											
INIT	-	CNVGTD												
INITPL	-	PLTSEG												
II	-	PAGPLT	GTDCS	COORDS										
IJ	-	SYSRTN												
IJCONT	-	JCTION												
IJCT	-	LNKJCT												
IJMDD	-	PUTSYM	GETSYM	FNDREC										

INPUT Module

INDEX

***** SUPER INDEX *****

ILAST	-	LNKJCT																	
ILBL	-	PLTRV																	
ILCNXT	-	PRESCH																	
ILEFT	-	DMPDRV	BLKDAT																
ILIM	-	SUBPAT	PLTRV	JCTION	GEODRV	CNVGTD	BUBBLE												
ILINE	-	GEODRV																	
ILOW	-	BUBBLE																	
ILOWER	-	PUTSYM	GETSYM	FNDREC															
ILP	-	DMPDRV																	
ILPBLK	-	LNKJCT	JCTION	GEODRV															
ILIM	-	GETGEO																	
IM	-	SHELL																	
INDCHK	-	WRTCHK	STATFN	RESTRT	PUTSYM	BLKDAT													
IMINUS	-	SCAN	PLIST	LITSCH	JCTION	FNDARG	DMPDRV	BLKDAT											
IMN	-	WYRDRV																	
IM1	-	PAGPLT	IBITCK																
IN	-	SCAN																	
INAME	-	BLKDAT																	
INBLKS	-	SUBPAT																	
INC	-	SYMLIT	PLIST	PARSE	FNDARG														
INCCHK	-	SYCHK																	
INCTAG	-	WYRDRV																	
IND	-	CONVRT																	
INDEX	-	TSKXQT	SYMSCH	SYMLIT	SCAN	PLIST	PARSE	LITSCH	GETKWD										
		FNDARG	BUBBLE																
INDEX1	-	SYMLIT																	
INDKWM	-	MAIN																	
INOX	-	MAIN	EFDGEO																
INOXA	-	TSKXQT	EFDGEO																
INOXB	-	TSKXQT	EFDGEO																
INOXP1	-	RWCOMS																	
INOXB0	-	WLKBC	TRCEBK	RWCOMS	BLKDAT														
INDXX	-	TSKXQT																	
INEED	-	PRTGTD																	
INEG	-	CNVGTD																	
INEV	-	SYMDEF																	
INP	-	WYRDRV																	
INPBLK	-	SUBPAT	PRTGTD	LNKGTD	JCTION	GEODRV	BUBBLE												
INPDRV	-	MAIN																	
INPP3	-	WYRDRV																	
INPP4	-	WYRDRV																	
INPP5	-	WYRDRV																	
INT	-	PUTKVV	GETARG																
INTARG	-	ZZXBUM	WYRDRV	TSKXQT	SYMDEF	RESTRT	PLTRV	OPNFIL	MAIN										
		GETGEO	GETARG	GEODRV	EFDGEO	DMPDRV	BLKDAT												
INTBCD	-	CONVRT																	
INTLIT	-	PRESCH																	
INTM	-	RWCOMS																	
INTOVR	-	SCAN																	
INTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT														

INPUT Module

INDEX

***** SUPER INDEX *****

IPT1	-	WYDRV							
IPT2	-	WYDRV							
IPWR	-	SCAN							
IPWR2	-	IDITCK							
IP1	-	WYDRV	PAGPLT	GETPNT					
IP1SV	-	GETPNT							
IP2	-	WYDRV	GETPNT						
IP2SV	-	GETPNT							
IP217	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTRV	PLATE	LNKJCT
		LNKGT0	JCTION	GETSEG	GEODRV	ENDCAP	CYLNR	CNVGTD	BUBBLE
		BLKDAT							
IR	-	PUTSYM	GETSYM						
IRAD	-	WYDRV							
IRADSV	-	WYDRV							
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECND	-	PUTSYM							
IRECNW	-	PUTSYM	GETSYM						
IRECS7	-	GETSYM							
IREC1	-	PUTSYM	GETSYM						
IREC2	-	PUTSYM	GETSYM						
IRF	-	REFLCT							
IRFLC	-	WYDRV							
IRIGHT	-	SCAN	DMPDRV	BLKDAT					
IROW	-	SUBPAT							
IROWM1	-	PUTSYM	GETSYM						
IRP	-	DMPDRV							
IRSTRT	-	RESTR	PUTSYM						
IR1	-	RWFILS	PUTSYM	GETSYM					
IR2	-	PUTSYM	GETSYM						
IS	-	WYDRV	SCAN	PUTSEG	PLTRV	PATCH	PAGPLT	LNKJCT	JCTION
		CNVGTD	BUBBLE						
		WYDRV	JCTION						
ISAV	-	WYDRV							
ISAV2	-	TSKXGT							
ISAV3	-	TSKXGT							
ISDLNK	-	PAGPLT							
ISCALE	-	WYDRV	BLKDAT						
ISDASH	-	PAGPLT							
ISDBON	-	RESTR							
ISDOT	-	PAGPLT							
ISEG	-	PUTSEG	PLTRV	GETSEG	GETGEO	GEODRV	BLKDAT		
ISEG5V	-	WYDRV	SUBPAT						
ISEG1	-	WYDRV							
ISEG2	-	WYDRV							
ISETTO	-	BLKDAT							
ISG	-	WYDRV	PUTSEG	PLATE	LNKJCT	ENDCAP	CYLNR		
ISGN	-	LNKGT0							

INPUT Module

I N D E X

***** SUPER INDEX *****

ISGTBL	-	WYDRV	WRTCHK	TSKXQT	SUBPAT	RWFILS	RESTRY	PUTSEG	PUTPNT
		PRTGTD	PLTSEG	PLTDRV	PLATE	PATCH	LNKJCT	LNKGTD	JCTION
		GETSEG	GETGEO	GEODRV	ENDCAP	CYLNR	CNVGTD	BUBBLE	BLKDAT
ISG1	-	WYDRV							
ISG2	-	WYDRV							
ISHIFT	-	SCAN							
ISLASH	-	SCAN	DMPDRV	BLKDAT					
ISOFF	-	WYDRV	WRTCHK	TSKXQT	SYMSCH	SYMLIT	SUBPAT	STATFN	SCAN
		RWFILS	RWCOMS	ROTATE	RESTRY	PUTSYM	PUTSEG	PLTSEG	PLIST
		PLATE	PATCH	PARSE	MAIN	LNKJCT	LNKGTD	LITSCHE	JCTION
		INPDRV	GETSYM	GETSEG	GETARG	FNDREC	FNDARG	FLTPLT	ERROR
		ENDCAP	DMPDRV	CYLNR	CONVRT	CNVGTD	CLSFIL	BUBBLE	BLKDAT
ISON	-	WYDRV	WRTFIL	WRTCHK	TSKXQT	SYMSCH	SYMUPD	SYMSCH	SYMDEF
		SUBPAT	STATOT	STATIN	STATFN	SCAN	RWFILS	RWCOMS	RESTRY
		RDEFIL	PUTSYM	PUTPNT	PUTKWV	PRESCN	PREPAR	POSTPR	PLTDRV
		PLATE	PATCH	PARSE	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
		JCTION	INPDRV	GETSYM	GETKWV	GEODRV	FNDREC	FNDARG	FLTPLT
		ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS	CNVGTD	BUBBLE
		BLKDAT							
ISP	-	JCTION							
ISPLUS	-	PAGPLT							
ISSTAR	-	PAGPLT							
ISSUE	-	MAIN							
ISTAR	-	SCAN	DMPDRV	BLKDAT					
ISTAT	-	OPNFIL							
ISTRDT	-	RESTRY							
ISUB	-	SUBPAT							
ISV	-	PUTSYM	GETSYM	FNDREC					
ISW	-	PUTSYM	JCTION						
ISYM	-	WYDRV	PAGPLT						
ISYMBL	-	SCAN	PREPAR	POSTPR	POSTIP	BLKDAT			
ISZERO	-	WYDRV	PATCH						
ISZERO	-	PATCH							
IS1	-	PLTDRV							
IS2	-	PLTDRV							
IT	-	PUTSYM	GETSYM						
ITAG	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	PLATE	PATCH
		LNKGTD	JCTION	GETSEG	GEODRV	ENDCAP	CYLNR	BUBBLE	
ITAGID	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLATE	LNKGTD	GETSEG
		GEODRV	ENDCAP	CYLNR	BUBBLE	BLKDAT			
ITAGSV	-	WYDRV							
ITASK	-	TSKXQT	PRESCN	POSTIP					
ITEMCD	-	PLIST							
ITEMP	-	WRTCHK	SYMDEF	RWFILS	RESTRY	PUTSYM	PLTDRV	MOVFIL	MAIN
		GEODRV	DMPDRV	BLKDAT					
ITEMS	-	STATFN	SHELL						
ITG	-	WYDRV	PUTSEG						
ITIME	-	SYSRTN	MAIN						
ITP	-	PRTGTD	LNKGTD						
ITPARG	-	ENDCAP	CYLNR						

INPUT Module

I N D E X

***** SUPER INDEX *****

ITYPDE -	WYRDRV	BLKDAT						
ITYPE -	WYRDRV	PRTGTD	PRESCN	PAGPLT	LNKGTD			
ITYPPL -	WYRDRV	BLKDAT						
ITYPPT -	WYRDRV	BLKDAT						
ITYPTG -	WYRDRV	BLKDAT						
IT1 -	PLDRV							
IT2 -	PLDRV							
IUPPER -	PUTSYM	GETSYM	FNDREC					
IW -	JCTION							
IWBLK -	JCTION							
IWBLKK -	JCTION							
IWBSAV -	RWCOMS							
IWLIM -	JCTION							
IWORDS -	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLK0CK	TSKXOT	TRNLAT	TRCEBK
	SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKVV	PRTGTD
	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
	GETKVV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS	CONVRT
	CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
IUPFG -	BUBBLE							
IWR0LK -	CNVGTD							
IWR0 -	IBITCK	FNDREC						
IWR0S3 -	FABLO2							
IWR01 -	PUTSYM	GETSYM						
IWR0CK -	WRTCHK	PUTSYM						
IX -	PLDRV	LNKGTD						
IXAXIS -	PLDRV							
IX1 -	WYRDRV	PUTSEG						
IY -	PLDRV	PAGPLT						
IYAXIS -	PLDRV							
IYR -	WYRDRV							
IYRLOC -	GETGEO							
IZ3 -	PUTSEG							
IO -	ENDCAP	CYLNR						
I1 -	WYRDRV	TRCEBK	PRTGTD	PRESCN	PAGPLT	LNKGTD	GETPNT	ENDCAP
	CYLNR							
12 -	TRCEBK	PRTGTD	POSTPR	PAGPLT	LNKGTD	GETPNT		
13 -	PRTGTD	POSTPR	LNKGTD					
14 -	LNKGTD							
15 -	POSTPR	LNKGTD						
16 -	LNKGTD							
J -	WYRDRV	SYSRTN	SUBPAT	STATFN	SHELL	PUTSYM	PUTSEG	PRESCN
	PREPAR	POSTPR	POSTIP	PLTDRV	PAGPLT	JCTION	GETSYM	GETKWD
	GEODRV	FNDREC	FABLO2	BUBBLE				
JAXIS -	REFLCT	PLTDRV						
JBIA51 -	LNKJCT	GEODRV	BLKDAT					

INPUT Module

I N D E X

***** SUPER INDEX *****

JBIAS2	-	LNKJCT	GEODRV	BLKDAT					
JBIAS3	-	SUBPAT	LNKJCT	GEODRV	BLKDAT				
JBIT	-	IBITCK							
JBLK	-	JCTION							
JCARD	-	INPDRV							
JCBIAS	-	LNKJCT	JCTION	GEODRV	BLKDAT				
JCNECT	-	JCTION							
JCT	-	LNKJCT	JCTION						
JCTCON	-	JCTION							
JCTION	-	GEODRV							
JCTND1	-	LNKJCT							
JCTND2	-	LNKJCT							
JCTNEG	-	JCTION							
JCTNUM	-	LNKJCT							
JCTPOS	-	JCTION							
JCTWRD	-	LNKJCT							
JDIG	-	SCAM	BLKDAT						
JHOURS	-	SYSRTN							
JJ	-	SUBPAT							
JLIM	-	JCTION							
JMAX	-	SUBPAT							
JMINIT	-	SYSRTN							
JMINUS	-	JCTION							
JNCN	-	RWCOMS							
JP	-	JCTION							
JPBLK	-	JCTION							
JPLIM	-	JCTION							
JPLUS	-	JCTION							
JPTAG	-	JCTION							
JS	-	WYRDRV	JCTION						
JSAV	-	JCTION							
JSG	-	PUTSEG							
JSP	-	JCTION							
JSTRT	-	PRESCN							
JTAG	-	JCTION							
JTASK	-	PRESCN							
JTG	-	PUTSEG							
JWRD	-	IBITCK							
J1	-	JCTION							
K	-	SUBPAT	SHELL	PREPAR	POSTPR	PLTDRV	PLIST	CONVRT	CNVGTD
KAXIS	-	PLTDRV							
KBAND	-	PUTSYM	GETSYM	FNDREC					
KBBAND	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBBITS	-	BLKDAT							
KBCPLX	-	SYMDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	DMPDRV	BLKDAT
KBDPRE	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBFFLD	-	BLKDAT							
KBFULL	-	BLKDAT							
KBGEO	-	RWFILS	PLTDRV	GEODRV	EFDGEO	BLKDAT			
KBINTP	-	BLKDAT							

INPUT Module

I N D E X

***** SUPER INDEX *****

KOUTPT	-	BLKDAT		
KRSTRT	-	BLKDAT		
KSYMDF	-	BLKDAT		
KSYMP	-	PUTKWV		
KTASK	-	PRESCN		
KW	-	PUTKWV	GETKWV	
KWABS	-	BLKDAT		
KWARG	-	PARSE	BLKDAT	
KWARGT	-	PARSE		
KWAXIS	-	BLKDAT		
KWBAND	-	BLKDAT		
KWBCRE	-	BLKDAT		
KWBCSB	-	BLKDAT		
KWBNDW	-	BLKDAT		
KWC	-	BLKDAT		
KWCD	-	BLKDAT		
KWCDP	-	BLKDAT		
KWCHKP	-	RESTR	BLKDAT	
KWCLPS	-	BLKDAT		
KWCNJG	-	BLKDAT		
KWCNVG	-	BLKDAT		
KWCOND	-	PUTKWV	GETKWV	BLKDAT
KWCPNC	-	BLKDAT		
KWCPNM	-	BLKDAT		
KWCR	-	BLKDAT		
KWCS	-	BLKDAT		
KWCW	-	BLKDAT		
KWCY	-	BLKDAT		
KWC1	-	BLKDAT		
KWC2	-	BLKDAT		
KWD	-	BLKDAT		
KWDEBUG	-	BLKDAT		
KWDC	-	BLKDAT		
KWDM	-	PARSE		
KWDNAM	-	POSTIP		
KWDNM	-	PARSE		
KWDP	-	BLKDAT		
KWDR	-	BLKDAT		
KWDT	-	BLKDAT		
KWDW	-	BLKDAT		
KWDX	-	BLKDAT		
KWDY	-	BLKDAT		
KWDZ	-	BLKDAT		
KWEC	-	BLKDAT		
KWECC	-	BLKDAT		
KWED	-	BLKDAT		
KWEI	-	BLKDAT		
KWEND	-	SCAN	BLKDAT	
KWEPSR	-	PUTKWV	GETKWV	BLKDAT
KWER	-	BLKDAT		

INPUT Module

I N D E X

***** SUPER INDEX *****

KWES	-	BLKDAT							
KWESRC	-	BLKDAT							
KWEU	-	BLKDAT							
KWFFLD	-	BLKDAT							
KWFLID	-	BLKDAT							
KWFMTF	-	PLIST	PARSE	FNDARG	BLKDAT				
KWFRQ	-	PUTKWV	GETKWV	BLKDAT					
KUGEOM	-	TSKXQT							
KUGMDT	-	BLKDAT							
KWGT0	-	BLKDAT							
KWILP	-	PLIST	BLKDAT						
KWINPT	-	BLKDAT							
KWINV	-	BLKDAT							
KWIPE	-	BLKDAT							
KWIRE	-	BLKDAT							
KWIS	-	BLKDAT							
KWLABL	-	BLKDAT							
KWLGLG	-	PLTDRV	BLKDAT						
KWLGLN	-	PLTDRV	BLKDAT						
KWLGPO	-	BLKDAT							
KWLMT	-	PARSE	BLKDAT						
KWNLG	-	PLTDRV	BLKDAT						
KWNLN	-	BLKDAT							
KWLNPO	-	BLKDAT							
KWLOOP	-	BLKDAT							
KWLU	-	BLKDAT							
KWLU0	-	BLKDAT							
KWHAX	-	MAIN	GETKWD	BLKDAT					
KWHM	-	BLKDAT							
KWMODL	-	BLKDAT							
KWXIT	-	BLKDAT							
KWXP1	-	MAIN							
KWN	-	BLKDAT							
KWNAME	-	TSKXQT	SCAN	RESTR	PUTKWV	PREPAR	POSTPR	POSTIP	MAIN
		GETKWV	GETKWD	BLKDAT					
KWNDEX	-	PLIST							
KWNFLD	-	BLKDAT							
KWNHFL	-	PUTKWV	GETKWV	BLKDAT					
KWNP	-	BLKDAT							
KWNR	-	BLKDAT							
KWNUP	-	PARSE							
KWOFF	-	TSKXQT	FNDARG	BLKDAT					
KWON	-	TSKXQT	BLKDAT						
KWOUTP	-	BLKDAT							
KWPART	-	BLKDAT							
KWPC	-	BLKDAT							
KWPB	-	BLKDAT							
KWPDR	-	BLKDAT							
KWPHI	-	BLKDAT							
KWPIVT	-	BLKDAT							

INPUT Module

I N D E X

***** SUPER INDEX *****

KWPL	-	BLKDAT		
KWPLOT	-	BLKDAT		
KWPLSE	-	BLKDAT		
KWPR	-	BLKDAT		
KWPRE	-	BLKDAT		
KWPRGE	-	BLKDAT		
KWPRLC	-	BLKDAT		
KWPRNT	-	BLKDAT		
KWPSN	-	BLKDAT		
KWP1	-	BLKDAT		
KWP2	-	BLKDAT		
KWR	-	BLKDAT		
KWRC	-	BLKDAT		
KWRD	-	BLKDAT		
KWRDP	-	BLKDAT		
KWRDUC	-	BLKDAT		
KWREAD	-	BLKDAT		
KWREPL	-	BLKDAT		
KWRFLC	-	BLKDAT		
KWRITE	-	BLKDAT		
KWRR	-	BLKDAT		
KWRSTR	-	BLKDAT		
KWR1	-	BLKDAT		
KWR2	-	BLKDAT		
KWSC	-	BLKDAT		
KWSCDP	-	BLKDAT		
KWSEGS	-	PLTRV	BLKDAT	
KWSEQ	-	BLKDAT		
KWSET	-	BLKDAT		
KWSIZE	-	BLKDAT		
KWSMDF	-	BLKDAT		
KWSNCS	-	BLKDAT		
KWSOLV	-	BLKDAT		
KWSR	-	BLKDAT		
KWSRDP	-	BLKDAT		
KWSRLC	-	BLKDAT		
KWSTAT	-	TSKXQT	BLKDAT	
KWSTNT	-	BLKDAT		
KWSM	-	BLKDAT		
KWTAGS	-	PLTRV	BLKDAT	
KWTDH	-	BLKDAT		
KWTHET	-	BLKDAT		
KWTIME	-	PUTKWV	GETKWV	BLKDAT
KWTKNH	-	PLIST		
KWTRAC	-	TSKXQT	FNDARG	BLKDAT
KWTRAN	-	BLKDAT		
KWTYPE	-	BLKDAT		
KWT1	-	BLKDAT		
KWT2	-	BLKDAT		
KWV	-	BLKDAT		

INPUT Module

I N D E X

***** SUPER INDEX *****

KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSR	-	BLKDAT							
KWX	-	BLKDAT							
KWXPND	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	BLKDAT							
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
L	-	SUBPAT	PLTDRV	PAGPLT	ERROR	DMPDRV			
LABEL	-	PLTDRV							
LASTI	-	PAGPLT							
LCALLR	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRGTGD	PRESCH	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
		COORDS	CNVGTD	BUBBLE	BLKDAT				
L CALNM	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRGTGD	PRESCH	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
		COORDS	CNVGTD	BUBBLE	BLKDAT				
LETR	-	SCAN	BLKDAT						
LIMINR	-	BUBBLE							
LIMSEG	-	PUTSEG	LNKJCT	BUBBLE					
LINDX	-	TSKXQT							
LINE	-	PAGPLT							
LINK	-	PUTSYM	GETSYM	FNDREC					
LINKA	-	TSKXQT							
LINKB	-	EFDGEO							
LITNFX	-	LITSCH	BLKDAT						
LITNUM	-	ZZXDUM	WYDRV	WRTCHK	TSKXQT	SYMUPD	SYMSCH	SYMLIT	SYMDEF
		SUBPAT	SCAN	RWFILS	RESTR	PUTSYM	PUTSEG	PUTKWV	PRESCH
		PREPAR	POSTPR	POSTIP	PLTDRV	PLIST	PATCH	PARSE	OPNFIL

INPUT Module

I N D E X

***** SUPER INDEX *****

	MAIN	LITSCH	INPDRV	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
	GEODRV	FNDREC	FNDARG	EFDGEO	DMPDRV	CONVRT	BLKDAT	
LITSCH -	SYMLIT	PARSE	FNDARG					
LITYP -	GETARG	DMPDRV						
LITVAL -	PLTDRV							
LLX -	PLTDRV							
LLY -	PLTDRV							
LNK -	EFDGEO							
LNKBIT -	GEODRV							
LNKGTD -	GEODRV							
LNKJCT -	PLATE							
LNKNUM -	PLATE							
LNKSV -	PRTGTD							
LNLEFT -	PRTGTD							
LNPAGE -	SHELL							
LO -	STATFN	SHELL	PUTSYM	GETSYM	FNDREC			
LOC -	TSKXQT	PRESCN	GETARG	DMPDRV				
LOCARG -	PLTDRV							
LOCC -	LNKGTD							
LOCCYL -	LNKGTD							
LOCEC -	LNKGTD							
LOCECO -	LNKGTD							
LOCEC1 -	LNKGTD							
LOCEC2 -	PUTSYM	PUTSYM	GETSYM	FNDREC				
LOCEND -	SYMDEF							
LOCFST -	GETGEO							
LOGGEO -	DMPDRV							
LOCLIT -	SYMDEF	PUTSYM	GEODRV	FNDREC				
LOCLST -	GEODRV							
LOCNAM -	PUTSYM	GETSYM	GEODRV					
LOCNOW -	TSKXQT	PRESCN						
LOCNXT -	PRESCN							
LOCPN -	PLTDRV							
LOCR -	PUTSYM	GETSYM						
LOCSTR -	RESTRT							
LOCTP0 -	TSKXQT							
LOCTP1 -	TSKXQT	PRESCN						
LOCTSK -	PLTDRV							
LOCX -	PLTDRV							
LOCY -	ENDCAP	CYLNR						
LOC12 -	ENDCAP	CYLNR						
LOC34 -	ENDCAP	CYLNR						
LOC56 -	TSKXQT	FNDARG	BLKDAT					
LOOPMX -	PAGPLT							
LPRPGE -	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRLAT	SYSRTN	SYSCHK
LROUTN -	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
	RWFILS	RWCOMS	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT
	PUTKVV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
	PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN

INPUT Module

INDEX

***** SUPER INDEX *****

	LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
	GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
	FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
LRTNUM -	COORDS	CHVGTD	BUBBLE	BLKDAT				
	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
	RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
	PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
	PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
	LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
	GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
	FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
LSAVE -	COORDS	CHVGTD	BUBBLE	BLKDAT				
	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRNLAT	TRCEBK
	SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRTGTD
	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CONVRT
	CHVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
LSTARG -	TSKXQT	POSTIP						
LSTASK -	PLIST	FNDARG	BLKDAT					
LSTAT -	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
	RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
	PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
	PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	LNKJCT
	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG
	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG
	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS
	CHVGTD	BUBBLE	BLKDAT					
LSTBLK -	LNKJCT							
LSTCHK -	SYSCHK							
LSTCOL -	SCAN	LUSTAT	BLKDAT					
LSTCSV -	WYRDRV	GTDCS	COORDS	BLKDAT				
LSTDAT -	PLIST	FNDARG	BLKDAT					
LSTDFN -	WYRDRV							
LSTFNC -	BLKDAT							
LSTINP -	BLKDAT							
LSTINT -	PLIST	FNDARG	BLKDAT					
LSTIOD -	LNKJCT	BLKDAT						
LSTMN -	WYRDRV							
LSTMOD -	STATFN							
LSTNDX -	LNKJCT							
LSTPT -	WYRDRV							
LSTSGM -	WYRDRV							
LSTSYS -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK	SYMDEF	SUBPAT

INPUT Module

INDEX

***** SUPER INDEX *****

	STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	PRESCN	OPNFIL	MAIN
	INPDRV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
LSTTFF -	TSKXQT	BLKDAT						
LSTWRD -	PUTSYM	GETSYM						
LTRACE -	WYRDRV	TSKXQT	STATOT	STATIN	FNDARG	BLKDAT		
LUDBUG -	RESTRY	PREPAR	POSTPR	POSTIP	FNDARG	BLKDAT		
LUFIL -	RESTRY	OPNFIL						
LUNIT -	WRTFIL	RDEFIL						
LUPRNT -	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYCHK
	SYMUPD	SYMDEF	SUBPAT	STATOT	STATIN	STATFN	SCAN	SCALE3
	SCALE2	RWFILS	RWCOMS	RESTRY	RDEFIL	PUTSYM	PUTSEG	PUTPNT
	PUTKVV	PRTGTD	PRESCN	POSTIP	PLTDRV	PLATE	PATCH	PAGPLT
	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD	JCTION	INPDRV	GTDCS
	GETSYM	GETSEG	GETPNT	GETKVV	GETARG	GEODRV	FNDREC	FNDARG
	FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CNVGTD	BUBBLE
	BLKDAT	ASSIGN						
LUSAVE -	GEODRV							
LUSTAT -	SCAN							
LUTASK -	SCAN	LUSTAT	GEODRV	BLKDAT				
LWRUPR -	PUTSYM	GETSYM	FNDREC					
M -	SHELL	PRTGTD	PLTSEG	PLTDRV	PLATE	MAIN	LNKJCT	FLTPLT
MACHIN -	BLKDAT							
MANTSA -	IBITCK	BLKDAT						
MATCH -	WYRDRV	SYMSCH	PARSE	FNDARG				
MATNAM -	PUTSYM	GETSYM	FNDREC					
MATOP1 -	DMPDRV							
MATOP2 -	DMPDRV							
MAXBLK -	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKGTD	GETSEG	GETGEO
	GEODRV	CNVGTD	BUBBLE					
MAXCDS -	BLKDAT							
MAXCON -	BLKDAT							
MAXCSY -	WYRDRV	GEODRV	BLKDAT					
MAXCYL -	BLKDAT							
MAXDEF -	WYRDRV	GEODRV	BLKDAT					
MAXECP -	BLKDAT							
MAXELM -	WYRDRV							
MAXPLT -	BLKDAT							
MAXPTS -	PUTPNT	GEODRV	BLKDAT					
MAXRAD -	WYRDRV	GEODRV	BLKDAT					
MAXSEG -	WYRDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD
	JCTION	GETSEG	GETGEO	GEODRV	CNVGTD	BUBBLE	BLKDAT	
MAXSTR -	SYMDEF	PUTSYM	BLKDAT					
MAXWRD -	PUTSYM	GETSYM						
MAXO -	WYRDRV	SYMDEF	PUTSYM					
MBLK -	SUBPAT	PLTDRV						
MDLE -	RWCOMS							
ME -	PLTSEG	FLTPLT						
MINUS1 -	INPDRV	FNDARG						
MINO -	SUBPAT	PUTSYM	PUTSEG	PRTGTD	PLTSEG	PLTDRV	PLATE	MAIN
	LNKJCT	LNKGTD	JCTION	GETSYM	GEODRV	FNDREC	CNVGTD	BUBBLE

INPUT Module

I N D E X

***** SUPER INDEX *****

MITAG	-	WYRDRV							
MKMX	-	PARSE	BLKDAT						
MLIM	-	PLATE							
MLT	-	WYRDRV							
MLTA	-	FNDARG							
MLTARG	-	FNDARG							
MLTJCT	-	LNKJCT	JCTION	GEODRV					
MLTKWD	-	PARSE							
MM	-	PLTSEG							
MMAX	-	PRITGD							
MME	-	PLTSEG							
MMH	-	PLTSEG							
MN	-	WYRDRV	FNDREC						
MOD	-	WYRDRV	SUBPAT	PUTSEG	PRITGD	PLTSEG	PLTDRV	PLATE	PAGPLT
			LNKJCT	JCTION	IBITCK	GEODRV	CNVGTD	BUBBLE	
			LNKJCT	PUTSYM	BLKDAT				
			STATFN						
MODCHK	-	WRTCHK							
MODCOD	-	MAIN							
MODLST	-	STATFN	BLKDAT						
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STATFN	MAIN					
MORE	-	PUTSYM	GETSYM	FNDREC					
MOVE	-	MOVFIL							
MOVFIL	-	SUBPAT	PUTSYM	GETSYM	GEODRV	BUBBLE			
MOVURD	-	PUTSYM	MOVFIL						
MP	-	WYRDRV							
MPT1	-	WYRDRV							
MPT2	-	WYRDRV							
MSAVE	-	STATOT	STATIN						
MSEG1	-	WYRDRV							
MSEG2	-	WYRDRV							
MTAG	-	WYRDRV							
MULOPR	-	OMPDRV							
MXANCT	-	SCAN	BLKDAT						
MXARGS	-	TSKXQT	BLKDAT						
MXARGT	-	FNDARG	BLKDAT						
MXBKUP	-	PLTDRV							
MXBLKP	-	SUBPAT							
MXBLKW	-	SUBPAT	JCTION	GEODRV					
MXCDFG	-	BLKDAT							
MXCYAR	-	CYLNDR	BLKDAT						
MXDPCT	-	BLKDAT							
MXECAR	-	ENDCAP	BLKDAT						
MXEXFP	-	SCAN	BLKDAT						
MXEXPD	-	BLKDAT							
MXFPCT	-	SCAN	BLKDAT						
MXINCT	-	SCAN	BLKDAT						
MXMAT	-	FNDARG	BLKDAT						
MXPLAR	-	PLATE	BLKDAT						
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	SCAN	BLKDAT						

INPUT Module

I N D E X

***** SUPER INDEX *****

MXWALK	-	WLKBCK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2	FLTPLT					
M2	-	SCALE3	SCALE2	FLTPLT					
N	-	WYRDRV	TSKXQT	SYMUPD	SYMLIT	SYMDEF	SUBPAT	STATOT	STATIN
		SCAN	SCALE3	SCALE2	PUTSYM	PRTGTD	PRESCN	POSTIP	PLTSEG
		PLTDRV	PLIST	PLATE	PATCH	PARSE	PAGPLT	MOVFIL	MAIN
		LUSTAT	INPDRV	GETARG	GEODRV	FNDARG	FLTPLT	ENDCAP	DMPDRV
		CYLNDR	BUBBLE						
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FNDARG			
NAL	-	SCALE3	SCALE2						
NAM	-	RESTRT							
NAMCOM	-	RWCOMS							
NAMCPF	-	RESTRT							
NAMDAT	-	PLTDRV	GEODRV						
NAMDEF	-	BLKDAT							
NAME	-	ZZXDUM	WYRDRV	SYMSCH	SYMDEF	SUBPAT	STATOT	STATIN	RWFILS
		RWCOMS	RESTRT	PUTKWV	POSTIP	PLTDRV	GETKWV	GETKWD	
NAMEA	-	TSKXQT							
NAMEB	-	TSKXQT							
NAMEX	-	TSKXQT							
NAMEYR	-	GETGEO							
NAMFIL	-	DMPDRV							
NAMGEO	-	TSKXQT	GETGEO	GEODRV					
NAMLST	-	GEODRV							
NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPTS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	SYMUPD	PUTSYM	GETSYM	FNDREC				
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	SUBPAT	RESTRT	PUTSEG	GETSEG	GETGEO	GEODRV	BLKDAT	
NAMSRC	-	PLTDRV							
NAMSUB	-	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	TRCEBK	SYSRTN	
		SYSCHK	SYMUPD	SYMLIT	SYMDEF	SUBPAT	STATOT	STATIN	
		STATFN	SHELL	SCAN	SCALE3	RWFILS	RWCOMS	ROTATE	
		RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRESCN	
		PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE	
		PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD	LITSCH
		JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT	GETKWV
		GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT	FABLOZ
		ERROR	ENDCAP	EFDGeo	DMPDRV	CYLNDR	COORDS	CNVGTD	CLSFIL
		BUBBLE	ASSIGN						
NAMSYM	-	SYMUPD	GETARG	DMPDRV					
NAMTSK	-	TSKXQT	PREPAR	POSTIP	BLKDAT				
NARGLM	-	FNDARG							
NARGMX	-	SYMLIT	PLIST	PARSE	INPDRV	FNDARG	BLKDAT		

INPUT Module

I N D E X

***** SUPER INDEX *****

NARGN	-	FNDARG							
NARGS	-	WYDRV	SCAN	PLATE	ENDCAP	CYLNR			
NARGTB	-	TSKXQT	SYMLIT	RESTR	PRESCN	POSTPR	POSTIP	PLIST	PARSE
		INPDRV	FNDARG	BLKDAT					
NARGTP	-	FNDARG							
NARITH	-	BLKDAT							
NARROM	-	INPDRV							
NBIT	-	SUBPAT							
NBITS	-	IBITCK							
NBITWO	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBLANK	-	BLKDAT							
NBLK	-	WYDRV	LNKJCT						
NBS	-	CONVRT							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYTSZ	-	SCAN	CONVRT	BLKDAT					
NC	-	PLTDRV	PLATE						
NCARD	-	SCAN	LUSTAT	INPDRV	BLKDAT				
NCARDS	-	SCAN	INPDRV	BLKDAT					
NCCARD	-	SCAN							
NCCLAS	-	BLKDAT							
NCDNDX	-	POSTIP							
NCDNTB	-	PARSE	FNDARG						
NCHAR	-	SCAN	CONVRT	BLKDAT					
NCHLIN	-	PAGPLT							
NCLNK	-	PLATE							
NCODE	-	WYDRV	SYMSCH	SYMLIT	SCAN	PREPAR	PLIST	PLATE	PATCH
		PARSE	LITSCH	INPDRV	GETKWD	FNDARG	ENDCAP	CYLNR	BLKDAT
NCODES	-	WYDRV	TSKXQT	SCAN	RESTR	PUTKWV	PREPAR	POSTPR	POSTIP
		MAIN	GETKWV	GETKWD	GETGEO	GEODRV	BLKDAT		
NCOL	-	BLKDAT							
NCOLS	-	SYMDEF							
NCOL1	-	SYMDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCD	-	SCAN							
NCOMCH	-	SCAN	BLKDAT						
NCOMMA	-	BLKDAT							
NCOMS2	-	RVCMS							
NCON	-	SUBPAT	CNVGTD	BLKDAT					
NCOMCH	-	SCAN	BLKDAT						
NCONT	-	SUBPAT	GEODRV						
NCON1	-	BLKDAT							
NCORN	-	WYDRV	PRTGTD	PLTSEG	PLATE				
NCYL	-	LNKGTD							
NC1	-	PLTDRV							
NC2	-	PLTDRV							
NBATBL	-	TSKXQT	SYMUPD	SYMSCH	SYMDEF	SUBPAT	RWFILS	RESTR	PUTSYM
		POSTPR	POSTIP	PLTDRV	GETSYM	GETGEO	GETARG	GEODRV	FNDREC
		EFGEO	DMPDRV	BLKDAT					

INPUT Module

I N D E X

***** SUPER INDEX *****

NDATMX -	SYMSCH	SYMDEF	FNDARG	BLKDAT					
NDCARD -	SCAN								
NDEBUF -	GEODRV	BLKDAT							
NDEBUG -	RESTR	PREPAR	POSTPR	FNDARG					
NDF -	RWFILS								
NDFALT -	GETARG								
NDFILE -	WRTFIL	SYMUPD	SCAN	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	
	CLSFIL	BLKDAT							
NDIG -	BLKDAT								
NDIGIT -	BLKDAT								
NDTASK -	PARSE	BLKDAT							
NDX -	WYDRV	TSKXGT	PUTKWV	PLDRV	GETKWV				
NDXARG -	GETARG	FNDARG	EFDGEO	DMPDRV					
NDXBLK -	WYDRV	SUBPAT	RESTR	PUTSEG	PRTGTD	PLTSEG	LNKJCT	JCTION	
	GETSEG	GEODRV	BUBBLE						
NDXDAT -	PLDRV								
NDXEND -	SCAN								
NDXERR -	WYDRV								
NDXGEN -	PLDRV								
NDXKWD -	PUTKWV	GETKWV							
NDXKYW -	DMPDRV								
NDXNAM -	POSTIP								
NDXNCD -	RESTR								
NDXOFF -	WYDRV								
NDXON -	WYDRV								
NDXRX -	WYDRV								
NDXRY -	WYDRV								
NDXRZ -	WYDRV								
NDXSAV -	PLTSEG								
NDXTRC -	WYDRV								
NDXTSK -	POSTIP								
NEC -	PRTGTD	LNKGTD							
NECO -	LNKGTD								
NEED -	SYMDEF								
NELMNT -	SUBPAT								
NENDCD -	BLKDAT								
NEOFLG -	WYDRV	BLKDAT							
NERCL1 -	BLKDAT								
NERCOD -	GETKWD	BLKDAT							
NERCOM -	BLKDAT								
NERDPN -	BLKDAT								
NEREOF -	BLKDAT								
NEREXD -	BLKDAT								
NEREXF -	BLKDAT								
NEREXP -	BLKDAT								
NERINT -	BLKDAT								
NERNAM -	BLKDAT								
NEWDAT -	SYMUPD								
NEWNAM -	WYDRV	SYMUPD							
NEWNUM -	WYDRV								

INPUT Module

I N D E X

***** SUPER INDEX *****

NEWSEG -	BUBBLE							
NEWSYM -	SYMDEF							
NEXTI -	PAGPLT							
NFILE -	RWFILS							
NFILES -	SYMDEF	RWCOMS	PUTKWV	GETKWV	ERROR	BLKDAT		
NFINCD -	RESTRY	PARSE	INPDRV	BLKDAT				
NFLDS -	SCAN							
NFRAC -	BLKDAT							
NG -	GEODRV							
NI -	PAGPLT							
NI1 -	BLKDAT							
NINT -	BLKDAT							
NITEMS -	STATFN	SHELL						
NI1 -	POSTPR							
NI2 -	POSTPR							
NI3 -	POSTPR							
NI4 -	POSTPR							
NI5 -	POSTPR							
NKEYW -	PARSE	FNDARG						
NLETR -	BLKDAT							
NLOOP -	INPDRV	FNDARG						
NLOOPS -	TSKXQT	POSTPR	POSTIP	INPDRV	FNDARG	BLKDAT		
NM -	PLATE	PARSE	ENDCAP	CYLNR				
NMARG -	PRESCN							
NMARGS -	POSTIP							
NMKWDS -	PARSE							
NMLITN -	POSTIP							
NMLOOP -	POSTIP							
NMLTKV -	PARSE							
NMNAHS -	BLKDAT							
NMOD -	PAGPLT							
NMP -	WYRDRV							
NMSPTR -	BLKDAT							
NMSYMB -	POSTIP							
NMTASK -	POSTIP							
NMTMS -	BLKDAT							
NMURDS -	RWCOMS							
NM1 -	PRESCN							
NM -	SUBPAT	PATCH	GEODRV					
NNCON -	SUBPAT							
NINDEX -	BUBBLE							
NNN -	PLTDRV							
NOEND -	BLKDAT							
NOGOFG -	WYRDRV	TSKXQT	SUBPAT	SCAN	RWCOMS	PLTDRV	PLATE	PATCH
	MAIN	LNKJCT	LNKGTD	JCTION	INPDRV	GEODRV	ENDCAP	EDGEO
	DMPDRV	CYLNR	CNVGTD	BUBBLE	BLKDAT			
NOLD -	SUBPAT							
NOMTCH -	SYMSCH	PARSE	FNDARG					
NOP -	TSKXQT	TRNLAT	ROTATE					
NOPCOD -	TSKXQT	SUBPAT	RESTRY	PLTDRV	PARSI	LIISCH	INPDRV	GETARG

INPUT Module

I N D E X

***** SUPER INDEX *****

	GEODRV	EFDGEO	DMPDRV	BLKDAT				
NOPNAM -	CONVRT							
NORM -	PATCH							
NOSTAT -	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRNLAT	TRCEBK
	YSRTRN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRTGTD
	PRESCH	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLY
	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CONVRT
	CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
NOTASK -	BLKDAT							
NP -	SCAN	SCALE3	SCALE2	PUTSYM	PLTDRV	PAGPLT		
NPARAM -	PLIST							
NPAREN -	BLKDAT							
NPARGL -	SYMLIT	POSTPR	POSTIP	PLIST	PARSE	INPDRV	FNDARG	
NPARGT -	FNDARG							
NPATCH -	WYRDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD
	JCTION	GETGEO	GEODRV	BUBBLE	BLKDAT			
NPDSV -	SYMDEF							
NPDATA -	SYMUPD	SYMSCH	SYMDEF	SUBPAT	RWFILS	RESTRT	PUTSYM	POSTPR
	POSTIP	PLTDRV	PARSE	INPDRV	GETSYM	GETARG	FNDREC	EFDGEO
	DMPDRV							
NPEAR -	SYMLIT	PLIST	PARSE	INPDRV	FNDARG	BLKDAT		
NPEDPC -	BLKDAT							
NPEDPL -	BLKDAT							
NPEDRM -	BLKDAT							
NPEIFO -	PARSE	BLKDAT						
NPEKWD -	BLKDAT							
NPELAB -	FNDARG	BLKDAT						
NPELIT -	LITSCH	INPDRV	BLKDAT					
NPELNF -	INPDRV							
NPELNL -	FNDARG	BLKDAT						
NPELOO -	INPDRV	FNDARG	BLKDAT					
NPELOP -	FNDARG	BLKDAT						
NPELST -	PLIST	BLKDAT						
HPENOI -	PLIST	BLKDAT						
HPENOM -	SYMSCH	BLKDAT						
HPENRG -	BLKDAT							
HPENTK -	BLKDAT							
HPENUM -	LITSCH	BLKDAT						
HPERGE -	PLIST	BLKDAT						
HPEROD -	BLKDAT							
HPESC -	PARSE	INPDRV	FNDARG	BLKDAT				
HPESX -	SYMSCH	BLKDAT						
HPESY -	SYMSCH	INPDRV	BLKDAT					
HPETSK -	PARSE	INPDRV	FNDARG	BLKDAT				
HPLITN -	POSTPR	POSTIP	PARSE	LITSCH	INPDRV			

INPUT Module

I N D E X

***** SUPER INDEX *****

NPLOOP	-	POSTPR	POSTIP	PARSE	INPDRV	FNDARG			
NPRBUF	-	RWFILS	MOVFIL						
NPRDEF	-	GEODRV	BLKDAT						
NPRELM	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NPRMSG	-	WYDRV	FABLO2						
NPRPLT	-	PLTDRV							
NPRPRT	-	PUTSYM	MAIN	GETSYM	FNDREC				
NPRPT	-	GEODRV	BLKDAT						
NPRREC	-	RWFILS	PUTSYM	PLTDRV	GETSYM	GEODRV	FNDREC		
NPRSEG	-	SUBPAT	PUTSEG	GEODRV	BUBBLE	BLKDAT			
NPRSER	-	SYMSCH	SYMLIT	PLIST	PARSE	LITSCH	INPDRV	FNDARG	BLKDAT
NPSAV	-	DMPDRV							
NPTASK	-	TSKXQT	RESTR	PRESCN	POSTPR	POSTIP	PARSE	INPDRV	FNDARG
NPTBUF	-	GEODRV	BLKDAT						
NPTS	-	WYDRV	GETPNT						
NPTSAV	-	WYDRV							
NP1	-	SCAN							
NR	-	PLTDRV							
NRAD	-	WYDRV	GEODRV						
NRDCDF	-	INPDRV							
NREAD	-	WRTCHK	RWFILS	RWCOMS	RESTR				
NRECS	-	RWFILS	PUTSYM						
NRESTF	-	PARSE	INPDRV						
NRF	-	WYDRV							
NRFL	-	WYDRV							
NRFP4	-	WYDRV							
NRFP5	-	WYDRV							
NRNAMS	-	STATFN	BLKDAT	ASSIGN					
NROWS	-	SYMDEF							
NROW1	-	SYMDEF	DMPDRV						
NROW2	-	DMPDRV							
NRSTRT	-	PRESCN	PARSE						
NRSUBS	-	STATFN	RWCOMS	BLKDAT					
NRTIMS	-	STATIN	STATFN	RWCOMS	BLKDAT				
NR1	-	PLTDRV							
NR2	-	PLTDRV							
NS	-	SYMUPD	SYMDEF	RWFILS	BUBBLE				
NSCNER	-	WYDRV	SCAN	INPDRV	GETKWD	BLKDAT			
NSCOL	-	SCAN							
NSEG	-	WYDRV							
NSGSAV	-	WYDRV							
NSGTBL	-	PLATE	ENDCAP	CYLNR					
NSH	-	CONVRT							
NSHFTS	-	BLKDAT							
NSIGN	-	LITSCH							
NSTEP	-	PARSE							
NSYMBL	-	SYMUPD	SYMDEF						
NT	-	TSKXQT							
NTAB	-	SYMSCH	SYMLIT	SCAN	PLIST	PARSE	LITSCH	GETKWD	FNDARG
		BLKDAT							

INPUT Module

I N D E X

***** SUPER INDEX *****

NTABSV	-	SCAN							
NTAB1	-	SCAN							
NTALPH	-	WYRDRV	SYMLIT	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PATCH
		PARSE	LITSCH	FNDARG	BLKDAT				
NTASK	-	PARSE	BLKDAT						
NTASKS	-	BLKDAT							
NTDM	-	PARSE	BLKDAT						
NTDPF1	-	BLKDAT							
NTDPF2	-	BLKDAT							
NTEMPS	-	RWFILS	PUTSYM	MOVFIL	BLKDAT				
NTEND	-	SCAN	PREPAR	PLIST	PARSE	FNDARG	BLKDAT		
NTERR	-	PREPAR	PLIST	LITSCH	BLKDAT				
NTFLPT	-	WYRDRV	SCAN	PLATE	PARSE	LITSCH	GETARG	FNDARG	ENDCAP
		DMPDRV	CYLNDR	BLKDAT					
NTFMTP	-	PARSE	FNDARG						
NTFP	-	PARSE	FNDARG						
NTFTLM	-	PARSE							
NTINT	-	WYRDRV	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PLATE	PATCH
		PARSE	LITSCH	GETARG	GEODRV	FNDARG	ENDCAP	DMPDRV	CYLNDR
		BLKDAT							
NTKEYW	-	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PARSE	LITSCH	GETKWD
		FNDARG	DMPDRV	BLKDAT					
NTPARG	-	GETARG							
NTPGTD	-	PRTGTD	LNKGTD	BLKDAT					
NTRBLK	-	PUTSEG							
NTRY	-	PRTGTD	PLTSEG						
NTSFPT	-	PLIST	PARSE	FNDARG	BLKDAT				
NTSK	-	PRESCN							
NTSKMX	-	PARSE	BLKDAT						
NTSKTB	-	TSKXQT	RESTRT	PRESCN	POSTPR	POSTIP	PARSE	BLKDAT	
NTSYMB	-	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PARSE	LITSCH	GETGEO
		GETARG	GEODRV	FNDARG	DMPDRV	BLKDAT			
NTTASK	-	PREPAR	BLKDAT						
NTYPE	-	PRTGTD							
NU	-	PATCH							
NUMARG	-	ZZXDUM	TSKXQT	PLTDRV	EFDGEO	DMPDRV	BLKDAT		
NUMBLK	-	WYRDRV	PUTSEG	GETSEG					
NUMCHK	-	WRTCHK	RESTRT	BLKDAT					
NUMCHR	-	SCAN							
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCON	-	JCTION							
NUMCPF	-	RESTRT							
NUMCY	-	PRTGTD	CYLNDR						
NUMCYL	-	PUTSEG	PRTGTD	GEODRV	BLKDAT				
NUMDEC	-	SCAN							
NUMDEF	-	WYRDRV							
NUMEC	-	ENDCAP							
NUMECP	-	PUTSEG	PRTGTD	GEODRV	BLKDAT				
NUMELM	-	WYRDRV							

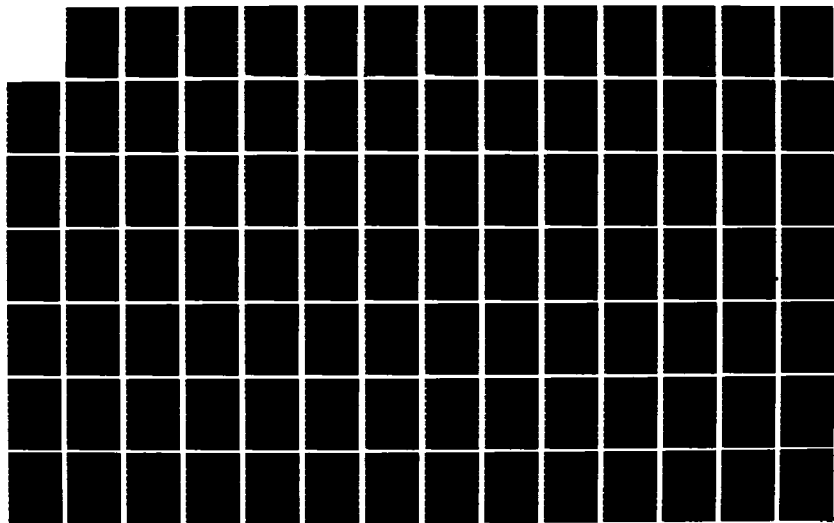
AD-A137 510

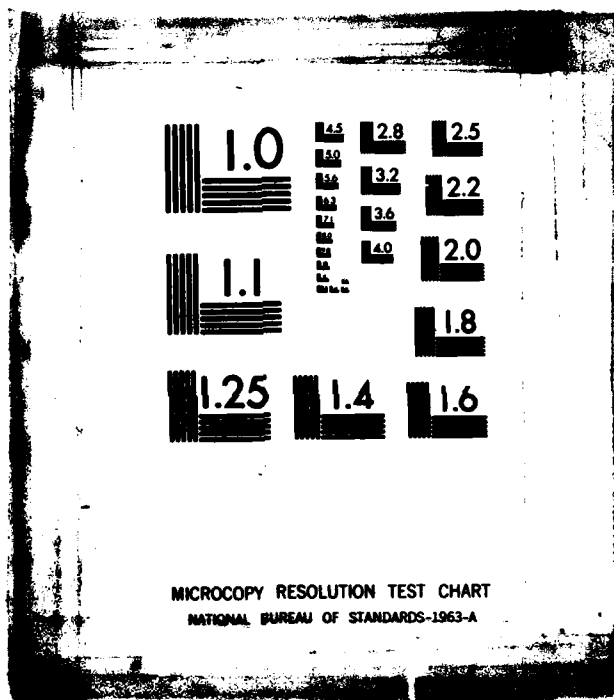
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4
RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14

