

516-60
EPR
1/14/72

SORT SUBR. FOR SEGMENTED PROGRAMS

A program has been written to sort the segmented program object decks used with the TSS-516 system. The program starts loading at location 1000 (octal) and occupies 477 (decimal) words of core storage. A description of the program and a copy of its output format are included. A self-loading deck of cards is available to the user. At a later date, this program will be rewritten to be used under the system control.

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9-16-71

Program Category: General Utility

Program Name: SORT SUBR. FOR SEGMENTED PROGRAMS

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Purpose: To sort out 'segments' (programs) from a stack of cards. This will let the user know the program's name, its size and the external segments that it uses.

Restrictions: A self-loading deck is available to the user. It sorts segment programs only. It operates with the key-in loader given under 'Operating Procedures'.

Storage: 677 (octal)
477 (decimal)

Operating Procedures:

1. Set the MA/SI/RUN switch to SI.
2. Store in core locations 1(oct) to 17(oct) the key-in loader shown below.

Core Loc.	Assembly Code
1	170340
2	002001
3	131440
4	002003
5	041464
6	130440
7	002006
10	100001
11	050000
12	024000
13	101001
14	010000
15	100401
16	002003
17	042000

3. Depress the MASTER CLEAR pushbutton.
4. Store a 1 in the P-register.
5. Select the operation to be performed.
 - a. Print everything.-Set all SENSE SWITCHES OFF.
 - b. Bypass PROGRAM cards.-Set SENSE SWITCH 2 ON.

- c. Bypass OCTAL cards.-Set SENSE SWITCH 3 ON.
- d. Bypass SIZE cards.-Set SENSE SWITCH 4 ON.
- 6. Turn the SORBAN card reader ON. Depress the pushbuttons. A green light will indicate that they are ON.
- 7. Place the deck to be sorted on the back of the self-loading deck provided to the user.
- 8. Place the cards in the hopper of the SORBAN card reader.
- 9
- 9. Depress the START p shbutton in the console of the DDP-516.

To HALT program execution toggle SENSE SWITCH 1. To continue depress the START pushbutton in the 516.

Output Format:

See next page.

T.55 5/6
SYS. SEGS.

SEG. NAME	SEG. SIZE	EXT. SEG. CALLS.
.CHRAD	154	NO EXT. SEG.
.EXEC.	142	
ROEXEC	END	GREMST TRBTST .LSTCH .CSTOM .NMTOI .EMENU .MENU
.LOGON	52	
.LOGON	END	LOGON SCPLOG MSDLOG
HUPEND	21	
END		
.ROPAK	151	
ROMAIN	ROSERR	.ROSB .ROCR .BSAVE .ASAVE .TH .TI .TJ
.TK	.TL	.TM .TOSEG .TSTII .TSTIJ .PRESB .RGOTO .TISEG
.CRLF	.TSTJ	.TSTO .XOFF .YTEMP .GETID .CONID .OUTID .TPCRL
.RELPT	.ADTOI	.GOTO.
.RFILE	76	
.FNDFN	.CALL.	.RETI .PUTCR .RETJ .JSUBR .GETCR .JRET. .RELPT
.PIH	.ISTIK	.TSTIL .PI .MI .SRPL .SRPM
.NFILE	111	
.FNDFN		
.FNDFN	176	NO EXT. SEG.
FSNAP	361	NO EXT. SEG.
.CPRSE	43	NO EXT. SEG.
.UFILE	164	NO EXT. SEG.
.DFILE	117	
.LSTCH	.FNDFN	.TOSTR DPURGE .CALL. .RETI .RELPT .INCRG .GETCR
.PUTCR	.IDTOC	.RETJ .ROPK .JSUBR .JRET. .SRPL .SRPM .TSTIK
.TSTIL	.CPRPI	.PK .XFFF .TSTIM .TSTIN .SYSRP .DIRID .PL
.PWOT	.PI	.FLTOT .MID .CPSPM

.LSTCH 50
.TOSTR

.TOSTR 60
.ROPK .IDTOA .RETI .ADTOI .CALL .TSTIH .PK .SRPO .RPHAD
.RELPT .PJ .TOSEG .TSYST .TUSED .XIHXX

.CSTOM 111
NO EXT. SEG.

.RSTAB 140
STBERR

.NMTOI 22
.RSTAB .NMTOI

CLKTST 275
.EXEC .OCTNIN .DECNIN .TYPDEC .IPTEX .CALL .TPCRL .GOTO .JSUBR
.ROPK .JRET .CPRPO .TH .TJ .TK .TL .TM .MI
.ML .PK .TIH .TII .TIJ .TIK .TIL .CMASK .RTCLK
.RTSEC .RTDAY

TTYIOX 60
NO EXT. SEG.

.IDTON 544
STBERR

.LSTNM 60
NO EXT. SEG.

.XPWFX 27
.GLOBL

RHCARD 303
.RETI .RETJ .IORBL .PUTCR .IOCP .CMASK .ITPTR .CRFLG .MI
.PJ .PK .PL .PM .XKF .XPHHH .CR .BMARK

INSTAT 33
.EXEC .STATUS

.RCHAR 62
.RETI .XKFFF .INPID .IOSRT .ITPTR .PRESB .XOFFF .XLH .IORBL
.TIJ .INTRT .XOF .IOPTJ .PJ .IODON .TTK .IONO .CONID
.RSTAT .IHNGU .RDRIN .WDRIN .ITERM .ITPTR .MI

SYSDWN 313
.EXEC .RCHAR .UFILE .GOTO .