3/5

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

INPUT Module

I N D E X

***** SUPER INDEX *****

NUMFLD -	SCAN								
NUMFMS -	WYDRV								
NUMGTD -	WYDRV	SUBPAT	PUTSEG	GEODRV	BUBBLE	BLKDAT			
NUMJCT -	LNKJCT								
NUMLFT -	RDEFIL								
NUMNEG -	JCTION								
NUMPL -	PRTGTD	PLTSEG	PLATE						
NUMPLT -	PUTSEG	PRTGTD	PLTSEG	GEODRV	BLKDAT				
NUMPOS -	JCTION								
NUMPTS -	WYDRV	PUTPNT	GEODRV	BLKDAT					
NUMREC -	SCAN	RWFILS	RESTR						
NUMREN -	WYDRV								
NUMROW -	PUTSYM	GETSYM	FNDREC						
NUMSD -	STATOT	STATIN	ASSIGN						
NUMSEG -	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLATE	LNKGTD	GETGEO	
	GEODRV	BUBBLE	BLKDAT						
NUMSUB -	ZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXGT	TRNLAT	TRCEBK	SYSRTN	
	SYSCHK	SYMPD	SYMSCH	SYMLIT	SYNDEF	SUBPAT	STATOT	STATIN	
	STATFM	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS	ROTATE	
	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRTGTD	PRESCN	
	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE	PATCH	
	PARSE	PAGPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGTD	LITSCH	
	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT	GETKWV	
	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT	FABLO2	
	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS	CNVGTD	BUBBLE	
	ASSIGN								
NUMSYM -	GETARG								
NUMTSK -	TSKXGT	OPNFIL							
NUMWIP -	PRESCN	BLKDAT							
NUMWP -	SUBPAT	PLTDRV							
NUMWRD -	WYDRV	SYMSCH	SYMLIT	SYNDEF	PLIST	PARSE	LITSCH	FNDARG	
NVAL -	WYDRV	TSKXGT	SYMSCH	SYMLIT	SCAN	RWFILS	RESTR	PUTKWV	
	PREPAR	POSTPR	POSTIP	PLIST	PLATE	PATCH	PARSE	MAIN	
	LITSCH	INPDRV	GETKWV	GETKWD	GEODRV	FNDARG	FABLO2	ENDCAP	
	EFDGEO	DMPDRV	CYLNR	BLKDAT					
	SCAN	PREPAR	PLIST	INPDRV	GETKWD	BLKDAT			
NVALMX -	SCAN								
NW -	CONVRT								
NUMSIZ -	CONVRT	BLKDAT							
NUMRE -	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD	
	JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE	BLKDAT			
NUMRD -	CONVRT								
NUMRDS -	WRTFIL	RDEFIL							
NX -	SCALE3	SCALE2	PLTDRV						
NXINT -	PAGPLT								
NXT -	PLTDRV	MAIN							
NXTARG -	POSTPR	DMPDRV							
NXTBLK -	SUBPAT	BUBBLE							
NXTCHR -	SCAN								
NXTPT -	WYDRV								
NXTS -	PLTDRV								

INPUT Module

INDEX

***** SUPER INDEX *****

NXTSEG -	WYDRV								
NXTSYM -	SYNDEF	BLKDAT							
NXTTMP -	MAIN								
NXTISK -	TSKXQT								
NXTWRD -	CONVRT								
NXVAL -	PAGPLT								
NY -	PLTDRV								
NYINT -	PAGPLT								
NYRSYM -	WYDRV	GEODRV							
NYV -	PAGPLT								
NYVAL -	PAGPLT								
NO -	GETSYM								
N1 -	PUTSYM	POSTPR	PLATE	FNDARG					
N2 -	PUTSYM	POSTPR	PLATE	MAIN	ENDCAP	CYLNR			
N3 -	POSTPR								
N4 -	POSTPR								
N5 -	POSTPR								
OPNFIL -	WRTCHK	SYNDEF	SUBPAT	STATFN	RWFILS	PUTSYM	GEODRV	BUBBLE	
P -	PLTDRV								
PAGPLT -	PLTDRV								
PAREA -	GEODRV								
PARSE -	INPDRV								
PARTB -	RWCONS								
PATCH -	WYDRV								
PCNT -	STATFN								
PHI -	ROTATE	PATCH	GEODRV	ENDCAP	CYLNR				
PHID -	RTGTD								
PHIR -	LNKGTB	GTDCS							
PHISV -	ROTATE								
PHI1 -	ENDCAP								
PLATE -	WYDRV								
PLIST -	FNDARG								
PLTDRV -	TSKXQT								
PLTSEG -	CHVGTB								
POSTIP -	RESTR	INPDRV							
POSTPR -	PARSE								
PREPAR -	PARSE								
PRESCH -	INPDRV								
PTGTD -	GEODRV								
PSI -	ROTATE								
PSISV -	ROTATE								
PTINE -	TICHEK	STATOT	STATIN						
PTTDL -	WYDRV	PUTPNT	JCTION	GETPNT	GEODRV	BUBBLE	BLKDAT		
PUTKUV -	DMPDRV								
PUTPNT -	WYDRV	LNKGTB	ENDCAP	CYLNR					
PUTSEG -	WYDRV	PLATE	PATCH	ENDCAP	CYLNR				
PUTSYM -	WRTCHK	SUBPAT	RWFILS	RESTR	PUTSEG	GETSEG	GEODRV	DMPDRV	
R -	WYDRV	PUTSEG	PLTDRV	DMPDRV					
RAD -	WYDRV	GEODRV	BLKDAT						
RADII -	GEODRV								

INPUT Module

INDEX

***** SUPER INDEX *****

RD	-	PLTSEG							
RDEFIL	-	SUBPAT	RMFILS	RVCOMS	RESTRY	PUTSYM	NOVFIL	GETSYM	GEODRV
		BUBBLE							
RDM	-	WYDRV	PATCH						
READ	-	RVCOMS	RDEFIL	LUSTAT					
REFN	-	PUTKVV	GETKVV	BLKDAT					
REFLCT	-	WYDRV							
REFLEC	-	WYDRV							
REFV	-	PUTKVV	GETKVV	BLKDAT					
RENUM	-	WYDRV							
RESTRY	-	INPRV							
RETURN	-	ZZXDM	WYDRV	WRTFIL	WRTCHK	WLKCK	TSKXGT	TRNLAT	TRCEBK
		TICHR	SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYNLIT	SYMDEF	SUBPAT
		STATOT	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RMFILS
		RVCOMS	ROTATE	RESTRY	REFLCT	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKVV	PRIGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	NOVFIL	LUSTAT
		LNKJCT	LNKGTB	LITSCH	JCTION	INPRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKVV	GETKVD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	BNPRV	CYLNR
		COORDS	CONVRT	CNVGTD	CLSFIL	BUBBLE	ASSIGN		
RN	-	SUBPAT	GEODRV						
RNO	-	GTDCS	GEODRV						
RNOB2	-	GTDCS							
RI	-	JCTION							
RITEMS	-	STATFN							
RJ	-	JCTION							
RMIN	-	JCTION							
ROP1	-	BNPRV							
ROP2	-	BNPRV							
ROTAT	-	WYDRV							
ROTATE	-	WYDRV	PATCH	GTDCS	COORDS				
ROX	-	GTDCS	COORDS						
ROY	-	GTDCS	COORDS						
ROZ	-	GTDCS	COORDS						
RP	-	PLTSEG							
RSD	-	JCTION							
RESTART	-	WRTFIL	WRTCHK	WLKCK	TSKXGT	TRCEBK	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	PRESCN	OPNFIL	MAIN
		INPRV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
RSTRYA	-	WRTFIL	WRTCHK	WLKCK	TSKXGT	TRCEBK	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	PRESCN	OPNFIL	MAIN
		INPRV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
RSUMS	-	STATOT	STATIN	STATFN	RVCOMS	BLKDAT			
RTENS	-	STATOT	STATIN	BLKDAT					
RU	-	JCTION							
RUCONS	-	WRTCHK	RESTRY						
RUFILS	-	WRTCHK	RESTRY						
RU	-	ROTATE	GTDCS	COORDS					
RVY	-	GEODRV							

INPUT Module

INDEX

***** SUPER INDEX *****

RY	-	ROTATE	GTDCS	COORDS					
RZ	-	ROTATE	GTDCS	COORDS					
S	-	WYRDRV	PATCH						
SAVDAT	-	BUBBLE							
SCALE	-	WYRDRV	PLATE	PATCH	LNKGTD	GEODRV	CYLNDR	BLKDAT	
SCALE3	-	WYRDRV	BLKDAT						
SCALE2	-	WYRDRV							
SCALE3	-	PAGPLT							
SCAN	-	WYRDRV	INPDRV						
SCNPR	-	RUCONS							
SECL	-	GEODRV							
SEGS	-	PLTDRV							
SEGTDL	-	WYRDRV	WRTCHK	TSKXQT	SUBPAT	RWFILS	RESTRY	PUTSEG	PUTPNT
		PRTGTD	PLTSEG	PLTDRV	PLATE	PATCH	LNKJCT	LNKGTD	JCTION
		GETSEG	GETGEO	GEODRV	ENDCAP	CYLNDR	CNVGTD	BUBBLE	BLKDAT
		RUCONS							
SGMNT	-	STATFN	MAIN						
SMELL	-	SUBPAT							
SIDE	-	PUTKUV		BLKDAT					
SIGMA	-	ROTATE							
SIN	-	GEODRV							
SINALP	-	GEODRV							
SINDET	-	GEODRV							
SNSTR	-	RUCONS							
SORT	-	WYRDRV	SUBPAT	PUTSEG	PUTPNT	PRTGTD	PLTSEG	PLTDRV	PLATE
		PATCH	LNKJCT	LNKGTD	JCTION	GETSEG	GEODRV	ENDCAP	CYLNDR
		CNVGTD	BUBBLE	BLKDAT					
		ROTATE	PATCH						
SP	-	SUBPAT	PLTSEG	PLTDRV	GTDCS	GEODRV	FLTPLT		
SPORT	-	WRTCHK							
SRAY	-	ROTATE							
SS	-	ROTATE							
ST	-	ROTATE	PATCH	GTDCS					
STATFN	-	MAIN	ERROR						
STATIN	-	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	YSRTH	YSCHK
		SYNUPD	SYNSCH	SYMLIT	SYNDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RUCONS	ROTATE	RESTRY	RDEFIL	PUTSYN	PUTSEG	PUTPNT
		PUTKUV	PRTGTD	PRESCR	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	LNKJCT
		LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYN	GETSEG
		GETPNT	GETKUV	GETKUD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG
		FLTPLT	FABLOZ	ERROR	ENDCAP	EFGEO	DMPDRV	CYLNDR	COORDS
		CNVGTD	BUBBLE						
STATCT	-	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	YSRTH	YSCHK
		SYNUPD	SYNSCH	SYMLIT	SYNDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RUCONS	ROTATE	RESTRY	RDEFIL	PUTSYN	PUTSEG	PUTPNT
		PUTKUV	PRTGTD	PRESCR	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	LNKJCT
		LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYN	GETSEG
		GETPNT	GETKUV	GETKUD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG
		FLTPLT	FABLOZ	ERROR	ENDCAP	EFGEO	DMPDRV	CYLNDR	COORDS
		CNVGTD	BUBBLE						

INPUT Module

INDEX

***** SUPER INDEX *****

STOP	-	WRTFIL	WLKBC	TSKXGT	SYSCHK	SYMUPD	SYMDEF	RWFILS	RESTR
		RDEFIL	PUTSYM	PUTPNT	PUTKWV	PRESCN	PLTDRV	OPNFIL	MOVFIL
		MAIN	GETSYM	GETKWV	GETARG	FNDREC	DMPDRV	COORDS	CNVGTD
SUBOPR	-	DMPDRV							
SUBPAT	-	GEODRV							
SYMDEF	-	SUBPAT	PUTSYM	GEODRV	DMPDRV				
SYMLIT	-	PARSE	FNDARG						
SYMSCH	-	SYMLIT	PLIST	FNDARG					
SYMUPD	-	TSKXGT	SUBPAT	PUTSEG	GEODRV				
SYSCHK	-	TSKXGT							
SYSFL	-	RWCOMS							
SYSLST	-	WRTFIL	WRTCHK	WLKBC	TSKXGT	TRCEBK	SYMDEF	SUBPAT	
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	MAIN	
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
SYSRTH	-	MAIN							
T	-	WRTCHK	TICKEK						
TAGS	-	PLTDRV							
TEMP	-	WRTCHK	SYMDEF	RWFILS	RWCOMS	RESTR	PUTSYM	PLTDRV	MOVFIL
		MAIN	GEODRV	DMPDRV	BUBBLE	BLKDAT			
THETA	-	ROTATE	PATCH	GEODRV	ENDCAP	CYLNDR			
THETA0	-	PRGT0							
THETA1	-	LNKGT0	GTDCS						
THETA1	-	ENDCAP							
THSV	-	ROTATE							
TICKEK	-	WRTCHK	TSKXGT	SYSCHK					
TICKEK	-	SYSCHK							
TIME	-	SYSRTH	MAIN						
TIMEN	-	STATIN							
TIMOUT	-	STATOT							
TIMGO	-	SYSCHK	PUTKWV	GETKWV	BLKDAT				
VLAST	-	TICKEK	SYSCHK						
TRPDRV	-	PUTSYM	GETSYM						
TRDR	-	TSKXGT	SYSCHK						
TOTAL	-	STATFN							
TRCEPI	-	BLKDAT							
TRACE	-	MAIN							
TRACST	-	ZZDRV	WYDRV	WRTFIL	WRTCHK	WLKBC	TSKXGT	TRNLAT	TRCEBK
		SYSRTH	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
		ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRGT0
		PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PASPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGT0
		LITSC	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
		GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLOZ	ERROR	ENDCAP	EFBGEO	DMPDRV	CYLNDR	COORDS	CONVRT
		CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
TRNLAT	-	WYDRV							
TRCEBK	-	WLKBC	ERROR						
TRNLAT	-	WYDRV	COORDS						
TS	-	TICKEK							

INPUT Module

I N D E X

***** SUPER INDEX *****

		INPDRV	GTDCS	GETSYN	GETSEG	GETPNT	GETKWV	GETARG	GEODRV
		FNDREC	FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNRD	COORDS	CNVGTD
		BUBBLE	ASSIGN						
VRTCHK	-	SYSCHK	STATFN	ERROR					
VRTFIL	-	VRTCHK	SUBPAT	RMFILS	RVCOMS	PUTSYN	GEODRV	BUBBLE	
WYDRV	-	GEODRV							
Y	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLTSEG	PLTDRV	PLATE	PAGPLT
		FLTPLT	COORDS						
XC	-	GEODRV	CNVGTD						
XCP	-	JCTION							
XCPA	-	PATCH	GEODRV						
XCPJ	-	JCTION							
XD	-	GTDCS							
XMAX	-	SCALE3	SCALE2	PAGPLT					
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMI	-	JCTION							
XMIN	-	SCALE3	SCALE2	PAGPLT					
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XNJ	-	JCTION							
XNW	-	JCTION							
XN	-	WYDRV	GEODRV	CNVGTD					
XNPA	-	SUBPAT	PATCH	GEODRV					
XP	-	WYDRV	PUTPNT	PLTSEG	PATCH	PAGPLT	GEODRV	CNVGTD	
XPC	-	SUBPAT							
XPI	-	JCTION							
XPJ	-	JCTION							
XPU	-	JCTION							
XQ	-	WYDRV							
XQ	-	PLTSEG							
XSUBPA	-	SUBPAT							
XT	-	PLTSEG							
XTL	-	LNKGTD	GTDCS	CYLNRD					
XU	-	GEODRV							
XVAL	-	PAGPLT							
XWORDS	-	VRTFIL	RDEFIL						
XX	-	PLATE							
XX1	-	PUTSEG							
X1	-	WYDRV	ROTATE	PUTSEG	GETPNT				
X12	-	PATCH							
X13	-	PATCH							
X2	-	WYDRV	PUTSEG	PATCH	GETPNT				
X23	-	WYDRV							
X3	-	WYDRV	PUTSEG						
Y	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLTDRV	PLATE	PAGPLT	FLTPLT
		COORDS							
YC	-	GEODRV	CNVGTD						
YCP	-	JCTION							
YCPA	-	PATCH	GEODRV						

INPUT Module

I N D E X

***** SUPER INDEX *****

YCPJ	-	JCTION							
YD	-	GTDCS							
YHAX	-	PAGPLT							
YHAXP	-	PAGPLT							
YHI	-	JCTION							
YHIN	-	PAGPLT							
YHINP	-	PAGPLT							
YHJ	-	JCTION							
YHV	-	JCTION							
YH	-	WYDRV	GEODRV	CHVGTB					
YHPA	-	SUBPAT	PATCH	GEODRV					
YP	-	WYDRV	PUTPNT	PLTSEG	PATCH	PAGPLT	GEODRV	CHVGTB	
YPC	-	SUBPAT							
YPI	-	JCTION							
YPJ	-	JCTION							
YPU	-	JCTION							
YQ	-	WYDRV							
YS	-	PLTSEG							
YSSTAT	-	TSKXGT							
YSUBPA	-	SUBPAT							
YTRL	-	LNKGTB	GTDCS	CYLNDR					
YU	-	GEODRV							
YVAL	-	PAGPLT							
YV	-	PLATE							
Y1	-	WYDRV	ROTATE	PUTSEG	GETPNT				
Y12	-	PATCH							
Y13	-	PATCH							
Y2	-	WYDRV	PUTSEG	PATCH	GETPNT				
Y2S	-	WYDRV							
Y3	-	WYDRV	PUTSEG						
Z	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLATE	FLTPLT	COORDS	
ZC	-	GEODRV	CHVGTB						
ZCP	-	JCTION							
ZCPA	-	PATCH	GEODRV						
ZCPJ	-	JCTION							
ZD	-	GTDCS							
ZERO	-	WYDRV	SYSCHK	SUBPAT	PUTKWV	PLTSEG	PAGPLT	JCTION	GTDCS
		GEODRV	BLKDAT						
ZEROSB	-	JCTION							
ZLOC	-	LNKGTB							
ZNI	-	JCTION							
ZNJ	-	JCTION							
ZNW	-	JCTION							
ZH	-	WYDRV	GEODRV	CHVGTB					
ZHPA	-	SUBPAT	PATCH	GEODRV					
ZP	-	WYDRV	PUTPNT	PLTSEG	PATCH	GEODRV	CHVGTB		
ZPC	-	SUBPAT							
ZPI	-	JCTION							
ZPJ	-	JCTION							
ZPW	-	JCTION							

INPUT Module

I N D E X

***** SUPER INDEX *****

Z0	-	WYRDRV			
ZRAT1	-	PUTKVV	GETKVV	BLKDAT	
ZS	-	PLYSEG			
ZTRL	-	LNKGT0	GTDCS	CYLNDR	
ZU	-	GEODRV			
ZZ	-	PLATE			
ZZXBUM	-	TSKXQT	DMPDRV		
ZZ3	-	PUTSEG			
Z1	-	WYRDRV	ROTATE	PUTSEG	GETPNT
Z12	-	PATCH			
Z13	-	PATCH			
Z2	-	WYRDRV	PUTSEG	PATCH	GETPNT
Z25	-	WYRDRV			
Z3	-	WYRDRV	PUTSEG		

.....

3. MOM Module

I N D E X

***** SUPER INDEX *****

SYMBOL	ROUTINES IN WHICH THE SYMBOL IS USED								
A	-	SOLVOC	SOLVIC	SOLDRV	SCALE3	SCALE2	FARFLD	DECOMP	BMIRHS
		BACSUB							
ABS	-	ZIJDRV	SPUDRV	SOLDRV	SCALE3	SCALE2	ROMBNT	PUTKUV	PRTSYM
		PAGPLT	LODDRV	GETGEO	FLDDRV	FARFLD	EXCDRV	DECOMP	CNVTST
ADDOPR	-	DMPDRV							
ADEBG	-	RVCOMS							
AII	-	NERFLD	FARFLD						
AIMAG	-	ZIJSET	SPUDRV	SOLDRV	LODDRV	GNDREF	FLDDRV	CABC	
AINT	-	PAGPLT							
AIR	-	NERFLD	FARFLD						
AL	-	SCALE3	SCALE2						
ALOG	-	SOLDRV	ROMBNT						
ALOG10	-	SCALE3	SCALE2	PAGPLT					
AMAX1	-	PAGPLT	DECOMP						
AMIN1	-	PAGPLT	DECOMP						
AMPZJ	-	RVCOMS							
ANGLE	-	PRTSYM							
ANUMK	-	SEJCON	NTRPLT	CABC					
ANUML	-	SEJCON	NTRPLT	CABC					
AREA	-	WYRPAT	UNHFLD	UNHFLD	SEJCON				
AREASV	-	WYRPAT							
ARG	-	SMATRX	NERFLD	FARFLD					
ARGCH	-	RVCOMS							
ARGI	-	SPUDRV							
ARGR	-	SPUDRV							
ASSIGN	-	ZZXDUH	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	URTFIL	URTCHK	UNHFLD
		UNHFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYNUP0	SYNOD
		SYNDEF	STRTUP	SPUDRV	SOLVOC	SOLDRV	SOLDRV	SMATRX	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKUV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NERFLD	NOVFIL	MAIN	LUDDRV	LODSYM	LODDRV
		JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKUV	GETKUD	GETGEO
		GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	EFGNAT	DMPDRV
		DECOMP	CONJUG	ENVAMP	CABC	BMIRHS	BANDIT	BACSUB	
ATAN2	-	SOLDRV	PRTSYM	LODDRV	EXCDRV				
AX	-	CABC							
AG	-	ZIJSET							
AT	-	ZIJSET							
B	-	ZIJSET	TNEFLD	SEJCON	SCALE3	SCALE2	NERFLD	FARFLD	
BACSUB	-	SOLDRV							
BAND	-	SOLVOC	SOLVIC						
BANDED	-	DECOMP							
BANDIT	-	TSKXQT							
BCKSUB	-	SOLDRV							
BCRE	-	SOLDRV							
BEI	-	ZINT							
BER	-	ZINT							
BII	-	NERFLD	FARFLD						

PREVIOUS PAGE
IS BLANK

MOM Module

I N D E X

***** SUPER INDEX *****

BIR	-	NERFLD	FARFLD						
BK	-	TNEFLD	ROMBNT						
BMAG	-	SOLDRV							
BMIRMS	-	SOLDRV							
BNDMAG	-	BANDIT							
BNDMAT	-	DECOMP							
BOO	-	FARFLD							
BOT	-	FARFLD							
BR1	-	ZINT							
BR2	-	ZINT							
BUBUFR	-	DECOMP							
BUI	-	DECOMP							
BUR	-	DECOMP							
BX	-	CABC							
C	-	FARFLD	DMPDRV						
CABC	-	FLDRV							
CABI	-	ZIJSET	MYRPAT	SEJCON	NTRPLU				
CABJ	-	ZIJSET	SEJCON	NTRPLT	NERFLD	GNDREF			
CAPS	-	LODRV							
CCX	-	FARFLD							
CCY	-	FARFLD							
CCZ	-	FARFLD							
CC2	-	FLDRV							
CC3	-	FLDRV							
CDWK	-	TNEFLD							
CDP	-	FARFLD							
CELLO	-	CABC							
CEX	-	FLDRV							
CEXP	-	ZINT							
CEY	-	FLDRV							
CEZ	-	FLDRV							
CHKPNT	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKCK	TSKXGT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RUFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDRV	LODRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
CHKVRT	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKCK	TSKXGT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RUFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDRV	LODRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
		FARFLD	FARFLD						
CII	-	NERFLD							
CINT	-	TNEFLD							
CIR	-	NERFLD	FARFLD						
CIX	-	FARFLD							
CIV	-	FARFLD							
CIZ	-	FARFLD							
CK	-	NTRPLT	CABC						
CL	-	NTRPLT	CABC						
CLIFE	-	ZIJDRV	PUTKVV	LODRV	EXCDRV	BLKDAT			
CLL	-	CABC							
CLO	-	CABC							

MOM Module

I N D E X

***** SUPER INDEX *****

CLSFIL	-	ZIJDRV	WRTCHK	TSKXGT	SYMDEF	STATFN	SOLDRV	RWFILS	PUTSYM
		OPNFIL	FLODRV	ERROR	DMPDRV	DECOMP	CABC		
CLY	-	CABC							
CM	-	ZIJSET	JNCSUM						
CHAG	-	DMPDRV							
CMOTP	-	ZINT							
CMPLX	-	ZINT	ZIJSET	SPUDRV	SOLDRV	SMATRX	NERFLD	JNCSUM	GNDREF
		FARFLD							
CMPLX1	-	DMPDRV							
CMPLX2	-	DMPDRV							
CM	-	ZINT							
CNSLIO	-	WRTCHK							
CNVAMP	-	ZIJDRV							
CNVST	-	ROMBNT							
CO	-	NTGRAN							
COINC	-	TNEFLD							
COLHOR	-	PRTSYM							
COLMAG	-	BANDIT							
COMPLT	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXGT	TRCEBK	SYSCHK
		SYMDEF	STARTUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
COMPLX	-	SOLVOC	SETDRV	DECOMP					
COMSAV	-	SYSCHK							
CONJG	-	SOLDRV	LODSYM						
CONJUG	-	SOLDRV							
CONS	-	NTRPLT							
CONST	-	UNEFLD	TNHFLD	FARFLD					
CONST1	-	TNHFLD							
CONST2	-	TNHFLD							
CONVRG	-	SOLDRV							
CONVRT	-	ZIJSET	ZIJDRV	TSKXGT	SYMUPD	SYMDEF	SOLDRV	SETDRV	RWFILS
		REBLCK	PUTSYM	PUTKVV	PRTSYM	PRTKJ	LUDDRV	LODDRV	GETSYM
		GETKVV	GETGEO	GETARG	FNDREC	FLODRV	EXCDRV	EFGMAT	DMPDRV
		BANDIT	BACSUB						
COP1	-	DMPDRV							
COP2	-	DMPDRV							
COS	-	ZIJSET	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPUDRV	SMATRX	NTRPLT
		NTGRAN	NERFLD	FLODRV	FARFLD	CABC			
COSARG	-	SPUDRV							
COSC2	-	FLODRV							
COSC3	-	FLODRV							
COSETA	-	SPUDRV							
COSK	-	NTRPLT	CABC						
COSL	-	NTRPLT	CABC						
COSP	-	SPUDRV							
COST	-	SPUDRV							
CPART	-	PRTSYM							
CPARTE	-	PRTSYM							
CPFRUD	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXGT	TRCEBK	SYSCHK

MOM Module

I N D E X

***** SUPER INDEX *****

	SYNDEF PUTKVV FARFLD UNHFLD TNEFLD TNHFLD TNEFLD TNEFLD TNEFLD TNEFLD TNEFLD TNEFLD TNEFLD TNEFLD ZIJSET TNEFLD RMCOMS ZIJSET SOLDRV ZIJSET SOLDRV SOLDRV SETDRV BLKDAT CABC BLKDAT CABC TNEFLD ZIJSET FLDRV FLDRV FLDRV ZINT WYRPAT SYNMOD SMATRX	STRTUP OPNFIL EXCDRV NTGRAN	STATFN NERFLD ERROR	SOLDRV MAIN DECOMP	SETDRV LUDDRV CNVAMP	RWFILS LODDRV CABC	RDEFIL GETSYM BLKDAT	PUTSYM GETKVV ASSIGN
CRK -	UNHFLD							
CR1 -	TNEFLD							
CR1K -	TNHFLD							
CR1R -	TNEFLD							
CR1RR -	TNEFLD							
CR2 -	TNEFLD							
CR2K -	TNHFLD							
CR2R -	TNEFLD							
CR2RR -	TNEFLD							
CSQRT -	ZIJSET	ZIJDRV	SPWDRV	NERFLD	FARFLD			
CST -	TNEFLD							
CSTM -	RMCOMS							
CTM -	ZIJSET	NERFLD						
CUR -	SOLDRV	CABC						
CURDIP -	ZIJSET							
CURI -	SOLDRV							
CURR -	SOLDRV							
CV -	SETDRV							
CVAL -	BLKDAT							
CX -	CABC	BLKDAT						
CZPK -	TNHFLD							
C1 -	ZIJSET	FLDRV						
C2 -	FLDRV							
C3 -	FLDRV							
D -	ZINT	WYRPAT	SYNMOD	SMATRX				
DA -	WYRPAT							
DATIM -	SYSRTN							
DATV -	FABLO4							
DBGPRT -	ZXDUR	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKCK
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
	SYMUPD	SYNMOD	SYNDEF	STRTUP	STATOT	STATIN	STATFN	SPWDRV
	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
	SCALE3	SCALE2	RWFILS	RMCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LOBSYM	LODDRV	JNCSUM
	IBITCK	GNDRF	GETSYM	GETSEG	GETKVV	GETKVD	GETGEO	GETARG
	FNOREC	FLDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGHAT	DMPDRV
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIHNS	BLKDAT
	BANDIT	BACSUB	ASSIGN					
DBGSV -	ZIJDRV							
DC -	FLDRV							
DCHR -	PAGPLT							
DCINV -	PAGPLT							
DECOMP -	LUDDRV							
DEL -	SCALE3	SCALE2						
DFDT -	RMCOMS							
DGTORD -	SPWDRV	SOLDRV	LODDRV	FLDRV	EXCDRV	BLKDAT		

MOM Module

I N D E X

***** SUPER INDEX *****

DN	-	TNHFLD					
DNK	-	TNHFLD					
DIAGI	-	SOLVOC	SOLVIC	DECOMP			
DIAGR	-	SOLVOC					
DIAGR	-	SOLVOC	SOLVIC	DECOMP			
DIFFSQ	-	SOLDRV					
DIJ	-	ZIJSET	NTRPLT				
DIK	-	ZIJSET	SEJCON	NTRPLT	CABC		
DIL	-	ZIJSET	SEJCON	NTRPLT	CABC		
DIR	-	ZIJSET	NTRPLT				
DIST	-	SCALE3	SCALE2				
DISTL	-	SCALE3					
DIVERG	-	SOLDRV					
DIVOPR	-	DMPDRV					
DJ	-	SYSRTH					
DLINV	-	PAGPLT					
DLYN	-	PAGPLT					
DNAG	-	SOLVIC	DECOMP				
DNAGSV	-	DECOMP					
DNAX	-	DECOMP					
DNIN	-	DECOMP					
DMPDRV	-	TSKXQT					
DS	-	WYRPAT	SYNMOD				
DT	-	ZIJSET	VRTCHK	FSKXQT	TICHEK	SYSCHK	DECOMP
DX	-	PAGPLT					
DXSM	-	SPMDRV					
DY	-	PAGPLT					
DYSM	-	SPMDRV					
DZ	-	ROMBNT					
DZOT	-	ROMBNT					
DZSM	-	SPMDRV					
ECC	-	SPMDRV	EXCDRV				
ECCEN	-	SPMDRV					
EFGMAT	-	FLDDRV					
EI	-	SPMDRV					
E11	-	WYRPAT					
E12	-	WYRPAT					
E13	-	WYRPAT					
E14	-	WYRPAT					
E15	-	WYRPAT					
E16	-	WYRPAT					
E17	-	WYRPAT					
E18	-	WYRPAT					
E19	-	WYRPAT					
EL	-	FARFLD					
EL1	-	ROMBNT					
EL2	-	ROMBNT					
EN	-	SPMDRV					
EN01	-	SEJCON					
EN02	-	SEJCON					

MOM Module

I N D E X

***** SUPER INDEX *****

EP	-	ZIJSET	ROMBNT							
EPH	-	FLOORV	FARFLD							
EPI	-	ZIJSET								
EPR	-	ZIJSET								
EPRX	-	SPUDRV								
EPY	-	SPUDRV								
EPZY	-	SPUDRV								
EPSR	-	ZIJDRV	PUTKVV	GETKVV	BLKDAT					
EPX	-	SPUDRV								
EPY	-	SPUDRV								
EPZ	-	SPUDRV								
ER	-	ZIJSET	SPUDRV							
ERNO	-	NERFLD								
ERIC	-	TNEFLD	NTRPLT	NERFLD						
ERIK	-	TNEFLD	NTRPLT	NERFLD						
ERIS	-	TNEFLD	NTRPLT	NERFLD						
ERRC	-	TNEFLD	NTRPLT	NERFLD						
ERRK	-	TNEFLD	NTRPLT	NERFLD						
ERROR	-	ZIJSET	ZIJDRV	WTFIL	TSKXGT	SYSCHK	SYMUPD	SYNDEF	SOLDRV	
		SMATRX	SETDRV	SEJCON	REBLCK	RDEFIL	PUTSYN	PUTKVV	OPNFIL	
		NOVFIL	LUODRV	LOODRV	GETSYN	GETKVV	GETARG	FNOREC	FLOORV	
		FABLO4	EXCDRV	EFGHAT	DMPDRV	DECOMP	CNVANP	BANDIT	BACSUB	
ERRS	-	TNEFLD	NTRPLT	NERFLD						
ERX	-	SPUDRV								
ERY	-	SPUDRV								
ERZ	-	SPUDRV								
ER1	-	HYRPAT								
ER2	-	HYRPAT								
ER3	-	HYRPAT								
ER4	-	HYRPAT								
ER5	-	HYRPAT								
ER6	-	HYRPAT								
ER7	-	HYRPAT								
ER8	-	HYRPAT								
ER9	-	HYRPAT								
ESX	-	SPUDRV								
ESY	-	SPUDRV								
ESZ	-	SPUDRV								
ET	-	ZIJSET	SYSCHK							
ETA	-	ZIJSET	UNEFLD	TNEFLD	SPUDRV	NERFLD	BLKDAT			
ETAE	-	SPUDRV	EXCDRV							
ETAINV	-	SPUDRV								
ETAK	-	NERFLD								
ETAP	-	SPUDRV								
ETH	-	FLOORV	FARFLD							
ETI	-	ZIJSET	SOLDRV	NTRPLU	NTRPLT	JNCSUN				
ETIC	-	NTRPLT								
ETIK	-	NTRPLT								
ETINE	-	SYSCHK								
ETIS	-	NTRPLT								

MOM Module

I N D E X

***** SUPER INDEX *****

ETI1	-	WYRPAT				
ETI2	-	WYRPAT				
ETR	-	ZIJSET	SOLDRV	NTRPLU	NTRPLT	JNCSUM
ETRC	-	NTRPLT				
ETRK	-	NTRPLT				
ETRS	-	NTRPLT				
ETRI	-	WYRPAT				
ETR2	-	WYRPAT				
EWPI	-	ZIJSET	WYRPAT	NTRPLU		
EWPR	-	ZIJSET	WYRPAT	NTRPLU		
EX	-	NERFLD	FLODRV			
EXA	-	FARFLD				
EXCORV	-	TSKXGT				
EXI	-	SPUDRV				
EXIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXPARG	-	SPUDRV				
EXPOPR	-	DPDRV				
EXR	-	SPUDRV				
EXRI	-	SPUDRV				
EXRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXS	-	SPUDRV	NERFLD			
EXY	-	NERFLD				
EY	-	NERFLD	FLODRV			
EYI	-	SPUDRV				
EYIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYR	-	SPUDRV				
EYRI	-	SPUDRV				
EYRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYS	-	SPUDRV	NERFLD			
EZ	-	ZIJSET	NERFLD	FLODRV		
EZI	-	ZIJSET	SPUDRV			
EZIC	-	TNEFLD	NTRPLT	NERFLD		
EZIK	-	TNEFLD	NTRPLT	NERFLD		
EZIS	-	TNEFLD	NTRPLT	NERFLD		
EZIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZP	-	NERFLD				
EZR	-	ZIJSET	SPUDRV			
EZRC	-	TNEFLD	NTRPLT	NERFLD		
EZRI	-	SPUDRV				
EZRK	-	TNEFLD	NTRPLT	NERFLD		
EZRS	-	TNEFLD	NTRPLT	NERFLD		
EZRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZS	-	SPUDRV	NERFLD			
F	-	ZINT	SPUDRV			

MOM Module

I N D E X

***** SUPER INDEX *****

FABLO4	-	PRTSYN							
FARFLD	-	FLDDRV							
FCON	-	WYRPAT							
FIM1	-	SMATRX							
FIRST	-	IBITCK							
FJ	-	ZINT	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNNFLD	TNEFLD
		STRTP	SPMDRV	SOLDRV	SMATRX	SEJCON	PUTKV	PRTSYN	NTRPLU
		NTRPLT	NERFLD	LODDRV	JNCSUM	GNDREF	GETKV	FLDDRV	FARFLD
		EXCDRV	CHVAMP	CABC	BLKDAT				
FLDCH	-	RUCONS							
FLDDRV	-	TSKXQT							
FLOAT	-	WYRPAT	SYSRTN	SYSCHK	SOLDRV	SMATRX	SEJCON	SCALE3	SCALE2
		PAGPLT	GETKV	GETARG	DMPDRV				
FLTARG	-	ZZXDUM	ZIJDRV	ZCDRV	TSKXQT	SYNDEF	SOLDRV	SETDRV	SET
		RWFILS	PRTSYN	PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETGEO
		GETARG	FLDDRV	EXCDRV	DMPDRV	CHVAMP	BLKDAT	BANDIT	BACSUB
FLTINC	-	SYSCHK							
FLTILT	-	ZZXDUM	ZIJDRV	ZCDRV	WRTCHK	TSKXQT	SYMUPD	SYNDEF	STRTP
		SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYN	PUTSEG	PUTKV	PRTSYN
		PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETSYN	GETKV	GETKVD
		GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	EPGNAT	DMPDRV	DECOMP
		CONVRT	CHVAMP	BLKDAT	BANDIT	BACSUB			
FLTRM	-	SOLDRV							
FLTSYN	-	SYNDEF	PUTSYN	LUDDRV	GETSYN	BLKDAT			
FMT	-	FABLO4							
FMTFLD	-	FABLO4							
FMT	-	SCALE3	SCALE2						
FMT	-	SCALE3	SCALE2						
FM	-	SCALE3	SCALE2						
FNCON	-	SEJCON							
FNDREC	-	PUTSYN	GETSYN						
FNR	-	ROMONT							
FNS	-	ROMONT							
FRFLD	-	FLDDRV							
FRGMZ	-	ZIJDRV	STRTP	PUTKV	LODDRV	GETKV	EXCDRV		
FRSAV	-	ZIJDRV	LODDRV	EXCDRV					
FRSTM	-	BANDIT							
FSIGN	-	ZIJSET							
FSTCHK	-	WRTCHK							
FX	-	GNDREF							
FXI	-	GNDREF							
FXR	-	GNDREF							
FXT	-	GNDREF							
FY	-	GNDREF							
FYI	-	GNDREF							
FYR	-	GNDREF							
FZ	-	GNDREF							
FZI	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
FZR	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
FI	-	WYRPAT	CHVTST						

MOM Module

I N D E X

***** SUPER INDEX *****

F2	-	WYRPAT	CNVST						
G	-	ZINT							
GCON	-	WYRPAT							
GEODT	-	RUCOMS							
GETARG	-	ZIJDRV	TSKXOT	SOLDRV	SETDRV	PRTSYN	LOODRV	GETGEO	FLDRV
		EXCDRV							
GETGEO	-	ZIJDRV	TSKXOT	SOLDRV	FLDRV	EXCDRV			
GETKUV	-	DMPDRV							
GETSEG	-	SPUDRV	SOLDRV	SEJCON	PUTSEG	NERFLD	LUODRV	LOODRV	GETGEO
		FARFLD	EXCDRV	CNVAMP	CABC				
GETSYN	-	ZIJDRV	WRTCHK	SYNDEF	STRUP	SOLDRV	SETDRV	REBLCK	PRTSYN
		PUTSEG	PRTSYN	LUODRV	LOODRV	GETSEG	GETARG	FLODRV	EXCDRV
		EFGMAT	DMPDRV	DECOMP	BANDIT	BACSUB			
GNOREF	-	ZIJSET	NTRPLU	NTRPLT	NERFLO				
GROUND	-	SPUDRV							
GTDDT	-								
G1	-	RUCOMS							
G11	-	WYRPAT							
G1R	-	RONONT							
G2	-	RONONT							
G21	-	WYRPAT							
G2R	-	RONONT							
G3	-	WYRPAT							
G31	-	RONONT							
G3R	-	RONONT							
G4	-	WYRPAT							
G41	-	RONONT							
G4R	-	RONONT							
G51	-	RONONT							
G5R	-	RONONT							
HAFLEN	-	CNVAMP							
HCHVST	-	SPUDRV							
HEADR	-	SOLDRV	PRTSYN						
H1	-	SHELL							
HDRV	-	LOODRV							
HPIC	-	TUNFLD	NTRPLT						
HPIC	-	TUNFLD	NTRPLT						
HPIS	-	TUNFLD	NTRPLT						
HPOC	-	TUNFLD	NTRPLT						
HPRK	-	TUNFLD	NTRPLT						
HPRS	-	TUNFLD	NTRPLT						
HSS	-	TUNFLD							
HSE	-	SPUDRV							
HXIC	-	NTRPLT							
HXIK	-	NTRPLT							
HXIS	-	NTRPLT							
HXR	-	SPUDRV							
HXRC	-	NTRPLT							
HXRK	-	NTRPLT							
HXRS	-	NTRPLT							

MOM Module

I N D E X

***** SUPER INDEX *****

NYI	-	SPWDRV							
NYIC	-	NTRPLT							
NYIK	-	NTRPLT							
NYIS	-	NTRPLT							
NYR	-	SPWDRV							
NYRC	-	NTRPLT							
NYRK	-	NTRPLT							
NYRS	-	NTRPLT							
NZI	-	SPWDRV							
NZIC	-	NTRPLT							
NZIK	-	NTRPLT							
NZIS	-	NTRPLT							
NZR	-	SPWDRV							
NZRC	-	NTRPLT							
NZRK	-	NTRPLT							
NZRS	-	NTRPLT							
I	-	ZXQUM	ZIJSET	ZIJDRV	TSKXQT	SYSRTN	SYNMOD	STRTUP	STATFN
		SOLVOC	SOLVIC	SOLDRV	SMATRX	SWELL	SET	SCALE3	SCALE2
		RWFILS	RVCOMS	PUTSYM	PUTSEG	PRTSYM	PRTKJ	PAGPLT	NERFLD
		LUDDRV	LODDRV	JNCSUM	IBITCK	GETSYM	GETKWD	GETGEO	FNDREC
		FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	DECOMP	CONVRT	CNVAMP
		CABC	BWIRNS	BLKDAT	BANDIT	BACSUB			
IABS	-	TSKXQT	SMATRX	SEJCON	PAGPLT	OPNFIL	LODSYM	LODDRV	GETARG
		EXCDRV	DMPDRV						
IALPHA	-	PRTSYM							
IALT	-	ZIJSET							
IARG	-	SOLDRV	SETDRV						
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BANDIT	BACSUB	
IBASIS	-	ZIJDRV							
IDIT	-	IBITCK	EXCDRV	DECOMP					
IDITA	-	FLDDRV							
IDITCK	-	SYNDEF	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM	LUDDRV
		GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	BANDIT	BACSUB
IDITR	-	DMPDRV							
IDITS	-	ZIJDRV	TSKXQT	SYNDEF	PRTSYM				
IDIT1	-	SYNDEF	DMPDRV						
IDIT2	-	DMPDRV							
ISLANK	-	FLDDRV	BLKDAT						
ISLK	-	SOLDRV	SEJCON	NERFLD	LODDRV	GETGEO	FLDDRV	FARFLD	EXCDRV
		CNVAMP							
ISLKK	-	GETGEO							
ISLKL	-	WLKCK							
ISNDP1	-	BANDIT							
IDW	-	PRTSYM							
IC	-	SYSRTN	SYNMOD	SETDRV					
ICALL	-	ROMNT	PRTSYM	FABLO4					
ICASE	-	PUTSEG	FABLO4						
ICC	-	SOLDRV							
ICHR	-	CONVRT							

MOM Module

I N D E X

***** SUPER INDEX *****

ICHKPT	-	STRTUP							
ICKFIL	-	WRTCHK							
ICKLOP	-	STRTUP							
ICHPLX	-	SETDRV	PRTSYM						
ICMPX	-	SOLDRV							
ICOLA	-	FLDRV							
ICOLF	-	EFGMAT							
ICOLFF	-	EFGMAT							
ICOLGM	-	EFGMAT							
ICOLGX	-	EFGMAT							
ICOLG1	-	EFGMAT							
ICOLG2	-	EFGMAT							
ICOLMN	-	FLDRV							
ICOL1	-	FLDRV							
ICOL2	-	ZIJDRV							
ICON	-	RNCOMS							
ICONMA	-	BLKDAT							
ICONSV	-	RNCOMS							
ICON	-	ZIJSET	SEJCON	NTRPLU	CVVAMP				
ICON1	-	SEJCON							
ICON2	-	SEJCON							
ICORDY	-	FLDRV							
ICOST	-	FLDRV							
IC01	-	ZIJSET	SEJCON						
IC02	-	ZIJSET	SEJCON						
ICTYPE	-	FLDRV							
ICU	-	EXCDRV							
ICYTAG	-	BLKDAT							
IC1	-	SOLVOC	SETDRV						
IC11	-	SETDRV							
IC2	-	SOLVOC	SETDRV						
ID	-	CONVRT							
IDATE	-	SYSRTN							
IDAY	-	RAIN							
IDCSYS	-	BLKDAT							
IDEPIN	-	BLKDAT							
IDFINS	-	BLKDAT							
IDIG	-	BLKDAT							
IDOLAR	-	BLKDAT							
IDP	-	EXCDRV							
IDTYPE	-	LODRV							
IECTAG	-	BLKDAT							
IEND	-	ZIJSET							
IEND1	-	CVVAMP							
IEND2	-	CVVAMP							
IEOF	-	WRTCHK	STRTUP	RNCOMS					
IEQUAL	-	ONPDRV	BLKDAT						
IERRF	-	ZIJSET	ZIJDRV	WRTFIL	TSKXOT	SYSCHK	SYMUPD	SYNDEF	STRTUP
		SOLDRV	SMATRX	SETDRV	SEJCON	RNFILS	REBLCK	RDEFIL	PUTSYM
		PUTKWV	OPNFIL	NOVFIL	LUODRV	LODRV	GETSYM	GETKWV	FNOREC

MOM Module

I N D E X

***** SUPER INDEX *****

	FLDDRV	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP	CNVAMP
IF	BLKDAT	BANDIT	BACSUB					
IFILE	EFGMAT							
	ZIJDRV	SYNUPD	RNFILS	PUTSYM	NOVFIL	GETSYM	FNDREC	FLDDRV
	CLSFIL							
IFIX	SYSRTN	STATFM	SOLDRV	PAGPLT	FLDDRV			
IFLDMT	FLDDRV							
IFLE	NOVFIL							
IFLNAM	RNCOMS							
IFVD	SOLVOC	BACSUB						
IF1	PUTSYM	EFGMAT						
IF2	PUTSYM							
IGEGBT	FLDDRV							
IGEOM	SOLDRV	EXCDRV						
IGF	EFGMAT							
IGFM	EFGMAT							
IGNORE	BLKDAT							
II	SOLVOC	SOLDRV	SET	PRTKJ	PAGPLT	NERFLD	FARFLD	CABC
IJ	ZIJSET	TNEFLD	SYSRTN	SOLVIC	ROMBNT	NTRPLT	NTGRAN	DECOMP
IJNOB	PUTSYM	PRTSYM	GETSYM	FNDREC				
IJSAY	SOLVIC	DECOMP						
IJX	TNEFLD							
IJZLOC	ZIJDRV							
IK	ZIJSET	NTRPLT	DECOMP					
IKV	PRTKJ							
IL	ZIJDRV	DECOMP						
ILEFT	DMPDRV	BLKDAT						
ILIM	EFGMAT	DECOMP	CNVAMP					
ILOAD	ZIJDRV							
ILOC1	EXCDRV							
ILOC2	EXCDRV							
ILOW	EFGMAT							
ILOWER	PUTSYM	LUDDRV	GETSYM	FNDREC	BACSUB			
ILP	DMPDRV							
ILVR	PRTSYM							
ILTM	GETGEO							
IN	SHELL							
INDCHK	VRTCHK	STRUP	STATFM	PUTSYM	BLKDAT			
INENUS	DMPDRV	BLKDAT						
INIS	FLDDRV							
INI	PAGPLT	IBITCK						
IN	SOLDRV							
INAME	BLKDAT							
INCALL	FABLO4							
INCHK	YSKXGT	SYSCHK						
INCORE	NERFLD	FLDDRV	FARFLD	DECOMP	CABC			
IND	CONVRT							
INDEX	GETKWD	GETGEO	FLDDRV					
INDEX1	FLDDRV							
INDEX2	FLDDRV							

MOM Module

I N D E X

***** SUPER INDEX *****

INDEX3	-	FLDDRV							
INDX	-	SOLVIC	SMATRX	SETDRV	SEJCON	LUDDRV	FLDDRV	DECOMP	
INDXA	-	SOLDRV	LUDDRV	FLDDRV	BACSUB				
INDXB	-	SOLDRV	LUDDRV	FLDDRV					
INDXC	-	SOLDRV							
INDXF	-	EFGMAT							
INDXG	-	TSKXQT	EFGMAT						
INDXL	-	BACSUB							
INDXP	-	SOLDRV							
INDXP1	-	RVCOMS							
INDXS	-	EFGMAT							
INDXU	-	BACSUB							
INDXWB	-	WLKBCK	TRCEBK	RVCOMS	BLKDAT				
INDXX	-	SOLDRV							
INDXY	-	SOLDRV							
INEG	-	CNVAMP							
INEM	-	SYNDEF							
INT	-	SOLDRV	PUTKVV	GETARG					
INTARG	-	ZZXDBM	ZIJORV	ZCDRVR	TSKXQT	SYNDEF	SOLDRV	SETDRV	SET
		RWFILS	PRTSYM	PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETGEO
		GETARG	FLDDRV	EXCDRV	DMPDRV	CNVAMP	BLKDAT	BANDIT	BACSUB
INTOCD	-	CONVRT							
INTGER	-	PRTSYM							
INTH	-	RVCOMS							
INTSYN	-	SYNDEF	PUTSYM	LUDDRV	GETSYM	BLKDAT			
INTURD	-	CONVRT							
IN1	-	BANDIT							
IN2	-	BANDIT							
INZOND	-	BANDIT							
IOA	-	DECOMP							
IOBL	-	LUDDRV	DECOMP						
IOBU	-	LUDDRV	DECOMP						
IOCKPT	-	VRTCHK	TSKXQT	SOLDRV	RVCOMS	RDEFIL	PUTSYM	DECOMP	BLKDAT
IOFFST	-	EFGMAT							
IOFF1	-	EFGMAT							
IOFILE	-	VRTFIL	VRTCHK	SYNDEF	STRUP	SOLDRV	RVCOMS	RDEFIL	PUTSYM
		OPNFIL	NOVFIL	LUDDRV	GETSYM	ERROR	DECOMP	CLSFIL	BLKDAT
IOFLS	-	RVCOMS							
IOPR	-	DMPDRV							
IOORDER	-	SOLVIC	PUTSYM	GETSYM	FNDREC	BACSUB			
IOSAV	-	DECOMP							
IOSCRT	-	PUTSYM							
IOSCR1	-	SYNDEF	SOLDRV	PUTSYM	NERFLD	LUDDRV	FARFLD	CABC	BLKDAT
IOSCR2	-	SYNDEF	SOLDRV	PUTSYM	LUDDRV	BLKDAT			
IOSTOR	-	SYNDEF	STRUP						
IOSYMB	-	SYNDEF	BLKDAT						
IOS1	-	LUDDRV	DECOMP						
IOS1SV	-	DECOMP							
IOS2	-	LUDDRV	DECOMP						
IOTASK	-	BLKDAT							

MOM Module

I N D E X

***** SUPER INDEX *****

IP	-	ZIJSET	NTRPLT	LODDRV					
IPAREN	-	DMPDRV							
IPASS	-	ZIJDRV	TSKXQT	SYNDEF	SOLDRV	SETDRV	PRTSYM	LUDDRV	LODDRV
		GETARG	FLDDRV	EXCDRV	DMPDRV	BANDIT			
IPATCH	-	ZIJSET	TNNFLO	TNEFLD	NTRPLU	NTRPLT	NTGRAN	NERFLD	GNDREF
IPEND	-	ZIJSET							
IPER	-	BLKDAT							
IPERF	-	ZIJSET	ZIJDRV	SPWDRV	PUTKWV	NERFLD	GNDREF	FARFLD	CNVAMP
IPLOT	-	FLDDRV							
IPLTAG	-	ZIJDRV	PUTSEG	GETSEG	GETGEO	EXCDRV	EFGMAT	BLKDAT	
IPLUS	-	DMPDRV	BLKDAT						
IPOS	-	CNVAMP							
IPR	-	ZIJSET	JNCSUM						
IPSEG	-	ZIJSET							
IPST	-	ZIJSET							
IPTBUF	-	BLKDAT							
IPTS	-	BLKDAT							
IPTTDL	-	BLKDAT							
IPVIT	-	LUDDRV							
IPWR2	-	IBITCK							
IP1	-	PAGPLT							
IP217	-	ZIJSET	SOLDRV	SET	SEJCON	PUTSEG	PRTKJ	LODDRV	GETSEG
		GETGEO	EXCDRV	CNVAMP	BLKDAT				
IR	-	SYNMOD	SOLVOC	SETDRV	PUTSYM	GETSYM	DECOMP		
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREAL	-	SOLDRV	SETDRV						
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECNO	-	PUTSYM							
IRECNV	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	SOLDRV	PUTSYM	LUDDRV	GETSYM				
IREC2	-	SOLDRV	PUTSYM	LUDDRV	GETSYM				
IRIGHT	-	DMPDRV	BLKDAT						
IRON	-	DECOMP							
IRONA	-	FLDDRV							
IRONV1	-	PUTSYM	GETSYM						
IRONV5	-	BANDIT							
IRON1	-	BANDIT							
IRON2	-	FLDDRV							
IRP	-	DMPDRV							
IRP1	-	SETDRV							
IRSAV	-	STARTUP							
IRSTR1	-	STARTUP	PUTSYM						
IR1	-	SETDRV	RWFILS	PUTSYM	GETSYM				
IR2	-	SETDRV	PUTSYM	GETSYM					
IS	-	SYNMOD	PUTSEG	PAGPLT	LODDRV	EXCDRV	CNVAMP		
ISAV2	-	TSKXQT							

MOM Module

I N D E X

***** SUPER INDEX *****

ISAV3	-	TSKXQT							
ISBLNK	-	PAGPLT							
ISCALE	-	BLKDAT							
ISDASH	-	PAGPLT							
ISDOT	-	PAGPLT							
ISEG	-	SOLDRV	PUTSEG	NERFLD	LODDRV	GETSEG	GETGEO	FARFLD	BLKDAT
ISEG1	-	LODDRV	EXCDRV						
ISEG2	-	LODDRV	EXCDRV						
ISELEN	-	ZIJSET							
ISELST	-	ZIJSET							
ISET	-	SET	PRTKJ						
ISETTB	-	SET	PRTKJ	BLKDAT					
ISG	-	PUTSEG							
ISGMNT	-	SEJCON							
ISGTBL	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	STRUP	SPWDRV	SOLDRV	SEJCON
		RWFILS	PUTSEG	NERFLD	LUDDRV	LODDRV	GETSEG	GETGEO	FLDDRV
		FARFLD	EXCDRV	CNVAMP	CABC	BLKDAT			
ISGVRD	-	EXCDRV							
ISHAD	-	ZIJDRV							
ISHADM	-	ZIJSET	ZIJDRV						
ISLASH	-	DMPDRV	BLKDAT						
ISOFF	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	TNEFLD	STRUP	STATFN	SPWDRV
		SOLVOC	SOLDRV	SETDRV	SEJCON	RWFILS	RWCOMS	PUTSYM	PUTSEG
		PRTSYM	NTRPLU	NTRPLT	NERFLD	MAIN	LUDDRV	LODSYM	GNDREF
		GETSYM	GETSEG	GETARG	FNDREC	EXCDRV	ERROR	DMPDRV	CONVRT
		CNVAMP	CLSFIL	BLKDAT	BACSUB				
ISOLN	-	PRTSYM							
ISON	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	TSKXQT	TNEFLD	SYSCHK	SYMUPD
		SYNDEF	STRUP	STATOT	STATFN	STATFN	SPWDRV	SOLVOC	SOLVIC
		SOLDRV	SMATRX	SETDRV	SEJCON	RWFILS	RWCOMS	REBLCK	RDEFIL
		PUTSYM	PUTKUV	PRTSYM	OPNFIL	NTRPLU	NTRPLT	NTGRAN	NERFLD
		NOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	GNDREF	GETSYM	GETKUV
		FNDREC	FLDDRV	FABLO4	EXCDRV	ERROR	EPGMAT	DMPDRV	DECOMP
		CNVAMP	BLKDAT	BANDIT	BACSUB				
ISPLUS	-	PAGPLT							
ISSTAR	-	PAGPLT							
ISSUE	-	MAIN							
ISTAR	-	DMPDRV	BLKDAT						
ISTART	-	ZIJSET	ZIJDRV						
ISTAT	-	SOLDRV	OPNFIL						
ISTOP	-	ZIJDRV	SET						
ISV	-	PUTSYM	GETSYM	FNDREC					
ISVP	-	ZIJSET							
ISVN	-	ZIJSET							
ISV	-	PUTSYM	EXCDRV						
ISYN	-	PAGPLT							
ISYNOL	-	BLKDAT							
ISYNTY	-	PRTSYM							
IT	-	PUTSYM	LODDRV	GETSYM					
ITAG	-	PUTSEG	LODDRV	GETSEG	GETGEO	EXCDRV			

MOM Module

I N D E X

***** SUPER INDEX *****

ITAGID	-	ZIJDRV	PUTSEG	GETSEG	GETGEO	EXCDRV	EFGMAT	BLKDAT		
ITAG1	-	LODRV	GETGEO	EXCDRV						
ITAG2	-	LODRV	EXCDRV							
ITASK	-	TSKXQT								
ITEMP	-	ZIJDRV	WRTCHK	SYMDEF	SPWDRV	SOLDRV	SETDRV	RWFILS	PUTSYM	
		PRTSYM	NERFLD	MOVFIL	MAIN	LUDRV	LODRV	FLDDRV	FARFLD	
		EXCDRV	EFGMAT	DMPDRV	CABC	BLKDAT	BANDIT			
ITEMS	-	STATFN	SHELL							
ITG	-	PUTSEG								
ITIME	-	SYSRTN	MAIN							
ITRAMP	-	PRTSYM								
ITRBT	-	PRTSYM								
ITYP	-	ZIJSET	SEJCON							
ITYPDE	-	BLKDAT								
ITYPE	-	PRTSYM	PAGPLT	FABLO4						
ITYPPL	-	BLKDAT								
ITYPPT	-	BLKDAT								
ITYPTG	-	BLKDAT								
IU	-	FLDDRV								
IUPPER	-	PUTSYM	LUDRV	GETSYM	FNDREC	BACSUB				
IUPR	-	PRTSYM								
IVS	-	EXCDRV								
IWSAV	-	RWCOMS								
IWRE	-	ZIJSET	NTRPLU	NTRPLT	NERFLD	GNDREF				
IWORDS	-	ZZXDM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKCK	
		UMFLD	UNFLD	TSKXQT	TRCEBK	TMFLD	TNEFLD	SYSRTN	SYSCHK	
		SYMUPD	SYMMD	SYMDEF	STRUP	STATF	STATIN	STATFN	SPWDRV	
		SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON	
		SCALE3	SCALE2	RWFILS	RWCOMS	ROMNT	REBLCK	RDEFIL	PUTSYM	
		PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	
		NTGRN	NERFLD	MOVFIL	MAIN	LUDRV	LODSYM	LODRV	JNCSUM	
		IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKND	GETGEO	GETARG	
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	
		DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT	
		BANDIT	BACSUB	ASSIGN						
IWRBLK	-	CNVAMP								
IWRD	-	IBITCK	FNDREC							
IWRD1	-	PUTSYM	GETSYM							
IWRTCK	-	WRTCHK	PUTSYM							
IW1	-	DECOMP								
IW2	-	DECOMP								
IXNAM	-	EXCDRV								
IXTYPE	-	EXCDRV								
IX1	-	PUTSEG								
IY	-	PAGPLT								
IYRLOC	-	ZIJDRV	GETGEO							
I23	-	PUTSEG								
I1	-	ZIJDRV	WYRPAT	TRCEBK	PAGPLT					
I2	-	WYRPAT	TRCEBK	PAGPLT						
J	-	ZIJSET	ZIJDRV	SYSRTN	SYMMD	STRUP	STATFN	SOLVOC	SOLVIC	

MOM Module

I N D E X

***** SUPER INDEX *****

		SNATRX	SHELL	SET	SEJCON	REBLCK	PUTSYM	PUTSEG	PRTSYM
		PRTKJ	PAGPLT	NERFLD	LUDDRV	LODSYM	JNCSUM	GETSYM	GETKWD
		FNDREC	FLDDRV	FABLD4	DECOMP	CONJUG	BMIRHS	BANDIT	
JB	-	SOLVOC							
JBIAS1	-	SEJCON	BLKDAT						
JBIAS2	-	SEJCON	BLKDAT						
JBIAS3	-	ZIJSET	SEJCON	BLKDAT					
JBIT	-	IBITCK							
JBLK	-	SEJCON	CABC						
JC	-	SETDRV							
JCBIAS	-	BLKDAT							
JCOL2	-	ZIJDRV							
JCON	-	SEJCON							
JCO1	-	ZIJSET	SEJCON	CABC					
JCO2	-	ZIJSET	SEJCON	CABC					
JC1	-	SOLVOC							
JC2	-	SOLVOC							
JC2M1	-	SOLVOC							
JDIG	-	BLKDAT							
JETA	-	FARFLD							
JHOURS	-	SYSRTN							
JI	-	SOLVOC							
JIX	-	ZIJSET	SEJCON	CABC					
JIXK	-	CABC							
JIZ	-	ZIJSET	SEJCON	CABC					
JIZK	-	CABC							
JJ	-	CABC							
JLIM	-	DECOMP							
JLOC	-	CABC							
JLOCP1	-	CABC							
JM	-	JNCSUM	BMIRHS						
JMINIT	-	SYSRTN							
JMJ	-	JNCSUM							
JN	-	SOLVOC							
JNC	-	REBLCK							
JNCN	-	RNCOMS							
JNCSUM	-	ZIJSET							
JOX	-	ZIJSET	SEJCON	CABC					
JOXK	-	CABC							
JOZ	-	ZIJSET	SEJCON	CABC					
JOZK	-	CABC							
JP	-	JNCSUM							
JPJ	-	JNCSUM							
JPR	-	ZIJSET							
JPVT	-	DECOMP							
JP1	-	SOLVOC							
JR	-	SOLVOC							
JREC	-	REBLCK							
JROM	-	DECOMP							
JS	-	ZIJSET							

MOM Module

I N D E X

***** SUPER INDEX *****

JSAV	-	FLDDRV							
JSEG	-	ZIJSET	SOLDRV	SEJCON	LODDRV				
JSG	-	PUTSEG							
JSGMNT	-	SEJCON							
JSHAD	-	ZIJSET							
JSP	-	SOLVIC							
JST	-	SOLVIC							
JTAG	-	EXCDRV							
JTG	-	PUTSEG							
JV	-	SOLVIC							
JVSAV	-	SOLVIC							
JWRD	-	IBITCK							
JX	-	NERFLD	FARFLD						
JY	-	NERFLD	FARFLD						
JZ	-	NERFLD	FARFLD						
J1	-	ZIJSET	DECOMP						
J2	-	ZIJSET							
K	-	ZIJSET	ZIJDRV	SYNMOD	SOLVOC	SOLVIC	SMATRX	SHELL	SET
		PRTKJ	NTRPLU	NTRPLT	NERFLD	LODSYM	FLDDRV	FARFLD	EXCDRV
		DECOMP	CONVRT	CNVAMP	CABC	BMIRHS	BANDIT		
KA	-	SYNMOD							
KALL	-	ZIJSET	ZIJDRV						
KBAND	-	SOLDRV	PUTSYM	GETSYM	FNDREC				
KBBAND	-	SOLDRV	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BANDIT
		BACSUB							
KBBITS	-	BLKDAT							
KBCPLX	-	ZIJDRV	SYNDEF	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM
		LUDDRV	LODDRV	GETSYM	FNDREC	EXCDRV	DMPDRV	DECOMP	BLKDAT
		BANDIT	BACSUB						
KBOPRE	-	PUTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BANDIT		
KBFFLD	-	FLDDRV	BLKDAT						
KBFULL	-	BLKDAT							
KBGEOM	-	TSKXQT	SOLDRV	RWFILS	PRTSYM	FLDDRV	EXCDRV	BLKDAT	
KBINTP	-	BLKDAT							
KBLEFT	-	BLKDAT							
KBLOAD	-	SOLDRV	LODDRV	BLKDAT					
KBLURT	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BACSUB	
KBNFLD	-	FLDDRV	BLKDAT						
KBORDR	-	ZIJDRV	PUTSYM	PRTSYM	GETSYM	FNDREC	BLKDAT	BACSUB	
KBPVIT	-	BLKDAT							
KBREAL	-	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PRTSYM	FLDDRV	EXCDRV	DMPDRV
		DECOMP	BLKDAT						
KBSEGL	-	ZIJDRV	BLKDAT						
KBSELN	-	SOLDRV	PRTSYM	EFGMAT	BLKDAT				
KBSECE	-	EXCDRV	BLKDAT						
KBSEYM	-	PRTSYM	BLKDAT						
KBSEMY	-	BLKDAT							
KBTEXT	-	PRTSYM	BLKDAT						
KBUPRT	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BACSUB	
KBZIMP	-	ZIJDRV	BLKDAT						

MOM Module

I N D E X

***** SUPER INDEX *****

KC	-	ZIJSET							
KCHKPT	-	BLKDAT							
KCODE	-	STRUP							
KCOLG	-	EFGMAT							
KCOLS	-	ZIJDRV							
KDOTJ	-	FARFLD							
KGBIT	-	EXCDRV							
KGEOM	-	RWFILS							
KINPUT	-	BLKDAT							
KIX	-	SPWDRV							
KIXSQ	-	SPWDRV							
KIY	-	SPWDRV							
KIYSQ	-	SPWDRV							
KIZ	-	SPWDRV							
KJFLD	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KJGTD	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KJINT	-	SET	PRTKJ	BLKDAT					
KJMOH	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KK	-	SYMOD	SMATRX						
KL	-	BMIRHS							
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLH	-	SYMUPD							
KLOOP	-	SMATRX							
KLST	-	PRTKJ							
KN	-	PRTKJ							
KOL	-	SYMUPD	DECOMP						
KOLAST	-	SYMUPD	SYMDEF	STRUP	PUTSYM	LUDDRV	FNDREC	DECOMP	BLKDAT
KOLBIT	-	SYMUPD	SYMDEF	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM
		LUDDRV	GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLCNT	-	TSKXQT	BLKDAT						
KOLCOB	-	GETARG	DMPDRV	BLKDAT					
KOLCOL	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	SOLDRV	SETDRV	RWFILS	PUTSEG
		PRTSYM	LUDDRV	LODDRV	GETGEO	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLFST	-	SYMUPD	SYMDEF	STRUP	PUTSYM	LUDDRV	GETSYM	FNDREC	DECOMP
		BLKDAT	BACSUB						
KOLLBL	-	BLKDAT							
KOLLNK	-	ZIJDRV	SYMUPD	SOLDRV	PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM
		FNDREC	FLDDRV	EXCDRV	BLKDAT	BANDIT	BACSUB		
KOLLOC	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS	PUTSYM	LUDDRV
		GETSYM	FNDREC	FLDDRV	DMPDRV	DECOMP	BLKDAT	BACSUB	
KOLNAM	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	SOLDRV	SETDRV	RWFILS	REBLCK
		PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM	GETGEO	GETARG	FNDREC
		FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP	CNVAMP	BLKDAT	BANDIT
		BACSUB							
KOLROM	-	SYMUPD	SYMDEF	SOLDRV	SETDRV	RWFILS	PUTSYM	PRTSYM	LUDDRV
		LODDRV	GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLTIM	-	TSKXQT	BLKDAT						

MOM Module

I N D E X

***** SUPER INDEX *****

KOLTSK -	FSKXQT	BLKDAT						
KOLVAL -	GETARG	DMPDRV	BLKDAT					
KONT -	ZIJSET							
KONT4 -	ZIJSET							
KOUNT -	TSKXQT							
KOUTPT -	BLKDAT							
KP -	ZIJSET	NTRFLU						
KPR -	ZIJSET							
KP1 -	SOLVOC							
KP2 -	SOLVOC							
KR -	ZIJSET							
KREC -	REBLCK							
KREC1 -	SOLDRV							
KREC2 -	SOLDRV							
KRL -	BMIRMS							
KRSTRT -	BLKDAT							
KRU -	BMIRMS							
KRX -	SPWDRV							
KRXSQ -	SPWDRV							
KRY -	SPWDRV							
KRYSQ -	SPWDRV							
KRZ -	SPWDRV							
KSAV -	SOLVOC							
KSEG -	ZIJSET							
KSOLN -	EFGHAT							
KSTART -	SOLVOC							
KSYM -	LODSYM							
KSYMDF -	BLKDAT							
KSYMP -	ZIJSET	ZIJDRV	SPWDRV	PUTKWV	NERFLD	FARFLD		
KU -	BMIRMS							
KV -	SET	PUTKWV	GETKWV					
KVA -	FLDDRV							
KVABS -	BLKDAT							
KVARG -	BLKDAT							
KVAXIS -	BLKDAT							
KVBAND -	BLKDAT							
KVBASE -	ZIJDRV							
KVBCRE -	BLKDAT							
KVBCSB -	BLKDAT							
KVBNDW -	BLKDAT							
KVC -	BLKDAT							
KVCB -	BLKDAT							
KVCBP -	BLKDAT							
KVCHKP -	BLKDAT							
KVCLPS -	BLKDAT							
KVCNJG -	BLKDAT							
KVCNV6 -	BLKDAT							
KVCOD0 -	PUTKWV	LODDRV	GETKWV	BLKDAT				
KVCPNC -	BLKDAT							
KVCPNH -	BLKDAT							

MOM Module

I N D E X

***** SUPER INDEX *****

KVCR	-	BLKDAT		
KVCS	-	BLKDAT		
KVCW	-	BLKDAT		
KVCY	-	BLKDAT		
KVC1	-	BLKDAT		
KVC2	-	BLKDAT		
KVD	-	BLKDAT		
KVDBUG	-	BLKDAT		
KVDC	-	BLKDAT		
KVDP	-	BLKDAT		
KVDR	-	BLKDAT		
KVDT	-	BLKDAT		
KVDN	-	BLKDAT		
KVDX	-	BLKDAT		
KVDY	-	BLKDAT		
KVDZ	-	BLKDAT		
KVEC	-	BLKDAT		
KVECC	-	BLKDAT		
KVED	-	BLKDAT		
KVEI	-	BLKDAT		
KVEND	-	BLKDAT		
KVEPSR	-	PUTKWV	GETKWV	BLKDAT
KVER	-	BLKDAT		
KVES	-	BLKDAT		
KVESRC	-	BLKDAT		
KVEU	-	BLKDAT		
KVFFLD	-	BLKDAT		
KVFLID	-	BLKDAT		
KVFNTF	-	BLKDAT		
KVFRG	-	PUTKWV	GETKWV	BLKDAT
KVGRDT	-	BLKDAT		
KVGTG	-	BLKDAT		
KVHLP	-	BLKDAT		
KVINPT	-	BLKDAT		
KVINY	-	BLKDAT		
KVIZE	-	BLKDAT		
KVIRE	-	BLKDAT		
KVIS	-	BLKDAT		
KVLAGL	-	BLKDAT		
KVLGTP	-	LODRV		
KVLGLG	-	BLKDAT		
KVLGLN	-	BLKDAT		
KVLGPO	-	BLKDAT		
KVLMT	-	BLKDAT		
KVLNLG	-	BLKDAT		
KVLNLN	-	BLKDAT		
KVLNPO	-	BLKDAT		
KVLOOP	-	BLKDAT		
KVLU	-	BLKDAT		
KVLUB	-	BLKDAT		

MOM Module

I N D E X

***** SUPER INDEX *****

KVMAX	-	GETKMD	BLKDAT						
KVMH	-	BLKDAT							
KVMODL	-	BLKDAT							
KVMXIT	-	BLKDAT							
KVM	-	BLKDAT							
KVNAME	-	ZIJDRV	PUTKWV	PRTKJ	LUODRV	GETKWV	GETKMD	FLODRV	EXCDRV
		BLKDAT							
KVMGX	-	ZIJDRV							
KVMFLD	-	BLKDAT							
KVMFLL	-	PUTKWV	GETKWV	BLKDAT					
KVMF	-	BLKDAT							
KVMR	-	BLKDAT							
KVOFF	-	TSKXQT	BLKDAT						
KVON	-	TSKXQT	BLKDAT						
KVOUTP	-	BLKDAT							
KVPART	-	BLKDAT							
KVPC	-	BLKDAT							
KVPO	-	BLKDAT							
KVPOR	-	BLKDAT							
KVPHI	-	BLKDAT							
KVPIVT	-	BLKDAT							
KVPL	-	BLKDAT							
KVPLOT	-	BLKDAT							
KVPLSE	-	BLKDAT							
KVPR	-	BLKDAT							
KVPRE	-	BLKDAT							
KVPRGE	-	BLKDAT							
KVPRLC	-	LOODRV	BLKDAT						
KVPRNT	-	BLKDAT							
KVPSN	-	BLKDAT							
KVP1	-	BLKDAT							
KVP2	-	BLKDAT							
KVR	-	BLKDAT							
KVRC	-	BLKDAT							
KVRD	-	BLKDAT							
KVRDP	-	BLKDAT							
KVRDUC	-	BLKDAT							
KVREAD	-	BLKDAT							
KVREPL	-	BLKDAT							
KVRFLC	-	BLKDAT							
KVRITE	-	BLKDAT							
KVRR	-	BLKDAT							
KVRSTR	-	BLKDAT							
KVR1	-	BLKDAT							
KVR2	-	BLKDAT							
KVSC	-	BLKDAT							
KVSCDP	-	BLKDAT							
KVSEGS	-	LOODRV	EXCDRV	BLKDAT					
KVSEQ	-	BLKDAT							
KVSET	-	BLKDAT							

MOM Module

I N D E X

***** SUPER INDEX *****

KWSIZE	-	BLKDAT							
KWSMDF	-	BLKDAT							
KWSNCS	-	BLKDAT							
KWSOLV	-	BLKDAT							
KWSR	-	BLKDAT							
KWSROP	-	BLKDAT							
KWSRLC	-	LODDRV	BLKDAT						
KWSTAT	-	TSKXGT	BLKDAT						
KWSTNT	-	BLKDAT							
KWSH	-	BLKDAT							
KWTAGS	-	LODDRV	EXCDRV	BLKDAT					
KWTBM	-	BLKDAT							
KWTHET	-	BLKDAT							
KWTIME	-	PUTKVV	GETKVV	BLKDAT					
KWTRAC	-	TSKXGT	BLKDAT						
KWTRAM	-	BLKDAT							
KWTYPE	-	BLKDAT							
KWT1	-	BLKDAT							
KWT2	-	BLKDAT							
KWV	-	BLKDAT							
KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSRC	-	BLKDAT							
KWX	-	BLKDAT							
KWXPNO	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	LODDRV	BLKDAT						
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
KXKY	-	SPUDRV							
K1	-	ZIJSET	SEJCON	DECOMP					
K2	-	ZIJSET	SEJCON						
L	-	ZIJSET	ZIJDRV	SPUDRV	SOLDRV	PAGPLT	LODDRV	FLDDRV	ERROR
		DMPDRV	CONJUG						
LAI	-	NERFLD	FARFLD	CABC					
LAR	-	NERFLD	FARFLD	CABC					
LASTI	-	PAGPLT							
LBI	-	NERFLD	FARFLD	CABC					
LBLK	-	SPUDRV							
LBR	-	NERFLD	FARFLD	CABC					
LCALLR	-	ZZXOUM	ZIJSET	ZIJDRV	ZCDRV	WYRPT	WRTFIL	WRTCHK	UNHFLD
		UNEFLO	TSKXGT	TNHFLD	TNEFLO	SYSRTN	SYSCHK	SYNUPD	SYNMOD

MOM Module

I N D E X

***** SUPER INDEX *****

	SYMDEF	STRTPU	SPUDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	NOVFIL	HAIN	LUDDRV	LODSYM	LODDRV
	JNCSUM	IBITCK	GNDREC	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
	DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIHNS	BLKDAT	BANDIT
	BACSUB							
LCALNM -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRTPU	SPUDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	NOVFIL	HAIN	LUDDRV	LODSYM	LODDRV
	JNCSUM	IBITCK	GNDREC	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
	DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIHNS	BLKDAT	BANDIT
	BACSUB							
LCI -	NERFLD	FARFLD	CABC					
LCR -	NERFLD	FARFLD	CABC					
LD -	SOLVIC							
LETR -	BLKDAT							
LI -	SOLDRV							
LINSEG -	PUTSEG							
LINMYR -	SEJCON							
LINDX -	TSKXQT							
LINE -	PAGPLT							
LINEAR -	SPUDRV							
LINK -	PUTSYM	GETSYM	FNDREC					
LINKA -	SOLDRV	LUDDRV	FLDDRV					
LINKB -	SOLDRV	FLDDRV						
LINKC -	SOLDRV							
LINKP -	SOLDRV							
LINKX -	SOLDRV							
LINKY -	SOLDRV							
LITNMX -	BLKDAT							
LITNUM -	ZZXDUM	ZIJDRV	ZCDRV	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRTPU
	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PUTSEG	PUTKVV	PRTSYM
	PRTKJ	OPNFIL	HAIN	LUDDRV	LODDRV	GETSYM	GETKVV	GETKWD
	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
	CONVRT	CNVAMP	BLKDAT	BANDIT	BACSUB			
	GETARG	DMPDRV						
LITTP -	DMPDRV							
LITVAL -	SOLDRV							
LNK -	FLDDRV							
LNKBIT -	EXCDRV							
LNKEXC -	SOLDRV							
LNKG -	SOLDRV							
LNKLL -	LODDRV							
LNKLS -	SHELL							
LO -								

MOM Module

I N D E X

***** SUPER INDEX *****

LOAD	-	LODDRV				
LOADSM	-	ZIJDRV	LOBSYM			
LOC	-	STATFN	SHELL	PUTSYM	GETSYM	FNDREC
LOCA	-	LUDDRV	BACSUB			
LOCAII	-	NERFLD	FLDDRV	FARFLD	CABC	
LOCAIJ	-	LUDDRV	BACSUB			
LOCAIR	-	NERFLD	FLDDRV	FARFLD	CABC	
LOCARG	-	TSKXQT	GETARG	DMPDRV		
LOCBII	-	NERFLD	FLDDRV	FARFLD	CABC	
LOCBIN	-	NERFLD	FLODRV	FARFLD	CABC	
LOCCII	-	NERFLD	FLDDRV	FARFLD	CABC	
LOCCIR	-	NERFLD	FLODRV	FARFLD	CABC	
LOCCOL	-	ZIJDRV				
LOCCUR	-	SOLDRV				
LOCBIA	-	ZIJDRV				
LOCECC	-	EXCDRV				
LOCEND	-	PUTSYM				
LOCXC	-	EXCDRV				
LOCF	-	EFGMAT				
LOCFM	-	EFGMAT				
LOCFIL	-	TSKXQT				
LOCFST	-	SYMDEF	PUTSYM	GETSYM	FNDREC	
LOCG	-	EFGMAT				
LOCGEO	-	ZIJDRV	GETGEO			
LOCI	-	LODDRV				
LOCL	-	BACSUB				
LOCLFT	-	SOLDRV				
LOCLIT	-	DMPDRV				
LOCLOB	-	ZIJDRV	SOLDRV			
LOCLST	-	SYMDEF	PUTSYM	FNDREC		
LOCMAN	-	REBLCK				
LOCNOV	-	STRUP	PUTSYM	GETSYM		
LOCNXT	-	TSKXQT				
LOCR	-	LODDRV				
LOCRNS	-	SOLDRV				
LOCS	-	EFGMAT				
LOCSAV	-	CNVAMP				
LOCSER	-	ZIJDRV				
LOCSOL	-	SOLDRV				
LOCSTR	-	PUTSYM	GETSYM			
LOCSYM	-	ZIJDRV	TSKXQT			
LOCTP1	-	TSKXQT				
LOCTP2	-	TSKXQT				
LOCTSK	-	TSKXQT				
LOCU	-	BACSUB				
LOCYRS	-	EXCDRV	CNVAMP			
LOCZIJ	-	ZIJDRV				
LOC1	-	SOLDRV	PRTSYM	FLDDRV		
LOC2	-	SOLDRV				
LODDRV	-	TSKXQT				

MOM Module

I N D E X

***** SUPER INDEX *****

LOBSYM -	ZIJDRV							
LODTYP -	LODDRV							
LOOP -	FLDDRV							
LOOPNX -	TSKXQT	BLKDAT						
LOOP1 -	FLDDRV							
LOOP2 -	FLDDRV							
LOOP3 -	FLDDRV							
LOPINR -	FLDDRV							
LOPHID -	FLDDRV							
LOPOUT -	FLDDRV							
LOPSAV -	FLDDRV							
LORDER -	FLDDRV							
LPRPGE -	PAGPLT							
LR -	SOLDRV							
LRGUTN -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLO	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV
	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDRV	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT
	DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIRMS	BLKDAT	BANDIT
	BACSUB							
LRTNUM -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLO	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV
	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDRV	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT
	DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIRMS	BLKDAT	BANDIT
	BACSUB							
LSAVE -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRVR	WYRPAT	WRTFIL	WRTCHK	WLKBCK
	UNHFLD	UNEFLO	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
	SYMUPD	SYMMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV
	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK	ROEFIL	PUTSYM
	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTRGRN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRMS	BLKDAT
	BANDIT	BACSUB	ASSIGN					
	BLKDAT	PRTSYM	EXCDRV					
LSTARG -	TSKXQT							
LSTASK -	BLKDAT							
LSTAT -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLO	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV

MOM Module

I N D E X

***** SUPER INDEX *****

	SET	SEJCON	SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LODSYM	LODDRV	JNCSUB
	IBITCK	GNOREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BLKDAT	BANDIT	BACSUB
LSTCHK	-							
LSTCLM	-							
LSTCOL	-	LUSTAT	DECOMP	BLKDAT				
LSTCSY	-	BLKDAT						
LSTDAT	-	BLKDAT						
LSTFNC	-	BLKDAT						
LSTIJ	-	DECOMP						
LSTIMP	-	BLKDAT						
LSTINT	-	BLKDAT						
LSTIOB	-	PRTSYM	BLKDAT					
LSTITR	-	SOLDRV						
LSTNOB	-	STRUP	STATFN					
LSTREC	-	PRTSYM						
LSTRON	-	DECOMP						
LSTSYS	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	FRCEBK
		SYNDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM
		FARFLD	EXCDRV	ERROR	DECOMP	CABC	BLKDAT	ASSIGN
LSTYPF	-	TSKXQT	BLKDAT					
LSTURD	-	PUTSYM	GETSYM	DECOMP				
LTRACE	-	TSKXQT	STATOT	STATIN	BLKDAT			
LUDBG	-	BLKDAT						
LUDDRV	-	TSKXQT						
LUFIL	-	STRUP	PRTSYM	OPNFIL				
LUNET	-	WRTFIL	RDEFIL					
LUPRNT	-	ZZXDUM	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT
		SYSCHK	SYNDEF	STRUP	STATOT	STATIN	STATFN	SOLDRV
		SMATRX	SETDRV	SEJCON	SCALE3	SCALE2	RWFILS	RVCOMS
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT
		NERFLD	MOVFIL	MAIN	LUDDRV	LODDRV	GETSYM	GETSEG
		GETGEO	GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV
		DMPDRV	DECOMP	CNVAMP	CABC	BLKDAT	BANDIT	BACSUB
		ASSIGN						
LUTASK	-	LUSTAT	BLKDAT					
LVRUPR	-	PUTSYM	GETSYM	FNDREC				
M	-	SHELL	DECOMP	BMIRHS				
MACHIN	-	BLKDAT						
MANTSA	-	IBITCK	BLKDAT					
MASK	-	FLDDRV						
MATNAM	-	PUTSYM	GETSYM	FNDREC				
MATOP1	-	DMPDRV						
MATOP2	-	DMPDRV						
MAXBLK	-	TSKXQT	SOLDRV	PUTSEG	NERFLD	LODDRV	GETSEG	GETGEO
		EXCDRV	CNVAMP					FARFLD
MAXDUP	-	DECOMP						

MOM Module

I N D E X

***** SUPER INDEX *****

MAXCDS -	BLKDAT								
MAXCOL -	DECOMP								
MAXCON -	ZIJSET	SEJCON	JNCSUP	BLKDAT					
MAXCOR -	DECOMP								
MAXCSY -	BLKDAT								
MAXCYL -	BLKDAT								
MAXDEF -	BLKDAT								
MAXECP -	BLKDAT								
MAXITR -	SOLDRV								
MAXPLT -	BLKDAT								
MAXPTS -	BLKDAT								
MAXRAD -	BLKDAT								
MAXSEG -	TSKXGT	SPWDRV	SEJCON	PUTSEG	LUDDRV	LODDRV	GETSEG	EXCDRV	
	CNVAMP	CABC	BLKDAT						
MAXSTR -	SYMDEF	PUTSYM	BLKDAT						
MAXWRD -	PUTSYM	GETSYM							
MAXO -	SYMDEF	SOLVIC	SETDRV	PUTSYM	LUDDRV	BANDIT			
MBNDW -	SOLVIC								
MDLE -	RWCOMS								
MDX -	EXCDRV								
MINITR -	SOLDRV								
MINO -	ZIJDRV	SOLVOC	SOLVIC	SOLDRV	PUTSYM	PUTSEG	PRTSYM	LUDDRV	
	GETSYM	FNDREC	EFGNAT	DECOMP	CNVAMP	BACSUB			
MKMX -	BLKDAT								
MN -	FNDREC								
MOD -	ZIJDRV	STRTUP	SOLDRV	SEJCON	PUTSEG	PAGPLT	IBITCK	GETGEO	
	CNVAMP								
MODCHK -	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT				
MODLST -	STRTUP	STRTUP	STATFN	BLKDAT					
MODMAX -	BLKDAT								
MODNAM -	WRTCHK	STRTUP	STATFN	MAIN					
MODNOW -	STRTUP								
MORE -	REBLCK	PUTSYM	LUDDRV	GETSYM	FNDREC	BANDIT			
MORITR -	SOLDRV								
MOVE -	NOVFIL								
NOVFIL -	STRTUP	SOLDRV	PUTSYM	GETSYM	DECOMP				
NOVWRD -	PUTSYM	NOVFIL	DECOMP						
NP -	BWIRHS								
NP1 -	SOLVIC	DECOMP							
NSAVE -	STATOT	STATIN							
MULJNC -	SEJCON								
MULOPR -	OMPDRV								
MXANCT -	BLKDAT								
MXARGT -	TSKXGT	BLKDAT							
MXARGT -	BLKDAT								
MXBAND -	LUDDRV	DECOMP							
MXCDFG -	BLKDAT								
MXCTAR -	BLKDAT								
MXDPCT -	BLKDAT								
MXECAR -	BLKDAT								

MOM Module

I N D E X

***** SUPER INDEX *****

MXEXFP	-	BLKDAT							
MXEXPD	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	MLKBCK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2						
M2	-	SCALE3	SCALE2						
N	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STATOT	STATIN	SPWDRV	SOLDRV
		SMATRX	SCALE3	SCALE2	REBLCK	PUTSYM	PRTSYM	PAGPLT	NOVFIL
		LUSTAT	LUDDRV	LODSYM	LODDRV	GETARG	FLDDRV	FABLO4	EXCDRV
		EFGMAT	DMPDRV	DECOMP	BACSUB				
		SYMUPD	SOLDRV	PUTSYM	LUDDRV	GETSYM	FNDREC	BACSUB	
NA	-	SOLDRV							
NACELL	-	SCALE3	SCALE2						
NAL	-	FLDDRV							
NAH	-	SOLDRV							
NANARG	-	SOLDRV							
NANCOM	-	RWCOMS							
NANCVG	-	SOLDRV							
NANDAT	-	TSKXQT							
NANDEF	-	BLKDAT							
NAME	-	ZZXDUM	SYMDEF	STRUP	STATOT	STATIN	RWFILS	RWCOMS	PUTKVV
		PRTKJ	GETKVV	GETKVD	FLDDRV	EFGMAT			
NAMEA	-	SOLDRV	LUDDRV	FLDDRV	DECOMP	BACSUB			
NAMEB	-	SOLDRV	LUDDRV	FLDDRV					
NAMEC	-	SOLDRV							
NAMEF	-	EFGMAT							
NAMEG	-	EFGMAT							
NAMEL	-	SOLDRV							
NAMEP	-	LUDDRV							
NAMES	-	EFGMAT							
NAMESH	-	ZIJDRV							
NAMEX	-	SOLDRV							
NAMEXC	-	SPWDRV	EXCDRV						
NAMEXP	-	ZIJDRV							
NAMEY	-	SOLDRV							
NAMEYR	-	ZIJDRV	GETGEO						
NAMEZ	-	ZIJDRV	REBLCK						
NAMEZ1	-	ZIJDRV	REBLCK						
NAME1	-	BANDIT							
NAME2	-	BANDIT							
NAMFIL	-	DMPDRV							
NANGEO	-	ZIJDRV	TSKXQT	GETGEO					
NANGET	-	BACSUB							
NANGOR	-	LODDRV							
NANLDS	-	ZIJDRV	LODDRV						
NANLWR	-	LUDDRV	BACSUB						

MOM Module

I N D E X

***** SUPER INDEX *****

NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPYS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC	EXCDRV				
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	ZIJSET	ZIJDRV	TSKXQT	SOLDRV	PUTSEG	LODDRV	GETSEG	GETGEO
		CNVAMP	BLKDAT						
NAMSHD	-	ZIJDRV							
NAMSUB	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLD
		UNEFLO	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD
		SYMMOD	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SPWDRV	SOLVOC
		SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON	SCALE3
		SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM	PUTSEG
		PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	NTGRAN
		NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM	IBITCK
		GNDFEF	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETARG	FNDREC
		FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP
		CONJUG	CNVTST	CNVAMP	CLSFIL	CABC	BMRHS	BANDIT	BACSUB
		ASSIGN							
NAMSYM	-	SYMUPO	SETDRV	PRTSYM	LUDDRV	GETARG	DMPDRV		
NAMTSK	-	TSKXQT	BLKDAT						
NAMUPR	-	LUDDRV	BACSUB						
NAMYRS	-	ZIJDRV							
NAMZIJ	-	ZIJDRV							
NARGMX	-	BLKDAT							
NARGP1	-	EXCDRV							
NARG3	-	EXCDRV							
NARGTB	-	TSKXQT	BLKDAT						
NARITH	-	BLKDAT							
NB	-	SOLDRV	LUDDRV						
NBIAS	-	REBLCK	BANDIT						
NBIT	-	SOLDRV							
NBITA	-	SOLDRV	LUDDRV	FLDDRV	BACSUB				
NBITB	-	SOLDRV							
NBITC	-	SOLDRV							
NBITF	-	EFGMAT							
NBITG	-	EFGMAT							
NBITL	-	LUDDRV							
NBITLS	-	LODDRV							
NBITS	-	SETDRV	REBLCK	IBITCK	EFGMAT	BACSUB			
NBITU	-	LUDDRV							
NBITV0	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBITX	-	SOLDRV							
NBITY	-	SOLDRV							
NBIT1	-	BANDIT							

MOM Module

I N D E X

***** SUPER INDEX *****

NBIT2	-	BANDIT							
NBLANK	-	BLKDAT							
NBLK	-	SOLDRV	FARFLD						
NBNDA	-	SOLDRV							
NBRMAT	-	SOLDRV							
NBS	-	CONVRT							
NBUF	-	DECOMP							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYT SZ	-	ZIJDRV	LUDDRV	EFGMAT	CONVRT	BLKDAT			
NC	-	ZIJSET	ZIJDRV	SYMMOD	SOLVOC	SOLVIC	SOLDRV	REBLCK	PRTSYM
		CONJUG	BMIRHS	BANDIT					
NCARD	-	LUSTAT	BLKDAT						
NCARDS	-	BLKDAT							
NCCLAS	-	BLKDAT							
NCELLS	-	SOLDRV	SMATRX	EXCDRV					
NCHAR	-	CONVRT	BLKDAT						
NCMLIN	-	PAGPLT							
NCIX	-	ZIJSET	SEJCON	CABC					
NCIZ	-	ZIJSET	SEJCON	CABC					
NCL	-	ZIJDRV							
NCH	-	JNCSUM	BMIRHS						
NCH	-	BANDIT							
NCODE	-	GETKWD	BLKDAT						
NCODES	-	ZIJDRV	JSKXQT	PUTKWD	PRTKJ	LUDDRV	LODDRV	GETKWD	GETKWD
		GETGEO	FLDDRV	EXCDRV	BLKDAT				
NCOL	-	ZIJSET	JNCSUM	DECOMP	BLKDAT				
NCOLA	-	SOLDRV	LUDDRV						
NCOLB	-	SOLDRV							
NCOLC	-	SOLDRV							
NCOLE	-	EXCDRV							
NCOLF	-	EFGMAT							
NCOLG	-	EFGMAT							
NCOLL	-	BACSUB							
NCOLP	-	SOLDRV							
NCOLS	-	ZIJDRV	SYNDEF	SOLVOC	SOLVIC	SETDRV	LUDDRV	EFGMAT	BANDIT
NCOLU	-	BACSUB							
NCOLX	-	SOLDRV							
NCOLY	-	SOLDRV							
NCOL1	-	SYNDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCH	-	BLKDAT							
NCOMMA	-	BLKDAT							
NCOMSZ	-	RVCMS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCONRE	-	LUDDRV	DECOMP						
NCONRN	-	GETGEO							

MOM Module

I N D E X

***** SUPER INDEX *****

NCOX -	ZIJSET	SEJCON	CABC						
NCOZ -	ZIJSET	SEJCON	CABC						
NCP -	JNCSUM								
NC1 -	PRTSYM								
NC1M1 -	PRTSYM								
NC2 -	PRTSYM								
NDATBL -	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STRUP	SOLDRV	SETRV	RWFILS	
	REBLCK	PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM	GETGEO	GETARG	
	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP	CNVAMP	BLKDAT	
	BANDIT	BACSUB							
NDATMX -	SYMDEF	SOLDRV	BLKDAT	BANDIT					
NDDEBUF -	BLKDAT								
NDF -	RWFILS								
NDFALT -	GETARG								
NDFILE -	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL	
	BLKDAT								
NDIG -	BLKDAT								
NDIGIT -	BLKDAT								
NDIM -	DECOMP								
NDTASK -	BLKDAT								
NDX -	ZIJDRV	TSKXQT	PUTKVV	GETKVV	FLDDRV	EXCDRV			
NDXARG -	PRTSYM	GETARG	FLDDRV	EXCDRV	DMPDRV				
NDXBLK -	SPMDRV	SEJCON	PUTSEG	LUDDRV	LODDRV	GETSEG	GETGEO	FARFLD	
	EXCDRV	CABC							
NDXFLD -	FABLO4								
NDXGM -	LODDRV								
NDXGOM -	LODDRV								
NDXID -	LODDRV								
NDXIJ -	SHATRX								
NDXIK -	SHATRX								
NDXIKJ -	SHATRX								
NDXINR -	FLDDRV								
NDXJI -	SHATRX								
NDXKIJ -	SHATRX								
NDXKVC -	EXCDRV								
NDXKVB -	PUTKVV	GETKVV	EXCDRV						
NDXKVS -	EXCDRV								
NDXKYW -	DMPDRV								
NDXL -	LUDDRV	DECOMP							
NDXLNK -	LUDDRV								
NDXLS -	LODDRV								
NDXRID -	FLDDRV								
NDXOUT -	FLDDRV								
NDXPNT -	PRTSYM								
NDXPRT -	PRTSYM								
NDXSYM -	PRTSYM								
NDXU -	LUDDRV	DECOMP							
NE -	EXCDRV								
NEED -	ZIJDRV	SYMDEF	SOLDRV	SETRV	LUDDRV				
NEEDF -	EFGMAT								

MOM Module

I N D E X

***** SUPER INDEX *****

NEEDG	-	EFGMAT							
NEEDS	-	EFGMAT							
NENDCO	-	BLKDAT							
NEOFLG	-	BLKDAT							
NERCLJ	-	BLKDAT							
NERCOD	-	GETKWD	BLKDAT						
NERCON	-	BLKDAT							
NERDPN	-	BLKDAT							
NEREOF	-	BLKDAT							
NEREXD	-	BLKDAT							
NEREXF	-	BLKDAT							
NEREXP	-	BLKDAT							
NERFLD	-	FLDDRV							
NERINT	-	BLKDAT							
NERNAM	-	BLKDAT							
NEWDAT	-	SYMUPD							
NEWMAM	-	SYMUPD							
NEWSYM	-	SYMDEF	SETDRV						
NEXTI	-	PAGPLT							
NF	-	EFGMAT							
NFILE	-	RWFILS							
NFILES	-	SYMDEF	RUCOMS	PUTKVV	GETKVV	ERROR	BLKDAT		
NFINCD	-	BLKDAT							
NFRAC	-	BLKDAT							
NG	-	SOLDRV	LODDRV	EFGMAT					
NGEOM	-	PRTSYM							
NI	-	SPWDRV	PAGPLT						
NILEGL	-	BLKDAT							
NINC	-	FLDDRV	EFGMAT						
NINT	-	WYRPAT	BLKDAT						
NITEMS	-	STATFN	SHELL						
NL	-	SOLDRV	PRTSYM	LODDRV	BACSUB				
NLAST	-	SOLVOC							
NLEFT	-	SOLDRV							
NLETR	-	BLKDAT							
NLOOPS	-	TSKXQT	BLKDAT						
NM	-	SOLVIC	SOLDRV	ROMBNT	BANDIT				
NMAT	-	LUDDRV	DECOMP						
NMNAMS	-	BLKDAT							
NMOD	-	PAGPLT							
NMREC	-	SOLDRV							
NMSPTR	-	BLKDAT							
NMTIMS	-	BLKDAT							
NMWRDS	-	RUCOMS							
NM1	-	SOLDRV	BACSUB						
NN	-	ZIJDRV							
NOEND	-	BLKDAT							
NOGOF6	-	TSKXQT	SOLDRV	RUCOMS	MAIN	LODDRV	FLDDRV	DMPDRV	CNVAMP
		BLKDAT	BANDIT						
NOP	-	TSKXQT							

MOM Module

I N D E X

***** SUPER INDEX *****

NOPCOD -	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PRTSYM	LUDDRV	LODDRV	GETARG
	FLDDRV	EXCDRV	DMPDRV	BLKDAT				
NOPNAM -	CONVRT							
NOSTAT -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKCK
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNNFLD	TNEFLD	SYSRTH	SYSCHK
	SYMUPD	SYMMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV
	SOLVOC	SOLVIC	SOLDRV	SMATR	SHELL	SETDRV	SET	SEJCON
	SCALE3	SCALE2	RUFILS	RVCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
	BANDIT	BACSUB	ASSIGN					
NOTASK -	BLKDAT							
NOTTAG -	LODDRV							
NP -	ZIJDRV	SYMMOD	SCALE3	SCALE2	PUTSYM	PRTSYM	PAGPLT	LUDDRV
NPAREN -	BLKDAT							
NPATCH -	ZIJSET	ZIJDRV	SPWDRV	GETGEO	EXCDRV	BLKDAT		
NPASV -	SYMDEF							
NPDATA -	ZIJDRV	SYMUPD	SYMDEF	STRUP	SOLDRV	RUFILS	REBLCK	PUTSYM
	LUDDRV	LODDRV	GETSYM	GETARG	FNDREC	FLDDRV	EFGMAT	DMPDRV
	DECOMP	BACSUB						
NPEARG -	BLKDAT							
NPEDPC -	BLKDAT							
NPEDPL -	BLKDAT							
NPEDRM -	BLKDAT							
NPEIFO -	BLKDAT							
NPEKVD -	BLKDAT							
NPELAB -	BLKDAT							
NPELIT -	BLKDAT							
NPELNL -	BLKDAT							
NPELOO -	BLKDAT							
NPELOP -	BLKDAT							
NPELST -	BLKDAT							
NPENOI -	BLKDAT							
NPENOM -	BLKDAT							
NPENRG -	BLKDAT							
NPENTK -	BLKDAT							
NPENUM -	BLKDAT							
NPERGE -	BLKDAT							
NPEROD -	BLKDAT							
NPESCH -	BLKDAT							
NPESX -	BLKDAT							
NPESY -	BLKDAT							
NPETSK -	BLKDAT							
NPRAIJ -	SOLVOC	SOLVIC	DECOMP					
NPRBLK -	SOLDRV							
NPRBUF -	RUFILS	MOVFIL						
NPRCEL -	LODSYM							

MOM Module

I N D E X

***** SUPER INDEX *****

NPRCOL	-	SOLDRV	LUDDRV	DECOMP					
NPRDEF	-	BLKDAT							
NPRELM	-	SOLVOC	SOLVIC	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM
		LUDDRV	GETSYM	FNDREC	DECOMP	BANDIT	BACSUB		
NPRFMT	-	FABLO4							
NPRFPT	-	FLDDRV							
NPRGET	-	LUDDRV							
NPRLIN	-	PRTSYM	DECOMP						
NPRPRT	-	PUTSYM	PRTSYM	GETSYM	FNDREC				
NPRPT	-	BLKDAT							
NPRREC	-	TSKXQT	RWFILS	PUTSYM	PRTSYM	GETSYM	FNDREC		
NPRROW	-	LODDRV	DECOMP						
NPRSEG	-	TSKXQT	PUTSEG	LUDDRV	BLKDAT				
NPRSER	-	BLKDAT							
NPRSYM	-	ZIJDRV							
NPSAV	-	DMPDRV							
NPTASK	-	TSKXQT							
NPTBUF	-	BLKDAT							
NPVT	-	LUDDRV							
NP1	-	SOLDRV	PRTSYM						
NP2	-	PRTSYM							
NR	-	ZIJSET	ZIJDRV	SYNMOD	SPMDRV	SOLVOC	SOLVIC	REBLCK	PRTSYM
		CONJUG	BMIRMS						
NREAD	-	WRJCHK	STRUP	RWFILS	RVCOMS	DECOMP			
NREADA	-	DECOMP							
NRECA	-	DECOMP							
NRECS	-	SOLDRV	RWFILS	PUTSYM					
NREC1	-	BACSUB							
NREC2	-	BACSUB							
NRNAMS	-	STATFN	BLKDAT	ASSIGN					
NROW	-	ZIJSET	JNCSUM	DECOMP					
NROWA	-	SOLDRV	LUDDRV						
NROWB	-	SOLDRV							
NROWC	-	SOLDRV							
NROWCC	-	SOLDRV							
NROVE	-	EXCDRV							
NROWF	-	EFGMAT							
NROWG	-	EFGMAT							
NROWL	-	BACSUB							
NROWP	-	SOLDRV							
NROWS	-	ZIJDRV	SYNDEF	SOLVOC	SOLVIC	SETDRV	PRTSYM	LUDDRV	LODDRV
		EFGMAT	BANDIT	BACSUB					
NROWU	-	BACSUB							
NROWX	-	ZIJDRV	SOLDRV						
NROWY	-	SOLDRV							
NROW1	-	SYNDEF	DMPDRV						
NROW2	-	DMPDRV							
NRSUBS	-	STATFN	RVCOMS	BLKDAT					
NRTIMS	-	STATIN	STATFN	RVCOMS	BLKDAT				
NRWX2	-	ZIJDRV							

MOM Module

I N D E X

***** SUPER INDEX *****

NR1	-	PRTSYM							
NR2	-	PRTSYM							
NS	-	ZIJSET	ZIJDRV	SYMUPD	SYMJOB	SYMDEF	SETDRV	RWFILS	ROMBNT
		GETGEO	EXCDRV	EFGMAT					
NSAV	-	FLDDRV							
NSCNER	-	GETKUD	BLKDAT						
NSH	-	ZIJDRV	CONVRT						
NSHAD	-	ZIJSET	ZIJDRV						
NSHFTS	-	BLKDAT							
NSHIFT	-	ZIJDRV	LUDDRV	EFGMAT					
NSYM	-	SMATRX	LODSYM						
NSYMBL	-	SYMUPD	SYMDEF	LUDDRV	BACSUB				
NT	-	TSKXQT	ROMBNT						
NTAB	-	GETKUD	BLKDAT						
NTALPH	-	PRTSYM	BLKDAT						
NTASK	-	BLKDAT							
NTASKE	-	EXCDRV							
NTASKS	-	BLKDAT							
NTASKV	-	EXCDRV							
NTCELL	-	BACSUB							
NTDM	-	BLKDAT							
NTDFF1	-	BLKDAT							
NTDFF2	-	BLKDAT							
NTEMPS	-	ZIJDRV	SOLDRV	SETDRV	RWFILS	PUTSYM	MOVFIL	LUDDRV	FLDDRV
		EXCDRV	EFGMAT	BLKDAT					
NTEND	-	BLKDAT							
NTERR	-	BLKDAT							
NTFLPT	-	ZIJDRV	SOLDRV	SETDRV	LODDRV	GETARG	FLDDRV	EXCDRV	DMPDRV
		BLKDAT							
NTGRAN	-	ROMBNT							
NTINT	-	TSKXQT	GETARG	DMPDRV	BLKDAT				
NTKEYH	-	GETKUD	DMPDRV	BLKDAT					
NTLEFT	-	BACSUB							
NTPARG	-	GETARG							
NTPGTO	-	BLKDAT							
NTQBLK	-	PUTSEG							
NTRPLT	-	ZIJSET							
NTRPLU	-	ZIJSET							
NTS	-	ROMBNT							
NTSFMT	-	BLKDAT							
NTSKMX	-	BLKDAT							
NTSKTB	-	TSKXQT	BLKDAT						
NTSYMB	-	ZIJDRV	GETGEO	GETARG	EXCDRV	DMPDRV	BLKDAT		
NTTASK	-	BLKDAT							
NU	-	BACSUB							
NUMARG	-	ZZXOUM	TSKXQT	SOLDRV	SET	PRTSYM	LODDRV	FLDDRV	EXCDRV
		DMPDRV	BLKDAT						
NUMBAS	-	ZIJDRV							
NUMBLK	-	PUTSEG							
NUMCHK	-	WRTCHK	GETSEG	BLKDAT					

MOM Module

I N D E X

***** SUPER INDEX *****

NUMCOL -	SOLVOC	SETDRV	PUTSYM	DECOMP	BACSUB				
NUMCOM -	RWCONS								
NUMCYL -	GETGEO	BLKDAT							
NUMECP -	GETGEO	BLKDAT							
NUMELM -	PRTSYM								
NUMGTD -	GETGEO	EFGMAT	BLKDAT						
NUMITR -	SOLDRV								
NUMLFT -	RDEFIL								
NUMMAT -	SOLDRV	REBLCK	LUDDRV	BANDIT	BACSUB				
NUMPLT -	GETGEO	BLKDAT							
NUMPTS -	BLKDAT								
NUMREC -	RWFILS	PRTSYM							
NUMROW -	SOLVOC	SETDRV	PUTSYM	GETSYM	FNDREC	BACSUB			
NUMSB -	STATOT	STATIN	ASSIGN						
NUMSEG -	ZIJDRV	SEJCON	PUTSEG	LODDRV	GETGEO	EXCDRV	CABC	BLKDAT	
NUMSUB -	ZZXDM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UMFLD	
	UNEFLO	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYNUPD	
	SYHMOD	SYHDEF	STRTUP	STATOT	STATIN	STATFN	SPWDRV	SOLVOC	
	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON	SCALE3	
	SCALE2	RWFILS	RWCONS	ROMBNT	REBLCK	RDEFIL	PUTSYM	PUTSEG	
	PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	NERFLD	
	MOVFIL	MAIN	LUDDRV	LOBSYM	LODDRV	JNCSUM	IBITCK	GNDREF	
	GETSYM	GETSEG	GETKWV	GETKUD	GETGEO	GETARG	FNDREC	FLDDRV	
	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP	CONJUG	
	CNVAMP	CABC	BMRHS	BANDIT	BACSUB	ASSIGN			
NUMSYM -	GETARG								
NUMTSK -	TSKXQT	OPNFIL							
NUMVIP -	BLKDAT								
NUMWRD -	SYHDEF	ROMBNT	PRTSYM	FABLO4					
NUMYRS -	SPWDRV	EXCDRV							
NUMPER -	LUDDRV								
NVAL -	TSKXQT	STRTUP	SOLDRV	SETDRV	RWFILS	PUTKWV	MAIN	GETKWV	
	GETKUD	DMPDRV	BLKDAT						
NVALMX -	GETKUD	BLKDAT							
NU -	CONVRT								
NUMSIZ -	CONVRT	BLKDAT							
NUMIRE -	ZIJSET	ZIJDRV	SPWDRV	SOLDRV	SEJCON	NERFLD	GETGEO	FARFLD	
	EXCDRV	CNVAMP	CABC	BLKDAT					
NUMRD -	CONVRT								
NUMRDS -	WRTFIL	RDEFIL							
NX -	DECOMP								
NXINT -	SPWDRV	SOLDRV	SCALE3	SCALE2	ROMBNT				
NXINT -	PAGPLT								
NXTARG -	LODDRV	FLDDRV	EXCDRV	DMPDRV					
NXTCOL -	BACSUB								
NXTSYM -	SYHDEF	BLKDAT							
NXTTSK -	TSKXQT								
NXTWRD -	DECOMP	CONVRT							
NXVAL -	PAGPLT								
NY -	ZIJDRV	SPWDRV	SOLDRV	EXCDRV					

MOM Module

I N D E X

***** SUPER INDEX *****

NYINT	-	PAGPLT																		
NVRSYM	-	ZIJSET	ZIJDRV	SOLDRV																
NYV	-	PAGPLT																		
NYVAL	-	PAGPLT																		
NZ	-	ZIJORV	SPWDRV	LODSYM																
ND	-	GETSYM																		
N1	-	PUTSYM	LUDDRV	BANDIT	BACSUB															
N2	-	PUTSYM	BANDIT	BACSUB																
OHMS	-	LODDRV																		
OLDBCR	-	SOLDRV																		
OLDIRE	-	SOLDRV																		
OMEGA	-	FARFLD																		
OPNFIL	-	WRTCHK	TSKXGT	SYNDEF	STATFN	SOLDRV	RWFILS	PUTSYM	PRTSYM											
		DECOMP	CABC																	
PARTB	-	RVCOMS																		
PATCH	-	NERFLD																		
PCNT	-	STATFN																		
PH	-	ZINT																		
PHAZ	-	SNATRX																		
PNI	-	SPWDRV	FARFLD	EXCDRV																
PHIS	-	SPWDRV																		
PHX	-	NTRPLT	FARFLD																	
PHV	-	NTRPLT	FARFLD																	
PHZ	-	NTRPLT																		
PI	-	ZINT	FARFLD																	
PIVRAT	-	DECOMP																		
PLNUAV	-	SPWDRV																		
POT	-	ZINT																		
PREIRE	-	SOLDRV																		
PREITR	-	SOLDRV																		
PRTKJ	-	ZIJDRV	EXCDRV																	
PRTSYM	-	TSKXGT																		
PTIME	-	TICHEK	STATOT	STATIN																
PTBLE	-	BLKDAT																		
PUTKVV	-	OMPDRV																		
PUTSYM	-	ZIJDRV	WRTCHK	STRUP	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSEG											
		LUDDRV	LODDRV	GETSEG	FLODRV	EXCDRV	EFGMAT	OMPDRV	BANDIT											
PWRIN	-	SOLDRV																		
PWRLOS	-	SOLDRV																		
PX	-	ZIJSET	NERFLD	GNDREF																
PY	-	ZIJSET	NERFLD	GNDREF																
Q1	-	NERFLD																		
Q2	-	NERFLD																		
R	-	ZIJSET	UNNFLD	UNEFLO	SPWDRV	PUTSEG	NERFLD	EXCDRV	OMPDRV											
RAB	-	BLKDAT																		
RAPPRX	-	ZIJDRV																		
RATIO	-	BANDIT																		
RDEFIL	-	STRUP	SOLDRV	RWFILS	RVCOMS	PUTSYM	MOVFIL	GETSYM	DECOMP											
RTOB6	-	PRTSYM	FLODRV																	
READ	-	RVCOMS	RDEFIL	NERFLD	LUSTAT	FARFLD														

MOM Module

I N D E X

***** SUPER INDEX *****

REAL	-	ZIJSET	SPWDRV	SOLVIC	SOLDRV	SETDRV	LODSYM	LODDRV	GNDREF
		FLDDRV	DECOMP	CABC					
REALM	-	DECOMP							
REBLCK	-	ZIJDRV							
REFH	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	STRTUP
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYM	NTRPLU	NTRPLT
		NERFLD	LODDRV	JNCSUM	GNDREF	GETKVV	FLDDRV	FARFLD	EXCDRV
		CNVAMP	CABC	BLKDAT					
REFLCT	-	SPWDRV							
REFV	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	STRTUP
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYM	NTRPLU	NTRPLT
		NERFLD	LODDRV	JNCSUM	GNDREF	GETKVV	FLDDRV	FARFLD	EXCDRV
		CNVAMP	CABC	BLKDAT					
RELERR	-	SOLDRV							
RETURN	-	ZZXDUM	ZINT	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK
		WLKDC	UNHFLD	UNEFLD	TSKXGT	TRCEBK	TNHFLD	TNEFLD	ZICHEK
		SYSRTN	SYSCHK	SYNUPD	SYMOB	SYMDEF	STRTUP	STATOT	STATIN
		STATFN	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NTGRAN	NERFLD	NOVFIL	LUSTAT	LUDDRV	LODSYM
		LODDRV	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR
		EFGMAT	DMPDRV	DECOMP	CONVRT	CONJUG	CNVTST	CNVAMP	CLSFIL
		CABC	BMIRNS	BANDIT	BACSUB	ASSIGN			
REX	-	FLDDRV							
REY	-	FLDDRV							
REZ	-	FLDDRV							
RF	-	SPWDRV							
RFL	-	SPWDRV							
RFL	-	ZIJSET	NERFLD						
RH	-	ZIJSET	TNHFLD	TNEFLD	NTRPLT	NERFLD			
RHK	-	TNHFLD	TNEFLD	NTGRAN					
RHO	-	SPWDRV							
RHOSQ	-	SPWDRV							
RHOX	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RHOY	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RHOZ	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RMS	-	BMIRNS	BACSUB						
RMSK	-	BMIRNS							
RNZ	-	TNHFLD							
RN2	-	NERFLD							
RI	-	SPWDRV	LODDRV	FARFLD					
RINP	-	SPWDRV							
RINV	-	FLDDRV							
RITEMS	-	STATFN							
RJ1	-	UNEFLD							
RJ2	-	UNEFLD							
RK	-	UNHFLD	UNEFLD	NTGRAN	NERFLD				
RKB	-	TNEFLD							

MOM Module

I N D E X

***** SUPER INDEX *****

RKB2	-	TNEFLD	NTGRAN								
RKN	-	ZIJSET									
RKN1	-	ZIJSET									
RKN1IN	-	ZIJSET									
RK2	-	NTGRAN	NERFLD								
RL	-	LODRV									
RMAG	-	ZIJSET	NERFLD								
ROLAM	-	ZINT									
ROBNT	-	TNHFLD	TNEFLD								
ROP1	-	DMPDRV									
ROP2	-	DMPDRV									
ROUT	-	SPUDRV									
ROWDR	-	PRTSYM									
ROX	-	FARFLD									
ROY	-	FARFLD									
ROZ	-	FARFLD									
RPART	-	PRTSYM									
RPARTE	-	PRTSYM									
RPPRX	-	ZIJDRV									
RR	-	FARFLD									
RRH	-	FARFLD									
RRK2	-	NTGRAN									
RRK3	-	NTGRAN									
RRV	-	FARFLD									
RS	-	SPUDRV	NERFLD								
RSO	-	SPUDRV									
RSTART	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK		SYSCHK	
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL		PUTSYM	
		PUTKUV	OPNFIL	NERFLD	MAIN	LUODRV	LOODRV	GETSYM		GETKUV	
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT		ASSIGN	
RSTRTA	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK		SYSCHK	
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL		PUTSYM	
		PUTKUV	OPNFIL	NERFLD	MAIN	LUODRV	LOODRV	GETSYM		GETKUV	
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT		ASSIGN	
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT					
RTINS	-	STATOT	STATIN	BLKDAT							
RV	-	SETDRV									
RVCOMS	-	WRTCHK	STRUP								
RWFILS	-	WRTCHK	STRUP								
RX	-	ROBNT									
R1	-	TNHFLD									
R1K	-	TNHFLD	TNEFLD								
R1KS	-	TNEFLD									
R2	-	ZIJSET	UNHFLD	UNEFLD	TNHFLD						
R2K	-	UNEFLD	TNHFLD	TNEFLD							
R2KS	-	TNEFLD									
R3	-	UNHFLD	UNEFLD	NERFLD							
R5	-	UNEFLD	NERFLD								
S	-	ZINT	ZIJSET	TNHFLD	TNEFLD	SEJCON	NERFLD				
SABE	-	ZIJSET	WYRPAT	SEJCON	NTRPLU						

MOM Module

I N D E X

***** SUPER INDEX *****

SABJ	-	ZIJSET	SEJCON	NTRPLT	NERFLD	GNDREF			
SALPI	-	ZIJSET	WYRPAT	SEJCON	NTRPLU				
SALPJ	-	ZIJSET	SEJCON						
SALPR	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
SCALE	-	BLKDAT							
SCALES	-	BLKDAT							
SCALE2	-	PAGPLT							
SCALE3	-	PAGPLT							
SCNPR	-	RUCOMS							
SDHK	-	TNHFLD							
SEGLGH	-	EXCDRV							
SEGNAM	-	EXCDRV							
SEGR	-	LODDRV							
SEGTBL	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	STRUP	SPWDRV	SOLDRV	SEJCON
		RWFILS	PUTSEG	NERFLD	LUDRV	LODDRV	GETSEG	GETGEO	FLODRV
		FARFLD	EXCDRV	CNVAMP	CABC	BLKDAT			
		CABC							
SEJCON	-	ZIJSET							
SET	-	TSKXQT							
SETAC1	-	ZIJSET							
SETDRV	-	TSKXQT							
SGI	-	ROMBNT							
SGMNT	-	RUCOMS							
SGR	-	ROMBNT							
SHELL	-	STATFN							
SI	-	NTGRAN	EFGMAT						
SIGL	-	ZINT							
SIGMA	-	ZIJDRV	PUTKV	GETKV	BLKDAT				
SILK	-	NTRPLT	CABC						
SILL	-	FARFLD							
SIN	-	ZIJSET	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV	SMATRX	NTRPLT
		NTGRAN	NERFLD	FLDDRV	FARFLD	CABC			
SINARG	-	SPWDRV							
SINC2	-	FLDDRV							
SINC3	-	FLDDRV							
SINETA	-	SPWDRV							
SINK	-	NTRPLT	CABC						
SINL	-	NTRPLT	CABC						
SINP	-	SPWDRV							
SINT	-	TNEFLD	SPWDRV						
SINTSQ	-	SPWDRV							
SIZE	-	DECOMP							
SJ1	-	SEJCON							
SJ2	-	SEJCON							
SKI	-	SOLVOC							
SKR	-	SOLVOC							
SKT	-	TNEFLD							
SMATRX	-	ZIJDRV	SOLDRV						
SMSTR	-	RUCOMS							
SNC	-	SEJCON							
SOL	-	SOLVOC	BMIRMS						

MOM Module

I N D E X

***** SUPER INDEX *****

SOLDRV -	TSKXQT							
SOLIRE -	SOLDRV							
SOLJ -	SOLVOC							
SOLJI -	SOLVOC							
SOLJR -	SOLVOC							
SOLKI -	SOLVOC							
SOLKR -	SOLVOC							
SOLMAG -	SOLDRV							
SOLVIC -	BACSUB							
SOLVOC -	BACSUB							
SORT -	ZIJSET	ZIJDRV	SPWDRV	SOLDRV	SET	SEJCON	PUTSEG	PRTKJ
	LODDR	GETSEG	GETGEO	FLDDRV	EXCDRV	CNVAMP	BLKDAT	
SPWDRV -	EXCDRV							
SORT -	ZINT	ZIJSET	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV
	SOLDRV	ROMBNT	PRTSYM	NTGRAN	NERFLD	LODDR	FLDDRV	EXCDRV
	DECOMP	BANDIT						
SQRTRC -	PRTSYM							
SQUARE -	DECOMP							
SR -	EFGMAT							
SRAY -	WRTCHK							
SRK -	UNHFLD	NTGRAN						
SR1 -	TNEFLD							
SR1K -	TNHFLD							
SR1R -	TNEFLD							
SR1RR -	TNEFLD							
SR2 -	TNEFLD							
SR2K -	TNHFLD							
SR2R -	TNEFLD							
SR2RR -	TNEFLD							
SS -	ROMBNT							
SST -	TNEFLD							
STATFN -	MAIN							
STATIN -	ZZXDUM	ERROR						
	UNEFLD	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	SYMDEF	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SET	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	RDEFIL	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
	NTRPLU	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	IBITCK	NTRPLT	NERFLD	MOVFIL	LUDDRV	LOOSYM	LODDR	JNCSUM
	FNDREC	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	DECOMP	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
STATOT -	CONJUG	CNVAMP		CABC	BMIRHS	BANDIT	BACSUB	
	ZZXDUM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LOOSYM	LODDR	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BANDIT	BACSUB	

MOM Module

I N D E X

***** SUPER INDEX *****

STOP	-	ZIJSET	ZIJDRV	WRTFIL	WLKBCK	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRTUP	SOLDRV	SMATRX	SETDRV	SEJCON	RWFILS	REBLCK	RDEFIL
		PUTSYM	PUTKVV	OPNFIL	MOVFIL	MAIN	LUDDRV	LODDRV	GETSYM
		GETKVV	GETARG	FNDREC	FLDDRV	FABLD4	EXCDRV	EFGMAT	DMPDRV
		DECOMP	CNVAMP	BANDIT	BACSUB				
STOR	-	FARFLD							
STRTUP	-	MAIN							
SUBOPR	-	DMPDRV							
SUMI	-	SOLVIC							
SUMR	-	SOLVIC							
SYMDEF	-	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PUTSYM	LUDDRV	LODDRV	FLDDRV
		EXCDRV	EFGMAT	DMPDRV	BANDIT				
SYMFLG	-	ZIJDRV							
SYMHOD	-	ZIJDRV	SOLDRV						
SYMOP	-	SYMHOD	SMATRX						
SYMUPD	-	ZIJDRV	TSKXQT	SOLDRV	PUTSEG	LUDDRV	LODDRV	FLDDRV	EXCDRV
		BANDIT							
SYSCHK	-	ZIJDRV	TSKXQT	DECOMP					
SYSFL	-	RWCONS							
SYSLST	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRTUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
SYSRTN	-	MAIN							
SZPK	-	TNHFLD							
S1	-	WYRPAT							
S2	-	WYRPAT							
S2SAVE	-	WYRPAT							
T	-	WRTCHK	TICKEK	SPWDRV					
TAGNAM	-	EXCDRV							
TC1	-	UNEFLO							
TCR	-	UNEFLO							
TEMP	-	ZIJDRV	WRTCHK	SYMDEF	SPWDRV	SOLDRV	SETDRV	RWFILS	RWCONS
		PUTSYM	PRTSYM	NERFLD	MOVFIL	MAIN	LUDDRV	LODDRV	FLDDRV
		FARFLD	EXCDRV	EFGMAT	DMPDRV	CABC	BLKDAT	BANDIT	
TE11	-	ROMBNT							
TE1R	-	ROMBNT							
TE21	-	ROMBNT							
TE2R	-	ROMBNT							
TFX	-	GNDREF							
TFY	-	GNDREF							
TFZ	-	GNDREF							
TH	-	ZINT							
THET	-	FARFLD							
THETA	-	SPWDRV	EXCDRV						
THETS	-	SPWDRV							
THX	-	FARFLD							
THY	-	FARFLD							
THZ	-	FARFLD							
TI	-	UNHFLD							

MOM Module

I N D E X

***** SUPER INDEX *****

TICHEK -	ZIJSET	WRTCHK	TSKXQT	SYSCHK	DECOMP				
TIMCHK -	SYSCHK								
TIME -	SYSRTN	MAIN							
TIMIN -	STATIN								
TIMOUT -	STATOT								
TINTGO -	ZIJSET	SYSCHK	PUTKWV	GETKWV	DECOMP	BLKDAT			
TIX -	UNHFLD								
TIY -	UNHFLD								
TIZ -	UNHFLD								
TLAST -	TICHEK	SYSCHK							
TLEFT -	ZIJSET	DECOMP							
TPMBUF -	PUTSYM	GETSYM							
TNEFLD -	NTRPLT	NERFLD							
TNHFLD -	NERPLT								
TNOW -	ZIJSET	TSKXQT	SYSCHK	DECOMP					
TOO -	FARFLD								
TOP -	FARFLD								
TOTAL -	STATFN								
TOTCON -	CNVAMP								
TP -	ZINT								
TPCEPI -	ZIJDRV	BLKDAT							
TPCMU -	ZINT								
TPIRSQ -	ZIJSET								
TR -	UNHFLD								
TRACE -	MAIN								
TRACST -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRVR	WYRPAT	WRTFIL	WRTCHK	WLKCK	
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK	
	SYMUPD	SYMMOD	SYNDEF	STRUP	STATOT	STATIN	STATFN	SPNDRV	
	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETRV	SET	SEJCON	
	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM	
	PUTSEG	PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM	
	IBITCK	GNDREF	GETSYM	GETSEG	GETKWV	GETKVD	GFTGEO	GETARG	
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT	
	BANDIT	BACSUB	ASSIGN						
TRANSP -	SOLVIC								
TRCEBK -	WLKCK	ERROR							
TRX -	UNHFLD								
TRY -	UNHFLD								
TRZ -	UNHFLD								
TS -	TICHEK								
TSKXQT -	MAIN								
TSTART -	ZIJSET	DECOMP							
TSUMS -	BLKDAT								
TTINS -	BLKDAT								
TWOPI -	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	SMATRX	PUTKWV	
	NERFLD	LODDRV	FARFLD	EXCDRV	BLKDAT				
TX -	NTRPLT								
TY -	NTRPLT								

MOM Module

I N D E X

***** SUPER INDEX *****

TYPE	-	DECOMP				
TZ	-	NTRPLT				
T00I	-	ROMBNT				
T00R	-	ROMBNT				
T01I	-	ROMBNT				
T01R	-	ROMBNT				
T02I	-	ROMBNT				
T02R	-	ROMBNT				
T1	-	UNEFLD	TNHFLD	TNEFLD		
T1I	-	UNEFLD				
T1K	-	TNHFLD				
T1R	-	UNEFLD				
T1S	-	TNEFLD				
T1X	-	SPWDRV	CABC			
T1XI	-	SEJCON	NTRPLU	NTRPLT		
T1XJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T1Y	-	SPWDRV	CABC			
T1YI	-	SEJCON	NTRPLU	NTRPLT		
T1YJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T1Z	-	SPWDRV	CABC			
T1ZI	-	SEJCON	NTRPLU	NTRPLT		
T1ZJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	SEJCON
T1ZJ1	-	ZIJSET				
F10I	-	ROMBNT				
F10R	-	ROMBNT				
T11I	-	ROMBNT				
T11R	-	ROMBNT				
T2	-	UNEFLD	TNHFLD	TNEFLD		
T2C	-	TNHFLD				
T2I	-	UNEFLD				
T2R	-	UNEFLD				
T2S	-	TNHFLD	TNEFLD			
T2X	-	SPWDRV	CABC			
T2XI	-	SEJCON	NTRPLU	NTRPLT		
T2XJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T2Y	-	SPWDRV	CABC			
T2YI	-	SEJCON	NTRPLU	NTRPLT		
T2YJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T2Z	-	SPWDRV	CABC			
T2ZI	-	SEJCON	NTRPLU	NTRPLT		
T2ZJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	SEJCON
T2ZJ1	-	ZIJSET				
T20I	-	ROMBNT				
T20R	-	ROMBNT				
T3	-	UNEFLD	TNEFLD			
T3C	-	TNHFLD				
T3S	-	TNHFLD	TNEFLD			
T4	-	UNEFLD	TNEFLD			
T4S	-	TNEFLD				
U	-	FLOORV				

MOM Module

I N D E X

***** SUPER INDEX *****

UNEFLD -	WYRPAT	NTRPLU						
UNHFLD -	NTRPLU							
UPDBLK -	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	STRUP	SPWDRV	SOLDRV	SEJCON
	RWFILS	PUTSEG	NERFLD	LUDDRV	LODDRV	GETSEG	GETGEO	FLDDRV
	FARFLD	EXCDRV	CNVAMP	CABC	BLKDAT			
U1X -	FLDDRV							
U1Y -	FLDDRV							
U1Z -	FLDDRV							
U2X -	FLDDRV							
U2Y -	FLDDRV							
U2Z -	FLDDRV							
U3X -	FLDDRV							
U3Y -	FLDDRV							
U3Z -	FLDDRV							
V -	SOLVIC							
VAL -	TSKXQT	STRUP	SOLDRV	SETDRV	RWFILS	PUTKWV	MAIN	GETKWV
	GETKWD	DMPDRV	BLKDAT					
VALUKW -	PUTKWV	GETKWV						
VI -	SPWDRV	SOLVIC						
VINT -	SCALE3	SCALE2						
VLT -	SOLDRV							
VMAG -	SPWDRV	EXCDRV						
VOLTS -	SPWDRV							
VPHI -	EXCDRV							
VR -	SPWDRV	SOLVIC						
VTHETA -	EXCDRV							
WAVLGH -	ZIJDRV	TNEFLD	PUTKWV	LODDRV	EXCDRV			
WAVNUM -	ZIJSET	ZIJDRV	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV	PUTKWV
	NTRPLT	NERFLD	LODDRV	FARFLD	EXCDRV	CABC		
WIRE -	SPWDRV							
WLKBCK -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LOOSYM	LODDRV	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BANDIT	BACSUB	
WORDS -	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKBCK
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
	SYMUPD	SYMMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV
	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
	SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
	PUTSEG	PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
	BANDIT	BACSUB	ASSIGN					

MOM Module

I N D E X

***** SUPER INDEX *****

WRITE	-	ZZXOUM	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	MLKBCK	TSKXQT	TRCEBK
		SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SOLDRV
		SMATRX	SETDRV	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRYKJ	PACPLY	OPNFIL
		NERFLD	NOVFIL	MAIN	LUDDRV	LODDRV	GETSYM	GETSEG	GETKVV
		GETGEO	GETARG	FNDREC	FLDDRV	FARFLD	FABLD4	EXCDRV	EFGMAT
		DMPDRV	DECOMP	CNVAMP	CABC	BANDIT	BACSUB	ASSIGN	
		TSKXQT	SYSCHK	STATFN	SOLDRV	ERROR			
WRTCHK	-	WRTCHK	SOLDRV	RWFILS	RWCOMS	PUTSYM	PRTSYM	DECOMP	
WRTFIL	-	PRTSYM							
WRTTSK	-	NTRPLU							
WYRPAT	-	ZINT	PAGPLT	FLDDRV					
X	-	SPMDRV							
XC	-	NERFLD							
XD	-	ZIJSET	WYRPAT	SEJCON					
XI	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU			
XIJ	-	ZIJSET	WYRPAT	SEJCON					
XJ	-	WYRPAT							
XJSAVE	-	SCALE3	SCALE2	PAGPLT					
XMAX	-	SCALE3							
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMIN	-	SCALE3	SCALE2	PAGPLT					
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XOB	-	NERFLD							
XP	-	PAGPLT							
XR	-	SPMDRV							
XS	-	SPMDRV							
XSS	-	WYRPAT							
XVAL	-	PAGPLT							
XV	-	SPMDRV	FLDDRV						
XWORDS	-	WRTFIL	RDEFIL						
XX1	-	PUTSEG							
XYMAG	-	ZIJSET	NERFLD						
X1	-	PUTSEG							
X2	-	PUTSEG							
X3	-	PUTSEG							
Y	-	ZINT	PAGPLT	FLDDRV					
YC	-	SPMDRV							
YD	-	NERFLD							
YI	-	ZIJSET	WYRPAT	SEJCON					
YIJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU			
YJ	-	ZIJSET	WYRPAT	SEJCON					
YJSAVE	-	WYRPAT							
YMAX	-	PAGPLT							
YMAXP	-	PAGPLT							
YMIN	-	PAGPLT							
YMINP	-	PAGPLT							
YOB	-	NERFLD							
YP	-	PAGPLT							

MOM Module

I N D E X

***** SUPER INDEX *****

YR	-	SPWDRV							
YS	-	SPWDRV							
YSS	-	WYRPAT							
YSSTAT	-	YSKXQT							
YVAL	-	PAGPLT							
YW	-	SPWDRV	FLDDRV						
Y1	-	PUTSEG							
Y2	-	PUTSEG							
Y3	-	PUTSEG							
Z	-	SYMMOD	SOLDRV	ROMPNT	REBLCK	LOOSYM	FLDDRV	CONJUG	
ZC	-	SPWDRV	LODDRV	CNVAMP					
ZCDRVR	-	TSKXQT							
ZD	-	NERFLD	LODSYM						
ZDK	-	NTGRAN							
ZDMAX	-	LODSYM							
ZDSQ	-	LODSYM							
ZD1	-	TNHFLD	TNEFLD						
ZD2	-	TNHFLD	TNEFLD						
ZE	-	ROMBNT							
ZEND	-	ROMBNT							
ZERINV	-	DECOMP							
ZERO	-	ZIJSET	ZIJDRV	SYSCHK	SOLDRV	PUTKVV	PRTSYM	PAGPLT	LODDRV
		GETGEO	FLDDRV	EXCDRV	DECOMP	CNVAMP	BLKDAT		
ZI	-	ZIJSET	WYRPAT	SOLDRV	SEJCON	LODDRV			
ZIJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU			
ZIJDRV	-	TSKXQT							
ZIJSET	-	ZIJDRV							
ZIMP	-	LODDRV							
ZINT	-	LODDRV							
ZJ	-	ZIJSET	WYRPAT	SEJCON					
ZJSAVE	-	WYRPAT							
ZK	-	NTGRAN							
ZL	-	LODDRV							
ZLODSQ	-	SOLDRV							
ZM	-	LODDRV							
ZMAG	-	SOLDRV							
ZM	-	LODSYM	CNVAMP						
ZOB	-	NERFLD							
ZP	-	ZIJSET	TNHFLD	TNEFLD	ROMBNT	NTRPLT	NERFLD	LODDRV	CNVAMP
ZPHS	-	SOLDRV							
ZPK	-	TNHFLD	TNEFLD	NTGRAN					
ZPSV	-	TNHFLD							
ZR	-	SPWDRV	SOLDRV	LODDRV					
ZRATI	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	STRUP
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYM	NTRPLU	NTRPLT
		NERFLD	LODDRV	JNCSUM	GNDREF	GETKVV	FLDDRV	FARFLD	EXCDRV
		CNVAMP	CABC	BLKDAT					
ZRSIN	-	ZIJSET	NERFLD	FARFLD					
ZRSQRT	-	SPWDRV							
ZS	-	SPWDRV							

MOM Module

I N D E X

***** SUPER INDEX *****

ZSS	-	WYRPAT			
ZW	-	SPWRV	FLDRV		
ZZ	-	TNEFLD			
ZZXDUM	-	ZCDRV	TSKXQT	EXCDRV	OMDRV
ZZ3	-	PUTSEG			
Z1	-	PUTSEG			
Z2	-	PUTSEG			
Z3	-	PUTSEG			

4. OUTPUT Module

I N D E X

***** SUPER INDEX *****

SYMBOL		ROUTINES IN WHICH THE SYMBOL IS USED									
A	-	SCALE3	SCALE2								
ABS	-	SCALE3	SCALE2	PUTKWV	PAGPLT	GETGEO	FLDOUT	FLDDRV			
ADDOPR	-	DMPDRV									
ADEBG	-	RWCOMS									
AINI	-	PAGPLT									
AL	-	SCALE3	SCALE2								
ALOG10	-	SCALE3	SCALE2	PAGPLT	FLDOUT						
AMAX1	-	PAGPLT	FLDOUT	FLDDRV							
AMIN1	-	PAGPLT	FLDOUT								
AMPZJ	-	RWCOMS									
ANG	-	FLDOUT									
ARG	-	FLDOUT									
ARGCN	-	RWCOMS									
ASSIGN	-	WRTFIL	WRTCHK	TSKXQT	YSRIN	YSCHK	SYMUPD	SYMDEF	STRUP		
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV		
		PAGPLT	OPNFIL	MOVFIL	MAIN	IDITCK	GETSYM	GETKWV	GETKWV		
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV				
ATAN2	-	FLDDRV									
B	-	SCALE3	SCALE2								
C	-	DMPDRV									
CHKPNT	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCE3K	YSCHK	SYMDEF	STRUP		
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM		
		GETKWV	ERROR	BLKDAT	ASSIGN						
CHKWRT	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCE3K	YSCHK	SYMDEF	STRUP		
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM		
		GETKWV	ERROR	BLKDAT	ASSIGN						
CI	-	FLDDRV									
CINC	-	FLDOUT									
CLITE	-	PUTKWV	BLKDAT								
CLSFIL	-	WRTCHK	SYMDEF	STATFN	RWFILS	PUTSYM	OPNFIL	ERROR	DMPDRV		
CMAG	-	DMPDRV									
CMPLX1	-	DMPDRV									
CMPLX2	-	DMPDRV									
CNSLIO	-	WRTCHK									
COMPLY	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCE3K	YSCHK	SYMDEF	STRUP		
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM		
		GETKWV	ERROR	BLKDAT	ASSIGN						
COMSAV	-	YSCHK									
CONVRT	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	PUTSYM	PUTKWV	GETSYM	GETKWV		
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV				
COP1	-	DMPDRV									
COP2	-	DMPDRV									
COS	-	FLDOUT									
CPFRWD	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCE3K	YSCHK	SYMDEF	STRUP		
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM		
		GETKWV	ERROR	BLKDAT	ASSIGN						
CR	-	FLDDRV									
CSTM	-	RWCOMS									

PREVIOUS PAGE
IS BLANK

OUTPUT Module

INDEX

***** SUPER INDEX *****

CV	-	FLDOUT								
CVAL	-	BLKDAT								
CX	-	BLKDAT								
DATIM	-	SYSRTN								
DBGPR1	-	WRTFIL	WRTCHK	WLK9CK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD	
		SYMDEF	STRUP	STATOT	STATN	STATFN	SHELL	SET	SCALE3	
		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	
		MOVFIL	MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG	
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT	
		ASSIGN								
DBMIN	-	FLDOUT								
DCHR	-	PAGPLT								
DCINV	-	PAGPLT								
DEL	-	SCALE3	SCALE2							
DFDT	-	RWCOMS								
DGTORD	-	FLDOUT	FLDDRV	BLKDAT						
DIST	-	SCALE3	SCALE2							
DISTL	-	SCALE3								
DIVOPR	-	DMPDRV								
DJ	-	SYSRTN								
DLINV	-	PAGPLT								
DLYN	-	PAGPLT								
DMPDRV	-	TSKXQT								
DT	-	WRTCHK	TSKXQT	TICKEK	SYSCHK					
DX	-	PAGPLT								
DY	-	PAGPLT								
DYNAMR	-	FLDOUT								
ENAXSQ	-	FLDOUT								
EPH	-	FLDDRV								
EPSR	-	PUTKWV	GETKWV	BLKDAT						
ERROR	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	RDEFIL	PUTSYM	PUTKWV	
		OPNFIL	MOVFIL	GETSYM	GETKWV	GETARG	FNDREC	FLDOUT	FLDDRV	
		DMPDRV								
ESDR	-	FLDDRV								
ET	-	SYSCHK								
ETA	-	BLKDAT								
ETH	-	FLDDRV								
ETIME	-	SYSCHK								
EX	-	FLDDRV								
EXOPR	-	DMPDRV								
EY	-	FLDDRV								
EZ	-	FLDDRV								
FAR	-	FLDOUT								
FIRST	-	IBITCK								
FJ	-	STRUP	PUTKWV	GETKWV	FLDDRV	BLKDAT				
FLDCH	-	RWCOMS								
FLDDRV	-	TSKXQT								
FLDOUT	-	FLDDRV								
FLOAT	-	SYSRTN	SYSCHK	SCALE3	SCALE2	PAGPLT	GETKWV	GETARG	DMPDRV	
FLTARG	-	TSKXQT	SYMDEF	SET	RWFILS	OPNFIL	MAIN	GETGEO	GETARG	

OUTPUT Module

I N D E X

***** SUPER INDEX *****

		FDDRV	DMPDRV	BLKDAT					
FLTINC	-	SYSCHK							
FTLIT	-	WRTCHK	TSKXQT	SYMDEF	STRUP	RMFILS	PUTSYM	PUTKVV	
		OPNFIL	MAIN	GETSYM	GETKWD	GETGEO	GETARG	FNDREC	
		FLDOUT	FLDDRV	DMPDRV	CONVRT				
FLTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
FM1	-	SCALE3	SCALE2						
FM2	-	SCALE3	SCALE2						
FM	-	SCALE3	SCALE2						
FNDREC	-	PUTSYM	GETSYM						
FRFLD	-	FDDRV							
FROMHZ	-	STRUP	PUTKVV	GETKVV					
FSTCHK	-	WRTCHK							
GEODT	-	RMCOMS							
GETARG	-	TSKXQT	GETGEO	FDDRV					
GETGEO	-	TSKXQT							
GETKVV	-	DMPDRV							
GETSEG	-	GETGEO							
GETSYM	-	WRTCHK	SYMDEF	STRUP	PUTSYM	GETARG	FLDOUT	FDDRV	DMPDRV
GDDOT	-	RMCOMS							
HEAD	-	FLDOUT							
HI	-	SHELL							
I	-	SYSRTN	STRUP	STATFN	SHELL	SET	SCALE3	SCALE2	RMFILS
		RMCOMS	PUTSYM	PAGPLT	IBITCK	GETSYM	GETKWD	GETGEO	FNDREC
		FLDOUT	FDDRV	ERROR	CONVRT	BLKDAT			
IABS	-	TSKXQT	PAGPLT	OPNFIL	GETARG	DMPDRV			
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	GETSYM	FNDREC					
IBIT	-	IBITCK							
IBITA	-	FDDRV							
IBITCK	-	SYMDEF	RMFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	DMPDRV	
IBITR	-	DMPDRV							
IBITS	-	TSKXQT	SYMDEF						
IBIT1	-	SYMDEF	DMPDRV						
IBIT2	-	DMPDRV							
IBLANK	-	FDDRV	BLKDAT						
IBLK	-	GETGEO	FDDRV						
IBLKK	-	GETGEO							
IBLKL	-	WLBCK							
IC	-	SYSRTN	FDDRV						
ICAR	-	CONVRT							
ICKPT	-	STRUP							
ICKFIL	-	WRTCHK							
ICKLOP	-	STRUP							
ICOLA	-	FDDRV							
ICOLM	-	FDDRV							
ICOLT	-	FDDRV							
ICOM	-	RMCOMS							
ICOMM	-	BLKDAT							
ICOMSV	-	RMCOMS							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

ICORDT	-	FLDDRV						
ICOST	-	FLDDRV						
ICTYPE	-	FLDDRV						
ICYTAG	-	BLKDAT						
ID	-	CONVRT						
IDATE	-	SYSRTN						
IDAY	-	MAIN						
IDCSYS	-	BLKDAT						
IDEFIN	-	BLKDAT						
IDFINS	-	BLKDAT						
IDIG	-	BLKDAT						
IDOLAR	-	BLKDAT						
IDPLOT	-	FLDOUT						
IECTAG	-	BLKDAT						
IEOF	-	WRTCHK	STRTUP	RWCOMS				
IEQUAL	-	DMPDRV	BLKDAT					
IERRF	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRTUP	RWFILS
		PUTSYM	PUTKVV	OPNFIL	MOVFIL	GETSYM	GETKVV	RDEFIL
		FLDDRV	ERROR	DMPDRV	BLKDAT		FNDREC	FLDOUT
		SYMUPD	RWFILS	PUTSYM	MOVFIL	GETSYM	FNDREC	CLSFIL
IFILE	-	SYSRTN	STATFN	PAGPLT	FLDDRV			
IFIX	-	FLDDRV						
IFLDMT	-	MOVFIL						
IFLE	-	RWCOMS						
IFLNAM	-	PUTSYM						
IF1	-	PUTSYM						
IF2	-	FLDDRV						
IGFM	-	BLKDAT						
IGNORE	-	SET	PAGPLT	FLDDRV				
IJ	-	SYSRTN						
IJ	-	PUTSYM	GETSYM	FNDREC				
IJMOD	-	DMPDRV	BLKDAT					
ILEFT	-	PUTSYM	GETSYM	FNDREC				
ILOWER	-	DMPDRV						
ILP	-	GETGEO						
ILIM	-	SHELL						
IN	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT		
INDCHK	-	DMPDRV	BLKDAT					
ININUS	-	FLDDRV						
INIS	-	IBITCK						
INT	-	PAGPLT						
INAME	-	BLKDAT						
INCCHK	-	TSKXQT	SYSCHK					
INCORE	-	FLDDRV						
IND	-	CONVRT						
INDEX	-	GETKVV	GETGEO	FLDDRV				
INDEX1	-	FLDDRV						
INDEX2	-	FLDDRV						
INDEX3	-	FLDDRV						
INDXA	-	FLDDRV						
INDXB	-	FLDDRV						

OUTPUT Module

I N D E X

***** SUPER INDEX *****

INDXG	-	TSKXQT							
INDXP1	-	RWCOMS							
INDXMB	-	WLKBCX	TRCEBK	RWCOMS	BLKDAT				
INEM	-	SYMDEF							
INR	-	FLDOUT							
INT	-	PUTKWV	GETARG						
INTARG	-	TSKXQT	SYMDEF	SET	RWFILS	OPNFIL	MAIN	GETGEO	GETARG
		FLDDRV	DMPDRV	BLKDAT					
INTBCD	-	CONVRT							
INTM	-	RWCOMS							
INTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
INTURD	-	CONVRT							
ILOCKPT	-	WRTCHK	TSKXQT	RWCOMS	RDEFIL	PUTSYM	BLKDAT		
IOFILE	-	WRTFIL	WRTCHK	SYMDEF	STRTUP	RWCOMS	RDEFIL	PUTSYM	OPNFIL
		MOVFIL	GETSYM	ERROR	CLSFIL	BLKDAT			
IOFLS	-	RWCOMS							
IOPR	-	DMPDRV							
IORDER	-	PUTSYM	GETSYM	FNDREC					
IOSCRT	-	PUTSYM							
IOSCR1	-	SYMDEF	PUTSYM	BLKDAT					
IOSCR2	-	SYMDEF	PUTSYM	BLKDAT					
IOSTOR	-	SYMDEF	STRTUP						
IOSYMB	-	SYMDEF	BLKDAT						
IOTASK	-	BLKDAT							
IPAREN	-	DMPDRV							
IPASS	-	TSKXQT	SYMDEF	GETARG	FLOORV	DMPDRV			
IPER	-	BLKDAT							
IPERF	-	PUTKWV							
IPLOT	-	FLDDRV							
IPLTAG	-	GETGEO	FLDDRV	BLKDAT					
IPLUS	-	DMPDRV	BLKDAT						
IPTBUF	-	BLKDAT							
IPTS	-	BLKDAT							
IPTTOL	-	BLKDAT							
IPWR2	-	IBITCK							
IP1	-	PAGPLT							
IP217	-	SET	GETGEO	BLKDAT					
IR	-	PUTSYM	GETSYM	FLDOUT					
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECNO	-	PUTSYM							
IRECNO	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	PUTSYM	GETSYM	FLDOUT					
IREC2	-	PUTSYM	GETSYM	FLDOUT					
IRIGHT	-	DMPDRV	BLKDAT						
IROMA	-	FLDDRV							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

IROW1	-	PUTSYM	GETSYM																		
IROW2	-	FLDDRV																			
IRP	-	DMPDRV																			
IRSAV	-	STRUP																			
IRSTRY	-	STRUP	PUTSYM																		
IR1	-	RWFILS	PUTSYM	GETSYM	FLDOUT																
IR2	-	PUTSYM	GETSYM	FLDOUT																	
IS	-	PAGPLT																			
ISBLNK	-	PAGPLT																			
ISCALE	-	BLKDAT																			
ISDASH	-	PAGPLT																			
ISDOT	-	PAGPLT																			
ISEG	-	GETGEO	BLKDAT																		
ISET	-	SET																			
ISETTB	-	SET	BLKDAT																		
ISGTBL	-	WRTCHK	TSKXQT	STRUP	RWFILS	GETGEO	FLDDRV	BLKDAT													
ISLASH	-	DMPDRV	BLKDAT																		
ISOFF	-	WRTCHK	TSKXQT	STRUP	STATFN	RWFILS	RWCOMS	PUTSYM	MAIN												
		GETSYM	GETARG	FNDREC	FLDOUT	ERROR	DMPDRV	CONVRT	CLSFIL												
		BLKDAT																			
ISON	-	WRTFIL	WRTCHK	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT												
		STATIN	STATFN	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	OPNFIL												
		NOVFIL	MAIN	GETSYM	GETKWV	FNDREC	FLDOUT	FLDDRV	ERROR												
		DMPDRV	BLKDAT																		
ISPLUS	-	PAGPLT																			
ISSTAR	-	PAGPLT																			
ISSUE	-	MAIN																			
ISTAR	-	DMPDRV	BLKDAT																		
ISTAT	-	OPNFIL																			
ISTOP	-	SET																			
ISV	-	PUTSYM	GETSYM	FNDREC																	
ISW	-	PUTSYM																			
ISYM	-	PAGPLT																			
ISYMBL	-	BLKDAT																			
IT	-	PUTSYM	GETSYM																		
ITAG	-	GETGEO																			
ITAGID	-	GETGEO	FLDDRV	BLKDAT																	
ITAG1	-	GETGEO																			
ITASK	-	TSKXQT																			
ITEMP	-	WRTCHK	SYMDEF	RWFILS	PUTSYM	NOVFIL	MAIN	FLDOUT	FLDDRV												
		DMPDRV	BLKDAT																		
ITEMS	-	STATFN	SHELL																		
ITIME	-	SYSRTN	MAIN																		
ITYPDE	-	BLKDAT																			
ITYPE	-	PAGPLT																			
ITYPPL	-	BLKDAT																			
ITYPPT	-	BLKDAT																			
ITYPTG	-	BLKDAT																			
IU	-	FLDDRV																			
IUPPER	-	PUTSYM	GETSYM	FNDREC																	

OUTPUT Module

I N D E X

***** SUPER INDEX *****

IWBSAV -	RWCOMS								
IWORDS -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	
	SYMDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	
	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKUV	PAGPLT	OPNFIL	
	NOVFIL	MAIN	IBITCK	GETSYM	GETKUV	GETKWD	GETGEO	GETARG	
	FNDREC	FLOUT	FLODRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT	
	ASSIGN								
IWRD -	IBITCK	FNDREC							
IWRD1 -	PUTSYM	GETSYM							
IWRTCK -	WRTCHK	PUTSYM							
IY -	PAGPLT								
IYRLOC -	GETGEO								
I1 -	TRCEBK	PAGPLT							
I2 -	TRCEBK	PAGPLT							
J -	SYSRTN	STRUP	STATFN	SHELL	SET	PUTSYM	PAGPLT	GETSYM	
	GETKWD	FNDREC	FLODRV						
JAXIS -	FLOUT								
JBIAS1 -	BLKDAT								
JBIAS2 -	BLKDAT								
JBIAS3 -	BLKDAT								
JBIT -	IBITCK								
JCBIAS -	BLKDAT								
JDIG -	BLKDAT								
JHOURS -	SYSRTN								
JMINIT -	SYSRTN								
JMCM -	RWCOMS								
JSAV -	FLODRV								
JWRD -	IBITCK								
K -	SHELL	SET	FLOUT	FLODRV	CONVRT				
KBAND -	PUTSYM	GETSYM	FNDREC						
KBBAND -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBBITS -	BLKDAT								
KBCPLX -	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	DMPDRV	BLKDAT		
KBDPRE -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBFFLD -	FLOUT	FLODRV	BLKDAT						
KBFULL -	BLKDAT								
KBGEOM -	TSKXQT	RWFILS	FLOUT	BLKDAT					
KBINTP -	BLKDAT								
KBLEFT -	BLKDAT								
KBLOAD -	BLKDAT								
KBLWRT -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBNFLD -	FLOUT	FLODRV	BLKDAT						
KBORDR -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBPVIT -	BLKDAT								
KBREAL -	TSKXQT	FLODRV	DMPDRV	BLKDAT					
KBSNGL -	BLKDAT								
KBSOLN -	FLOUT	BLKDAT							
KBSRCE -	FLOUT	BLKDAT							
KBSYP -	BLKDAT								
KBSYPV -	BLKDAT								

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KBTEXT	-	BLKDAT							
KBUPRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBZIPP	-	BLKDAT							
KCHKPT	-	BLKDAT							
KCODE	-	STRTUP							
KGEOP	-	RWFILS							
KIND	-	FLDOUT							
KINPUT	-	BLKDAT							
KJFLD	-	STRTUP	SET	FLDDRV	BLKDAT				
KJGTD	-	STRTUP	SET	FLDDRV	BLKDAT				
KJINT	-	SET	BLKDAT						
KJMON	-	STRTUP	SET	FLDDRV	BLKDAT				
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLM	-	SYMUPD							
KOL	-	SYMUPD							
KOLAST	-	SYMUPD	SYMDEF	STRTUP	PUTSYM	FNDREC	BLKDAT		
KOLBIT	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV
		DMPDRV	BLKDAT						
KOLCNT	-	TSKXQT	BLKDAT						
KOLCOD	-	GETARG	DMPDRV	BLKDAT					
KOLCOL	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	GETGEO	FLDOUT	DMPDRV	BLKDAT
KOLFST	-	SYMUPD	SYMDEF	STRTUP	PUTSYM	GETSYM	FNDREC	BLKDAT	
KOLLAL	-	BLKDAT							
KOLLNK	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV	BLKDAT	
KOLLOC	-	SYMUPD	SYMDEF	STRTUP	RWFILS	PUTSYM	GETSYM	FNDREC	DMPDRV
		BLKDAT							
KOLNAM	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT			
KOLROW	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV
		DMPDRV	BLKDAT						
KOLTIM	-	TSKXQT	BLKDAT						
KOLTSK	-	TSKXQT	BLKDAT						
KOLVAL	-	GETARG	DMPDRV	BLKDAT					
KOUNT	-	TSKXQT							
KOUTPT	-	BLKDAT							
KRSTRT	-	BLKDAT							
KSYMDF	-	BLKDAT							
KSYMP	-	PUTKWV							
KW	-	SET	PUTKWV	GETKWV					
KWA	-	FLDDRV							
KWABS	-	BLKDAT							
KWARG	-	BLKDAT							
KWAXIS	-	BLKDAT							
KWBAND	-	BLKDAT							
KWBCRE	-	BLKDAT							
KWBSCB	-	BLKDAT							
KWBNDW	-	BLKDAT							
KWC	-	BLKDAT							
KWCD	-	BLKDAT							
KWCDP	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWCHKP	-	BLKDAT		
KWCLPS	-	BLKDAT		
KWCNJG	-	BLKDAT		
KWCNVG	-	BLKDAT		
KWCOND	-	PUTKWV	GETKWV	BLKDAT
KWCPNC	-	BLKDAT		
KWCPNM	-	BLKDAT		
KWCR	-	BLKDAT		
KWCS	-	BLKDAT		
KWCW	-	BLKDAT		
KWCY	-	BLKDAT		
KWC1	-	BLKDAT		
KWC2	-	BLKDAT		
KWD	-	BLKDAT		
KWDEBUG	-	BLKDAT		
KWDC	-	BLKDAT		
KWDP	-	BLKDAT		
KWDR	-	BLKDAT		
KWDT	-	BLKDAT		
KWDW	-	BLKDAT		
KWDX	-	BLKDAT		
KWDY	-	BLKDAT		
KWZ	-	BLKDAT		
KWEC	-	BLKDAT		
KWEC	-	BLKDAT		
KWED	-	BLKDAT		
KWEI	-	BLKDAT		
KWEND	-	BLKDAT		
KWEP	-	PUTKWV	GETKWV	BLKDAT
KWER	-	BLKDAT		
KWES	-	BLKDAT		
KWESRC	-	BLKDAT		
KWEU	-	BLKDAT		
KWFFLD	-	BLKDAT		
KWFLID	-	BLKDAT		
KWFMT	-	BLKDAT		
KWFRO	-	PUTKWV	GETKWV	BLKDAT
KWGMT	-	BLKDAT		
KWGT	-	BLKDAT		
KWILP	-	BLKDAT		
KWINPT	-	BLKDAT		
KWINV	-	BLKDAT		
KWIPE	-	BLKDAT		
KWIRE	-	BLKDAT		
KWIS	-	BLKDAT		
KWLAL	-	BLKDAT		
KWGLG	-	FLDOUT	BLKDAT	
KWGLN	-	FLDOUT	BLKDAT	
KWGP	-	FLDOUT	BLKDAT	
KWMT	-	BLKDAT		

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWNLG	-	FLOUT	BLKDAT			
KWNLN	-	FLOUT	BLKDAT			
KWLNPO	-	FLOUT	BLKDAT			
KWLOOP	-	BLKDAT				
KWLU	-	BLKDAT				
KWLUD	-	BLKDAT				
KWMAX	-	GETKWD	BLKDAT			
KWMM	-	BLKDAT				
KWMODL	-	BLKDAT				
KWMXIT	-	BLKDAT				
KWN	-	BLKDAT				
KWNAME	-	PUTKWV	GETKWV	GETKWD	FLDDRV	BLKDAT
KWNFLD	-	BLKDAT				
KWNMFL	-	PUTKWV	GETKWV	BLKDAT		
KWNP	-	BLKDAT				
KWNR	-	BLKDAT				
KWOFF	-	TSKXQT	BLKDAT			
KWON	-	TSKXQT	BLKDAT			
KWOUTP	-	BLKDAT				
KWPART	-	BLKDAT				
KWPC	-	BLKDAT				
KWPD	-	BLKDAT				
KWPR	-	BLKDAT				
KWPHI	-	BLKDAT				
KWPIVT	-	BLKDAT				
KWPL	-	BLKDAT				
KWPLOT	-	BLKDAT				
KWPLSE	-	BLKDAT				
KWPR	-	BLKDAT				
KWPRE	-	BLKDAT				
KWPRGE	-	BLKDAT				
KWPRLC	-	BLKDAT				
KWPRNT	-	BLKDAT				
KWPSN	-	BLKDAT				
KWP1	-	BLKDAT				
KWP2	-	BLKDAT				
KWR	-	BLKDAT				
KWRC	-	BLKDAT				
KWRD	-	BLKDAT				
KWRDP	-	BLKDAT				
KWRDUC	-	BLKDAT				
KWREAD	-	BLKDAT				
KWREPL	-	BLKDAT				
KWRFLC	-	BLKDAT				
KWRITE	-	BLKDAT				
KWRR	-	BLKDAT				
KWRSTR	-	BLKDAT				
KWR1	-	BLKDAT				
KWR2	-	BLKDAT				
KWSC	-	BLKDAT				

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWSCDP	-	BLKDAT							
KWSEGS	-	BLKDAT							
KWSEQ	-	BLKDAT							
KWSET	-	BLKDAT							
KWSIZE	-	BLKDAT							
KWSMOF	-	BLKDAT							
KWSNCS	-	BLKDAT							
KWSOLV	-	BLKDAT							
KWSR	-	BLKDAT							
KWSRDP	-	BLKDAT							
KWSRLC	-	BLKDAT							
KWSTAT	-	BLKDAT	BLKDAT						
KWSTNT	-	BLKDAT							
KWSW	-	BLKDAT							
KWTAGS	-	BLKDAT							
KWTDI	-	BLKDAT							
KWTHET	-	BLKDAT							
KWTIPE	-	PUTKWV	GETKWV	BLKDAT					
KWTRAC	-	TSKXQT	BLKDAT						
KWTRAN	-	BLKDAT							
KWTYPE	-	BLKDAT							
KWT1	-	BLKDAT							
KWT2	-	BLKDAT							
KWV	-	BLKDAT							
KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSR	-	BLKDAT							
KWX	-	BLKDAT							
KWXPND	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	BLKDAT							
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
L	-	PAGPLT	FLDOUT	FLDDRV	ERROR	DMPDRV			
LABEL	-	FLDOUT							
LASTI	-	PAGPLT							
LBL	-	FLDOUT							
LCALLR	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV
		PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKWV	GETKWD
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LCALNM	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRUP

OUTPUT Module

I N D E X

***** SUPER INDEX *****

	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
	PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LETR -	BLKDAT							
LINDX -	TSKXQT							
LINE -	PAGPLT							
LINK -	PUTSYM	GETSYM	FNDREC	FLDOUT				
LINKA -	FLDDRV							
LITNMX -	BLKDAT							
LITNUM -	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRTUP	RWFILS	PUTSYM	PUTKVV
	OPNFIL	MAIN	GETSYM	GETKVV	GETYWD	GETGEO	GETARG	FNDREC
	FLDOUT	FLDDRV	DMPDRV	CONVRT	BLKDAT			
LITYP -	GETARG	DMPDRV						
LITVAL -	DMPDRV							
LNKBIT -	FLDOUT							
LO -	SHELL							
LOC -	STATFN	SHELL	PUTSYM	GETSYM	FNDREC			
LOCARG -	TSKXQT	GETARG	DMPDRV					
LOCEND -	PUTSYM							
LOCFST -	SYMDEF	PUTSYM	GETSYM	FNDREC				
LOGGEO -	GETGEO							
LOCLIT -	DMPDRV							
LOCLST -	SYMDEF	PUTSYM	FNDREC					
LOCNOW -	STRTUP	PUTSYM	GETSYM					
LOCNXT -	TSKXQT							
LOCSTR -	PUTSYM	GETSYM						
LOCTP1 -	TSKXQT							
LOCTSK -	TSKXQT							
LOG -	FLDOUT							
LOOP -	FLDDRV							
LOOPMX -	TSKXQT	BLKDAT						
LOOP1 -	FLDDRV							
LOOP2 -	FLDDRV							
LOOP3 -	FLDDRV							
LOPINR -	FLDDRV							
LOPMID -	FLDDRV							
LOPOUT -	FLDDRV							
LOPSAV -	FLDDRV							
LORDER -	FLDDRV							
LPRPGE -	PAGPLT							
LROUTN -	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
	PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LRTNUM -	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
	PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LSAVE -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD
	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3

OUTPUT Module

I N D E X

***** SUPER INDEX *****

	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL
	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
	ASSIGN							
LSTARG -	TSKXQT							
LSTASK -	BLKDAT							
LSTAT -	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STARTUP
	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV
	PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT	
LSTCHK -	SYSCHK							
LSTCOL -	LUSTAT	BLKDAT						
LSTCSY -	BLKDAT							
LSTDAT -	BLKDAT							
LSTFNC -	BLKDAT							
LSTIMP -	BLKDAT							
LSTINT -	BLKDAT							
LSTIOD -	BLKDAT							
LSTMOD -	STARTUP	STATFN						
LSTSYS -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STARTUP
	STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM
	GETKVV	ERROR	BLKDAT	ASSIGN				
LSTTPF -	TSKXQT	BLKDAT						
LSTWRD -	PUTSYM	GETSYM						
LTRACE -	TSKXQT	STATOT	STATIN	BLKDAT				
LUDEBUG -	BLKDAT							
LUFIL -	STARTUP	OPNFIL						
LUNIT -	WRTFIL	RDEFIL						
LUPRNT -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMUPD	SYMDEF
	STARTUP	STATOT	STATIN	STATFN	SCALE3	SCALE2	RWFILS	RWCOMS
	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	MOVFIL	MAIN	GETSYM
	GETKVV	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT
	ASSIGN							
LUTASK -	LUSTAT	BLKDAT						
LWRUPR -	PUTSYM	GETSYM	FNDREC					
M -	SHELL							
MACHIN -	BLKDAT							
MANTSA -	IBITCK	BLKDAT						
MASK -	FLDDRV							
MATNAM -	PUTSYM	GETSYM	FNDREC					
MATOP1 -	DMPDRV							
MATOP2 -	DMPDRV							
MAXBLK -	TSKXQT	GETGEO						
MAXCDS -	BLKDAT							
MAXCON -	BLKDAT							
MAXCSY -	BLKDAT							
MAXCYL -	BLKDAT							
MAXDEF -	BLKDAT							
MAXECP -	BLKDAT							
MAXPLT -	BLKDAT							

OUTPUT Module

INDEX

***** SUPER INDEX *****

MAXPTS	-	BLKDAT							
MAXRAD	-	BLKDAT							
MAXSEG	-	TSKXQT	BLKDAT						
MAXSTR	-	SYMDEF	PUTSYM	BLKDAT					
MAXWRD	-	PUTSYM	GETSYM						
MAXO	-	SYMDEF	PUTSYM						
MDLE	-	RWCOMS							
MIND	-	PUTSYM	GETSYM	FNDREC					
MKMX	-	BLKDAT							
MN	-	FNDREC							
MOO	-	STRTUP	PAGPLT	IBITCK	GETGEO				
MODCHK	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT			
MODLST	-	STRTUP	STATFN	BLKDAT					
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STRTUP	STATFN	MAIN				
MODNOW	-	STRTUP							
MORE	-	PUTSYM	GETSYM	FNDREC					
MOVE	-	MOVFIL							
MOVFIL	-	STRTUP	PUTSYM	GETSYM					
MOVWRD	-	PUTSYM	MOVFIL						
MSAVE	-	STATOT	STATIN						
MULOPR	-	DMPDRV							
MXANCT	-	BLKDAT							
MXARGS	-	TSKXQT	BLKDAT						
MXARGT	-	BLKDAT							
MXCDFG	-	BLKDAT							
MXCYAR	-	BLKDAT							
MXDPC	-	BLKDAT							
MXECAR	-	BLKDAT							
MXEXFP	-	BLKDAT							
MXEXPD	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	WLK8CK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2						
M2	-	SCALE3	SCALE2						
N	-	TSKXQT	SYMUPD	SYMDEF	STATOT	STATIN	SCALE3	SCALE2	PUTSYM
		PAGPLT	MOVFIL	LUSTAT	GETARG	FLDOUT	FLDDRV	DMPDRV	
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC				
NAL	-	SCALE3	SCALE2						
NAM	-	FLDDRV							
NAMCOM	-	RWCOMS							
NAMDAT	-	TSKXQT							
NAMDEF	-	BLKDAT							
NAME	-	SYMDEF	STRTUP	STATOT	STATIN	RWFILS	RWCOMS	PUTKWV	GETKWV
		GETKWV	FLDDRV						

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NAMEA	-	FLDDRV							
NAMEB	-	FLDDRV							
NAMEYR	-	GETGEO							
NAMFIL	-	DMPDRV							
NAMFLD	-	FLDOUT							
NAMGEO	-	TSKXQT	GETGEO						
NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPYS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC					
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	TSKXQT	GETGEO	BLKDAT					
NAMSUB	-	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	SYNDEF
		STARTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	SCALE2
		RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	MOVFIL
		MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC
		FLDOUT	FLDDRV	ERROR	DMPDRV	CLSFIL	ASSIGN		
		SYMUPD	GETARG	DMPDRV					
NAMSYM	-	SYMUPD	GETARG	DMPDRV					
NAMTSK	-	TSKXQT	BLKDAT						
NARGPX	-	BLKDAT							
NARGTB	-	TSKXQT	BLKDAT						
NARITH	-	BLKDAT							
NBITA	-	FLDDRV							
NBITS	-	IBITCK	FLDOUT						
NBITWD	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBLANK	-	BLKDAT							
NBLK	-	FLDOUT							
NBS	-	CONVRT							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYTSZ	-	CONVRT	BLKDAT						
NCARD	-	LUSTAT	BLKDAT						
NCARDS	-	BLKDAT							
NCCLAS	-	BLKDAT							
NCHAR	-	CONVRT	BLKDAT						
NCHLIN	-	PAGPLT							
NCODE	-	GETKWD	BLKDAT						
NCODES	-	TSKXQT	PUTKWV	GETKWV	GETKWD	GETGEO	FLDDRV	BLKDAT	
NCOL	-	BLKDAT							
NCOLS	-	SYNDEF							
NCOL1	-	SYNDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCH	-	BLKDAT							
NCOMMA	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NCOMSZ	-	RWCOMS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCORN	-	GETGEO							
NOATBL	-	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS	PUTSYM	GETSYM	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT		
NDATMX	-	SYMDEF	BLKDAT						
NDEBUF	-	BLKDAT							
NDF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL
		BLKDAT							
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDTASK	-	BLKDAT							
NDX	-	TSKXQT	PUTKWV	GETKWV	FLDDRV				
NDXARG	-	GETARG	DMPDRV						
NDXBLK	-	GETGEO							
NDXFLD	-	FLDOUT							
NDXINR	-	FLDDRV							
NDXKWD	-	PUTKWV	GETKWV						
NDXKYW	-	DMPDRV							
NDXMID	-	FLDDRV							
NDXOUT	-	FLDDRV							
NE	-	FLDOUT							
NEAR	-	FLDOUT							
NEED	-	SYMDEF	FLDOUT						
NENDCD	-	BLKDAT							
NEOFLG	-	BLKDAT							
NERCL1	-	BLKDAT							
MERCOD	-	GETKWD	BLKDAT						
MERCON	-	BLKDAT							
MERDPN	-	BLKDAT							
MEREOF	-	BLKDAT							
MEREXD	-	BLKDAT							
MEREXF	-	BLKDAT							
MEREXP	-	BLKDAT							
MERINT	-	BLKDAT							
MERNAM	-	BLKDAT							
NEWDAT	-	SYMUPD							
NEWNAM	-	SYMUPD							
NEWSYM	-	SYMDEF							
NEXTI	-	PAGPLT							
NFILE	-	RWFILS							
NFILES	-	SYMDEF	RWCOMS	PUTKWV	GETKWV	ERROR	BLKDAT		
NFINCD	-	BLKDAT							
NFRAC	-	BLKDAT							
NG	-	FLDOUT							
NHDWRD	-	FLDOUT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NI	-	PAGPLT							
NILEGL	-	BLKDAT							
NINC	-	FLDRV							
NINT	-	BLKDAT							
NITEPS	-	STATFN	SHELL						
NLETR	-	BLKDAT							
NLOOPS	-	TSKXQT	BLKDAT						
NMNAPS	-	BLKDAT							
NMOD	-	PAGPLT							
NHSPTR	-	BLKDAT							
NMTMS	-	BLKDAT							
NMVRDS	-	RVCOMS							
NOEND	-	BLKDAT							
NOGOF6	-	TSKXQT	RVCOMS	MAIN	FLDRV	DMPDRV	BLKDAT		
NOP	-	TSKXQT							
NOPCOD	-	TSKXQT	GETARG	FLDOUT	FLDRV	DMPDRV	BLKDAT		
NOPNAM	-	CONVRT							
NOSTAT	-	WRTFIL	WRTCHK	WLBCK	TSKXQT	TRCE3K	SYSRTM	SYSCHK	SYMUPD
		SYMDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3
		SCALE2	RWFILS	RVCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
NOTASK	-	BLKDAT							
NP	-	SCALE3	SCALE2	PUTSYM	PAGPLT	FLDOUT	FLDRV		
NPAREN	-	BLKDAT							
NPATCH	-	GETGEO	BLKDAT						
NPASV	-	SYMDEF							
NPDATA	-	SYMUPD	SYMDEF	STRUP	RWFILS	PUTSYM	GETSYM	GETARG	FNDREC
		FLDOUT	FLDRV	DMPDRV					
NPEARQ	-	BLKDAT							
NPEDPC	-	BLKDAT							
NPEDPL	-	BLKDAT							
NPEDRM	-	BLKDAT							
NPEIFO	-	BLKDAT							
NPEKVD	-	BLKDAT							
NPELAB	-	BLKDAT							
NPELIT	-	BLKDAT							
NPELNL	-	BLKDAT							
NPELOO	-	BLKDAT							
NPELCP	-	BLKDAT							
NPELST	-	BLKDAT							
NPENOI	-	BLKDAT							
NPENOM	-	BLKDAT							
NPENRG	-	BLKDAT							
NPENTK	-	BLKDAT							
NPENUM	-	BLKDAT							
NPERGE	-	BLKDAT							
NPEROD	-	BLKDAT							
NPESCN	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NPESEX	-	BLKDAT					
NPESYM	-	BLKDAT					
NPETSK	-	BLKDAT					
NPI	-	FLDDRV					
NPIC	-	FLDDRV					
NPL	-	FLDOUT					
NPRBUF	-	RWFILS	MOVFIL				
NPRC	-	FLDDRV					
NPRDEF	-	BLKDAT					
NPRELM	-	RWFILS	PUTSYM	GETSYM	FNDREC		
NPRFPT	-	FLDOUT	FLDDRV				
NPRHDR	-	FLDOUT					
NPRPRT	-	PUTSYM	GETSYM	FNDREC			
NPRPT	-	BLKDAT					
NPRREC	-	TSKXQT	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT
NPRSEG	-	TSKXQT	BLKDAT				
NPRSER	-	BLKDAT					
NPSAV	-	DMPDRV					
NPTASK	-	TSKXQT					
NPTBUF	-	BLKDAT					
NR	-	FLDOUT					
NREAD	-	WRTCHK	STRTUP	RWFILS	RWCOMS		
NRECS	-	RWFILS	PUTSYM				
NRNAMS	-	STATFN	BLKDAT	ASSIGN			
NROWS	-	SYMDEF					
NROW1	-	SYMDEF	DMPDRV				
NROW2	-	DMPDRV					
NRSUBS	-	STATFN	RWCOMS	BLKDAT			
NRTIMS	-	STATIN	STATFN	RWCOMS	BLKDAT		
NS	-	SYMUPD	SYMDEF	RWFILS	GETGEO	FLDOUT	
NSAV	-	FLDDRV					
NSCNER	-	GETKWD	BLKDAT				
NSH	-	CONVRT					
NSHFTS	-	BLKDAT					
NSYMBL	-	SYMUPD	SYMDEF				
NT	-	TSKXQT					
NTAB	-	GETKWD	BLKDAT				
NTALPH	-	BLKDAT					
NTASK	-	BLKDAT					
NTASKS	-	BLKDAT					
NTDM	-	BLKDAT					
NTDPF1	-	BLKDAT					
NTDPF2	-	BLKDAT					
NTEMPS	-	RWFILS	PUTSYM	MOVFIL	FLDOUT	BLKDAT	
NTEND	-	BLKDAT					
NTERR	-	BLKDAT					
NTFLPT	-	GETARG	FLDDRV	DMPDRV	BLKDAT		
NTINT	-	TSKXQT	GETARG	DMPDRV	BLKDAT		
NTKEYW	-	GETKWD	DMPDRV	BLKDAT			
NTPARG	-	GETARG					

OUTPUT Module

INDEX

***** SUPER INDEX *****

NTPGTD	-	BLKDAT							
NTSFMT	-	BLKDAT							
NTSKMX	-	BLKDAT							
NTSKT0	-	TSKXQT	BLKDAT						
NTSYMB	-	GETGEO	GETARG	DMPDRV	BLKDAT				
NTTASK	-	BLKDAT							
NT1	-	FLDOUT							
NT1SAV	-	FLDOUT							
NT2	-	FLDOUT							
NT2SAV	-	FLDOUT							
NUMARG	-	TSKXQT	SET	FLDDRV	DMPDRV	BLKDAT			
NUMCHK	-	WRTCHK	BLKDAT						
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCYL	-	GETGEO	BLKDAT						
NUMECP	-	GETGEO	BLKDAT						
NUMGTD	-	GETGEO	BLKDAT						
NUMLFT	-	RDEFIL							
NUMPLT	-	GETGEO	BLKDAT						
NUMPTS	-	FLDOUT	BLKDAT						
NUMREC	-	RWFILS	FLDOUT						
NUMROW	-	PUTSYM	GETSYM	FNDREC					
NUMSB	-	STATOT	STATIN	ASSIGN					
NUMSEG	-	GETGEO	BLKDAT						
NUMSUB	-	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	SYNDEF
		STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	SCALE2
		RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	MOVFIL
		MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC
		FLDOUT	FLDDRV	ERROR	DMPDRV	ASSIGN			
NUMSYM	-	GETARG							
NUMTSK	-	TSKXQT	OPNFIL						
NUMWIP	-	BLKDAT							
NUMWRD	-	SYNDEF							
NVAL	-	TSKXQT	STRTUP	RWFILS	PUTKWV	MAIN	GETKWV	GETKWD	FLDOUT
		DMPDRV	BLKDAT						
NVALMX	-	GETKWD	BLKDAT						
NW	-	CONVRT							
NWDSIZ	-	CONVRT	BLKDAT						
NWIRE	-	GETGEO	BLKDAT						
NWORD	-	CONVRT							
NWORDS	-	WRTFIL	RDEFIL						
NX	-	SCALE3	SCALE2						
NXINT	-	PAGPLT							
NXTARG	-	FLDDRV	DMPDRV						
NXTSYM	-	SYNDEF	BLKDAT						
NXTTSK	-	TSKXQT							
NXTWRD	-	CONVRT							
NXVAL	-	PAGPLT							
NYINT	-	PAGPLT							
NYV	-	PAGPLT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NYVAL	-	PAGPLT							
NO	-	GETSYM							
N1	-	PUTSYM	FLDOUT						
N2	-	PUTSYM	FLDOUT						
OPNFIL	-	WRTCHK	SYMDEF	STATFN	RWFILS	PUTSYM			
PAGPLT	-	FLDOUT							
PARTB	-	RWCOMS							
PCNT	-	STATFN							
PMS	-	FLDOUT							
PHSMAG	-	FLDDRV							
PTIME	-	TICHEK	STATOT	STATIN					
PTTBLE	-	BLKDAT							
PUTKVV	-	DMPDRV							
PUTSYM	-	WRTCHK	STRTUP	RWFILS	FLDDRV	DMPDRV			
PMR	-	FLDOUT							
PMRDWN	-	FLDOUT							
PMRMAX	-	FLDOUT	FLDDRV						
PMRRAT	-	FLDOUT							
PMRSQ	-	FLDOUT							
R	-	DMPDRV							
RAD	-	FLDOUT	BLKDAT						
RADMAX	-	FLDOUT							
RDEFIL	-	STRTUP	RWFILS	RWCOMS	PUTSYM	MOVFIL	GETSYM		
RDTODG	-	FLDDRV							
READ	-	RWCOMS	RDEFIL	LUSTAT					
REFH	-	STRTUP	PUTKVV	GETKVV	FLDDRV	BLKDAT			
REFV	-	STRTUP	PUTKVV	GETKVV	FLDDRV	BLKDAT			
RETURN	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	TICHEK	SYSRIN	SYSCHK
		SYMUPD	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET
		SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT
		OPNFIL	MOVFIL	LUSTAT	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL
		ASSIGN							
RITEMS	-	STATFN							
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
RSTART	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE9K	SYSCHK	SYMDEF	STRTUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKDAT	ASSIGN				
RSTRTA	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STRTUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKDAT	ASSIGN				
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT			
RTINS	-	STATOT	STATIN	BLKDAT					
RWCOMS	-	WRTCHK	STRTUP						
RWFILS	-	WRTCHK	STRTUP						
SCALE	-	BLKDAT							
SCALES	-	BLKDAT							
SCALE2	-	PAGPLT							
SCALE3	-	PAGPLT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

SCNPR -	RWCOMS								
SEGTBL -	WRTCHK	TSKXQT	STRTUP	RWFILS	GETGEO	FLDDRV	BLKDAT		
SET -	TSKXQT								
SGMNT -	RWCOMS								
SHELL -	STATFN								
SIGMA -	PUTKWV	GETKWV	BLKDAT						
SIN -	FLDOUT								
SMSTR -	RWCOMS								
SORT -	SET	GETGEO	FLDOUT	FLDDRV	BLKDAT				
SQRT -	FLDOUT	FLDDRV							
SRAY -	WRTCHK								
STATFN -	MAIN	ERROR							
STATIN -	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP	
	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	
	PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	
	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV			
STATOT -	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP	
	SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	
	PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	
	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV			
STOP -	WRTFIL	WLKBCK	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRTUP	RWFILS	
	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MOVFIL	MAIN	GETSYM	GETKWV	
	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV				
STRTUP -	MAIN								
SUBOPR -	DMPDRV								
SYMDEF -	TSKXQT	PUTSYM	FLDDRV	DMPDRV					
SYMUPD -	TSKXQT	FLDDRV							
SYSCHK -	TSKXQT								
SYSFL -	RWCOMS								
SYSLST -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STRTUP	
	STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM	
	GETKWV	ERROR	BLKDAT	ASSIGN					
SYSRTN -	MAIN								
T -	WRTCHK	TICHEK							
TEMP -	WRTCHK	SYMDEF	RWFILS	RWCOMS	PUTSYM	MOVFIL	MAIN	FLDOUT	
	FLDDRV	DMPDRV	BLKDAT						
	WRTCHK	TSKXQT	SYSCHK						
TICHEK -	WRTCHK	TSKXQT							
TIMCHK -	SYSCHK								
TIME -	SYSRTN	MAIN							
TIMIN -	STATIN								
TIMOUT -	STATOT								
TINTGO -	SYSCHK	PUTKWV	GETKWV	BLKDAT					
TLAST -	TICHEK	SYSCHK							
TMPBUF -	PUTSYM	GETSYM							
TNOW -	TSKXQT	SYSCHK							
TOTAL -	STATFN								
TPCEPI -	BLKDAT								
TRACE -	MAIN								
TRACST -	WRTFIL	WRTCHK	WLK9CK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD	
	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	

OUTPUT Module

INDEX

***** SUPER INDEX *****

		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
TRCEBK	-	WLKBCK	ERROR						
TS	-	TICHEK							
TSKXQT	-	MAIN							
TSUMS	-	BLKDAT							
TTINS	-	BLKDAT							
TWOPI	-	PUTKVV	BLKDAT						
U	-	FLDDRV							
UPDBLK	-	WRTCHK	TSKXQT	STRTUP	RWFILS	GETGEO	FLDDRV	BLKDAT	
VAL	-	TSKXQT	STRTUP	RWFILS	PUTKVV	MAIN	GETKVV	GETKWD	FLDOUT
		DMPDRV	BLKDAT						
VALUKV	-	PUTKVV	GETKVV						
VINT	-	SCALE3	SCALE2						
WAVLGH	-	PUTKVV							
WAVNUM	-	PUTKVV							
WLKBCK	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV		
WORDS	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3
		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
WRITE	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK	SYMUPD	SYMDEF
		STRTUP	STATOT	STATIN	STATFN	SCALE3	SCALE2	RWFILS	RWCOMS
		RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL	MOVFIL	MAIN	GETSYM
		GETKVV	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	ASSIGN
WRTCHK	-	TSKXQT	SYSCHK	STATFN	ERROR				
WRTFIL	-	WRTCHK	RWFILS	RWCOMS	PUTSYM				
X	-	PAGPLT	FLDOUT						
XMAX	-	SCALE3	SCALE2	PAGPLT	FLDOUT				
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMIN	-	SCALE3	SCALE2	PAGPLT	FLDOUT				
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XP	-	PAGPLT							
XVAL	-	PAGPLT							
XWORDS	-	PAGPLT	RDEFIL						
Y	-	PAGPLT	FLDOUT						
YMAX	-	PAGPLT							
YMAXP	-	PAGPLT							
YMIN	-	PAGPLT							
YMINP	-	PAGPLT							
YP	-	PAGPLT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

YSSTAT	-	TSKXQT						
YVAL	-	PAGPLT						
ZERO	-	SYSCHK	PUTKWV	PAGPLT	GETGEO	FLDOUT	FLDDRV	BLKDAT
ZRATI	-	STRUP	PUTKWV	GETKWV	FLDDRV	BLKDAT		
ZZXDUM	-	DMPDRV						

.....

CHAPTER III
COMDECK VARIABLES GLOSSARY

The COMDECK variables glossary contains the listings of all common decks used in the GEMACS code. The FORTRAN named common variables are presented in alphabetical order. A common block/subroutine location index follows that for each module. Then the variables are defined for each common block, including the common executable FORTRAN statements blocks.

PREVIOUS PAGE
IS BLANK

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
A		GEOMEL		
AA		CYLIN		
ANUMK		ANUM		
ANUML		ANUM		
AREA		AMPZIJ		
AS		GTD		
B		AMPZIJ		
B		GEOMEL		
BB		CYLIN		
BCD	(1-168)	BNDRCL		
BD	(1-168)	BNDFCL		
BTDC	(1-336)	BNDDCL		
BTI	(1-56)	BNDICL		
BTS	(1-4)	BNDSCL		
CABI		AMPZIJ		
CABJ		AMPZIJ		
CAS		GTD		
CHKPNT		SYSFIL	BLKDAT	.FALSE.
CHKWRT		SYSFIL	BLKDAT	.FALSE.
CJ		COMP	BLKDAT	(0.,1.)
CLITE		AMPZIJ	BLKDAT	299.79
CNC	(1-2)	GEOMEL		
COMPLT		SYSFIL	BLKDAT	.FALSE.
CPFRWD		SYSFIL	BLKDAT	.TRUE.

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
CPI4		COMP	BLKDAT	(.70710678,-70710678)
CPS		DIR		
CTC	(1-2)	GEOMEL		
CTHS		DIR		
CVAL	(1-60)	CSYSTEM	BLKDAT	0
CX	(1-10)	CSYSTEM		EQUIVALENCE CVAL
CY	(1-10)	CSYSTEM		
CZ	(1-10)	CSYSTEM		
D	(1-3)	DIR		
DBGPRT		ADEBUG	BLKDAT	.FALSE.
DDC	(1-168)	BNDDCL		
DGTORD		GEODAT	BLKDAT	174.53293E-04
DIK		AMPZIJ		
DIL		AMPZIJ		
DP	(1-2)	THPHUV		
DPR		PIS	BLKDAT	57.2957795
DT	(1-3)	THPHUV		
DTDC	(1-84)	BNDDCL		
DTI	(1-14)	BNDICL		
DTS		BNDSCS		
E	(1-3)	FLDVAL		
EFED	(1-361)	FEDDAT		
EHPH		FUDG		
EHPHI		FUDGI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
EHPHJ		FUDGJ		
EHTH		FUDG		
EHTHI		FUDGI		
EHTHJ		FUDGJ		
EPHT	(1-361)	ESTOR		
EPSR		AMPZIJ	BLKDAT	0.0
ESPH		FUDG		
ESPHI		FUDGI		
ESPHJ		FUDGJ		
ESTH		FUDG		
ESTHI		FUDGI		
ESTHJ		FUDGJ		
ETA		AMPZIJ	BLKDAT	376.72727
ETHT	(1-361)	ESTOR		
EXIT1		AMPZIJ		
EXIT2		AMPZIJ		
EXRT1		AMPZIJ		
EXRT2		AMPZIJ		
EYIT1		AMPZIJ		
EYIT2		AMPZIJ		
EYRT1		AMPZIJ		
EYRT2		AMPZIJ		
EZIT1		AMPZIJ		
EZIT2		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
EZRT1		AMPZIJ		
EZRT2		AMPZIJ		
FACTOR		SOURSF		
FARFLD		FLDVAL		
FJ		AMPZIJ	BLKDAT	(0.0,1.0)
FLOPT	(1-3)	NEAR		
FLTARG	(1-100)	ARGCOM	BLKDAT	0.0
FLTLIT		PARTAB		EQUIVALENCE LITNUM
FLTSYM	(1-100)	SYMSTR	BLKDAT	0.
FNP	(1-84)	FNANG		
FRQGLA		LAST		
FRQMHZ		AMPZIJ		
FX		FLDXYZ		
FY		FLDXYZ		
FZ		FLDXYZ		
GAREA		SEGMNT		
H		FARP		
HAW		FARP		
HFED	(1-361)	FEDDAT		
IANG		DOUBLE		
IAXIS	(1,2,3)	GEODAT	BLKDAT	24,25,26
IBLANK		SCNPAR	BLKDAT	9
IBSCER		BSCERR		
ICALL		ADEBUG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
ICOMMA		SCNPAR	BLKDAT	10
IC01		AMPZIG		
IC02		AMPZIJ		
ICTYPE		FLO/AL		
ICYTAG		GTDDAT	BLKDAT	20002
ID		GT D		
IDCSYS	(1-10)	CSYSTEM	BLKDAT	0
IDD	(1-361)	DOUBLE		
IDFIN	(1-500)	DEFDAT	BLKDAT	0
IDFINS		DEFDAT	BLKDAT	0
IDG	(1-84)	DOUBLE		
IDIG	(1-10)	SCNPAR	BLKDAT	1,2,3,4,5,6,7,8,9,0
IDOLAR		SCNPAR	BLKDAT	7
IDUMMY	(1-9)	ADEBUG		
IECTAG		GTDDAT	BLKDAT	20003
IEH		EHFLD		
IEQUAL		SCNPAR	BLKDAT	8
IERRF		ADEBUG	BLKDAT	0
IGDNLA		LAST		
IGNORE		SCNPAR	BLKDAT	1
IJ		TMI		
ILEFT		SCNPAR	BLKDAT	5
IM		FARP		
IM		SRC		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
IMDCHK		ADEBUG	BLKDAT	0
IMINUS		SCNPAR	BLKDAT	2
INCCHK		SYSFIL		
INDXWB		ADEBUG	BLKDAT	1
INTARG	(1-100)	ARGCOM		EQUIVALENCE FLTARG
INTSYM	(1-100)	SYMSTR	BLKDAT	EQUIVALENCE FLTSYM
INTVAL		SCNPAR		
IOCKPT		SYSFIL	BLKDAT	7
IOFILE	(1)	IOFLES	BLKDAT	-1
	(2)	IOFLES	BLKDAT	-1
	(3)	IOFLES	BLKDAT	-1
	(4-6)	IOFLES	BLKDAT	0
	(7-99)	IOFLES	BLKDAT	-1
IOSCR1		SYSFIL	BLKDAT	1
IOSCR2		SYSFIL	BLKDAT	2
IOSYMB		SYSFIL	BLKDAT	8
IOTASK		SYSFIL	BLKDAT	4
IPASS		ARGCOM		
IPATCH		TMI		
IPER		SCNPAR	BLKDAT	11
IPERF		AMPZIJ		
IPLTAG		STODAT	BLKDAT	20001
IPLUS		SCNPAR	BLKDAT	1
IPSARG		SCNPAR		
IPSDAT		SCNPAR		
IPSLIT		SCNPAR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
IPSLOO		SCNPAR		
IPSTSK		SCNPAR		
IPTBUF		PNTTBL	BLKDAT	1
IPTS		PNTTBL	BLKDAT	0
IPTTBL	(1-400)	PNTTBL	BLKDAT	EQUIVALENCE PTTBLE
IP217		GEODAT	BLKDAT	131072
IRFLC	(1-3)	GEODAT		
IRIGHT		SCNPAR	BLKDAT	6
IRSTRT		ADEBUG		
ISCALE	(1,2,3)	GEODAT	BLKDAT	404,590,205
ISEG		SEGMENT	BLKDAT	0
ISEQ	(1-100)	GEODAT		
ISETTB	(1-5)	INTMAT	BLKDAT	136,127,123,126,124
	(6-10)	INTMAT	BLKDAT	125,143,127,130,141
	(11-15)	INTMAT	BLKDAT	128,129,135,131,132
	(16-20)	INTMAT	BLKDAT	133,134,137,140,138
	(21-25)	INTMAT	BLKDAT	139,0,2,3,4
	(26-30)	INTMAT	BLKDAT	5,6,7,8,9
	(31-35)	INTMAT	BLKDAT	10,11,12,13,14
	(36-40)	INTMAT	BLKDAT	15,16,17,18,19
	(41-45)	INTMAT	BLKDAT	20,21,22,0,18
	(46-50)	INTMAT	BLKDAT	9,4,5,6,7
	(51-55)	INTMAT	BLKDAT	8,9,13,11,12
	(56-60)	INTMAT	BLKDAT	13,18,15,16,17
	(61-65)	INTMAT	BLKDAT	18,19,22,21,22
	(66-70)	INTMAT	BLKDAT	0,0,0,1,1
	(71-75)	INTMAT	BLKDAT	1,1,1,1,0
	(76-80)	INTMAT	BLKDAT	2,2,2,0,3
(81-85)	INTMAT	BLKDAT	3,3,3,4,0	
(86-90)	INTMAT	BLKDAT	5,5,0,0,0	
(91-95)	INTMAT	BLKDAT	2,3,4,5,6	
(96-100)	INTMAT	BLKDAT	7,0,1,2,3	
(101-105)	INTMAT	BLKDAT	0,1,2,3,4	
(106-110)	INTMAT	BLKDAT	1,0,1,2,0	

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
ISGTBL	(1-5500)	SEGMNT	BLKDAT	EQUIVALENCE SEGTBL
ISLASH		SCNPAR	BLKDAT	4
ISOFF		ADEBUG	BLKDAT	0
ISON		ADEBUG	BLKDAT	1
ISRCE		FLDVAL		
ISTAR		SCNPAR	BLKDAT	3
ISUBR		ADEBUG		
ISYMBL	(1-11)	SCNPAR	BLKDAT	+,-,*,/,(),\$,=,
ITAGID	(1-3)	GTDDAT		EQUIVALENCE IPLTAG, ICYTAG, IECTAG
ITASK		ADEBUG		
ITEMP	(1-5500)	TEMP01		EQUIVALENCE TEMP
ITYPDE		GEODAT	BLKDAT	262
ITYPPL		GEODAT	BLKDAT	1036
ITYPPT		GEODAT	BLKDAT	1044
ITYPTG		GEODAT	BLKDAT	1287
IWORDS	(1-20)	ADEBUG	BLKDAT	0
IWRTCK		ADEBUG		
JBIAS1		SEGMNT	BLKDAT	40000
JBIAS2		SEGMNT	BLKDAT	60000
JBIAS3		SEGMNT	BLKDAT	80000
JCBIAS		SEGMNT	BLKDAT	20000
JCO1		AMPZIJ		
JCO2		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
JDIG	(1-10)	SCNPAR	BLKDAT	1,2,3,4,5,6,7,8,9,0
JIX	(1-50)	JUNCOM		
JIZ	(1-50)	JUNCOM		
JOX	(1-50)	JUNCOM		
JOZ	(1-50)	JUNCOM		
KBBAND		PARTAB	BLKDAT	7
KBBITS	(1-15)	PARTAB	BLKDAT	0
KBCPLX		PARTAB	BLKDAT	3
KBDPRE		PARTAB	BLKDAT	4
KBFFLD		PARTAB	BLKDAT	20
KBFULL		PARTAB	BLKDAT	5
KBGEOM		PARTAB	BLKDAT	13
KBINTP		SCNPAR	BLKDAT	1
KBLEFT		PARTAB	BLKDAT	8
KBLOAD		PARTAB	BLKDAT	18
KBLWRT		PARTAB	BLKDAT	10
KBNFLD		PARTAB	BLKDAT	19
KBORDR		PARTAB	BLKDAT	9
KBPVIT		PARTAB	BLKDAT	12
KBREAL		PARTAB	BLKDAT	2
KBSNGL		PARTABL	BLKDAT	0
KBSOLN		PARTAB	BLKDAT	16
KBSRCE		PARTAB	BLKDAT	14
KBSYM		PARTAB	BLKDAT	6

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KBSYMY		PARTAB	BLKDAT	17
KBTEXT		PARTAB	BLKDAT	1
KBUPRT		PARTAB	BLKDAT	11
KBZIMP		PARTAB	BLKDAT	15
KCHKPT		SCNPAR	BLKDAT	2
KINPUT		SCNPAR	BLKDAT	4
KJFLD		INTMAT	BLKDAT	.FALSE.
KJGTD		INTMAT	BLKDAT	.FALSE.
KJINT	(1-18)	INTMAT		
KJMOM		INTMAT	BLKDAT	.TRUE.
KOLAST		PARTAB	BLKDAT	4
KOLBIT		PARTAB	BLKDAT	5
KOLCNT		PARTAB	BLKDAT	4
KOLCOD		PARTAB	BLKDAT	1
KOLCOL		PARTAB	BLKDAT	7
KOLFST		PARTAB	BLKDAT	3
KOLLBL		PARTAB	BLKDAT	1
KOLLNK		PARTAB	BLKDAT	8
KOLLOC		PARTAB	BLKDAT	2
KOLNAM		PARTAB	BLKDAT	1
KOLROW		PARTAB	BLKDAT	6
KOLTIM		PARTAB	BLKDAT	3
KOLTSK		PARTAB	BLKDAT	2
KOLVAL		PARTAB	BLKDAT	2

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KOUTPT		SCNPAR	BLKDAT	5
KRSTRT		SCNPAR	BLKDAT	3
KSYMDF		SCNPAR	BLKDAT	6
KSYMP		AMPZIJ		
KWABS		PARTAB	BLKDAT	22
KWARG	(1-5)	PARTAB	BLKDAT	0,-2,-3,0,0
	(6-10)	PARTAB	BLKDAT	-2,-13,-2,0,-2
	(11-15)	PARTAB	BLKDAT	-2,-66,0,-1,-2
	(16-20)	PARTAB	BLKDAT	-2,-9,-5,-6,-15
	(21-25)	PARTAB	BLKDAT	-14,-2,0,-2,-2
	(26-30)	PARTAB	BLKDAT	-66,-11,-11,-2,-2
	(31-35)	PARTAB	BLKDAT	-2,0,-26,0,0
	(36-40)	PARTAB	BLKDAT	-2,-10,-358,-9,-9
	(41-45)	PARTAB	BLKDAT	-6,-6,0,-3,-6
	(46-50)	PARTAB	BLKDAT	46,-6,-6,-6,-5
	(51-55)	PARTAB	BLKDAT	-3,-5,0,54,55
	(56-60)	PARTAB	BLKDAT	56,57,58,59,-6
	(61-65)	PARTAB	BLKDAT	0,0,63,64,-9
	(66-70)	PARTAB	BLKDAT	-5,67,-6,-6,-5
	(71-75)	PARTAB	BLKDAT	0,-6,-6,0,0
	(76-80)	PARTAB	BLKDAT	76,-9,0,0,0
	(81-85)	PARTAB	BLKDAT	81,82,-5,84,-9
	(86-90)	PARTAB	BLKDAT	-6,-6,-165,0,0
	(91-95)	PARTAB	BLKDAT	-6,-6,-6,-6,0
	(96-100)	PARTAB	BLKDAT	0,-6,-6,0,0
(101-105)	PARTAB	BLKDAT	101,102,103,-5,-5	
(106-110)	PARTAB	BLKDAT	-5,-1,0,0,-6	
(111-115)	PARTAB	BLKDAT	-6,-6,-6,-6,-6	
(116-118)	PARTAB	BLKDAT	-6,117,118	
(119-122)	PARTAB	BLKDAT	0	
(123-127)	PARTAB	BLKDAT	123,124,125,126,127	
(128-132)	PARTAB	BLKDAT	128,129,130,131,132	
(133-137)	PARTAB	BLKDAT	133,134,135,136,137	
(138-143)	PARTAB	BLKDAT	138,139,140,141,142,143	
(144-150)	PARTAB	BLKDAT	-9,0,0,0,0,0	
KWAXIS		PARTAB	BLKDAT	40
KWBAND		PARTAB	BLKDAT	2

PREVIOUS PAGE
IS BLANK

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWBCRE		PARTAB	BLKDAT	119
KWBCSB		PARTAB	BLKDAT	1
KWBNDW		PARTAB	BLKDAT	41
KWC		PARTAB	BLKDAT	42
KWCD		PARTAB	BLKDAT	133
KWCDP		PARTAB	BLKDAT	43
KWCHKP		PARTAB	BLKDAT	4
KWCLPS		PARTAB	BLKDAT	5
KWCNJG		PARTAB	BLKDAT	6
KWCNVG		PARTAB	BLKDAT	17
KWCOND		PARTAB	BLKDAT	104
KWCPNC		PARTAB	BLKDAT	44
KWCPNM		PARTAB	BLKDAT	45
KWCR		PARTAB	BLKDAT	132
KWCS		PARTAB	BLKDAT	141
KWCW		PARTAB	BLKDAT	46
KWCY		PARTAB	BLKDAT	130
KWC1		PARTAB	BLKDAT	47
KWC2		PARTAB	BLKDAT	48
KWD		PARTAB	BLKDAT	49
KWDEBUG		PARTAB	BLKDAT	7
KWDC		PARTAB	BLKDAT	134
KWDM	(1-4)	PARTAB		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWDP		PARTAB	BLKDAT	114
KWOR		PARTAB	BLKDAT	110
KWDT		PARTAB	BLKDAT	112
KWDUMY	(1)	PARTAB		
KWDW		PARTAB	BLKDAT	67
KWDX		PARTAB	BLKDAT	111
KWDY		PARTAB	BLKDAT	113
KWDZ		PARTAB	BLKDAT	115
KWEC		PARTAB	BLKDAT	142
KWECC		PARTAB	BLKDAT	50
KWED		PARTAB	BLKDAT	129
KWEDRV		PARTAB		
KWEI		PARTAB	BLKDAT	140
KWEND		PARTAB	BLKDAT	9
KWEPSR		PARTAB	BLKDAT	105
KWER		PARTAB	BLKDAT	128
KWES		PARTAB	BLKDAT	139
KWESRC		PARTAB	BLKDAT	11
KWEU		PARTAB	BLKDAT	138
KWEXPN		PARTAB		
KWFFLD		PARTAB	BLKDAT	13
KWFLID		PARTAB	BLKDAT	51
KWFMTF	(1-5)	PARTAB	BLKDAT	1,6,0,15,0

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(6-10)	PARTAB	BLKDAT	26,30,35,40,183
	(11-15)	PARTAB	BLKDAT	191,0,202,91,48
	(16-20)	PARTAB	BLKDAT	0,0,0,62,72
	(21-25)	PARTAB	BLKDAT	75,78,0,82,0
	(26-30)	PARTAB	BLKDAT	243,103,107,0,117
	(31-35)	PARTAB	BLKDAT	124,132,137,146,151
	(36-39)	PARTAB	BLKDAT	158,162,166,174
	(40-105)	PARTAB	BLKDAT	0
	(106)	PARTAB	BLKDAT	226
	(107-121)	PARTAB	BLKDAT	0
	(122)	PARTAB	BLKDAT	240
	(123-150)	PARTAB	BLKDAT	0
KWFRQ		PARTAB	BLKDAT	52
KWGDAT		PARTAB		
KWGEOM		PARTAB		
KWGMDT		PARTAB	BLKDAT	14
KWGTD		PARTAB	BLKDAT	136
KWICOD		PARTAB		
KWILP		PARTAB	BLKDAT	99
KWINPT		PARTAB	BLKDAT	145
KWINV		PARTAB	BLKDAT	16
KWIPE		PARTAB	BLKDAT	37
KWIRE		PARTAB	BLKDAT	120
KWIS		PARTAB	BLKDAT	53
KWL		PARTAB		
KWLABL		PARTAB	BLKDAT	20
KWLBW		PARTAB		
KWLGLG		PARTAB	BLKDAT	58
KWLGLN		PARTAB	BLKDAT	57

AD-A137 510

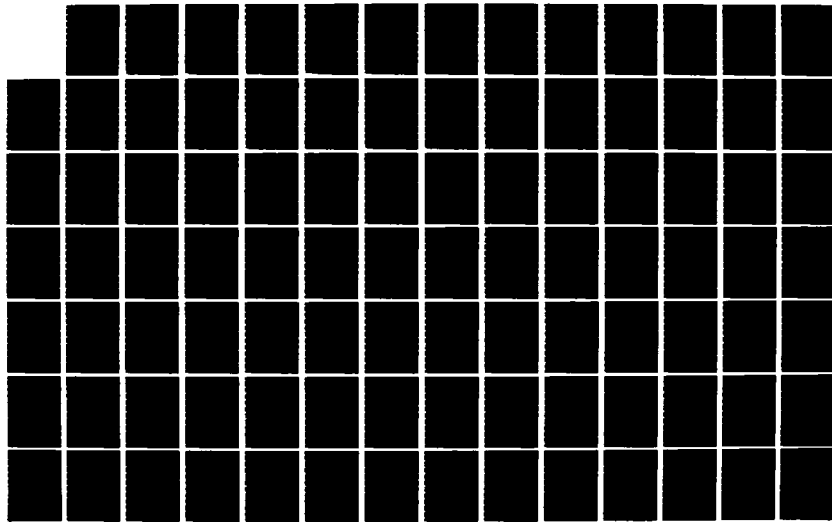
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

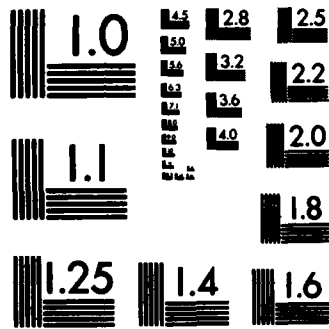
4/5

UNCLASSIFIED

RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWLGPO		PARTAB	BLKDAT	59
KWLMT		PARTAB	BLKDAT	256
KWNLG		PARTAB	BLKDAT	55
KWNLN		PARTAB	BLKDAT	54
KWLNPO		PARTAB	BLKDAT	56
KWLOAD		PARTAB		
KWLOOP		PARTAB	BLKDAT	21
KWLU		PARTAB	BLKDAT	60
KWLUD		PARTAB	BLKDAT	8
KWMAG		PARTAB		
KWMAX		PARTAB	BLKDAT	146
KWMM		PARTAB	BLKDAT	137
KWMODL		PARTAB	BLKDAT	144
KWMRG		PARTAB		
KWMXIT		PARTAB	BLKDAT	19
KWN		PARTAB	BLKDAT	61
KWNAME	(1-5)	PARTAB	BLKDAT	107,73,213,109,110
	(6-10)	PARTAB	BLKDAT	89,92,64,59,195
	(11-15)	PARTAB	BLKDAT	196,114,173,118,197
	(16-20)	PARTAB	BLKDAT	62,111,105,127,95
	(21-25)	PARTAB	BLKDAT	77,198,0,199,97
	(26-30)	PARTAB	BLKDAT	80,99,101,131,132
	(31-35)	PARTAB	BLKDAT	133,194,71,104,136
	(36-40)	PARTAB	BLKDAT	137,138,139,86,200
	(41-45)	PARTAB	BLKDAT	191,4,58,90,91
	(46-50)	PARTAB	BLKDAT	187,49,50,5,169
(51-55)	PARTAB	BLKDAT	116,60,185,121,122	
(56-60)	PARTAB	BLKDAT	123,124,125,126,51	
(61-65)	PARTAB	BLKDAT	15,150,67,52,98	

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(66-70)	PARTAB	BLKDAT	170,201,152,153,19
	(71-75)	PARTAB	BLKDAT	69,53,54,55,82
	(76-80)	PARTAB	BLKDAT	175,70,83,16,84
	(81-85)	PARTAB	BLKDAT	188,202,177,178,85
	(86-90)	PARTAB	BLKDAT	158,159,23,160,25
	(91-95)	PARTAB	BLKDAT	163,164,165,166,148
	(96-100)	PARTAB	BLKDAT	27,167,168,61,203
	(101-105)	PARTAB	BLKDAT	135,100,130,74,75
	(106-110)	PARTAB	BLKDAT	184,140,204,205,206
	(111-115)	PARTAB	BLKDAT	207,208,209,210,211
	(116-120)	PARTAB	BLKDAT	212,214,215,220,221
	(121-127)	PARTAB	BLKDAT	222,223,224,225,226, 227,228
	(128-133)	PARTAB	BLKDAT	229,230,231,232,233, 234
	(134-139)	PARTAB	BLKDAT	235,236,237,238,239, 240
	(140-150)	PARTAB	BLKDAT	241,144,242,243,246, 94,129,4*0
KWNFLD		PARTAB	BLKDAT	23
KWNMFL		PARTAB	BLKDAT	116
KWNP		PARTAB	BLKDAT	62
KWNR		PARTAB	BLKDAT	117
KNOFF		PARTAB	BLKDAT	63
KNON		PARTAB	BLKDAT	64
KNOUPT		PARTAB	BLKDAT	146
KNPART		PARTAB	BLKDAT	25
KNPC		PARTAB	BLKDAT	135
KNPD		PARTAB	BLKDAT	124
KNPDOR		PARTAB	BLKDAT	143
KNPHI		PARTAB	BLKDAT	66
KNPIVT		PARTAB	BLKDAT	65
KNPL		PARTAB	BLKDAT	127

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KMPLOT		PARTAB	BLKDAT	26
KMPLSE		PARTAB	BLKDAT	102
KMPLT		PARTAB		
KWPR		PARTAB	BLKDAT	123
KWPRE		PARTAB	BLKDAT	121
KWPRGE		PARTAB	BLKDAT	28
KWPRLC		PARTAB	BLKDAT	108
KWPRNT		PARTAB	BLKDAT	27
KWPSN		PARTAB	BLKDAT	103
KMPW		PARTAB		
KMP1		PARTAB	BLKDAT	68
KMP2		PARTAB	BLKDAT	69
KMR		PARTAB	BLKDAT	70
KMRC		PARTAB	BLKDAT	131
KMRD		PARTAB	BLKDAT	125
KMRDP		PARTAB	BLKDAT	71
KMRDUC		PARTAB	BLKDAT	29
KMREAD		PARTAB	BLKDAT	15
KMREPL		PARTAB	BLKDAT	31
KMRFLC		PARTAB	BLKDAT	30
KMRITE		PARTAB	BLKDAT	24
KMRR		PARTAB	BLKDAT	126
KMRSTR		PARTAB	BLKDAT	32
KMR1		PARTAB	BLKDAT	72

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWR2		PARTAB	BLKDAT	73
KWSC		PARTAB	BLKDAT	74
KWSCDP		PARTAB	BLKDAT	75
KWSEGS		PARTAB	BLKDAT	76
KWSEQ		PARTAB	BLKDAT	77
KWSET		PARTAB	BLKDAT	33
KWSIZE		PARTAB	BLKDAT	78
KWSMOF		PARTAB	BLKDAT	35
KWSNCS		PARTAB	BLKDAT	101
KWSOLV		PARTAB	BLKDAT	34
KWSR		PARTAB	BLKDAT	79
KWSRDP		PARTAB	BLKDAT	80
KWSRLC		PARTAB	BLKDAT	109
KWSTAT		PARTAB	BLKDAT	118
KWSTNT		PARTAB	BLKDAT	122
KMSW		PARTAB	BLKDAT	81
KWTAG		PARTAB		
KWTAGS		PARTAB	BLKDAT	82
KWTDH		PARTAB	BLKDAT	100
KWTHET		PARTAB	BLKDAT	83
KWTIME		PARTAB	BLKDAT	3
KWTRAC		PARTAB	BLKDAT	84
KWTRAN		PARTAB	BLKDAT	36
KWTYPE		PARTAB	BLKDAT	85

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWT1		PARTAB	BLKDAT	86
KWT2		PARTAB	BLKDAT	87
KWUBW		PARTAB		
KWV		PARTAB	BLKDAT	88
KWVALU		PARTAB	BLKDAT	18
KWVS		PARTAB	BLKDAT	89
KWVSRC		PARTAB	BLKDAT	10
KWUIPE		PARTAB		
KWX		PARTAB	BLKDAT	90
KWXPND		PARTAB	BLKDAT	12
KWX1		PARTAB	BLKDAT	91
KWX2		PARTAB	BLKDAT	92
KWY1		PARTAB	BLKDAT	93
KWY2		PARTAB	BLKDAT	94
KWZ		PARTAB	BLKDAT	96
KWZCDS		PARTAB	BLKDAT	38
KWZCOD		PARTAB		
KWZGEN		PARTAB	BLKDAT	39
KWZIMP		PARTAB	BLKDAT	95
KWZLDS		PARTAB	BLKDAT	106
KWZMAT		PARTAB	BLKDAT	107
KWZ1		PARTAB	BLKDAT	97
KWZ2		PARTAB	BLKDAT	98
LB		ADEBUG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LCALLR		ADEBUG	BLKDAT	0
LCALNM		ADEBUG	BLKDAT	0
LCHAR		SCNPAR		
LCORNR		LOGDIF		
LCYL		LPLCY		
LDC	(1-84)	LDCBY		
LDEBUG		TEST		
LDRC	(1-84)	CLDRC		
LETR	(1-5) (6-10) (11-15) (16-20) (21-26)	SCNPAR SCNPAR SCNPAR SCNPAR SCNPAR	BLKDAT BLKDAT BLKDAT BLKDAT BLKDAT	A,B,C,D,E F,G,H,I,J K,L,M,N,O P,Q,R,S,T U,V,W,X,Y,Z
LFREQFL		SAME		
LGDNFL		SAME		
LGRND		GROUND		
LIHD	(1-196)	LSHDT		
LITNIX		PARTAB	BLKDAT	50
LITNUM	(1-100)	PARTAB	BLKDAT	0
LNRFLD		NEAR		
LOCAII		FLDCOM		
LOCAIR		FLDCOM		
LOCBII		FLDCOM		
LOCBIR		FLDCOM		
LOCCII		FLDCOM		
LOCCIR		FLDCOM		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LOOPMX		PARTAB	BLKDAT	10
LPLA		LPLCY		
LPRAD		OUTPTD		
LRANG		OUTPTD		
LRDC	(1-84)	CLRDC		
LRFC		CLRFC		
LRFI	(1-14)	CLRFI		
LRFS	(1-14)	CLRFS		
LROUTN		ADEBUG	BLKDAT	0
LRTNUM		ADEBUG	BLKDAT	0
LSAVE	(1-5)	ADEBUG		
LSHD	(1-14)	LSHDT		
LSLOPE		LOGDIF		
LSRCFL		SAME		
LSRFC	(1-2)	SRFACC		
LSTAMP		AMPZIJ		
LSTARG		ARGCOM		
LSTASK		SCNPAR	BLKDAT	3
LSTAT		ADEBUG	BLKDAT	0
LSTCOL		SCNPAR	BLKDAT	80
LSTCSY		CSYSTEM	BLKDAT	0
LSTD	(1-14)	LSHDP		
LSTDAT		SCNPAR	BLKDAT	1
LSTDEF		DEFDAT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LSTFNC		SCNPAR	BLKDAT	0
LSTGEO		GEODAT		
LSTINP		SCNPAR	BLKDAT	4
LSTINT		SCNPAR	BLKDAT	2
LSTIOD		ADEBUG	BLKDAT	20
LSTIOF		IOFLES		
LSTMOD		MODULE		
LSTPAR		PARTAB		
LSTPTB		PNTTBL		
LSTS		LSHDP		
LSTSYS	(1-20)	SYSFIL	BLKDAT	0
LSTTMP		TEMPO1		
LSTTPF		SYSFIL	BLKDAT	0
LSURF	(1-14)	SURFAC		
LTEST		TEST		
LTRACE		ADEBUG	BLKDAT	0
LTRF		FUDG		
LTRFI		FUDGI		
LTRFJ		FUDGJ		
LUDEBUG		ADEBUG	BLKDAT	0
LUPRNT		ADEBUG	BLKDAT	6
LUTASK		ADEBUG	BLKDAT	5
L1		FLDVAL		
L2		FLDVAL		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
L3		FLDVAL		
MACHIN		ADEBUG	BLKDAT	6181
MANTSA		ADEBUG	BLKDAT	27
MATCH		SCNPAR		
MAXBLK		SEGMNT		
MAXCDS		SCNPAR	BLKDAT	60
MAXCON		JUNCOM	BLKDAT	50
MAXCSY		CSYSTEM	BLKDAT	10
MAXCYL		GTDDAT	BLKDAT	1
MAXDEF		DEFDAT	BLKDAT	100
MAXECP		GTDDAT	BLKDAT	2
MAXPLT		GTDDAT	BLKDAT	14
MAXPTS		PNTTBL	BLKDAT	100
MAXRAD		SEGMNT	BLKDAT	10
MAXSEG		SEGMNT	BLKDAT	500
MAXSTR		SYMSTR	BLKDAT	100
MEP	(1-14)	GEOPLA		
MMX		PARTAB	BLKDAT	3
MLTJCT		SEGMNT		
MODCHK		SYSFIL	BLKDAT	7
MODLST	(1-10)	MODULE	BLKDAT	0
MODMAX		MODULE	BLKDAT	10
MODNAM		MODULE		
MPH		HITPLT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
MPX		GEOPLA		
MPXR		GROUND		
MXANCT		SCNPAR	BLKDAT	6
MXARGS		ARGCOM	BLKDAT	100
MXARGT		PARTAB	BLKDAT	32
MXCDFG		SCNPAR	BKDAT	0
MXCYAR		GTDDAT	BLKDAT	6
MXDPCT		SCNPAR	BLKDAT	28
MXECAR		GTDDAT	BLKDAT	5
MXEXFP		SCNPAR	BLKDAT	293
MXEXPD		SCNPAR	BLKDAT	293
MXFPCT		SCNPAR	BLKDAT	14
MXINCT		SCNPAR	BLKDAT	18
MXMAT		PARTAB	BLKDAT	6
MXPLAR		GTDDAT	BLKDAT	20
MXSUBS		ADEBUG	BLKDAT	200
MXSYMB		PARTAB	BLKDAT	11
MXMALK		ADEBUG	BLKDAT	28
NAMDEF		DEFDAT	BLKDAT	4380508300
NAMPTS		PNTTBL	BLKDAT	17516467457
NAMRTN	(1) (2-28)	ADEBUG ADEBUG	BLKDAT	BLANK
NAMSEG		SEGMNT	BLKDAT	0
NAMSRC		FLOVAI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NAMTSK	(1-5)	PARTAB	BLKDAT	57,107,190,108,109
	(6-10)	PARTAB	BLKDAT	88,89,92,112,59
	(11-15)	PARTAB	BLKDAT	113,114,94,119,120
	(16-20)	PARTAB	BLKDAT	95,77,96,128,78
	(21-25)	PARTAB	BLKDAT	129,97,80,99,101
	(26-30)	PARTAB	BLKDAT	131,132,133,134,71
	(31-35)	PARTAB	BLKDAT	104,136,137,138,139
	(36-40)	PARTAB	BLKDAT	87,61,117,86,180
	(41-46)	PARTAB	BLKDAT	184,184,173,203,195,196
	(47-100)	PARTAB	BLKDAT	223,53*1
NARG	(1-10)	SCNPAR		
NARGLM		PARTAB		
NARGMX		PARTAB	BLKDAT	1000
NARGN		PARTAB		
NARGS		SCNPAR		
NARGT	(1-10)	SCNPAR		
NARGTB	(1-1000)	PARTAB	BLKDAT	0
NARGTP	(1-10)	PARTAB		
NARITH		SCNPAR	BLKDAT	3
NBLANK		SCNPAR	BLKDAT	6
NBYTES		ADEBUG	BLKDAT	6
NBYTSZ		ADEBUG	BLKDAT	6
NCARD	(1-81)	SCNPAR	BLKDAT	1 BLANK
NCARDS		SCNPART	BLKDAT	0
NCCARD		SCNPAR		
NCCLAS		SCNPAR	BLKDAT	0
NCHAR		SCNPAR	BLKDAT	1 BLANK
NCIX		JUNCOM		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NCIZ		JUNCOM		
NCODE	(1-256)	SCNPAR	BLKDAT	0
NCODES	(1)	PARTAB	BLKDAT	0 /ILLEGAL/
	(2)	PARTAB	BLKDAT	1 /A/
	(3)	PARTAB	BLKDAT	2 /B/
	(4)	PARTAB	BLKDAT	3 /C/
	(5)	PARTAB	BLKDAT	4 /D/
	(6)	PARTAB	BLKDAT	5 /E/
	(7)	PARTAB	BLKDAT	6 /F/
	(8)	PARTAB	BLKDAT	7 /G/
	(9)	PARTAB	BLKDAT	8 /H/
	(10)	PARTAB	BLKDAT	9 /I/
	(11)	PARTAB	BLKDAT	10 /J/
	(12)	PARTAB	BLKDAT	11 /K/
	(13)	PARTAB	BLKDAT	12 /L/
	(14)	PARTAB	BLKDAT	13 /M/
	(15)	PARTAB	BLKDAT	14 /N/
	(16)	PARTAB	BLKDAT	15 /O/
	(17)	PARTAB	BLKDAT	16 /P/
	(18)	PARTAB	BLKDAT	17 /Q/
	(19)	PARTAB	BLKDAT	18 /R/
	(20)	PARTAB	BLKDAT	19 /S/
	(21)	PARTAB	BLKDAT	20 /T/
	(22)	PARTAB	BLKDAT	21 /U/
	(23)	PARTAB	BLKDAT	22 /V/
	(24)	PARTAB	BLKDAT	23 /W/
	(25)	PARTAB	BLKDAT	24 /X/
	(26)	PARTAB	BLKDAT	25 /Y/
	(27)	PARTAB	BLKDAT	26 /Z/
	(28)	PARTAB	BLKDAT	28 /1/
	(29)	PARTAB	BLKDAT	29 /2/
	(30)	PARTAB	BLKDAT	30 /3/
	(31)	PARTAB	BLKDAT	31 /4/
	(32)	PARTAB	BLKDAT	32 /5/
	(33)	PARTAB	BLKDAT	33 /6/
	(34)	PARTAB	BLKDAT	34 /7/
	(35)	PARTAB	BLKDAT	35 /8/
	(36)	PARTAB	BLKDAT	36 /9/
	(37)	PARTAB	BLKDAT	27 /0/
	(38)	PARTAB	BLKDAT	37 /+/
	(39)	PARTAB	BLKDAT	38 /-/
	(40)	PARTAB	BLKDAT	39 /*/
	(41)	PARTAB	BLKDAT	40 ///
	(42)	PARTAB	BLKDAT	41 /(/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(43)		PARTAB	BLKDAT	42 /)/
(44)		PARTAB	BLKDAT	43 /\$/
(45)		PARTAB	BLKDAT	44 /=/
(46)		PARTAB	BLKDAT	45 /" "/
(47)		PARTAB	BLKDAT	46 /" ,"/
(48)		PARTAB	BLKDAT	47 /" ."/
(49)		PARTAB	BLKDAT	220 /C1/
(50)		PARTAB	BLKDAT	221 /C2/
(51)		PARTAB	BLKDAT	789 /LU/
(52)		PARTAB	BLKDAT	974 /ON/
(53)		PARTAB	BLKDAT	1180 /R1/
(54)		PARTAB	BLKDAT	1181 /R2/
(55)		PARTAB	BLKDAT	1219 /SC/
(56)		PARTAB	BLKDAT	1234 /SR/
(57)		PARTAB	BLKDAT	4356 /ADD/
(58)		PARTAB	BLKDAT	12560 /CDP/
(59)		PARTAB	BLKDAT	21380 /END/
(60)		PARTAB	BLKDAT	25745 /FRQ/
(61)		PARTAB	BLKDAT	37648 /ILP/
(62)		PARTAB	BLKDAT	37782 /INV/
(63)		PARTAB	BLKDAT	49303 /LBW/
(64)		PARTAB	BLKDAT	50500 /LUD/
(65)		PARTAB	BLKDAT	53319 /MAG/
(66)		PARTAB	BLKDAT	54407 /MRG/
(67)		PARTAB	BLKDAT	61830 /OFF/
(68)		PARTAB	BLKDAT	66324 /PLT/
(69)		PARTAB	BLKDAT	74000 /RDP/
(70)		PARTAB	BLKDAT	78161 /SEQ/
(71)		PARTAB	BLKDAT	78164 /SET/
(72)		PARTAB	BLKDAT	86167 /UBW/
(73)		PARTAB	BLKDAT	529284 /BAND/
(74)		PARTAB	BLKDAT	848772 /COND/
(75)		PARTAB	BLKDAT	1377490 /EPSR/
(76)		PARTAB	BLKDAT	3207236 /LOAD/
(77)		PARTAB	BLKDAT	3208144 /LOOP/
(78)		PARTAB	BLKDAT	3494676 /MULT/
(79)		PARTAB	BLKDAT	4199572 /PART/
(80)		PARTAB	BLKDAT	4244436 /PLOT/
(81)		PARTAB	BLKDAT	4740108 /REPL/
(82)		PARTAB	BLKDAT	4993296 /SCDP/
(83)		PARTAB	BLKDAT	5019269 /SIZE/
(84)		PARTAB	BLKDAT	5054736 /SRDP/
(85)		PARTAB	BLKDAT	5346309 /TYPE/
(86)		PARTAB	BLKDAT	6844750 /ZGEN/
(87)		PARTAB	BLKDAT	6893908 /ZSET/
(88)		PARTAB	BLKDAT	53544133 /CLPSE/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(89)		PARTAB	BLKDAT	54321799 /CONJG/
(90)		PARTAB	BLKDAT	54563715 /CPINC/
(91)		PARTAB	BLKDAT	54584653 /CPNUM/
(92)		PARTAB	BLKDAT	68429127 /DEBUG/
(93)		PARTAB	BLKDAT	151843077 /ICODE/
(94)		PARTAB	BLKDAT	154731860 /INPUT/
(95)		PARTAB	BLKDAT	201597260 /LABEL/
(96)		PARTAB	BLKDAT	219488709 /MERGE/
(97)		PARTAB	BLKDAT	268772622 /PARTN/
(98)		PARTAB	BLKDAT	270885844 /PIVOT/
(99)		PARTAB	BLKDAT	273191828 /PRINT/
(100)		PARTAB	BLKDAT	273990853 /PULSE/
(101)		PARTAB	BLKDAT	274014661 /PURGE/
(102)		PARTAB	BLKDAT	303318339 /REDUC/
(103)		PARTAB	BLKDAT	303325955 /REFLC/
(104)		PARTAB	BLKDAT	322749829 /SOLVE/
(105)		PARTAB	BLKDAT	369411397 /VALUE/
(106)		PARTAB	BLKDAT	406852484 /XPAND/
(107)		PARTAB	BLKDAT	2165126466 /BACSUB/
(108)		PARTAB	BLKDAT	2302230608 /BINTAP/
(109)		PARTAB	BLKDAT	3358393236 /CHKPNT/
(110)		PARTAB	BLKDAT	3476096197 /COLPSE/
(111)		PARTAB	BLKDAT	3476644999 /CONVRG/
(112)		PARTAB	BLKDAT	4379702096 /DECOMP/
(113)		PARTAB	BLKDAT	5675480084 /ERROPT/
(114)		PARTAB	BLKDAT	5775561604 /EXPAND/
(115)		PARTAB	BLKDAT	5775561619 /EXPANS/
(116)		PARTAB	BLKDAT	6596612676 /FILEID/
(117)		PARTAB	BLKDAT	7604040014 /GEOGEN/
(118)		PARTAB	BLKDAT	7735350529 /GMDATA/
(119)		PARTAB	BLKDAT	9904346260 /INVERT/
(120)		PARTAB	BLKDAT	10003944709 /ITRATE/
(121)		PARTAB	BLKDAT	13039616590 /LINLIN/
(122)		PARTAB	BLKDAT	13039616967 /LINLOG/
(123)		PARTAB	BLKDAT	13039633170 /LINPLR/
(124)		PARTAB	BLKDAT	13138444878 /LOGLIN/
(125)		PARTAB	BLKDAT	13138445255 /LOGLOG/
(126)		PARTAB	BLKDAT	13138461458 /LOGPLR/
(127)		PARTAB	BLKDAT	13981750546 /MAXITR/
(128)		PARTAB	BLKDAT	14079837508 /MGNTUD/
(129)		PARTAB	BLKDAT	16463758676 /OUTPUT/
(130)		PARTAB	BLKDAT	17231589966 /PCESIN/
(131)		PARTAB	BLKDAT	19412373701 /REDUCE/
(132)		PARTAB	BLKDAT	19412861140 /REFLCT/
(133)		PARTAB	BLKDAT	19415482435 /REPLAC/
(134)		PARTAB	BLKDAT	19416302740 /RESTRT/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(135)		PARTAB	BLKDAT	20555772883 /SINCOS/
(136)		PARTAB	BLKDAT	20823949638 /SYMDEF/
(137)		PARTAB	BLKDAT	21777147088 /TRANSP/
(138)		PARTAB	BLKDAT	24851314004 /WIPOUT/
(139)		PARTAB	BLKDAT	27971567955 /ZCODES/
(140)		PARTAB	BLKDAT	28135736472 /ZMATRX/
(141)		PARTAB	BLKDAT	84 /AT/
(142)		PARTAB	BLKDAT	197 /CE/
(143)		PARTAB	BLKDAT	208 /CP/
(144)		PARTAB	BLKDAT	211 /CS/
(145)		PARTAB	BLKDAT	261 /DE/
(146)		PARTAB	BLKDAT	262 /DF/
(147)		PARTAB	BLKDAT	334 /EN/
(148)		PARTAB	BLKDAT	6853456 /ZIMP/
(149)		PARTAB	BLKDAT	848 /MP/
(150)		PARTAB	BLKDAT	912 /NP/
(151)		PARTAB	BLKDAT	1044 /PT/
(152)		PARTAB	BLKDAT	1052 /P1/
(153)		PARTAB	BLKDAT	1053 /P2/
(154)		PARTAB	BLKDAT	1153 /RA/
(155)		PARTAB	BLKDAT	1158 /RF/
(156)		PARTAB	BLKDAT	1166 /RN/
(157)		PARTAB	BLKDAT	1176 /RX/
(158)		PARTAB	BLKDAT	1308 /T1/
(159)		PARTAB	BLKDAT	1309 /T2/
(160)		PARTAB	BLKDAT	1427 /VS/
(161)		PARTAB	BLKDAT	1490 /WR/
(162)		PARTAB	BLKDAT	1548 /XL/
(163)		PARTAB	BLKDAT	1564 /X1/
(164)		PARTAB	BLKDAT	1565 /X2/
(165)		PARTAB	BLKDAT	1628 /Y1/
(166)		PARTAB	BLKDAT	1629 /Y2/
(167)		PARTAB	BLKDAT	1692 /Z1/
(168)		PARTAB	BLKDAT	1693 /Z2/
(169)		PARTAB	BLKDAT	20675 /ECC/
(170)		PARTAB	BLKDAT	66057 /PHI/
(171)		PARTAB	BLKDAT	81991 /TAG/
(172)		PARTAB	BLKDAT	1328278 /EDRV/
(173)		PARTAB	BLKDAT	5471752964 /EFIELD/
(174)		PARTAB	BLKDAT	1177 /RY/
(175)		PARTAB	BLKDAT	5001683 /SEGS/
(176)		PARTAB	BLKDAT	67662798 /DBGON/
(177)		PARTAB	BLKDAT	337663233 /THETA/
(178)		PARTAB	BLKDAT	340267205 /TRACE/
(179)		PARTAB	BLKDAT	4330418566 /DBGOFF/
(180)		PARTAB	BLKDAT	5772186885 /EXCITE/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(181)		PARTAB	BLKDAT	6463972100 /FARFLD/
(182)		PARTAB	BLKDAT	7604027476 /GEODAT/
(183)		PARTAB	BLKDAT	15121015556 /NERFLD/
(184)		PARTAB	BLKDAT	28122550547 /ZLOADS/
(185)		PARTAB	BLKDAT	595 /IS/
(186)		PARTAB	BLKDAT	66964 /PIV/
(187)		PARTAB	BLKDAT	215 /CW/
(188)		PARTAB	BLKDAT	1239 /SW/
(189)		PARTAB	BLKDAT	68690768 /ZMAT/
(190)		PARTAB	BLKDAT	2167947860 /BANDIT/
(191)		PARTAB	BLKDAT	581911 /BNDW/
(192)		PARTAB	BLKDAT	5772186908 /EXCIT1/
(193)		PARTAB	BLKDAT	5772186909 /EXCIT2/
(194)		PARTAB	BLKDAT	19651368084 /RSTART/
(195)		PARTAB	BLKDAT	5846147 /VSRC/
(196)		PARTAB	BLKDAT	1389699 /ESRC/
(197)		PARTAB	BLKDAT	4739140 /READ/
(198)		PARTAB	BLKDAT	4243 /ABS/
(199)		PARTAB	BLKDAT	390632709 /WRITE/
(200)		PARTAB	BLKDAT	361043 /AXIS/
(201)		PARTAB	BLKDAT	279 /DW/
(202)		PARTAB	BLKDAT	5247443 /TAGS/
(203)		PARTAB	BLKDAT	269 /DM/
(204)		PARTAB	BLKDAT	4268803 /PRLC/
(205)		PARTAB	BLKDAT	5055235 /SRLC/
(206)		PARTAB	BLKDAT	274 /DR/
(207)		PARTAB	BLKDAT	280 /DX/
(208)		PARTAB	BLKDAT	276 /DT/
(209)		PARTAB	BLKDAT	281 /DY/
(210)		PARTAB	BLKDAT	272 /DP/
(211)		PARTAB	BLKDAT	282 /DZ/
(212)		PARTAB	BLKDAT	15388140108 /NUMFIL/
(213)		PARTAB	BLKDAT	5280581 /TIME/
(214)		PARTAB	BLKDAT	914 /NR/
(215)		PARTAB	BLKDAT	324015379 /STATS/
(216)		PARTAB	BLKDAT	4798029 /RSYM/
(217)		PARTAB	BLKDAT	4273741 /PSYM/
(218)		PARTAB	BLKDAT	1025 /PA/
(219)		PARTAB	BLKDAT	1178 /RZ/
(220)		PARTAB	BLKDAT	537733 /BCRE/
(221)		PARTAB	BLKDAT	38021 /IRE/
(222)		PARTAB	BLKDAT	66693 /PRE/
(223)		PARTAB	BLKDAT	20490261396 /SETINT/
(224)		PARTAB	BLKDAT	1042 /PR/
(225)		PARTAB	BLKDAT	1028 /PD/
(226)		PARTAB	BLKDAT	1156 /RD/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(227)	PARTAB	BLKDAT	1170 /RR/
	(228)	PARTAB	BLKDAT	1036 /PL/
	(229)	PARTAB	BLKDAT	338 /ER/
	(230)	PARTAB	BLKDAT	324 /ED/
	(231)	PARTAB	BLKDAT	217 /CY/
	(232)	PARTAB	BLKDAT	1155 /RC/
	(233)	PARTAB	BLKDAT	210 /CR/
	(234)	PARTAB	BLKDAT	196 /CD/
	(235)	PARTAB	BLKDAT	259 /DC/
	(236)	PARTAB	BLKDAT	1027 /PC/
	(237)	PARTAB	BLKDAT	29956 /GTD/
	(238)	PARTAB	BLKDAT	845 /MM/
	(239)	PARTAB	BLKDAT	341 /EU/
	(240)	PARTAB	BLKDAT	339 /ES/
	(241)	PARTAB	BLKDAT	329 /EI/
	(242)	PARTAB	BLKDAT	323 /EC/
	(243)	PARTAB	BLKDAT	65810 /PDR/
	(244)	PARTAB	BLKDAT	6644879444 /FLDMAT/
	(245)	PARTAB	BLKDAT	9984545047 /ISHADW/
	(246)	PARTAB	BLKDAT	14211437317 /MODULE/
	(247-250)	PARTAB	BLKDAT	4*0
NCOL		SCNPAR	BLKDAT	1
NCOM		SCNPAR	BLKDAT	1
NCOMCH		SCNPAR	BLKDAT	\$
NCOMMA		SCNPAR	BLKDAT	4
NCON		SCNPAR	BLKDAT	1
NCONCH		SCNPAR	BLKDAT	*
NCON1		SCNPAR	BLKDAT	2
NCOX		JUNCOM		
NCOZ		JUNCOM		
NDATBL	(1-480)	PARTAB	BLKDAT	0
NDATMX		PARTAB	BLKDAT	60
NDEBUF		DEFDAT	BLKDAT	0
NDEBUG		SCNPAR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NDFILE	(1-99)	IOFLES	BLKDAT	0
NDIG		SCNPAR	BLKDAT	0
NDIGIT		SCNPAR	BLKDAT	2
NOTASK		SCNPAR	BLKDAT	10
NDXBLK		SEGMNT		
NENDCD		SCNPAR	BLKDAT	\$
NEOFLG		SCNPAR	BLKDAT	0
NERCL1		INPERR	BLKDAT	1
NERCOD		INPERR	BLKDAT	2
NERCON		INPERR	BLKDAT	3
NERDPN		INPERR	BLKDAT	4
NEREOF		INPERR	BLKDAT	5
NEREXD		INPERR	BLKDAT	6
NEREXF		INPERR	BLKDAT	7
NEREXP		INPERR	BLKDAT	8
NERINT		INPERR	BLKDAT	9
NERNAM		INPERR	BLKDAT	10
NF	(1-10)	SCNPAR		
NFILES		IOFLES	BLKDAT	99
NFINCD		SCNPAR	BLKDAT	0
NFRAC		SCNPAR	BLKDAT	0
NILEGL		INPERR	BLKDAT	11
NINT		SCNPAR	BLKDAT	1
NLETR		SCNPAR	BLKDAT	1

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NLOOPS	(1-400)	PARTAB	BLKDAT	0
NMNAMS	(1-50)	ADEBUG	BLKDAT	0
NMSPTR		ADEBUG	BLKDAT	1
NMTIMS	(1-50)	ADEBUG	BLKDAT	0
NOEND		INPERR	BLKDAT	12
NOGOFG		ADEBUG	BLKDAT	0
NOMTCH		SCNPAR		
NOPCOD		ADEBUG	BLKDAT	-999999
NOSTAT		ADEBUG	BLKDAT	.TRUE.
NOTASK		INPERR	BLKDAT	13
NPAREN		SCNPAR	BLKDAT	5
NPARGL		PARTAB		
NPATCH		SEGMNT	BLKDAT	0
NPDATA		PARTAB		
NPEARG		INPERR	BLKDAT	1
NPEDPC		INPERR	BLKDAT	2
NPEDPL		INPERR	BLKDAT	4
NPEDRM		INPERR	BLKDAT	3
NPEDUM	(1-27)	INPERR		
NPEIFO		INPERR	BLKDAT	21
NPEKWD		INPERR	BLKDAT	18
NPELAB		INPERR	BLKDAT	5
NPELIT		INPERR	BLKDAT	6
NPELNF		INPERR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NPELNL		INPERR	BLKDAT	7
NPELOO		INPERR	BLKDAT	8
NPELOP		INPERR	BLKDAT	9
NPELST		INPERR	BLKDAT	20
NPENOI		INPERR	BLKDAT	10
NPENOM		INPERR	BLKDAT	11
NPENRG		INPERR	BLKDAT	12
NPENTK		INPERR	BLKDAT	13
NPENUM		INPERR	BLKDAT	14
NPERGE		INPERR	BLKDAT	19
NPEROD		SCNPAR	BLKDAT	7
NPESCN		INPERR	BLKDAT	22
NPESEX		INPERR	BLKDAT	15
NPESYM		INPERR	BLKDAT	16
NPETSK		INPERR	BLKDAT	17
NPLITN		PARTAB		
NPLOOP		PARTAB		
NPRDEF		DEFDAT	BLKDAT	5
NPRPT		PNTTBL	BLKDAT	4
NPRSEG		SEGMENT	BLKDAT	11
NPRSER		SCNPAR	BLKDAT	0
NPTASK		PARTAB		
NPTBUF		PNTTBL	BLKDAT	0
NRAD		SEGMENT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NRDCF		SCNPAR		
NRESTF		SCNPAR		
NRNAMS	(1-200)	ADEBUG	BLKDAT	0
NRSUBS		ADEBUG	BLKDAT	190
NRTIMS	(1-200)	ADEBUG	BLKDAT	0
NSCNER		SCNPAR	BLKDAT	0
NSCOL		SCNPAR		
NSEG		FLDCOM		
NSHFTS		ADEBUG	BLKDAT	1000
NTAB		SCNPAR	BLKDAT	1
NTALPH		ADEBUG	BLKDAT	6
NTASK		SCNPAR	BLKDAT	0
NTASKS		PARTAB	BLKDAT	47
NTDM		PARTAB	BLKDAT	44
NTDPF1		ADEBUG	BLKDAT	9
NTDPF2		ADEBUG	BLKDAT	10
NTEMPS		TEMPO1	BLKDAT	5500
NTEND		ADEBUG	BLKDAT	1
NTERR		ADEBUG	BLKDAT	2
NTFLPT		ADEBUG	BLKDAT	8
NTINT		ADEBUG	BLKDAT	7
NTKEYW		ADEBUG	BLKDAT	5
NTPGTD		GTDOAT	BLKDAT	3

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NTSFMT	(1-5)	PARTAB	BLKDAT	4,2,-2,-1,-2
	(6-10)	PARTAB	BLKDAT	4,3,-1,-2,41
	(11-14)	PARTAB	BLKDAT	0
	(15-20)	PARTAB	BLKDAT	4,5,60,44,117,0
	(21-25)	PARTAB	BLKDAT	0,0,0,0,0
	(26-29)	PARTAB	BLKDAT	3,7,-1,-2
	(30-34)	PARTAB	BLKDAT	4,8,21568,16246,-17
	(35-39)	PARTAB	BLKDAT	4,9,-1,-2,65
	(40-41)	PARTAB	BLKDAT	1,10
	(42-47)	PARTAB	BLKDAT	0,0,0,0,0,0
	(48-52)	PARTAB	BLKDAT	9,13,-2,60,51
	(53-57)	PARTAB	BLKDAT	85,72,47,73,48
	(58-61)	PARTAB	BLKDAT	0,0,0,0
	(62-66)	PARTAB	BLKDAT	9,15,-2,-1,-2
	(67-71)	PARTAB	BLKDAT	-2,-1,-6,17,18
	(72-74)	PARTAB	BLKDAT	2,16,-15
	(75-77)	PARTAB	BLKDAT	2,17,-14
	(78-81)	PARTAB	BLKDAT	3,19,-1,-2
	(82-86)	PARTAB	BLKDAT	8,21,-2,60,51
	(87-90)	PARTAB	BLKDAT	72,47,73,48
	(91-95)	PARTAB	BLKDAT	4,38,-1,60,-9
	(96-98)	PARTAB	BLKDAT	0,0,0
	(99-102)	PARTAB	BLKDAT	0
	(103-106)	PARTAB	BLKDAT	2,24,-11,0
	(107-110)	PARTAB	BLKDAT	2,25,-11,0
	(111-115)	PARTAB	BLKDAT	0
	(116-121)	PARTAB	BLKDAT	0
	(122-126)	PARTAB	BLKDAT	0
	(127-131)	PARTAB	BLKDAT	0,0,0,0,0
	(132-136)	PARTAB	BLKDAT	4,29,60,144,45
	(137-142)	PARTAB	BLKDAT	7,30,-16,-165,72,47
	(143-149)	PARTAB	BLKDAT	73,48,0,4,31,-2,-1
	(150-156)	PARTAB	BLKDAT	-2,6,32,-1,85,77,70
	(157-161)	PARTAB	BLKDAT	42,3,33,-1,-2
	(162-165)	PARTAB	BLKDAT	2,34,-10,0
	(166-169)	PARTAB	BLKDAT	2,35,-6,-11
	(170-173)	PARTAB	BLKDAT	0,0,0,0
	(174-178)	PARTAB	BLKDAT	8,39,6645351,14,52
	(179-182)	PARTAB	BLKDAT	104,105,106,107
	(183-187)	PARTAB	BLKDAT	7,45,-1,-2,52
(188-192)	PARTAB	BLKDAT	88,10572,-10,10,46	
(193-197)	PARTAB	BLKDAT	-1,-2,52,442769,-165	
(198-201)	PARTAB	BLKDAT	70,83,66,50	
(202-206)	PARTAB	BLKDAT	23,43,-1,-2,3815483	
(207-211)	PARTAB	BLKDAT	3553081,-9,-5,-9,-5	
(212-216)	PARTAB	BLKDAT	-9,-5,-9,-5,-9	

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(217-221)	PARTAB	BLKDAT	-5,-9,-5,-9,-5
	(222-225)	PARTAB	BLKDAT	-9,-5,-9,-5
	(226-230)	PARTAB	BLKDAT	11,42,-1,14,52
	(231-235)	PARTAB	BLKDAT	27999,26732,-5,-5,-5
	(236-237)	PARTAB	BLKDAT	21068,-10
	(238-239)	PARTAB	BLKDAT	0
	(240-242)	PARTAB	BLKDAT	2,47,-13
	(243-247)	PARTAB	BLKDAT	9,23,-1,3553594,47
	(248-252)	PARTAB	BLKDAT	48,72,73,10572,-10
	(253-300)	PARTAB	BLKDAT	0
NTSKMX		PARTAB	BLKDAT	100
NTSKTB	(1-100)	PARTAB	BLKDAT	0
NTSYMB		ADEBUG	BLKDAT	4
NTTASK		ADEBUG	BLKDAT	3
NU	(1-3)	FLDVAL		
NUMARG		ARGCOM	BLKDAT	0
NUMCHK		SYSFIL	BLKDAT	0
NUMCYL		GTDDAT	BLKDAT	0
NUMECP		GTDDAT	BLKDAT	0
NUMGTD		GTDDAT	BLKDAT	0
NUMPLT		GTDDAT	BLKDAT	0
NUMPTS		PNTTBL	BLKDAT	0
NUMSEG		SEGMNT	BLKDAT	0
NUMWIP		PARTAB	BLKDAT	34
NUMWRD		ADEBUG		
NVAL	(1-256)	SCNPAR	BLKDAT	0
NVALMX		SCNPAR	BLKDAT	256
NWDSIZ		ADEBUG	BLKDAT	36

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NWIRE		SEGMNT	BLKDAT	0
NWLKOV		ADEBUG		
NXTSYM		SYMSTR	BLKDAT	1
NXTTSK		ADEBUG		
NYRSYM		SEGMNT		
PAREA		SEGMNT		
POCR	(1-168)	BNDDCL		
PHSR		DIR		
PHWR	(1-84)	BRNPHW		
PI		PIS	BLKDAT	3.14159265
PRAD		OUTPTD		
PTTBLE	(1-400)	PNTRRL		EQUIVALENCE IPTTBL
PX		AMPZIJ		
PY		AMPZIJ		
RAD	(1-10)	SEGMNT	BLKDAT	0
RANG		OUTPTD		
REFH		AMPZIJ		
REFV		AMPZIJ		
RG		FUDG		
RGII		FUGDI		
RGJ		FUDGJ		
RHK		TMI		
RHO1		FUDG		
RHO1I		FUGDI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
RHO1J		FUDGJ		
RHOX		AMPZIJ		
RHOY		AMPZIJ		
RHOZ		AMPZIJ		
RKB2		TIM		
ROX		CSYSTEM		
ROY		CSYSTEM		
ROZ		CSYSTEM		
RPD		PIS	BLKDAT	0.0174532925
RSTART		SYSFIL	BLKDAT	.FALSE.
RSTRTA		SYSFIL	BLKDAT	.FALSE.
RSUMS	(1-200)	ADEBUG	BLKDAT	0
RTINS	(1-200)	ADEBUG	BLKDAT	0
S		AMPZIJ		
SABI		AMPZIJ		
SABJ		AMPZIJ		
SALPI		AMPZIJ		
SALPJ		AMPZIJ		
SALPR		AMPZIJ		
SAS		GTD		
SASP		GTD		
SCALE		SEGMENT	BLKDAT	1
SCALES	(1,2,3)	GEODAT	BLKDAT	.3048,.0254,100
SEGTBL	(1-5500)	SEGMENT		EQUIVALENCE ISGTBL

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
SIGMA		AMPZIC	BLKDAT	0.0
SMAG		FUDG		
SMAGI		FUDGI		
SMAGJ		FUDGJ		
SNC	(1-2)	GEOMEL		
SNFF		DIST		
SORT		GEODAT		
SP1		SRC		
SP2		SRC		
SPS		DIR		
STHS		DIR		
SYSLST	(1-20)	SYSFIL		EQUIVALENCE LSTSYS
TDCR	(1-168)	BNDCL		
TEMP	(1-5500)	TEMPO1		EQUIVALENCE ITEMP
THSR		DIR		
THTN		CYLIN		
THTP		CYLIN		
TIMTGO		SYSFIL	BLKDAT	-1.
TOP		TOPD	BLKDAT	(-.70710678, .70710678)
TPCEPI		AMPZIJ	BLKDAT	59.958544
TPI		PIS	BLKDAT	6.28318531
TRO	(1-3)	XSTR1		
TRACST		ADEBUG		
TRAN		FUDG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
TRANI		FUDGI		
TRANJ		FUDGJ		
TSUMS	(1-50)	ADEBUG	BLKDAT	0
TTINS	(1-50)	ADEBUG	BLKDAT	0
TWOPI		AMPZIJ	BLKDAT	6.283185
T1XI		AMPZIJ		
T1XJ		AMPZIJ		
T1YI		AMPZIJ		
T1YJ		AMPZIJ		
T1ZI		AMPZIJ		
T1ZJ		AMPZIJ		
T2XI		AMPZIJ		
T2XJ		AMPZIJ		
T2YI		AMPZIJ		
T2YJ		AMPZIJ		
T2ZI		AMPZIJ		
T2ZJ		AMPZIJ		
UCD	(1-84)	BNDRCL		
UDC	(1-2)	BNDCL		
UPDBLK		SEGMNT	BLKDAT	.TRUE.
U1	(1-2)	FLDVAL		
V	(1-252)	GEOPLA		
VAL	(1-256)	SCNPAR	BLKDAT	EQUIVALENCE NVAL
VCD	(1-84)	BNDRCL		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
VDC	(1-84)	BNDCL		
VMAG	(1-84)	EDMAG		
VN	(1-42)	GEOPLA		
VP	(1-252)	GEOPLA		
VTI	(1-28)	BNDICL		
VTS	(1-2)	BNDSCL		
VXI	(1-126)	IMAINF		
VXIC	(1-18)	IMCINF		
VXS	(1-9)	SORINF		
VXSS	(1-9)	XSTR1		
VI	(1-2)	FLDVAL		
WAVLGH		AMPZIJ		
WAVNUM		AMPZIJ		
WL		OUTPTD		
WORDS	(1-20)	ADEBUG		EQUIVALENCE IWORDS
WI	(1-2)	FLDVAL		
X		FLDVAL		
X	(1-252)	GEOPLA		
XCL	(1-3)	ROTRDT		
XI		AMPZIJ		
XI	(1-588)	IMAINF		
XIC	(1-6)	IMCINF		
XPC	(1-3)	PATDAT		
XJ		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
XR	(1-3)	FUDG		
XRI	(1-3)	FUDGI		
XRJ	(1-3)	FUDGJ		
XS	(1-3)	SORINF		
XSS	(1-3)	XSTR1		
XX	(1-252)	PLAIN		
Y		FLDVAL		
YCL	(1-3)	ROTRDT		
YI		AMPZIJ		
YPC	(1-3)	PATDAT		
YJ		AMPZIJ		
Z		FLDVAL		
ZC	(1-2)	GEOMEL		
ZCL	(1-3)	ROTRDT		
ZCN		CYLIN		
ZCP		CYLIN		
ZERO		ADEBUG	BLKDAT	1.E-7
ZI		AMPZIJ		
ZJ		AMPZIJ		
ZPC	(1-3)	PATDAT		
ZPK		TMI		
ZRATI		AMPZIJ		

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE

	ADEBUS	AMP2IJ	ANUN	ARECOM	BINDCL	BINDCL	BINDCL	BINDCL	BINDCL	BRNPHW	BSCERR	CLDRC	CLRDC	CLRFC	CLRFI	CLRFS	COMP	CSYSTH	CYLIN	DEPDAT	DIR	DIST	DOUBLE	EDMAG	ENFLD	ESTOR	FAMP		
GEMACS	•			•																								GEMACS	
BLKDAT	•	•		•												•	•		•										BLKDAT
ASSIGN	•																												ASSIGN
BABS																													BABS
BEXP																	•												BEXP
BLOGIO																													BLOGIO
BTAN2	•																												BTAN2
CAPINT																													CAPINT
CLSFIL	•																												CLSFIL
CNVTST																													CNVTST
CONVRT	•																												CONVRT
CYAXIS	•																•												CYAXIS
CYLINT																													CYLINT
DFPTCL																													DFPTCL
DFPTWD																													DFPTWD
DFRFPT	•			•						•																			DFRFPT
DICOEF																													DICOEF
DIFPLT	•																												DIFPLT
DMPDRV	•			•																									DMPDRV
DPI																													DPI
DPLRCL	•																												DPLRCL
DPLRPL	•																												DPLRPL
DPTNFW																													DPTNFW
DQ632																													DQ632
DW																													DW
DZCOEF																													DZCOEF
ENDIF	•																•												ENDIF
ERROR	•																												ERROR
ESPARM	•																												ESPARM
EXCDRV	•	•																											EXCDRV
FCT																													FCT
FFCT																													FFCT
FKARG																													FKARG
FKY																													FKY
FLDRV	•	•																											FLDRV
FNDREC	•																												FNDREC
FRNELS																													FRNELS
FUNI																													FUNI
GEOM	•																												GEOM
GEOMC																													GEOMC

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	F'DCON	FLOWAL	FLDXYZ	FINANG	FLOGG	FLOGI	FLOGJ	GEODAT	GEONEL	GEOPLA	GROUND	GTD	STDAT	HITPLT	IPAINF	IPCINF	INPERR	INTHAT	IOFILES	JUNKCOM	LAST	LOGBY	LOGDIF	LPLCY	LSHOP	LSHOT	
GEMACS																											GEMACS
BLKDAT								•				•				•	•	•	•								BLKDAT
ASSIGN																											ASSIGN
BABS																											BABS
BEXP																											BEXP
BLOGIO																											BLOGIO
BTAN2																											BTAN2
CAPINT								•																			CAPINT
CLSFIL																			•								CLSFIL
CNVTST																											CNVTST
CONVRT																											CONVRT
CYAXIS																											CYAXIS
CYLINT								•															•				CYLINT
DFPTCL								•																			DFPTCL
DFPTWD								•	•														•				DFPTWD
DFRFT								•	•																		DFRFT
DICOEF																											DICOEF
DIFPLT								•				•											•				DIFPLT
DMPDRV																											DMPDRV
DPI																											DPI
DPLRCL								•	•																		DPLRCL
DPLRPL								•	•														•				DPLRPL
DPTNFW								•																			DPTNFW
DQ632																											DQ632
DW																											DW
DZCOEF																											DZCOEF
ENDIF								•																			ENDIF
ERROR																											ERROR
ESPARM	•						•																				ESPARM
EXCDRV	•						•				•						•										EXCDRV
FCT								•			•																FCT
FFCT																											FFCT
FKARG								•																			FKARG
FRY																											FRY
FLDDRV	•	•					•				•						•										FLDDRV
FNDREC																											FNDREC
FRNELS																											FRNELS
FUN								•																			FUN
GEOM			•					•	•			•	•														GEOM
GEOMC								•						•									•	•			GEOMC

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	MODULE	NEAR	OUTPTD	PARTAD	PATDAT	PIS	PLAIN	PNTTBL	ROTRDT	SAME	SCNPAR	SECHT	SORINF	SOURBF	SRC	SRFACC	SURFAC	SYNSTR	YSYFIL	TEMPDI	TEST	TMPLUV	THI	TOPD	TSPTR	KSTRI	
GEMACS	•		•							•								•	•								GEMACS
BLKDAT	•		•	•		•				•	•						•	•	•					•			BLKDAT
ASSIGN																		•									ASSIGN
BABS																											BABS
BEXP					•																						BEXP
BLOGIO																											BLOGIO
BTAN2					•																						BTAN2
CAPINT																				•							CAPINT
CLSFIL																											CLSFIL
CNVTST																					•						CNVTST
CONVRT			•																								CONVRT
CYAXIS																											CYAXIS
CYLINT					•																•						CYLINT
DFPTCL	•				•						•																DFPTCL
DFPTWD	•																										DFPTWD
DFRFPY					•						•																DFRFPY
DICOEF					•															•			•				DICOEF
DIFPLT	•				•						•				•					•	•						DIFPLT
DMPDRV			•							•									•								DMPDRV
DPI					•															•			•				DPI
DPLRCL	•				•						•									•	•						DPLRCL
DPLRPL	•				•						•				•					•	•						DPLRPL
DPTNFW																											DPTNFW
DQ632																											DQ632
DW																											DW
DZCOEF					•																						DZCOEF
ENDIF	•				•						•									•	•						ENDIF
ERROR																											ERROR
ESPARH			•																					•			ESPARH
EXCDRV			•								•								•								EXCDRV
FCT					•																						FCT
FFCT					•																						FFCT
FKARG					•																						FKARG
FKY					•																						FKY
FLDRV			•								•							•	•								FLDRV
FNDREC			•																								FNDREC
FRNELS					•															•							FRNELS
FUN																											FUN
GEOM					•			•			•	•			•					•							GEOM
GEOMC					•						•	•		•						•							GEOMC

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	AEBUS	AMPZLJ	ANUM	ARCON	BADDCL	BADFLC	BADICL	BADRCL	BADSCCL	BANPHW	BSCERR	CLDRC	CLRDC	CLRFC	CLRFI	CLRFS	COMP	COYSYM	CYLIN	DEFDAT	DIR	DIST	DOUBLE	EDMAG	EMFLD	ESTOR	FAPP	
GEOMPC					•	•	•	•	•														•			•	GEOMPC	
GETARG	•		•																								GETARG	
GETFLD	•																										GETFLD	
GETGEO	•		•																								GETGEO	
GETKWD	•																										GETKWD	
GETKWV	•	•																									GETKWV	
GETSEG	•																										GETSEG	
GETSYM	•																										GETSYM	
GTDRV	•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	GTDRV	
IBITCK	•																										IBITCK	
IMAGE																											IMAGE	
IMCDIR																											IMCDIR	
IMDIR																											IMDIR	
INCFLD	•															•					•						INCFLD	
INTPLT	•	•	•																								INTPLT	
JNCBUM	•	•																									JNCBUM	
LUSTAT																											LUSTAT	
MOVFIL	•																										MOVFIL	
NANDB																											NANDB	
NFD																											NFD	
NTGRAN	•																										NTGRAN	
OPNFIL	•		•																								OPNFIL	
PFUN																											PFUN	
PLAINT																											PLAINT	
POLYRT	•																										POLYRT	
POSTIP	•																										POSTIP	
PRTKJ	•		•																								PRTKJ	
PUTKWV	•	•																									PUTKWV	
PUTSEG	•																										PUTSEG	
PUTSYM	•																										PUTSYM	
QFUN																											QFUN	
RADCV																											RADCV	
RCLDPL	•						•					•										•					RCLDPL	
RCLRPL	•							•						•									•	•			RCLRPL	
RDEFIL	•																										RDEFIL	
REFBP	•																										REFBP	
REFCAP	•																									•	REFCAP	
REFCYL	•							•					•													•	REFCYL	
REFPLA	•																					•		•			REFPLA	

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	FLDCON	FLDYAL	FLDAYZ	FINANS	FUDS	FUDRI	FUDSJ	GEODAT	GEONEL	GEOPLA	GROUND	GTD	GTDAT	HITPLT	IMAINF	INKINF	IMPERR	INTMAT	IOFLES	JUNCON	LAST	LDCBY	LOBDIF	LPLCY	LSDOP	LSDOT	
GEOMPC			•					•	•					•	•						•	•	•	•		GEOMPC	
GETARG																											GETARG
GETFLD	•																										GETFLD
GETGEO							•					•															GETGEO
GETKWD															•												GETKWD
GETKWW																			•								GETKWW
GETSEG							•					•															GETSEG
GETSYM																			•								GETSYM
GTDORV		•	•				•	•	•	•	•	•		•							•	•	•	•	•		GTDORV
IBITCK																											IBITCK
IMAGE									•																		IMAGE
IMCDIR																											IMCDIR
IMDIR									•																		IMDIR
INCFLD																											INCFLD
INTPLT																											INTPLT
JNCSUM																											JNCSUM
LUSTAT																											LUSTAT
MOVFIL																			•								MOVFIL
NANDB								•																			NANDB
NFD																											NFD
NTGRAN																											NTGRAN
OPNFIL																			•								OPNFIL
PFUN																											PFUN
PLAINT									•	•			•										•	•			PLAINT
POLYRT																											POLYRT
POSTIP																•											POSTIP
PRTKJ							•											•									PRTKJ
PUTKWW																				•							PUTKWW
PUTSEG							•					•															PUTSEG
PUTSYM																				•							PUTSYM
QFUN																											QFUN
RADCV								•			•																RADCV
RCLDPL								•	•																		RCLDPL
RCLRPL						•		•	•																		RCLRPL
RDEFIL																				•							RDEFIL
REFBP									•																		REFBP
REFCAP								•							•												REFCAP
REFCYL				•				•																			REFCYL
REFPLA		•							•					•													REFPLA

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	MODULE	NEAR	OUTPUTD	PARTAB	PATDAT	PIS	PLAIN	PMTBL	ROTRDT	SAME	SCMPAR	SEGANT	SORINF	SOURSF	SRC	SRFACC	SURFAC	SYMSTR	SYSEIL	TEMPDI	TEST	TMPNUV	THI	TOPD	TSMPTR	ISTR1	
GEOMPC					•				•			•	•		•	•					•						GEOMPC
GETARG			•																								GETARG
GETFLD																											GETFLD
GETGEO			•								•																GETGEO
GETKWD			•							•																	GETKWD
GETKWV			•							•								•									GETKWV
GETSEG											•																GETSEG
GETSYM			•														•	•									GETSYM
GTDDRV	•	•		•	•	•		•	•		•	•	•	•	•	•				•	•				•		GTDDRV
IBITCK																											IBITCK
IMAGE																											IMAGE
IMCDIR																											IMCDIR
IMDIR																											IMDIR
INCFLD	•				•						•										•	•					INCFLD
INTPLT																											INTPLT
JNCSUM																											JNCSUM
LUSTAT																											LUSTAT
MOVFIL																				•							MOVFIL
NANDB																											NANDB
NFD																											NFD
NTGRAN																							•				NTGRAN
OPNFIL			•															•									OPNFIL
PFUN					•																						PFUN
PLAINT					•																•						PLAINT
POLYRT																											POLYRT
POSTIP			•							•																	POSTIP
PRTKJ			•																								PRTKJ
PUTKWV			•							•								•									PUTKWV
PUTSEG			•								•																PUTSEG
PUTSYM			•														•	•	•								PUTSYM
QFUN					•																						QFUN
RADCV																											RADCV
RCLDPL	•				•						•										•	•					RCLDPL
RCLRPL	•				•						•										•	•					RCLRPL
RDEFIL																		•									RDEFIL
REFBP					•																						REFBP
REFCAP	•				•						•										•						REFCAP
REFCYL	•				•						•										•	•					REFCYL
REFPLA	•				•						•										•						REFPLA

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	ACEBUF	AMPZLU	ANUN	ARECON	BNDDEL	BNDFCL	BNDICL	BNDRCL	BNDSC	BRMPHW	BSCERR	CLARC	CLRDC	CLRF	CLM	CLRFS	COMP	CSYSTH	CYLIN	DEFDAT	DIR	DIST	DOUBLE	EDMAG	ENFLD	ESTOR	FAPP	
RDFIN																											RDFIN	
RDFPT	•					•		•													•						RDFPT	
RFPTCL	•					•		•																			RFPTCL	
ROMBNT	•																										ROMBNT	
ROTATE	•																										ROTATE	
ROTRAN																											ROTRAN	
RPLDPL	•																				•		•				RPLDPL	
RPLRCL	•					•							•								•						RPLRCL	
RPLRPL	•																				•						RPLRPL	
RPLSCL	•					•							•		•						•						RPLSCL	
RWCOMS	•	•		•													•		•								RWCOMS	
RWFILS	•																										RWFILS	
SCLRPL	•							•						•	•					•	•						SCLRPL	
SCTCYL	•							•				•			•					•							SCTCYL	
SEJCON	•	•	•																								SEJCON	
SET	•			•																							SET	
SHELL	•																										SHELL	
SMAGNF																											SMAGNF	
SOURCE	•	•														•											SOURCE	
SOURCP	•	•														•											SOURCP	
STATFN	•																										STATFN	
STATIN	•																										STATIN	
STATOT	•																										STATOT	
STRUP	•	•																									STRUP	
SYMDEF	•			•																							SYMDEF	
SYMUPD	•																										SYMUPD	
SYSCHK	•																										SYSCHK	
SYSRTN	•																										SYSRTN	
TANG	•																										TANG	
TICHEK																											TICHEK	
TPNFLD																											TPNFLD	
TRCEBK	•																										TRCEBK	
TSKXQT	•			•																							TSKXQT	
WLKCK	•																										WLKCK	
WRTCHK	•																										WRTCHK	
WRTFIL	•																										WRTFIL	
XYZFLD																							•				XYZFLD	
ZGDRV	•	•																									ZGDRV	
ZI.DRV	•	•		•																							ZI.DRV	
ZZXDUM	•			•																							ZZXDUM	

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	FLDCON	FLDVAL	FLDXYZ	FINANS	FUDS	FUD61	FUD6J	GEODAT	GEONE1	GEOPLA	GROUND	GTD	GTDAT	HITPLT	IMAINF	IMCINF	INPERP	INTMAT	IOPLES	JUNCON	LAST	LOCBY	LOGDIF	LPLCY	LSNDP	LSHDT		
RDFIN								•																			RDFIN	
RDFPT								•	•																			RDFPT
RFPTCL								•	•	•				•														RFPTCL
ROMBNT																												ROMBNT
ROTATE																												ROTATE
ROTRAN																												ROTRAN
RPLDPL									•					•								•						RPLDPL
RPLRCL					•			•	•					•														RPLRCL
RPLRPL									•					•														RPLRPL
RPLSCL					•			•			•			•														RPLSCL
RWCOMS	•						•					•					•	•	•									RWCOMS
RWFILS																•		•										RWFILS
SCLRPL						•		•	•		•																	SCLRPL
SCTCYL				•				•			•																	SCTCYL
SEJCON							•													•								SEJCON
SET							•										•											SET
SHELL																												SHELL
SMAGNF																												SMAGNF
SOURCE																												SOURCE
SOURCP																												SOURCP
STATFN																												STATFN
STATIN																												STATIN
STATOT																												STATOT
STRTUP																•	•	•										STRTUP
SYMDEF																			•									SYMDEF
SYMUPD																			•									SYMUPD
SYSCHK																												SYSCHK
SYSRTN																												SYSRTN
TANG								•																				TANG
TICHEK																												TICHEK
TPNFLD																												TPNFLD
TRCEBK																												TRCEBK
TSKXQT																	•											TSKXQT
WLKBCK																												WLKBCK
WRTCHK																			•									WRTCHK
WRTFIL																			•									WRTFIL
XYZFLD		•																										XYZFLD
Z6DRV							•														•							Z6DRV
Z1DRV							•				•						•											Z1DRV
ZZXDUM																												ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONCLUDED)

	MODULE	NEAR	OUTPTD	PARTAG	PATDAT	PIS	PLAIN	PNTTBL	ROTRDT	SAKE	SCMPAR	SEGWNT	SORINF	SOURSF	SRC	SRFACC	SURFAC	SYMSTR	SYSFIL	TEMPDI	TEST	THPHUV	TMI	TORD	TSKPTR	XSTRV		
RDFIN																											RDFIN	
RDFPT		•			•								•															RDFPT
RFPTCL					•								•															RFPTCL
ROMBNT																												ROMBNT
ROTATE																												ROTATE
ROTRAN									•													•						ROTRAN
RPLDPL		•			•								•			•					•	•						RPLDPL
RPLRCL		•			•								•								•	•						RPLRCL
RPLRPL		•			•								•								•							RPLRPL
RPLSCL		•			•								•								•							RPLSCL
RWCOMS	•		•							•	•					•	•	•										RWCOMS
RWFILS			•							•	•									•								RWFILS
SCLRPL		•			•								•								•	•						SCLRPL
SCTCYL		•			•								•								•							SCTCYL
SEJCON												•																SEJCON
SET																												SET
SHELL																												SHELL
SMAGNF																												SMAGNF
SOURCE					•									•									•					SOURCE
SOURCP					•									•														SOURCP
STATFN	•																											STATFN
STATIN																												STATIN
STATOT																												STATOT
STRTUP	•		•							•	•											•						STRTUP
SYMDEF				•														•	•	•								SYMDEF
SYMUPD				•																								SYMUPD
SYSCHK																												SYSCHK
SYSRTN																												SYSRTN
TANG					•																							TANG
TICHEK																												TICHEK
TPNFLO																												TPNFLO
TRCEBK																												TRCEBK
TSKXQT			•							•	•														•			TSKXQT
WLKCK																												WLKCK
WRTCHK	•		•									•										•	•					WRTCHK
WRTFIL																												WRTFIL
XYZFLD																												XYZFLD
Z6DRV												•																Z6DRV
Z1DRV				•							•												•	•				Z1DRV
ZZXDUM				•																								ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
INPUT MODULE

	ADEBUG	AMPZIJ	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMINT	SYMSTR	SYSFIL	TEMP01	
GEMACS	•		•			•			•			•	•		•			•	•		GEMACS
BLKDAT	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	BLKDAT
ASSIGN	•																		•		ASSIGN
BUBBLE	•					•	•			•				•		•			•		BUBBLE
CLSFIL	•									•											CLSFIL
CNVGTD	•					•										•					CNVGTD
CONVRT	•												•								CONVRT
COORDS	•		•																		COORDS
CYLNDR	•					•	•								•	•					CYLNDR
DMPDRV	•		•										•		•					•	DMPDRV
EFDGEO	•		•										•		•						EFDGEO
ENDCAP	•					•	•								•	•					ENDCAP
ERROR	•									•									•		ERROR
FABLO2	•														•						FABLO2
FLTPLT	•																				FLTPLT
FNDARG	•							•					•		•						FNDARG
FNDREC	•									•			•								FNDREC
GEODRV	•		•	•	•		•			•			•	•	•	•			•	•	GEODRV
GETARG	•		•										•								GETARG
GETGEO	•		•										•			•					GETGEO
GETKWD	•							•					•		•						GETKWD
GETKWV	•	•								•			•		•				•		GETKWV
GETPNT	•														•						GETPNT
GETSEG	•					•	•									•					GETSEG
GETSYM	•									•			•				•	•			GETSYM
GTDCS	•		•																		GTDCS
IBITCK	•																				IBITCK
INPDRV	•							•					•		•				•		INPDRV
JCTION	•					•								•		•					JCTION
LITSCH	•							•					•		•						LITSCH
LNKGTD	•					•	•									•					LNKGTD
LNKJCT	•					•										•					LNKJCT
LUSTAT																					LUSTAT
MOVFIL	•									•										•	MOVFIL
OPNFIL	•		•							•			•						•		OPNFIL
PAGPLT	•																				PAGPLT
PARSE	•							•					•		•						PARSE
PATCH	•					•							•		•	•					PATCH
PLATE	•					•	•								•	•					PLATE
PLIST	•							•					•		•						PLIST

COMMON BLOCK/SUBROUTINE LOCATION INDEX
INPUT MODULE
(CONCLUDED)

	ADEBUG	AMPZU	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	IMPERR	INTMAT	IOFILES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMENT	SYMSTR	SYSFIL	TEMPOI	
PLTDRV	•		•			•							•			•				•	PLTDRV
PLTSEG	•					•	•									•					PLTSEG
POSTIP	•							•					•		•						POSTIP
POSTPR	•							•					•		•						POSTPR
PREPAR	•							•					•		•						PREPAR
PRESCN	•												•						•		PRESCN
PRTGTD	•					•	•									•					PRTGTD
PUTKWV	•	•								•			•		•				•		PUTKWV
PUTPNT	•					•							•		•						PUTPNT
PUTSEG	•					•	•						•			•					PUTSEG
PUTSYM	•									•			•				•	•	•		PUTSYM
RDEFIL	•									•									•		RDEFIL
REFLCT																					REFLCT
RESTRT	•		•					•		•			•		•	•			•	•	RESTRT
ROTATE	•																				ROTATE
RWCOMS	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•	RWCOMS
RWFILS	•							•		•			•		•	•				•	RWFILS
SCALE2	•																				SCALE2
SCALE3	•																				SCALE3
SCAN	•							•					•		•						SCAN
SHELL	•																				SHELL
STATFN	•											•							•		STATFN
STATIN	•																				STATIN
STATOT	•																				STATOT
SUBPAT	•					•	•			•			•			•			•		SUBPAT
SYMDEF	•		•							•			•				•	•	•		SYMDEF
SYMLIT	•							•					•		•						SYMLIT
SYMSCH	•							•					•		•						SYMSCH
SYMUPD	•									•			•								SYMUPD
SYSCHK	•																		•		SYSCHK
SYSRTN	•																				SYSRTN
TICHEK																					TICHEK
TRCEBK	•																			•	TRCEBK
TRNLAT	•																				TRNLAT
TSKXQT	•		•										•		•	•			•		TSKXQT
WLKBACK	•																			•	WLKBACK
WRTCHK	•									•		•	•			•			•	•	WRTCHK
WRTFIL	•									•									•		WRTFIL
WYRDRV	•		•	•	•	•	•						•	•	•	•					WYRDRV
ZZXDUM	•		•										•								ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
MOM MODULE

	ADEBUG	AMPZIJ	ANUM	ARGCOM	CSYSTM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMNT	SYMSTR	SYSFIL	TEMP01	TMI	
GEMACS	•			•						•	•		•	•		•			•	•			GEMACS
BLKDAT	•	•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•		BLKDAT
ASSIGN	•																			•			ASSIGN
BACSUB	•			•										•									BACSUB
BANDIT	•			•										•							•		BANDIT
BMIRHS	•																						BMIRHS
CABC	•	•	•			•						•					•		•	•			CABC
CLSFIL	•										•												CLSFIL
CNTGND	•	•		•			•							•			•		•				CNTGND
CNVTST																							CNVTST
CONJUG	•																						CONJUG
CONVRT	•													•									CONVRT
DECOMP	•										•									•			DECOMP
DMPDRV	•			•										•		•					•		DMPDRV
EGFMAT	•							•		•				•							•		EGFMAT
ERROR	•										•									•			ERROR
EXCDRV	•	•		•			•	•		•				•			•		•	•			EXCDRV
FABL04	•																						FABL04
FARFLD	•	•				•											•		•	•			FARFLD
FLDDRV	•	•		•			•	•		•				•			•				•		FLDDRV
FNDREC	•										•			•									FNDREC
GETARG	•			•										•									GETARG
GETGEO	•			•			•	•						•			•						GETGEO
GETKWV	•	•								•				•		•			•				GETKWV
GETSEG	•						•	•									•						GETSEG
GETSYM	•									•				•					•	•			GETSYM
GNDREF	•	•																					GNDREF
IBITCK	•																						IBITCK
JNCSUM	•	•																					JNCSUM
LODDRV	•	•		•			•			•				•			•		•	•			LODDRV
LODSYM	•																						LODSYM
LUDDRV	•			•						•				•			•	•	•	•			LUDDRV
LUSTAT																							LUSTAT
MOVFIL	•																				•		MOVFIL
NERFLD	•	•				•											•		•	•			NERFLD
NTGRAN	•																					•	NTGRAN
NTRPLT	•	•	•									•											NTRPLT
NTRPLU	•	•																					NTRPLU
OPNFIL	•			•						•				•					•				OPNFIL
PAGPLT	•																						PAGPLT
PRTKJ	•			•			•			•				•									PRTKJ
PRTSYM	•	•		•										•							•		PRTSYM
PUTKWV	•	•								•				•		•			•	•			PUTKWV

COMMON BLOCK/SUBROUTINE LOCATION INDEX
MOM MODULE
(CONCLUDED)

	ADEBUG	AMPZIJ	ANUM	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMN1	SYMSTR	YSFIL	TEMPDI	TMI	
PUTSEG	•						•	•						•									PUTSEG
PUTSYM	•										•			•					•	•	•		PUTSYM
RDEFIL	•										•									•			RDEFIL
REBLCK	•													•									REBLCK
ROMBNT	•																						ROMBNT
RWCOMS	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	RWCOMS
RWFILS	•		•						•		•			•		•	•			•	•		RWFILS
SCALE2	•																						SCALE2
SCALE3	•																						SCALE3
SEJCON	•	•	•				•				•					•							SEJCON
SET	•		•				•		•														SET
SETDRV	•		•							•				•		•				•	•		SETDRV
SHELL	•																						SHELL
SMATRX	•	•																					SMATRX
SOLDRV	•	•	•				•			•				•		•	•			•	•		SOLDRV
SOLVIC	•																						SOLVIC
SOLVOC	•																						SOLVOC
SPWDRV	•	•					•										•				•		SPWDRV
STATFN	•												•							•			STATFN
STATIN	•																						STATIN
STATOT	•																						STATOT
STRTUP	•	•							•	•	•		•	•		•	•			•			STRTUP
SYMDEF	•		•								•			•					•	•	•		SYMDEF
SYMMOD	•																						SYMMOD
SYMUPD	•										•			•									SYMUPD
SYSCHK	•																				•		SYSCHK
SYSRTN	•																						SYSRTN
TICHEK	•																						TICHEK
TNEFLD	•	•																				•	TNEFLD
TNHFLD	•	•																				•	TNHFLD
TRCEBK	•																				•		TRCEBK
TSKXQT	•		•											•		•	•			•			TSKXQT
UNEFLD	•	•																					UNEFLD
UNHFLD	•	•																					UNHFLD
WLKCK	•																						WLKCK
WRTCHK	•										•		•	•			•			•	•		WRTCHK
WRTFIL	•										•									•			WRTFIL
WYRPAT	•	•																					WYRPAT
ZCDRVR	•		•											•									ZCDRVR
ZIJDRV	•	•	•				•	•		•				•					•	•	•		ZIJDRV
ZIJSET	•	•					•					•							•	•			ZIJSET
ZINT	•																						ZINT
ZZXDUM	•		•											•									ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
OUTPUT MODULE

	ADEBUG	AMPZLI	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INTMAT	INPERR	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMNT	SYMSTR	SYSFIL	TEMPD1	
GEMACS	•		•						•	•		•	•		•			•	•		GEMACS
BLKDAT	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	BLKDAT
ASSIGN	•																	•			ASSIGN
CLSFIL	•									•											CLSFIL
CONVRT	•												•								CONVRT
DMPDRV	•		•										•		•					•	DMPDRV
ERROR	•									•									•		ERROR
FLDDRV	•	•	•		•	•	•	•					•			•				•	FLDDRV
FLDOUT	•					•							•		•					•	FLDOUT
FNDREC	•									•			•								FNDREC
GETARG	•		•										•								GETARG
GETGEO	•		•			•	•						•			•					GETGEO
GETKWV	•	•								•			•		•			•			GETKWV
GETSEG	•					•	•									•					GETSEG
GETSYM	•									•			•				•	•			GETSYM
IBITCK	•																				IBITCK
LUSTAT																					LUSTAT
MOVFIL	•									•										•	MOVFIL
OPNFIL	•		•							•			•						•		OPNFIL
PAGPLT	•																				PAGPLT
PUTKWV	•	•								•			•		•				•		PUTKWV
PUTSYM	•									•			•					•	•	•	PUTSYM
RDEFIL	•									•									•		RDEFIL
RWCOMS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	RWCOMS
RWFILS	•		•						•	•			•		•	•		•	•	•	RWFILS
SCALE2	•																				SCALE2
SCALE3	•																				SCALE3
SET	•		•			•		•													SET
SHELL	•																				SHELL
STATFN	•											•							•		STATFN
STATIN	•																				STATIN
STATOT	•																				STATOT
STRTUP	•	•						•	•	•		•	•		•	•		•			STRTUP
SYMDEF	•		•							•			•				•	•	•		SYMDEF
SYMUPD	•									•			•								SYMUPD
SYSCHK	•																		•		SYSCHK
SYSRTN	•																				SYSRTN
TICHEK																					TICHEK
TRCEBK	•																		•		TRCEBK
TSKXQT	•		•										•		•	•			•		TSKXQT
WLKBCK	•																		•		WLKBCK
WRTCHK	•									•		•	•			•		•	•		WRTCHK
WRTFIL	•									•									•		WRTFIL
ZZXDUM	•		•										•								ZZXDUM

COMDECK ADEBUG

COMMON /ADDEBUG/ ISON, ISOFF, LTRACE
A ,LROUTN, LCALLR, LSTAT, LRTNUM, LCALLNM, NRSUBS, NRNAM(200)
B ,NRTIMS(200), RTIMS(200), RSUMS(200)
C ,NMSPTR, NMNAM(50), NMTIMS(50), TTIMS(50), TSUMS(50)
D ,NAMRTN(28), INDXWB, MXWALK, NWLKV
E ,MXSUBS, NSHFTS, ITASK, NXTTSK, IERRF
F ,ICALL ,ISUBR, NUMWRD, WORDS(20), LSTIOD
G ,LUTASK, LUPRNT, LUDEBUG
H ,NOPCOD, ZERO
I , NTEND, NTERR, NTTASK, NTSYMB, NTKEYW, NTALPH, NTINT
J ,NTFLPT, NTDPF1, NTDPF2
K ,MACHIN, NWDSIZ, NBYTSZ, NBYTES, MANTSA, LB
L ,IRSTRT, IWRCK, IMDCHK, DBGPRN, NOGOFG
R ,NOSTAT, TRACST, IDUMMY(9)

C

DIMENSION IWORDS(20)
EQUIVALENCE (WORDS(1), IWORDS(1))
LOGICAL DBGPRN
LOGICAL NOSTAT
LOGICAL TRACST
DIMENSION LSAVE(5)

<u>SYMBOL</u>	<u>DEFINITION</u>
DBGPRN	Logical flag for printing debug output
ICALL	Debug locator within a subroutine
IDUMMY	Spare locations
IERRF	Integer error flag
IMDCHK	Flag indicating an end-of-module checkpoint is being written
INDXWB	Index to the walk-back table
IRSTRT	Flag for a current restart
ISOFF	Integer = 0
ISON	Integer = 1
ISUBR	Integer defining subroutine and statement of output call
ITASK	Index to the task table

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
IWORDS	Output message storage locations
IWRTCK	Flag to indicate when a checkpoint is being written
LB	Left justified blank field for CDC machines
LCALLR	Called routine name
LCALNM	Called routine number
LROUTN	Calling routine name
LRTNUM	Calling routine number
LSAVE	Storage area for saving statistic information
LSTAT	Status word used in tracing information
LSTION	Maximum number of entries in IWORDS
LTRACE	Trace word = ISON for tracing operation = ISOFF for normal operation
LUDEBUG	Logical unit for debug printout
LUPRNT	Logical unit for printout
LUTASK	Logical unit for reading task
MACHIN	Machine identification
MANTSA	Number of bits in the mantissa of a floating point word
MXSUBS	Size of the NRNAMS array
MXWALK	The size of the walk-back array
NAMRTN	Array of subroutine names for walk-back information
NBYTES	The number of bytes per computer word
NBYTSZ	The number of bits per byte
NNNAMS	Array containing subroutine number

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
NMSPTR	Number of subroutine pointer
NMTIMS	Array containing number of times each subroutine is entered
NOGOFG	Error flag
NOPCOD	A large negative number to indicate nothing in table entry
NOSTAT	Logical .TRUE. when no timing statistics are to be compiled
NRNAMS	Array containing the subroutine names
NRSUBS	The actual number of subroutine names loaded in the NRNAMS array
NRTIMS	Array containing the number of times subroutine is called
NSHFTS	Integer value 1000 used in the output call to pack the call number and the subroutine number in one word
NTALPH	Identifier of an alpha field or character
NTDPF1	Identifier of the first part of a double precision floating point number
NTDPF2	Identifier of the second part of a double precision floating point number
NTEND	Identifier of the end or last field of an input card
NTERR	Identifier of an error condition in a field on an input card
NTFLPT	Identifier of a floating point field
NTINT	Identifier of an integer field
NTKEYW	Identifier of a keyword field
NTSYMB	Identifier of a symbol field

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
NTTASK	Identifier of a task field
NUMWRD	Number of words to be transferred in an output call
NWDSIZ	Number of bits per a computer word
NWLKOV	Not used
NXTTSK	Pointer to the next task in the task table
RSUMS	Accumulate the time in each subroutine
RTINS	The time a subroutine was called
TRACST	Logical .TRUE. when the debug trace is in effect
TSUMS	Unused
TTINS	Total time spent in each subroutine
WORDS	Equivalence to symbol IWORDS for floating point output
ZERO	This is the round off error

COMDECK AMPZIJ

COMMON/ AMPZIJ / S,B,XI,YI,ZI,SABI,CABI,SALPI,XJ,YJ,ZJ,CABJ,SABJ,
A SALPJ,JCO1,JCO2,DIL,DIK,RHOX,RHOY,RHOZ,SALPR,REFV,
B REFH,ZRATI,KSYP,IPERF,SIGMA,EPSR,FRQMHZ,WAVLGH,TWOPI,
C ETA,TPCEPI,CLITE,FJ,PX,PY,ICO1,ICO2,
D T1XI,T1YI,T1ZI,T2XI,T2YI,T2ZI,
E T1XJ,T1YJ,T1ZJ,T2XJ,T2YJ,T2ZJ,AREA,
F EXRT1,EXIT1,EYRT1,EYIT1,EZRT1,EZIT1,
G EXRT2,EXIT2,EYRT2,EYIT2,EZRT2,EZIT2,
Z WAVNUM,LSTAMP
COMPLEX ZRATI,FJ,REFV,REFH

Common AMPZIJ contains data and variables used for generating interaction matrix and field data.

<u>SYMBOL</u>	<u>DEFINITION</u>
AREA	Surface area of a patch
B	Segment radius
CABI	U_x for i^{th} segment
CABJ	U_x for j^{th} segment
CLITE	Speed of light
DIK	δ_{ik}
DIL	δ_{il}
EPSR	Relative permittivity
ETA	Free space impedance
EXIT1, EXRT1 EYIT1, EYRT1 EZIT1, EZRT1	Real and imaginary field components due to current in \hat{t}_1 direction on source patch
EXIT2, EXRT2 EYIT2, EYRT2 EZIT2, EZRT2	Real and imaginary field components due to current in \hat{t}_2 direction on source patch
FJ	j
FRQMHZ	Frequency in megahertz
ICO1	Connection data for end 1 of observation segment

AMPZIJ

<u>SYMBOL</u>	<u>DEFINITION</u>
IC02	Connection data for end 2 of observation segment
IPERF	> 0 implies perfect ground
JC01	Connection data for end 1 of source segment
JC02	Connection data for end 2 of source segment
KSYMP	Image flag
LSTAMP	Last cell of common block AMPZIJ
PX,PY	Components of unit vector perpendicular to plane of incidence in the reflection geometry
REFH	$R_{\perp} - R_{\parallel}$ (Fresnel reflection coefficients)
REFV	R_{\parallel}
RHOX,RHOY,RHOZ	X, Y, Z, components of $\hat{\rho}'$
S	The segment length
SABI	U_Y of the i^{th} segment
SABJ	U_Y of the j^{th} segment
SALPI	U_Z of the i^{th} segment
SALPJ	U_Z of the j^{th} segment
SALPR	Z component of \hat{Z}'
SIGMA	Ground plane conductivity
TPCEPI	$\frac{1}{2\pi\epsilon_0}$
TWOPI	2π
T1XI,T1YI,T1ZI	Components of \hat{t}_1 unit vector for observation patch
T1XJ,T1YJ,T1ZJ	Components of \hat{t}_1 unit vector for source patch
T2XI,T2YI,T2ZI	Components of \hat{t}_2 unit vector of observation patch

AMPZIJ

T2XJ,T2YJ,T2ZJ	Components of $\hat{\epsilon}_2$ unit vector for source patch
WAVLGH	Wavelength
WAVNUM	$2\pi/\text{WAVLGH}$
XI	X coordinate of observation segment
XJ	X coordinate of source segment
YI	Y coordinate of observation segment
YJ	Y coordinate of source segment
ZI	Z coordinate of observation segment
ZJ	Z coordinate of source segment
ZRATI	$\left(\frac{\epsilon_1}{\epsilon_0}\right) \left(1 - \frac{j\sigma}{\omega\epsilon_1}\right)^{-1/2}$

COMDECK ANUM
COMMON/ANUM/ANUML,ANUMK

SYMBOL

DEFINITION

ANUMK

Averaging factor used to compute A,B,C coefficients when there is a multiple junction at end 2 of a wire segment

ANUML

Averaging factor used to compute A,B,C coefficients when there is a multiple junction at end 1 of a wire segment

COMDECK ARGCOM

```
COMMON/ARGCOM/ MXARGS,NUMARG,FLTARG(100),IPASS,LSTARG  
DIMENSION INTARG(100)  
EQUIVALENCE (INTARG(1),FLTARG(1))
```

Common ARGCOM is used as the communication between the task execution processor and the module which executes the task. The argument list and the command language are loaded into the FLTARG array which is equivalent to the INTARG array. This permits floating point and integer values to be loaded in the same array.

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTARG	Value of floating point arguments
INTARG	Value of integer arguments
IPASS	Integer value 1 on first pass, integer value 2 on second pass through task list
LSTARG	Last cell of ARGCOM common
MXARGS	Size of the FLTARG array
NUMARG	Number of arguments of the current task being executed

COMDECK BNDDCL

COMMON /BNDDCL/ VDC(14,6), UDC(2), PDCR(14,6,2), TDCR(14,6,2)
 A ,DTDC(14,6), BTDC(14,6,4), DDC(14,6,2)

<u>SYMBOL</u>	<u>DEFINITION</u>
BTDC	<p>This array contains variables defining the vectors having been diffracted by the corner of edge ME of plate MP furthest from the cylinder which are tangent to the cylinder. The two tangent vectors are given by:</p> $T1 = \hat{X} * BTDC(MP, ME, 1) + \hat{Y} * BTDC(MP, ME, 2)$ $T2 = \hat{X} * BTDC(MP, ME, 3) + \hat{Y} * BTDC(MP, ME, 4)$
DDC	<p>This array contains the cosine of the starting reflected ray theta angle, where</p> $DDC(MP, ME, N) = \cos(TDCR(MP, ME, N))$
DTDC	<p>Dot product of unit vectors or rays diffracted by edge ME of plate MP and reflected by the preferred starting point of the cylinder</p>
PDCR	<p>This array contains angles PDCR(MP, ME, N) defining the phi component of the reflected ray direction of rays diffracted by edge ME of plate MP and then reflected at starting point N on the cylinder</p>
TDCR	<p>This array contains angles TDCR(MP, ME, N) defining the reflected ray theta component of ray directions for rays diffracted by edge ME of plate MP and then reflected at starting reflection point N on the cylinder</p>
UDC	<p>This array contains the linear value UDC(N) defining the z component of the starting reflection points on the cylinder axis. UDC(1) is for the more positive z location and UDC(2) is for the more negative z location</p>
VDC	<p>This array contains the elliptic angle VDC(MP, ME) defining the starting reflection point on the cylinder for a ray diffracted from edge ME of plate MP and then reflected by the cylinder</p>

COMDECK BDNFCL
COMMON /BNDFCL/ BD(14,6,2)

SYMBOL

DEFINITION

BD

This defines permissible theta diffraction angles for wedge diffraction. The permissible range for diffraction angle B_0 for a source ray diffracted by edge ME of plate MP is given by:

$$\cos(B_1) < \cos(B_0) < \cos(B_2)$$

where B_0 is the angle the diffracted ray makes with the edge, and B_1 and B_2 are defined at the corners of the plate as

$$\cos(B_1) = \text{BD}(\text{MP}, \text{ME}, 1)$$

$$\cos(B_2) = \text{BD}(\text{MP}, \text{ME}, 2)$$

COMDECK BNDICL

COMMON /BNDICL/ DTI(14), VTI(14,2), BTI(14,4)

SYMBOL

DEFINITION

BTI

This defines unit vectors of the two rays reflected by plate MP and tangent to the cylinder. The unit vector for the source ray reflected from plate MP tangent to tangent point 1 is given by:

$$T1 = \hat{X} * BTI(MP,1) + \hat{Y} * BTI(MP,2)$$

The unit vector for the source ray reflected plate MP tangent to tangent point 2 is given by:

$$T2 = \hat{X} * BTI(MP,3) + \hat{Y} * BTI(MP,4)$$

DTI

This is the dot product of the two rays reflected by plate MP which are tangent to the cylinder from the source image for reflection from plate MP:

$$DTI(MP) = T1 \cdot T2$$

VTI

This is an array of elliptical angles defining the two tangent points on the cylinder for rays which are reflected from plate MP and tangent to the cylinder. Tangent point N for ray reflected from plate MP is given by:

$$X = A * \cos(VTI(MP,N))$$
$$Y = B * \sin(VTI(MP,N))$$

COMDECK BNRCL

COMMON /BNRCL/ VCD(14,6), UCD(14,6), BCD(14,6,2)

SYMBOL

DEFINITION

BCD

This array contains the value BCD(MP,ME,N) that defines the permissible range of the beta diffraction angles for the ray that is reflected by the cylinder and diffracted by edge ME of plate MP. The permissible range for diffraction angle BO for this ray is given by:

$$\text{COS}(B1) < \text{COS}(BO) < \text{COS}(B2)$$

where BO is the angle the diffracted ray makes with the edge and angles B1 and B2 are defined at the corners of the plate as:

$$\begin{aligned}\text{COS}(B1) &= \text{BCD}(\text{MP}, \text{ME}, 1) \\ \text{COS}(B2) &= \text{BCD}(\text{MP}, \text{ME}, 2)\end{aligned}$$

UCD

This array contains the linear value UCD(MP,MC) that defines the z component of the reflection point for the ray that is reflected by the cylinder and hits corner MC of plate MP. The reflection point location is given by:

$$\begin{aligned}X &= A * \text{COS}(\text{VCD}(\text{MP}, \text{MC})) \\ Y &= B * \text{COS}(\text{VCD}(\text{MP}, \text{MC})) \\ Z &= \text{UCD}(\text{MP}, \text{MC})\end{aligned}$$

VCD

This array contains the elliptic angle VCD(MP,MC) that defines the x,y components of the reflection point location for the ray which is reflected by the cylinder and hits corner MC of plate MP.

COMDECK BNDSCCL
COMMON /BNDSCCL/ DTS, VTS(2), BTS(4)

SYMBOL

DEFINITION

BTS

This defines unit vectors of the two source rays tangent to the cylinder. The unit vector for the source ray tangent to tangent point 1 is given by:

$$T1 = \hat{X} * BTS(1) + \hat{Y} * BTS(2)$$

The unit vector for the source ray tangent to tangent point 2 is given by:

$$T2 = \hat{X} * BTS(3) + \hat{Y} * BTS(4)$$

DTS

This is the dot product of the two source vectors tangent to the cylinder:

$$DTS = T1 \cdot T2$$

VTS

VTS consists of two elliptical angles defining the two tangent points on the cylinder. Tangent point N is given by:

$$X = A * \cos(VTS(N))$$

$$Y = B * \sin(VTS(N))$$

COMDECK BRNPHW
COMMON /BRNPHW/ PHWR(14,6)

SYMBOL

DEFINITION

PHWR

Is the phi angle location of the center of edge
ME of plate MP with respect to the cylinder

COMDECK BSCERR
COMMON /BSCERR/ IBSCER

SYMBOL

DEFINITION

IBSCER

A flag used to indicate if an error occurred in the GTD calculations (0 indicates no error, 1 indicates error occurred)

COMDECK CLDRC
COMMON /CLDRC/ LDRC(14,6)
LOGICAL LDRC

SYMBOL

DEFINITION

LDRC

Is an array of logical variables. LDRC(MP,ME) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on cylinder for a ray which is diffracted from edge ME of plate MP and then reflected by the cylinder

COMDECK CLRDC
COMMON /CLRDC/ LRDC(14,6)
LOGICAL LRDC

SYMBOL

DEFINITION

LRDC

Is an array of logical variables. LRDC(MP,ME) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on cylinder for a ray which is reflected by the cylinder and then diffracted by edge ME of plate MP

COMDECK CLRFC
COMMON /CLRFC/ LRFC
LOGICAL LRFC

SYMBOL

DEFINITION

LRFC

Is a logical variable which is set true if the starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on the cylinder

COMDECK CLRFI
COMMON /CLRFI/ LRFI(14)
LOGICAL LRFI

SYMBOL

DEFINITION

LRFI

Is an array of logical variables. LRFI(MP) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining reflection point on the cylinder for a ray reflected by plate MR and then reflected by the cylinder

COMDECK CLRFS
COMMON /CLRFS/ LRFS(14)
LOGICAL LRFS

SYMBOL

DEFINITION

LRFS

Is an array of logical variables. LRFS(MP) is set true if starting point data are available for the next pattern angle when defining the reflection point on a cylinder for a ray reflected by the cylinder and then reflected by plate MP.

COMDECK COMP
COMMON /COMP/ CJ, CPI4
COMPLEX CJ,CPI4

<u>SYMBOL</u>	<u>DEFINITION</u>
CJ	The imaginary constant, $J (=SQRT(-1))$
CPI4	The complex constant, $CEXP(-J*PI/4)$

COMDECK CYLIN

COMMON /CYLIN/ AA, BB, ZCN, THTN, ZCP, THTP

<u>SYMBOL</u>	<u>DEFINITION</u>
AA	The elliptical cylinder major axis radius in meters
BB	The elliptical cylinder minor axis radius in meters
THTN	The theta angle from the z axis to the end cap normal of the more negative end cap (measured in the x-z plane) in radians
THTP	The theta angle from the z axis to the end cap normal of the more positive end cap (measured in the x-z plane) in radians
ZCN	The distance between the center of the cylinder and the point at which the z axis pierces the more negative end cap in meters
ZCP	The distance between the center of the cylinder and the point at which the z axis pierces the more positive end cap in meters

```

COMDECK CSYSTEM
COMMON/CSYSTEM/MAXCSY, IDCSYS(10), CX(10), CY(10), CZ(10), ROX(10),
1      ROY(10), ROZ(10)
Z ,LSTCSY
DIMENSION CVAL(10,6)
EQUIVALENCE (CVAL(1,1),CX(1))

```

Common CSYSTEM is used in the geometry input processor to store coordinate system information.

<u>SYMBOL</u>	<u>DEFINITION</u>
CVAL	Equivalence to the coordinate system parameter arrays in the common CSYSTEM
CX	Contains the x coordinate of the origin of a coordinate system
CY	Contains the y coordinate of the origin of a coordinate system
CZ	Contains the z coordinate of the origin of a coordinate system
IDCSYS	Contains the coordinate system identification number
LSTCSY	Last value of common CSYSTEM
MAXCSY	Maximum number of coordinate system entries allowed
ROX,ROY,ROZ	X, Y, Z components of \hat{k}

COMDECK DEFDAT
COMMON/DEFDAT/ MAXDEF, NPRDEF, NAMDEF, IDEFIN(100,5), IDFINS, NDEBUF
Z, LSTDEF

Common DEFDAT is used in the geometry processor to store the defined element table.

<u>SYMBOL</u>	<u>DEFINITION</u>
IDEFIN (See NOTE)	Array containing the defined element parameters
IDFINS	Number of defined entries in core
LSTDEF	Last cell of common DEFDAT
MAXDEF	Maximum number of defined elements that can be stored in core
NAMDEF	Not used
NDEBUF	Not used
NPRDEF	Number of parameters needed for each defined element

NOTE:

<u>COLUMN</u>	<u>PARAMETER</u>
1	Name
2	1 st segment number
3	Last segment number
4	1 st point number
5	Last point number

COMDECK DIR
COMMON /DIR/ D(3), THSR, PHSR, SPS, CPS, STHS, CTHS

<u>SYMBOL</u>	<u>DEFINITION</u>
CPS	The cosine of PHSR
CTHS	The cosine of THSR
D	The unit vector of the propagation direction in (xyz) reference coordinate system components: $\hat{D} = \hat{X} * D(1) + \hat{Y} * D(2) + \hat{Z} * D(3)$
PHSR	Phi angle defining propagation direction in spherical reference coordinate system (measured from x axis) in radians
SPS	The sine of PHSR
STHS	The sine of THSR
THSR	Theta angle defining propagation direction in spherical reference coordinate system (measured from z axis) in radians

COMDECK DIST
COMMON / DIST / SNFF

SYMBOL

DEFINITION

SNFF

Distance from the cylinder reflection point image imaged through plate MP to the near-field observation point for a cylinder-reflected, then plate-reflected field

COMDECK DOUBLE
COMMON /DOUBLE/ IDD(361), IDG(14,6), IANG

<u>SYMBOL</u>	<u>DEFINITION</u>
IANG	This integer variable identifies the observation angle under consideration
IDD	This integer identifies which edge the first diffraction occurs from and which plate shadows it for a given pattern angle
IDG	This integer array is used to store the plate that shadows the ray diffracted from edge ME (ID(MP,ME))

COMDECK EDMAG
COMMON /EDMAG/ VMAG(14,6)

SYMBOL

DEFINITION

VMAG

This defines the length of edges on plates in wavelengths. The length of edge ME of plate MP is given by VMAG(MP,ME)

COMDECK EHFLD
COMMON /EHFLD/ IEH

SYMBOL

DEFINITION

IEH

Integer flag to indicate the type of field
wanted (1 for E-field, 0 for H-field)

COMDECK ESTOR
COMMON /ESTOR/ ETHT(361), EPHT(361)
COMPLEX ETHT,EPHT

<u>SYMBOL</u>	<u>DEFINITION</u>
EPHT	This complex array is used to store the total E-phi field
ETHT	This complex array is used to store the total E-theta field

COMDECK FARP
COMMON /FARP/ IM, H, HAW

<u>SYMBOL</u>	<u>DEFINITION</u>
H	The length of the source (in the direction of the source current) in wavelengths
HAW	The aperture width in wavelengths (width of the source) (if HAW is less than 0.1 wavelengths, the code assumes the source to be a line source)
IM	This defines the type of source used: IM=0 specifies electric source IM=1 specifies magnetic source

COMDECK FEDDAT
COMMON /FEDDAT/ EFED(361), HFED(361)
COMPLEX EFED, HFED

<u>SYMBOL</u>	<u>DEFINITION</u>
EFED	This complex array defines the E-plane pattern of the source
HFED	This complex array defines the H-plane pattern of the source


```

COMDECK FINI
  IF(NOSTAT) RETURN
  CALL WLBCK (NAMSUB)
  CALL STATOT (NAMSUB, NUMSUB, LSTAT)
  LROUTN = LSAVE(1)
  LCALLR = LSAVE(2)
  LSTAT = LSAVE(3)
  LRTNUM = LSAVE(4)
  LCALNM = LSAVE(5)
  RETURN

```

Common deck FINI is used to initiate a subroutine exit and restore all subroutine calling information.

<u>SYMBOL</u>	<u>DEFINITION</u>
LCALLR	Last calling routine name
LCALNM	Last calling routine number
LROUTN	Last routine name
LRTNUM	Last routine number
LSAVE	Internal array to restore statistical information
LSTAT	Last location in subroutine where set to before exit
NAMSUB	Current subroutine name
NUMSUB	Current subroutine number

COMDECK FLDCOM

COMMON/ FLDCOM / LOCAIR, LOCAII, LOCBIR, LOCBII, LOCCIR, LOCCII
1 ,NSEG

Common FLDCOM contains the pointers to the A, B, and C matrices in the TEMP array.

SYMBOL

DEFINITION

LOCAII	Location of imaginary parts of A
LOCAIR	Location of real parts of A
LOCBII	Location of imaginary parts of B
LOCBIR	Location of real parts of B
LOCCII	Location of imaginary parts of C
LOCCIR	Location of real parts of C
NSEG	Number of segments

COMDECK FLDVAL
COMMON/FLDVAL/X,Y,Z,ISRCE,E(3),U1(2),V1(2),W1(2),NU(3),ICTYPE,L1,L2,
L3,NAMSRC,FARFLD
COMPLEX E
LOGICAL FARFLD

Common /FLDVAL/ transfers observation point data from FLDDRV to GETFLD
and field excitations from GETFLD to FLDDRV.

<u>SYMBOL</u>	<u>DEFINITION</u>
E	X,Y, and Z components of excitation
FARFLD	Far-field flag
ICTYPE	Coordinate system type
ISRCE	Source type
L1,L2,L3	Loop indices
NAMSRC	Symbolic name of source data set
NU	Order of coordinates
U1	Start and increment of first observation loop
V1	Start and increment of second observation loop
W1	Start and increment of third observation loop
X,Y,Z	Coordinates of observation point

COMDECK FLDXYZ
COMMON /FLDXYZ/ FX, FY, FZ
COMPLEX FX, FY, FZ

<u>SYMBOL</u>	<u>DEFINITION</u>
FX	The x component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system
FY	The y component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system
FZ	The z component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system

COMDECK FNANG
COMMON /FNANG/ FNP(14,6)

SYMBOL

DEFINITION

FNP

Wedge angle of edge ME of plate MP
 $FNP(MP,ME) = (2*PI - WA) / PI$, where WA is the inside
angle of the wedge. It is renamed FN in the
main program before calling diffraction sub-
routines NOTE: If two plates intersect,
diffraction calculation is only calculated once,
even though two different edges are involved.

COMDECK FUDG
COMMON /FUDG/ TRAN, ESTH, ESPH, EHTH, EHPH, XR(3), RG, RH01
A ,SMAG, LTRF
COMPLEX TRAN, ESTH, ESPH, EHTH, EHPH
LOGICAL LTRF

<u>SYMBOL</u>	<u>DEFINITION</u>
EHTH,EHPH	Theta and phi components of hard component of field incident on cylinder reflection point
ESTH,ESPH	Theta and phi components of soft component of field incident on cylinder reflection point
LTRF	Set true if geometrical optics reflected field is not present
RG	Radius of curvature of cylinder at reflection point
RH01	Ray spreading radius in plane of cylinder curvature at reflection point in RCS
SMAG	Distance from source to reflection point
TRAN	The spread factor and phase of the geometrical optics field
XR	X,Y,Z components of the reflection point location in RCS

COMDECK FUDGI

COMMON /FUDGI/ TRANI, ESTHI, ESPHI, EHTHI, EPHI, XRI(3)

A ,RGII, RH0II, SMAGI, LTRFI

COMPLEX TRANI, ESTHI, ESPHI, EHTHI, EPHI

LOGICAL LTRFI

<u>SYMBOL</u>	<u>DEFINITION</u>
EPHI	Phi component of hard component of field incident on cylinder reflection point after plate reflection
EHTHI	Theta component of hard component of field incident on cylinder reflection point after plate reflection
ESPHI	Phi component of soft component of the field incident on the cylinder reflection point after plate reflection
ESTHI	The theta component of the soft component of the field incident on cylinder reflection point after plate reflection
LTRFI	Set true if geometrical optics reflected field is not present.
RGII	Radius of curvature of cylinder at reflection point
RH0II	Ray spreading radius in plane of cylinder curvature at reflection point in RCS
SMAGI	Distance from the source image to the cylinder reflection point
TRANI	The spread factor and phase of the geometrical optics field
XRI	X,Y,Z components of the reflection point location in RCS

COMDECK FUDGJ

COMMON /FUDGJ/ TRANJ, ESTHJ, ESPHJ, EHTHJ, EHPHJ, XRJ(3)
A ,RGJ, RH01J, SMAGJ, LTRFJ
COMPLEX TRANJ, ESTHJ, ESPHJ, EHTHJ, EHPHJ
LOGICAL LTRFJ

SYMBOL

DEFINITION

EHTHJ,EHPHJ	Theta and phi components of hard component of field incident on cylinder reflection point
ESTHJ,ESPHJ	Theta and phi components of soft component of field incident on cylinder reflection point
LTRFJ	Set true if geometrical optics reflected field is not present
RGJ	Radius of curvature of cylinder at reflection point
RH01J	Ray spreading radius in plane of cylinder curvature at reflection point in RCS
SMAGJ	Distance from source to reflection point
TRANJ	The spread factor and phase of the geometrical optics field
XRJ	X,Y,Z components of the reflection point location in RCS

COMDECK GEODAT

```
COMMON/ GEODAT / ITYPPT,ITYPTG,ITYPDE,ITYPPL,IRFLC(3),IAXIS(3),  
SCALES(3),  
1 ISCALE(3), DGTORD, IP217, ISEQ(100), SORT  
Z ,LSTGEO  
LOGICAL SORT
```

Common GEODAT contains various information used in the geometry processor.

<u>SYMBOL</u>	<u>DEFINITION</u>
DGTORD	Parameter to convert from degrees to radians.
IAXIS	Parameter identifying coordinate axis.
IP217	Integer power 2^{17}
IRFLC	Identifier of reflection coordinate axis.
ISCALE	Identifier of the scale parameter on the input command
ISEQ	Array containing the sequence in a renumber command.
ITYPDE	Mnemonic identifying defined elements.
ITYPPL	Mnemonic identifying a plate element
ITYPPT	Mnemonic identifying point element
ITYPTG	Mnemonic identifying tag element
LSTGEO	Last cell of common GEODAT
SCALES	Numerical values of the permissible scales
SORT	Flag set .TRUE. if a bubble sort is to be performed, set due to renumbering or the presence of both wires and patches

COMDECK GEOMEL

COMMON /GEOMEL/ A, B, ZC(2), SNC(2), CNC(2), CTC(2)

SYMBOL

DEFINITION

A	Radius of elliptical cylinder along x axis of the cylinder in wavelengths
B	Radius of elliptical cylinder along y axis of the cylinder in wavelengths
CNC	This is the cosine of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
CTC	This is the cotangent of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
SNC	This is the sine of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
ZC	Point where end cap MC intersects z axis of reference coordinate system. The variable ZC(1) refers to the more positive end cap and ZC(2) refers to the more negative end cap

COMDECK GEOPLA

COMMON /GEOPLA/ X(14,6,3), V(14,6,3), VP(14,6,3), VN(14,3)
 A ,MEP(14), MPX

<u>SYMBOL</u>	<u>DEFINITION</u>
MEP	This integer array defines the number of edges (or corners) on plate MP
MPX	This integer defines the number of plates in the geometry (not including ground plate)
V	This defines the edge unit vector for each edge on each plate. The edge vector V of edge ME on plate MP is as follows: $V=x*V(MP,ME,1)+y*V(MP,ME,2)+z*V(MP,ME,3)$ (NOTE that edge ME is between corners MC and MC+1 where MC=ME)
VN	This defines the unit normal for each plate in (XYZ) reference coordinate system components. The plate unit normal for plate MP is given as follows: $VN=x*VN(MP,1)+y*VN(MP,2)+z*VN(MP,3)$
VP	This defines the unit binormal for each edge on each plate in (XYZ) reference system components. The edge binormal for edge ME of plate MP is as follows: $VP=x*VP(MP,ME,1)+y*VP(MP,ME,2)+z*VP(MP,ME,3)$
X	This array defines corner locations for all of the plates in the (XYZ) reference coordinate system components in wavelengths. The location of corner MC on plate MP is as follows: $x=\hat{x}X(MP,MC,1)+\hat{y}X(MP,MC,2)+\hat{z}X(MP,MC,3)$

COMDECK GROUND
COMMON /GROUND/ LGRND, MPXR
LOGICAL LGRND

<u>SYMBOL</u>	<u>DEFINITION</u>
LGRND	A logical variable used to indicate the presence of an infinite ground plane LGRND=T Indicates ground plane present LGRND=F Indicates ground plane not used
MPXR	The maximum number of plates present (including the ground plane if one is used)

COMDECK GTD
COMMON /GTD/ AS, ID, SAS, SASP, CAS

<u>SYMBOL</u>	<u>DEFINITION</u>
AS	PI minus THSR (THSR is the theta component of the observation direction in reference coordinate system relative to the cylinder axis in radians)
CAS	The cosine of AS
ID	Flag for function FCT
SAS	The sine of AS
SASP	The absolute value of the sine of (AS-PI/2)

COMDECK GTDDAT

COMMON/ GTDDAT / NTPGTD,IPLTAG,ICYTAG,IECTAG,MXPLAR,MXCYAR,
\$MXECAR,NUMPLT,NUMCYL,NUMECP,NUMGTD,MAXPLT,MAXCYL,MAXECP
DIMENSION ITAGID(3)
EQUIVALENCE (IPLTAG,ITAGID(1))

This common contains all information regarding the GTD geometries, except that which is contained in SEGTBL (/SEGMNT/)

<u>SYMBOL</u>	<u>DEFINITION</u>
ICYTAG	Cylinder tag identifier
IECTAG	End cap tag identifier
IPLTAG	Plate tag identifier
ITAGID	Equivalenced to IPLTAG, ICYTAG, and IECTAG
MAXCYL	Maximum number of cylinders allowed
MAXECP	Maximum number of end caps allowed
MAXPLT	Maximum number of plates allowed
MXCYAR	Maximum number of arguments on CY (cylinder) geometry command
MXECAR	Maximum number of arguments on EC (end cap) geometry command
MXPLAR	Maximum number of arguments on PL (plate) geometry command
NTPGTD	Number of different types of GTD geometries
NUMCYL	Number of cylinders in present geometry data set
NUMECP	Number of end caps in present geometry data set
NUMGTD	Total number of GTD entries in geometry data set
NUMPLT	Number of plates in present geometry data set

COMDECK HITPLT
COMMON /HITPLT/ MPH

SYMBOL

DEFINITION

MPH

Used for identifying double diffraction for plates; the number of the plate which the ray hits first.

COMDECK IMAINF
COMMON /IMAINF/ XI(14,14,3), VXI(3,3,14)

SYMBOL

DEFINITION

VXI

This specifies single reflection source image coordinate system axes unit vectors in (XYZ) reference coordinate system components.

The image source coordinate system axes unit vectors for single reflection of source in plate MP are given by:

$$XP=x*VXI(1,1,MP)+y*VXI(1,2,MP)+z*VXI(1,3,MP)$$

$$YP=x*VXI(2,1,MP)+y*VXI(2,2,MP)+z*VXI(2,3,MP)$$

$$ZP=x*VXI(3,1,MP)+y*VXI(3,2,MP)+z*VXI(3,3,MP)$$

XI

This gives the source image locations in wavelengths for all single and double reflections from plates.

The source image location for a ray which is singly reflected from plate MP is given by:

$$X=XI(MP,MP,1)$$

$$Y=XI(MP,MP,2)$$

$$Z=XI(MP,MP,3)$$

The source image location for a doubly reflected ray which reflects off of plate MP and then plate MPP is given by:

$$X=XI(MP,MPP,1)$$

$$Y=XI(MP,MPP,2)$$

$$Z=XI(MP,MPP,3)$$

COMDECK IMCINF
COMMON /IMCINF/ XIC(2,3), VXIC(3,3,2)

SYMBOL

DEFINITION

VXIC

This defines the source image coordinate system axes for reflection from end caps. The source image coordinate system axes unit vectors for a ray reflected from end cap MC are given in the RCS as follows:

$$XP=x*VXIC(1,1,MC)+y*VXIC(1,2,MC)+z*VXIC(1,3,MC)$$

$$YP=x*VXIC(2,1,MC)+y*VXIC(2,2,MC)+z*VXIC(2,3,MC)$$

$$ZP=x*VXIC(3,1,MC)+y*VXIC(3,2,MC)+z*VXIC(3,3,MC)$$

XIC

This gives the source image locations for single reflections from cylinder end caps. The source location for reflection from end cap MC is given in the reference coordinate system as:

$$X=XIC(MC,1)$$

$$Y=XIC(MC,2)$$

$$Z=XIC(MC,3)$$

COMDECK INIT

```
IF(NOSTAT) GO TO 9876
IF(NUMSUB .EQ. 0 ) CALL ASSIGN(NAMSUB,NUMSUB)
LSAVE(1) = LROUTN
LSAVE(2) = LCALLR
LSAVE(3) = LSTAT
LSAVE(4) = LRTNUM
LSAVE(5) = LCALNM
LCALLR = LROUTN
LCALNM = LRTNUM
LROUTN = NAMSUB
LRTNUM = NUMSUB
LSTAT = 0
CALL STATIN(NAMSUB,NUMSUB,LSAVE(1))
CALL WLKBACK (NAMSUB)
```

9876 CONTINUE

Common deck INIT is used to initialize a subroutine entry and save subroutine calling information.

<u>SYMBOL</u>	<u>DEFINITION</u>
LCALLR	Last calling routine name
LCALNM	Last calling routine number
LROUTN	Last routine name
LRTNUM	Last routine number
LSAVE	Internal array to save statistical information
LSTAT	Last position in a subroutine
NAMSUB	Current subroutine name
NUMSUB	Current subroutine

COMDECK INPERR

COMMON /INPERR/ NPEARG, NPEDPC, NPEDRM, NPEDPL, NPELAB, NPELIT,
1 NPELNL, NPELOO, NPELOP, NPENOI, NPENOM, NPENRG, NPENTK, NPENUM,
2 NPESEX, NPESYM, NPETSK, NPEKWD, NPERGE, NPELST, NPEIFO, NPESCN,
3 NERCLI, NERCOD, NERCON, NERDPN, NEREOF, NEREXD, NEREXF,
4 NEREXP, NERINT, NERNAM, NILEGL, NOEND, NOTASK, NPELNF,
5 NPEDUM(27)

Common INPERR is used in the input language processor and contains the input error flags.

<u>SYMBOL</u>	<u>DEFINITION</u>
NERCLI	Flag indicating no letter in column 1 of input card
NERCOD	Flag indicating scan code table is full
NERCON	Flag indicating improper continuation card
NERDPN	Flag indicating error detected by GETDPN (number field too large)
NEREOF	Flag indicating end of file before end of task (continuation expected)
NEREXD	Flag indicating exponent too large for double precision number
NEREXF	Flag indicating exponent too large for floating point number
NEREXP	Flag indicating no exponent found after E or D in number field
NERINT	Flag indicating scan error detected by GETINT (integer too large)
NERNAM	Flag indicating variable name is too long
NILEGL	Flag indicating illegal character detected by GETCHR
NOEND	Flag indicating no end of card character encountered
NOTASK	Flag indicating no legal task name was found
NPEARG	Flag indicating argument table full

INPERR

<u>SYMBOL</u>	<u>DEFINITION</u>
NPEDPC	Flag indicating second half of a double precision number not found in the scan code table
NPEDPL	Flag indicating second half of a double precision number not found in the literal table
NPEDRM	Direct manipulation error
NPEDUM	Unused locations
NPEIFO	Left-over information in scan tables
NPEKWD	Flag indicating keyword expected but not found
NPELAB	Flag indicating unable to parse loop terminator label specification
NPELIT	Flag indicating literal number table is full
NPELNF	Flag indicating loop terminator label not found
NPELNL	Flag indicating table number is not referenced by a loop instruction
NPELOO	Flag indicating loop table is full
NPELOP	Unable to recognize number of times to execute a loop
NPELST	Flag indicating illegal list item encountered
NPENOI	Flag indicating not enough information to fulfill command
NPENOM	Flag indicating no match found in symbol table when match was required
NPENRG	No argument passed to FNDARG
NPENTK	Task name not found
NPENUM	Flag indicating literal, either numeric or alpha, expected but not found
NPERGE	Array index out of range

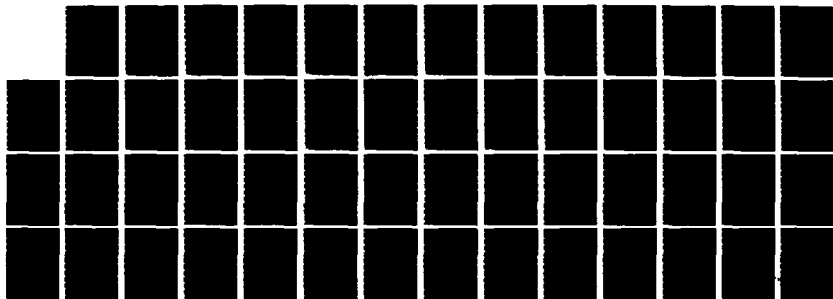
AD-A137 510

GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

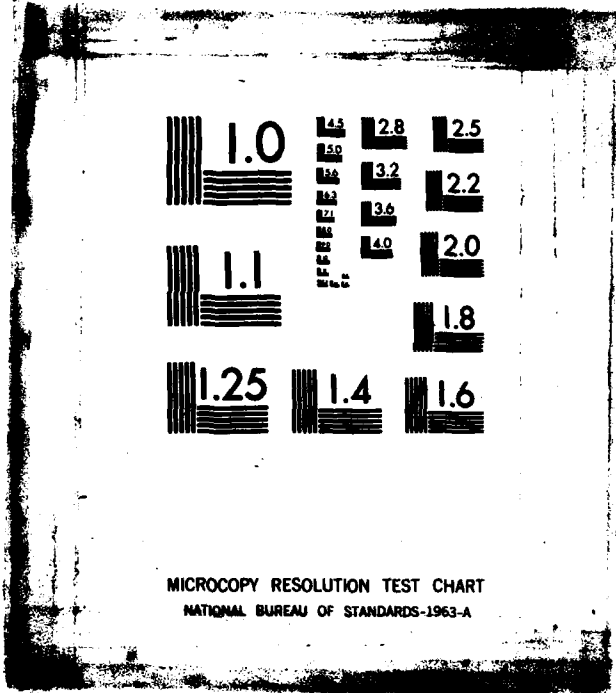
5/5

UNCLASSIFIED

RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14 NL



END
1
FILMED
3
DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

INPERR

SYMBOL

DEFINITION

NPESCN

Flag indicating scan error detected by parse

NPSEX

Flag indicating name already exists in symbol table

NPESYM

Flag indicating name symbol table is full

NPETSK

Flag indicating task table is full

COMDECK INTMAT

**COMMON/INTMAT/KJINT(18),KJGTD,KJMOM,KJFLD,ISETTB(22,5)
LOGICAL KJGTD,KJMOM,KJFLD**

This common contains data on allowable physics interactions and interactions that have been set by the SETINT command.

<u>SYMBOL</u>	<u>DEFINITION</u>
ISETTB	Array of allowable physics interactions: keyword numbers and interaction numbers.
KJFLD	Flag set if any incident field interactions have been set
KJGTD	Flag set if any GTD interactions have been set
KJINT	Array of interactions set by SETINT command
KJMOM	Flag set if any MOM interactions have been set

COMDECK IOFLES
COMMON / IOFLES /NFILES, IOFILE(99),NDFILE(99),LSTIOF

Common IOFLES controls the status and the position of the peripheral files.

<u>SYMBOL</u>	<u>DEFINITION</u>
IOFILE	Array containing the current position pointer for peripheral files.
LSTIOF	Last cell of common IOFLES.
NDFILE	Array containing the total number of words currently on a file.
NFILES	Integer value of the highest number logical unit which may be referenced. It is assumed that logical units 8 through NFILES are available as needed for symbol storage.

COMDECK JUNCOM

**COMMON/JUNCOM/NCOX,JOX(50),NCIX,JIX(50),NCOZ,JOZ(50),NCIZ,JIZ(50)
Z,MAXCON**

Common JUNCOM is used by the interaction matrix generator and contains the junction information for wire gridded models.

<u>SYMBOL</u>	<u>DEFINITION</u>
JIX	Array containing numbers of the segments which have end 1 connected to end 1 of the source segment.
JIZ	Array containing the integer values of the segments which have end 2 connected to end 1 of the source segment.
JOX	Array containing the numbers of the segments which have end 1 connected to end 2 of the source segment.
JOZ	Array containing the identification of the segments which have end 2 connected to end 2 of the source segment.
MAXCON	Integer value of the maximum value of connections allowed on either end of the source segment.
NCIX	Integer value of the number of segments which have end 1 connected to end 1 of the source segment.
NCIZ	Integer value of the number of segments which have end 2 connected to end 1 of the source segment.
NCOX	Integer value of the number of segments which have end 1 connected to end 2 of the source segment.
NCOZ	Integer value of the number of segments which have end 2 connected to end 2 of the source segment.

COMDECK LAST
COMMON /LAST/ FRQGLA, IGDNLA

SYMBOL

DEFINITION

FRQGLA

The previous frequency used in GTD calculations

IGDNLA

The previous geometry data set name used in GTD calculations

COMDECK LDCBY
COMMON /LDCBY/ LDC(14,6)
LOGICAL LDC

SYMBOL

DEFINITION

LDC

Logical variable LDC (MP,ME) is set true if edge ME of plate MP is part of a diffracting wedge used to compute diffracted fields for plate-diffracted, cylinder-reflected ray

COMDECK LOGDIF
COMMON /LOGDIF/ LSLOPE, LCORNR
LOGICAL LSLOPE, LCORNR

<u>SYMBOL</u>	<u>DEFINITION</u>
LCORNR	A logical variable used to indicate if corner diffraction is desired. LCORNR=T indicates corner diffraction desired LCORNR=F indicates corner diffraction not desired
LSLOPE	A logical variable used to indicate if slope diffraction is desired. LSLOPE=T indicates slope diffraction desired LSLOPE=F indicates slope diffraction not desired

COMDECK LPLCY
COMMON /LPLCY/ LPLA, LCYL
LOGICAL LPLA, LCYL

<u>SYMBOL</u>	<u>DEFINITION</u>
LCYL	A logical variable used to indicate the presence of an elliptic cylinder. LCYL=T indicates cylinder present LCYL=F indicates cylinder not present
LPLA	A logical variable used to indicate the presence of at least one plate or infinite ground plate. LPLA=T indicates plates are present LPLA=F indicates plates not present

COMDECK LSHDP
COMMON /LSHDP/ LSTS, LSTD(14)
LOGICAL LSTS, LSTD

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTD	A logical array such that LSTD(ML) is set true if plate ML totally shadows plate MP from the source
LSTS	A logical variable set true if total shadowing algorithm is being used

COMDECK LSHDT
COMMON /LSHDT/ LSHD(14), LIHD(14,14)
LOGICAL LSHD, LIHD

<u>SYMBOL</u>	<u>DEFINITION</u>
LIHD	A logical variable used to indicate if plates MP and MPP cannot illuminate each other. LIHD(MP,MPP)=T indicates plates cannot illuminate each other LIHD(MP,MPP)=F indicates plates can illuminate each other
LSHD	A logical variable used to indicate if plate MP is totally shadowed from the source by any one plate or the cylinder. LSHD(MP)=T indicates plate MP is totally shadowed from direct source rays. LSHD(MP)=F indicates plate MP is not totally shadowed

COMDECK MODULE

COMMON/MODULE/ MODNAM, MODLST(10),LSTMOD,MODMAX

This common block contains the name of the module executing and the names of modules which have previously executed.

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTMOD	Pointer to last entry in MODLST
MODLST	List of modules which have already executed
MODMAX	Maximum length of MODLST
MODNAM	Name of module now executing

COMDECK NEAR
COMMON /NEAR/ LNRFLD, FLDPT(3)

<u>SYMBOL</u>	<u>DEFINITION</u>
FLDPT	The near-field observation point in wavelengths in the reference coordinate system
LNRFLD	A flag to indicate if far-field calculations (LNRFLD=0) were requested or if near-field calculations (LNRFLD=1) were requested

COMDECK OUTPTD

COMMON /OUTPTD/ LPRAD, LRANG, PRAD, RANG, WL
LOGICAL LPRAD, LRANG

<u>SYMBOL</u>	<u>DEFINITION</u>
LPRAD	This logical variable is set true if total power radiated by the sources is specified by the user
LRANG	This logical variable is set true if computed far-zone field values are to include range factor $(\text{CEXP}(-J*R)/R)$
PRAD	Total power radiated (or input power) in watts (specified by the user)
RANG	The distance from the origin to the far-field point in meters
WL	The wavelength in meters

COMDECK PARTAB

COMMON/PARTAB/NTSKTB(100),NARGTB(1000),NDATBL(60,8),
A NLOOPS(100,4), LITNUM(50,2), KWNAME(150), KWARG(150),
B NAMTSK(100), NCODES(250), KWBAND, KWC, KWCDP, KWCLPS,
C KWCNJG, KWCNVG, KWCPNC, KWCPNM, KWC1, KWC2, KWD, KWFLID,
D KWICOD, KWINV, KWLABL, KWLWB, KWLNLN, KWLNLG, KWLNPO, KWLGLN,
E KWLGLG, KWLGP0, KWL0, KWLUD, KWMAG, KWMXIT, KWMRG, KWN, KW0FF,
F KWON, KWPART, KWPIVT, KWPLT, KWR, KWRDP, KWRDUC, KWRFLC,
G KWREPL, KWR1 KWR2, KWSC, KWSCDP, KWSEQ, KWSIZE, KWSR,
H KWSRDP, KWTRAN, KWTYPE, KWUBW, KWVALU, KWXPND, KWGEOM,
I KWZGEN, KWEXPN, KWPLSE, KWSNCS, KWPSN, KWGDAT, KWFRQ,
I KWZMAT, KWLOAD, KWCOND, KWEPSR, KWTRAC, KWIS,
J NTASKS, NUMWIP, NTSKMX, NARGMX, NDATMX, LOOPMX, LITNMX,
K KOLNAM, KOLLOC, KOLFST, KOLAST, KOLBIT, KOLROW, KOLCOL,
L KOLLNK, KOLLBL, KOLTSK, KOLTIM, KOLCNT, KOLCOD, KOLVAL,
M KBSNGL, KBTEXT, KBREAL, KBCPLX, KBDPRE, KBFULL, KBSYM,
N KBBAND, KBLEFT, KBORDR, KBLWRT, KBUPRT, KBPVIT, KBGEOM, KBSRCE,
O KBZIMP, KBSOLN, KBSYMY, KBLOAD, KBNFLD, KBFFLD, KBBITS(15),
P NPTASK, NPARGL, NPDATA, NPLOOP, NPLITN

C

COMMON /PARTAB/ KWL, KWX, KWZ, KWZIMP, KWNP, KWP1,KWP2, KWT1,
1 KWT2, KWVS, KWX1, KWX2, KWy1, KWy2, KWZ1, KWZ2, KWECC, KWPHI,
2 KWTAG, KWEDRV, KWFFLD, KWNFLD, KWSEGS, KWTHET, KWCW, KWSW,
3 KWBNDW, KWMAX, KWBCSB, KWTIME, KWCHKP, KWDEBUG,
4 KWEND, KWVSR, KWESRC, KWGMDT, KWREAD, KWLOOP, KWABS, KWRITE,
5 KWPL0T, KWPRNT, KWPRGE, KWRSTR, KWSET, KWSOLV, KWSMDF, KWWIPE,
6 KWZCOD, KWAXIS, KWPW, KWTAGS, KWV, MKMX, KWDM(4), NTDM, KWLMT,
7 MXARGT, MXMAT, NARGTP(10), NARGN, NARGLM, KWFMTP(150),
8 NTSFMT(300), MXSYMB, KWTD, KWILP,
A KWDP, KWDR, KWDT, KWDW, KWDX, KW0Y, KW0Z, KWIP, KWPRLC, KWSRLC, KWZCDS,
B KWZLDS, KWNMFL, KWNR, KWSTAT, KWBCRE, KWIRE, KWPRE,
C KWSTNT, KWPR, KWPD, KWRD, KWRR, KWPL, KWER, KWED, KW0Y, KWRC,
D KWCR, KWCD, KWDC, KWPC, KWGTD, KWMM, KW0U, KWES, KW0I, KWCS, KWEC, KWPD, R,
Z KWMODL, KWINPT, KWOUTP, KW0UMY(1), LSTPAR

C

DIMENSION FLTLIT(50,2)
EQUIVALENCE(FLTLIT(1,1) , LITNUM(1,1))

Common PARTAB contains the tables used during the parsing of the input commands. It also contains tables which are used extensively throughout the remainder of the program. This is the common which contains the table NCODES which contains the coded integer representations of key words, tasks names, symbols, and letters used in parsing the input language commands.

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTLIT	Array containing floating point literals
KBBAND	Integer value of the bit indicating a banded matrix
KBBITS	Dummy array for future use
KBCPLX	Integer value of the bit which indicates complex number
KBDPRE	Integer value of the bit which indicates double precision number
KBFFLD	Integer value of bit which indicates far field
KBFULL	Integer value of bit which indicates a full array
KBGEOM	Integer value of bit which indicates geometry data
KBLEFT	Integer value of bit which indicates left-justified alpha text
KBLOAD	Integer value of bit which indicates a load
KBLWRT	Integer value of bit which indicates lower triangular matrix
KBNFLD	Integer value of bit which indicates a near field
KBORDR	Integer value of bit which indicates order of matrix elements
KBPVIT	Integer value of bit which indicates a pivot matrix
KBREAL	Integer value of bit which indicates a real arithmetic data
KBSNGL	Integer value of bit which indicates a single item symbol
KBSOLN	Integer value of bit which indicates a solution
KBSRCE	Integer value of bit which indicates a source

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KBSYM	Integer value of bit which indicates a symmetric data set
KBSYMY	Integer value of bit which indicates a symmetric data set about the y axis
KBTEXT	Integer value of bit which indicates a text data set
KBUPRT	Integer value of bit which indicates upper triangular matrix
KBZIMP	Integer value of bit which indicates an interaction matrix
KOLAST	The column of table NDATBL which contains the last address of the data set
KOLBIT	Column of NDATBL which contains the bit set information
KOLCNT	The integer number specifying the column of the loop table which contains the number of times the loop is still to be executed (dynamic counter).
KOLCOD	The number of the column in the literal table which contains the code information
KOLCOL	The number of the column in NDATBL which contains the number of columns of the data set
KOLFST	Column of NDATBL which contains the location of the first word of the data set
KOLLBL	The column of the loop table which contains the label the loop is to terminate on
KOLLNK	The column of the data table which links this data set to previous data sets
KOLLOC	Column in NDATBL containing the logical unit number of the file on which this symbol resides. Logical unit #0 implies core storage
KOLNAM	Column of NDATBL which contains the name of the data set

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KOLROW	Column of NDATBL which contains the number of rows in the data set
KOLTIM	Column of the loop table containing the number of times the loop is to be executed
KOLTSK	Column of the loop table containing the number of the task entry which references this loop
KOLVAL	Column of the literal table which contains the literal value
KWABS	Keyword for the absolute value function
KWARG	Array containing the number of arguments for each keyword
KWAXIS	Keyword for axis parameters
KWBAND	Pointer to the BAND keyword in the NCODES table
KWBCRE	Keyword pointer for BCRE
KWBCSB	Keyword for back substitution (BACSUB)
KWBNDW	Keyword for bandwidth (BNDW)
KWC	Pointer for the C keyword
KWCD	Pointer to NCODES for CD keyword
KWCDP	Pointer for the CDP keyword
KWCHKP	Keyword pointer for CHPNT
KWCLPS	Pointer to the COLAPS keyword
KWCONJG	Pointer to the CONJG keyword
KWCONVG	Pointer to the CONVRG keyword
KWCOND	Pointer to the COND keyword
KWCPNC	Pointer to the CPINC keyword
KWCPNM	Pointer to the CPNUM keyword
KWCR	Pointer to NCODES for CR keyword

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWCS	Pointer to NCODES for CS keyword
KWCW	Keyword pointer for CW
KWCY	Pointer to NCODES for CY keyword
KWC1	Pointer to the C1 keyword
KWC2	Pointer to the C2 keyword
KWD	Pointer to the D keyword
KWDEBUG	Keyword pointer for DEBUG
KWDC	Pointer to NCODES for DC keyword
KWDM	Keyword pointer for DM
KWDP	Keyword pointer for DP
KWDR	Keyword pointer for DR
KWDT	Keyword pointer for DT
KWDUMY	Dummy array for future keyword table expansion
KWDW	Keyword pointer for DW
KWDX	Keyword pointer for DX
KWDY	Keyword pointer for DY
KWDZ	Keyword pointer for DZ
KWEC	Pointer to NCODES for EC keyword
KWECC	Pointer to the ECC keyword
KWED	Pointer to NCODES for ED keyword
KMEDRV	Pointer to the EDRV keyword
KWEI	Pointer to NCODES for EI keyword
KWEND	Keyword pointer for END
KWEPSR	Pointer to the EPSR keyword

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWER	Pointer to NCODES for ER keyword
KWES	Pointer to NCODES for ES keyword
KWESRC	Keyword pointer for ESRC
KWEU	Pointer to NCODES FOR EU keyword
KWEXPN	Keyword pointer for EXPAND
KWFFLD	Keyword pointer for FARFLD
KWFLID	Keyword pointer for file ID
KWFMTF	Array containing pointers to the task format table
KWFRQ	Keyword pointer for FRQ
KWG DAT	Unused
KWGEOM	Unused
KWGMDT	Keyword pointer for GMDATA
KWGTD	Pointer to NCODES for GTD keyword
KWICOD	Keyword pointer for ICODE
KWILP	Keyword pointer for ILP
KWINPT	Pointer to NCODES for INPUT keyword
KWINV	Keyword pointer for INV
KWIPE	Keyword pointer for WIPE
KWIRE	Keyword pointer for IRE
KWIS	Keyword pointer for IS
KWL	Keyword pointer for L
KWLABL	Keyword pointer for LABEL
KWLBW	Keyword pointer for LBW
KWLG LG	Keyword pointer for LOGLOG

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWLGLN	Keyword pointer for LOGLIN
KWLGPO	Keyword pointer for LOGPLR
KWLMT	Maximum number of keywords possible plus one
KWLNLG	Keyword pointer for LINLOG
KWLNLN	Keyword pointer for LINLIN
KWLNPO	Keyword pointer for LINPLR
KWLOAD	Keyword pointer for ZLOADS
KWLOOP	Keyword pointer for LOOP
KWLU	Keyword pointer for LU
KWLUD	Keyword pointer for LUD
KWMAG	Keyword pointer for MAG
KWMAX	Current number of keywords
KWMM	Pointer to NCODES for MM keyword
KWMODL	Pointer to NCODES for MODULE keyword
KWMRG	Keyword pointer for MERGE
KWEXIT	Keyword pointer for MAXITR
KWN	Keyword pointer for N
KWNAME	Array containing keyword pointers to the NCODES array
KWNFLD	Keyword pointer to NERFLD
KWNFIL	Keyword pointer for NUMFIL
KWNP	Keyword pointer for NP
KWNR	Keyword pointer for NR
KWOFF	Keyword pointer for OFF
KWON	Keyword pointer for ON

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWOUTP	Pointer to NCODES for OUTPUT keyword
KWPART	Keyword pointer for PARTN
KWPC	Pointer to NCODES for PC keyword
KWPD	Pointer to NCODES for PD keyword
KWPDR	Pointer to NCODES for PDR keyword
KWPHI	Keyword pointer for PHI
KWPIVT	Keyword pointer for PIVOT
KWPL	Pointer to NCODES for PL keyword
KWPLOT	Keyword pointer for PLOT
KMPLSE	Keyword pointer for PULSE
KMPLT	Keyword pointer for PLT
KMPR	Pointer to NCODES for PR keyword
KMPRE	Keyword pointer for PRE
KMPRGE	Keyword pointer for PURGE
KMPRLC	Keyword pointer for PRLC
KMPRNT	Keyword pointer for PRINT
KMPSN	Keyword pointer for PSN
KMPW	Not Used
KMP1	Keyword pointer for P1
KMP2	Keyword pointer for P2
KMR	Keyword pointer for R
KMRC	Pointer to NCODES for RC keyword
KMRD	Pointer to NCODES for RD keyword
KMRDP	Keyword pointer for RDP

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWRDUC	Keyword pointer for REDUCE
KWREAD	Keyword pointer for READ
KWREPL	Keyword pointer for REPLAC
KWRFLC	Keyword pointer for REFLCT
KWRITE	Keyword pointer for WRITE
KWRR	Pointer to NCODES for RR keyword
KWRSTR	Keyword pointer for RESTRT
KWR1	Keyword pointer for R1
KWR2	Keyword pointer for R2
KWSC	Keyword pointer for SC
KWSCDP	Keyword pointer for SCDP
KWSEGS	Keyword pointer for SEGS
KWSEQ	Keyword pointer for SEQ
KWSET	Keyword pointer for SET
KWSIZE	Keyword pointer for SIZE
KWSMDF	Keyword pointer for SYMDEF
KWSNCS	Keyword pointer for SINCOS
KWSOLV	Keyword pointer for SOLVE
KMSR	Keyword pointer for SR
KMSRDP	Keyword pointer for SRDP
KMSRLC	Keyword pointer for SRLC
KMSTAT	Keyword pointer for STATS
KMSTNT	Keyword pointer for SETINT
KMSW	Keyword pointer for SW
KMTAG	Keyword pointer for TAG

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWTAGS	Keyword pointer for TAGS
KWTDM	Keyword pointer for DM (direct manipulation)
KWTHET	Keyword pointer for THETA
KWTIME	Keyword pointer for TIME
KWTRAC	Keyword pointer for TRACE
KWTRAN	Keyword pointer for TRANSP
KWTYPE	Keyword pointer for TYPE
KWT1	Keyword pointer for T1
KWT2	Keyword pointer for T2
KWUBW	Keyword pointer for UBW
KWV	Keyword pointer for V
KWVALU	Keyword pointer for VALUE
KWVS	Keyword pointer for VS
KWVSRC	Keyword pointer for VSRC
KWPIPE	Not used
KWX	Keyword pointer for X
KWXPND	Keyword pointer for EXPAND
KWX1	Keyword pointer for X1
KWX2	Keyword pointer for X2
KWY1	Keyword pointer for Y1
KWY2	Keyword pointer for Y2
KWZ	Keyword pointer for Z
KWZCDS	Keyword pointer for ZCODES
KWZCOD	Not used

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWZGEN	Keyword pointer for ZGEN
KWZIMP	Keyword pointer for ZIMP
KWZLDS	Keyword pointer for ZLOADS
KWZMAT	Keyword pointer for ZMATRX
KWZ1	Keyword pointer for Z1
KWZ2	Keyword pointer for Z2
LITNMX	Maximum number of literal table entries
LITNUM	Equivalence to FLTLIT, used to store integer literals
LOOPMX	Maximum number of loop table entries
LSTPAR	Last cell of common PARTAB
MKMX	Maximum number of keywords that can be packed in one word
MXARGT	Maximum number of argument types plus one
MXMAT	Maximum number of argument types that can be packed into a word
MXSYMB	Maximum number of operators
NAMTSK	Task name pointers to NCODES table
NARGLM	Number of arguments to scan for
NARGMX	Maximum number of argument table entries
NARGN	Number of operators
NARGTB	Table containing the command language arguments and tasks
NARGTP	Array containing unpacked argument types
NCODES	Table containing the encoded keywords, task names, and all other symbols or symbolic names used in the program

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
NDATBL	Storage area for symbols and data sets
NDATMX	Maximum number of entries in NDATBL
NLOOPS	Table containing the loop information
NPARGL	Pointer to the PARSE argument list table
NPDATA	Pointer to the NDATBL array
NPLITN	Pointer to the LITNUM array
NPLOOP	Pointer to the NLOOPS array
NPTASK	Pointer to the TASK array
NTASKS	Number of currently implemented tasks
NTDM	Task number for the direct manipulation task
NTSFMT	Task format table
NTSKMX	Maximum number of tasks in TASK table
NTSKTB	Table containing task name pointers to NCODES table
NUMWIP	Integer value of the WIPOUT task command

COMDECK PATDAT
COMMON /PATDAT/ XPC(3), YPC(3), ZPC(3)

SYMBOL

DEFINITION

XPC

This defines the pattern cut coordinate system x axis unit vector in (XYZ) RCS components. The x axis unit vector is given as:

$$XPC=x*XPC(1)+y*XPC(2)+z*XPC(3)$$

YPC

This defines the pattern cut coordinate system y axis unit vector in (XYZ) RCS components. The y axis unit vector is given as:

$$YPC=x*YPC(1)+y*YPC(2)+z*YPC(3)$$

ZPC

This defines the pattern cut coordinate system z axis unit vector in (XYZ) RCS components. The z axis unit vector is given as:

$$ZPC=x*ZPC(1)+y*ZPC(2)+z*ZPC(3)$$

COMDECK PIS
COMMON /PIS/ PI, TPI, DPR, RPD

<u>SYMBOL</u>	<u>DEFINITION</u>
DPR	The conversion factor for converting angular measurements in radians to degrees ($=180/\text{PI}=57.2957795$)
PI	The constant PI (3.14159265)
RPD	The conversion factor for converting angular measurements in degrees to radians ($=\text{PI}/180=0.0174532925$)
TPI	A constant, two times PI (6.28318531)

COMDECK PLAIN
COMMON /PLAIN/ XX(14,6,3)

SYMBOL

DEFINITION

XX

Array of plate corner locations in meters

COMDECK PNTTBL

```
COMMON/ PNTTBL / MAXPTS,NPRPT,PTTBLE(100,4),NUMPTS,IPTS,NPTBUF,  
1 IPTBUF,NAMPTS,LSTPTB  
DIMENSION IPTTBL (100,4)  
EQUIVALENCE( IPTTBL(1,1),PTTBLE(1,1))
```

Common PNTTBL is used in the geometry processor and stores the locator points read in during the geometry portion of the program.

<u>SYMBOL</u>	<u>DEFINITION</u>
IPTBUF	Current point table buffer
IPTS	Integer point number
IPTTBL	Storage array for point information
LSTPTB	Last cell of common PNTTBL
MAXPTS	Maximum number of points that can be stored in core at one time
NAMPTS	Name of the symbol table containing the point data on peripheral files
NPRPT	The number of words per point
NPTBUF	The number of times the point table has been written to a peripheral device
NUMPTS	Total number of points that have been processed
PTTBLE	Equivalence to IPTTBL

COMDECK ROTRDT
COMMON /ROTRDT/ XCL(3), YCL(3), ZCL(3)

<u>SYMBOL</u>	<u>DEFINITION</u>
XCL	This defines the reference coordinate system x axis unit vector in global coordinate system components. The RCS x axis unit vector is defined as: $X=XO*XCL(1)+YO*XCL(2)+ZO*XCL(3)$
YCL	This defines the reference coordinate system y axis unit vector in global coordinate system components. The RCS y axis unit vector is defined as: $Y=XO*YCL(1)+YO*YCL(2)+ZO*YCL(3)$
ZCL	This defines the reference coordinate system z axis unit vector in global coordinate system components. The RCS z axis unit vector is defined as: $Z=XO*ZCL(1)+YO*ZCL(2)+ZO*ZCL(3)$

NOTE: XO, YO, ZO are unit vectors of the global coordinate system axes

COMDECK SAME
COMMON /SAME/ LSRCFL, LFRQFL, LGDNFL
LOGICAL LSRCFL, LFRQFL, LGDNFL

<u>SYMBOL</u>	<u>DEFINITION</u>
LFRQFL	Logical variable flag to indicate if the frequency is the same (LFRQFL=TRUE) or is different (LFRQFL=FALSE) from the previous time GTD calculations were performed
LGDNFL	Logical variable flag to indicate if the geometry data set name is the same (LGDNFL=TRUE) or different (LGDNFL=FALSE) from the previous time GTD calculations were performed
LSRCFL	Logical variable flag to indicate if the source location or type is the same (LSRCFL=TRUE) or different (LSRCFL=FALSE) from the previous time GTD calculations were performed

COMDECK SCNPAR

```
COMMON /SCNPAR/ NCODE(256), NVAL(256), NCARD(81), LETR(26),  
A IDIG(10), JDIG(10), ISYMBL(11), NARG(10), NF(10), NARGT(10),  
B NLETR, NDIGIT, NARITH, NCOMMA, NPAREN, NBLANK, NPEROD,  
E NINT, NFRAC, MATCH, NOMTCH, NDTASK, IGNORE, NEOFLG,  
F MXCDFG, NFINCD, NDEBUG, NRESTF, NRDCDF,  
G IPER, ICOMMA, IPLUS, IMINUS, ISTAR, ISLASH, IEQUAL,  
H ILEFT, IRIGHT, IBLANK, IDOLAR,  
I NVALMX, MXINCT, MXFPCT, MXDPCT, MXANCT, MXEXPD, MXEXFP,  
J NPRSER, IPSTSK, IPSARG, IPSDAT, IPSLIT, IPSLOO,  
K LSTDAT, LSTINT, LSTASK, LSTINP, INTVAL, LSTFNC,  
L NARGS, KBINTP, KCHKPT, KRSTRT, KINPUT, KOUTPT, KSYMDF,  
M NSCNER, NCOL, NCHAR, NCCLAS, NDIG, NTAB, NCARDS, LSTCOL,  
N NCOMCH, NCONCH, NCON, NCON1, NENDCD, MAXCDS, NCOM, NTASK,  
O NSCOL, NCCARD, LCHAR  
DIMENSION VAL(256)  
EQUIVALENCE (NVAL(1), VAL(1) )
```

Common SCNPAR is used in scanning and parsing the command language input.

<u>SYMBOL</u>	<u>DEFINITION</u>
IBLANK	Integer pointer to blank symbol in ISYMBL array
ICOMMA	Integer pointer to comma symbol in ISYMBL array
IDIG	Array containing the integers 0 through 9
IDOLAR	Pointer to the dollar symbol in the ISYMBL array
IEQUAL	Pointer to the equal symbol in the ISYMBL array
IGNORE	Flag indicating ignore blanks in the input field
ILEFT	Pointer to left parenthesis symbol in ISYMBL table
IMINUS	Pointer to the minus symbol in the ISYMBL table
INTVAL	Initial value of the parameters on an input card
IPER	Pointer to the radix or period symbol in the ISYMBL array.
IPLUS	Pointer to the plus symbol in the ISYMBL array
IPSARG	Pointer to the parse argument

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
IPSDAT	Pointer to the parse data
IPSLIT	Pointer to the parse literal table
IPSLOO	Pointer to the parse loop table
IPSTSK	Pointer to the parse task table
IRIGHT	Pointer to the right parenthesis in the ISYMBL array
ISLASH	Pointer to the slash symbol in the ISYMBL array
ISTAR	Pointer to the star symbol in the ISYMBL array
ISYMBL	Array containing the special symbols that are allowed in the code
JDIG	Array containing the hollerith integer 0 through 9
KBINTP	Integer number of BINTAP task
KCHKPT	Integer number of CHKPNT task
KINPUT	Integer number of INPUT task
KOUTPT	Integer number of OUTPUT task
KRSTRT	Integer number of RESTRT task
KSYMDF	Integer number of SYMDEF task
LCHAR	Current character being scanned on the control card
LETR	Array containing Hollerith alphabet letters
LSTASK	Flag indicating a list of task names to be parsed
LSTCOL	The last column of the command data card to be processed, default is 80
LSTDAT	Flag indicating that a list of existing data sets is to be parsed

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTFNC	Keyword ordinal for last function entered
LSTINP	Request to parse a concentrated list of input integers
LSTINT	Processed list of input integers
MATCH	Requested symbol must match previous entry in NOATBL
MAXCDS	Maximum number of cards
MXANCT	The maximum number of characters for a variable
MXCDFG	The maximum number of cards read
MXDPCT	The maximum floating point significance for a double precision number
MXEXFP	The maximum floating point exponent for a given machine
MXEXPD	The maximum double precision exponent for a given machine
MXFPCT	The maximum floating point significance for single precision variables
MXINCT	The maximum integer character width for a given machine
NARG	Array containing the argument locations in NARGTB
NARGS	The number of arguments expected for a command
NARGT	Array containing the type of argument to be provided
NARITH	Pointer indicates that an arithmetic operation is expected
NBLANK	Code type for a blank field on the input card
NCARD	The command card array
NCARDS	Current statement number

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
NCCARD	Continuation card number
NCCLAS	Character class of the last character retrieved by subroutine GETCHR
NCHAR	Last character retrieved by subroutine GETCHR
NCODE	Table of codes to the parsing routines by the scanner
NCOL	Next column to be retrieved by subroutine GETCHR
NCOM	Column containing the comment character, default to column 1
NCOMCH	The comment character, default to \$
NCOMMA	Integer code for a comma
NCON	Column containing the continuation character, default to 1
NCONCH	The continuation card character, default to *
NCON1	Column to resume scanning the command on a continuation card, default to 2
NDEBUG	Flag turned on when a DEBUG statement is being scanned
NDIG	The value of the digit if the character being read is a digit
NDIGIT	Integer specifying a digit character
NDTASK	Integer value identifying a task code
NENDCD	The end-of-card character
NEOFLG	End-of-file flag returned by READCD
NF	Array of argument-found flags for subroutine STRARG
NFINCD	The flag turned on when the END card was read

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
NFRAC	Pointer to the fractional part of a floating point number
NINT	Pointer to an integer or the integer part of a floating point number
NLETR	Pointer to the LETR array
NOMTCH	Flag turned on when no-match is required for previous NDATBL entries
NPAREN	Flag to indicate that the current field is a parenthesis
NPEROD	Flag to indicate that the current field is a period
NPRSER	Flag turned on when error has occurred in the parse subroutines
NRDCF	Flag to indicate a continuation card
NRESTF	Flag to indicate a restart
NSCNER	Flag turned on when a scan error has occurred
NSCOL	The card column at the beginning of field being scanned
NTAB	Index to the NCODE and NVAL arrays
NTASK	Current task name ordinal
NVAL	A table of associated values with respect to the NCODE array
NVALMX	The maximum number of entries in the NCODE or NVAL tables
VAL	Equivalence to the NVAL array for floating point values

COMDECK SDATA

DATA NUMSUB,LSAVE(1),LSAVE(2),LSAVE(3),LSAVE(4),LSAVE(5)/6*0/

Common deck SDATA is used for initializing internal variables used to save subroutine information

SYMBOL

DEFINITION

LSAVE

Array used to save subroutine information

NUMSUB

Subroutine number

COMDECK SEGMENT

```
COMMON/SEGMENT/SEGTBL(11,500),MAXSEG,NPRSEG,NUMSEG,ISEG,MAXBLK  
1 ,SCALE, NAMSEG,MAXRAD,RAD(10),JCBIAS,JBIA1,JBIA2,NYRSYM,MLTJCT  
2 ,NRAD,NDXBLK,UPDBLK,NWIRE,NPATCH,GAREA,PAREA,JBIA3  
DIMENSION ISGTBL(11,500)  
EQUIVALENCE (ISGTBL(1,1) ,SEGTBL(1,1))  
LOGICAL UPDBLK
```

Common SEGMENT contains the wire segment information and is used in the geometry driver, the interaction matrix generator, and will also be used as a scratch area in the lower/upper decomposition driving routine.

<u>SYMBOL</u>	<u>DEFINITION</u>
GAREA	Total surface area of wire segments
ISEG	Pointer to the current segment number
ISGTBL	Array containing the segment information
JBIA1	Integer to bias connection data to end one of the segment
JBIA2	Integer to bias connection data for end two of a segment
JBIA3	Integer to indicate connection of a wire segment to a patch
JCBIAS	Integer to indicate multiple junction connection
MAXBLK	Total number of geometry data blocks
MAXRAD	Maximum number of radius entries
MAXSEG	Maximum number of segment entries that can be stored in core
MLTJCT	Flag to indicate a multiple junction has been found
NAMSEG	The name of the segment table when it is written out of core
NDXBLK	Index to the current geometry data block
NPATCH	Total number of patches
NPRSEG	Number of data entries per segment

SEGMNT

<u>SYMBOL</u>	<u>DEFINITION</u>
NRAD	Number of radius entries
NUMSEG	Number of segments which have been processed
NWIRE	Total number of wire segments
NYRSYM	Flag to indicate wire symmetry
PAREA	Total surface patch area
RAD	Array of radii values
SCALE	Scale factor to be used in processing geometry input
SEGTBL	Equivalence to table ISGTBL
UPDBLK	Flag set .TRUE. when the data in the current geometry block have been updated since the last time the block was stored on a file

COMDECK SORINF
COMMON /SORINF/ XS(3), VXS(3,3)

<u>SYMBOL</u>	<u>DEFINITION</u>
VXS	A 3X3 matrix defining the source coordinate system axes unit vectors in reference coordinate system components: $XP=x*VXS(1,1)+y*VXS(1,2)+z*VXS(1,3)$ $YP=x*VXS(2,1)+y*VXS(2,2)+z*VXS(2,3)$ $ZP=x*VXS(3,1)+y*VXS(3,2)+z*VXS(3,3)$
XS	The location of the source in (XYZ) reference coordinate system components in wavelengths

COMDECK SOURSF
COMMON /SOURSF/ FACTOR

SYMBOL

DEFINITION

FACTOR

This is a coefficient of the source field used to obtain the correct field magnitude for sources mounted on plates or end caps (in order to compensate for image effects). Factor is given as follows:

For Electric Sources:

For source not mounted on plate or end cap,
FACTOR=1.0

For source mounted normal to plate or end cap,
FACTOR=1.0

For source mounted on plate or end cap but not normal to it.
FACTOR=0.5

For Magnetic Sources*:

For source not mounted on plate or end cap,
FACTOR=1.0

For source mounted on plate or end cap and parallel to it,
FACTOR=2.0

For source mounted on plate or end cap, but not parallel to it,
FACTOR= 1.0

*Magnetic sources are not included in version 3 of GEMACS.

COMDECK SRC
COMMON /SRC/ SP1, SP2, IM

<u>SYMBOL</u>	<u>DEFINITION</u>
IM	The source type
SP1	The wire source radius in wavelengths; or the patch area in square wavelengths
SP2	The wire source length in wavelengths; or for patches it is zero

COMDECK SRFACC
COMMON /SRFACC/ LSRFC(2)
LOGICAL LSRFC

SYMBOL

DEFINITION

LSRFC

A logical variable indicating whether or not the source under consideration is mounted on cylinder end cap MC
LSRFC(MC)=T indicates source mounted on end cap MC
LSRFC(MC)=F indicates source not mounted on end cap MC

COMDECK SURFAC
COMMON /SURFAC/ LSURF(14)
LOGICAL LSURF

SYMBOL

DEFINITION

LSURF

A logical variable indicating whether or not the source under consideration is mounted on plate MP

LSURF(MP)=T indicates source mounted on plate MP

LSURF(MP)=F indicates source not mounted on plate MP

COMDECK SYMSTR
COMMON/SYMSTR/FLTSYM(100),NXTSYM,MAXSTR
DIMENSION INTSYM(100)
EQUIVALENCE (INTSYM(1),FLTSYM(1))

Common SYMSTR is used to store single variables.

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTSYM	Array containing all single variables
INTSYM	Integer array equivalenced to FLTSYM
MAXSTR	Maximum number of entries that can be entered in FLTSYM
NXTSYM	Next available entry in the FLTSYM array

COMDECK SYSFIL

```
COMMON/ SYSFIL /CHKPNT,IOCKPT,RSTART,CPFRWD,TIMTGO,NUMCHK,INCCHK,  
B IOSYMB,IOSCR1,IOSCR2,  
C IOTASK,CHKWRT,  
D MODCHK,RSTRTA,COMPLT,LSTTPF,  
Z LSTSYS(20)  
DIMENSION SYSLST(20)  
LOGICAL RSTRTA,COMPLT  
EQUIVALENCE (SYSLST(1),LSTSYS(1))  
LOGICAL CHKPNT,RSTART,CHKWRT,CPFRWD
```

Common SYSFIL contains information for the interface between the GEMACS program and the host computer system. In addition, it contains the checkpoint and binary output information.

<u>SYMBOL</u>	<u>DEFINITION</u>
CHKPNT	Logical variable equals true when checkpoint tape is to be written
CHKWRT	Logical variable equals true when checkpoint is being written
COMPLT	Run complete flag
CPFRWD	Logical variable equals true when checkpoint tape is to be rewound
INCCHK	Checkpoint interval increment in CP minutes
IOCKPT	Logical unit for checkpoint output
IOSCR1	Logical unit for scratch file #1
IOSCR2	Logical unit for scratch file #2
IOSYMB	Logical unit for storing symbols
IOTASK	Logical unit on which command language input is found
LSTSYS	Last cell of SYSFIL common
LSTTPF	Pointer to last task executed
MODCHK	Logical unit for end-of-module checkpoint file
NUMCHK	Number of checkpoints written
RSTART	Logical variable equals true when checkpoint restart has been accomplished

SYSFIL

SYMBOL

RSTRTA

SYSLST

TIMTGO

DEFINITION

Alternate restart flag

Floating point array equivalenced to LSTSYS

Total run time requested on TIME command

COMDECK TEST
COMMON /TEST/ LDEBUG, LTEST
LOGICAL LDEBUG, LTEST

<u>SYMBOL</u>	<u>DEFINITION</u>
LDEBUG	This logical variable is set true if debug data are to be printed to file LUPRNT
LTEST	This logical variable is set true if test data are to be printed on line printer (not used in version 3 of GEMACS)

COMDECK THPHUV
COMMON /THPHUV/ DT(3), DP(2)

SYMBOL

DEFINITION

DP

The phi unit vector for observation direction D in reference coordinate system components:

$$DP = \hat{x} * DP(1) + \hat{y} * DP(2)$$

DT

The theta unit vector for observation direction D in reference coordinate system components:

$$DT = \hat{x} * DT(1) + \hat{y} * DT(2) + \hat{z} * DT(3)$$

COMDECK TEMPO1
COMMON/TEMPO1/TEMP(5500),NTEMPS,LSTTMP
DIMENSION ITEMP(5500)
EQUIVALENCE (ITEMP(1), TEMP(1))

<u>SYMBOL</u>	<u>DEFINITION</u>
ITEMP	Array of integer variables equivalent to TEMP
LSTTMP	Last cell of the TEMPO1 array
NTEMPS	Number of cells of the TEMP array
TEMP	Floating point equivalence to ITEMP

COMDECK TMI
COMMON/TMI/ZPK,RHK,RKB2,IJ,IPATCH

<u>SYMBOL</u>	<u>DEFINITION</u>
IJ	Flag for numerical integration; IJ=0 indicates self-interaction
IPATCH	Flag indicating a patch observation point
RHK	$k\rho$, where ρ is the distance between the observation point and the axis of the source wire segment
RKB2	$(k\rho')^2$, where ρ' is the distance between the observation point and the side of the source wire segment (see subroutine TNEFLD, figure 2)
ZPK	Wave number times the polar z coordinate of the observation point

COMDECK TOPD
COMMON /TOPD/ TOP
COMPLEX TOP

SYMBOL

DEFINITION

TOP

The complex constant, $-\text{CEXP}(-J*\text{PI}/4.)$

COMDECK XSTR1
COMMON /XSTR1/ XSS(3),TRO(3),VXSS(3,3)

<u>SYMBOL</u>	<u>DEFINITION</u>
TRO	The location of the cylinder center in meters
VXSS	The source axes unit vectors in the global coordinate system
XSS	The source location in meters in the global coordinate system



MISSION
of
Rome Air Development Center

RADC plans and executes research, development, test and selected acquisition programs in support of Command, Control Communications and Intelligence (C³I) activities. Technical and engineering support within areas of technical competence is provided to ESD Program Offices (POs) and other ESD elements. The principal technical mission areas are communications, electromagnetic guidance and control, surveillance of ground and aerospace objects, intelligence data collection and handling, information system technology, ionospheric propagation, solid state sciences, microwave physics and electronic reliability, maintainability and compatibility.

END

FILMED

3-84

DTIC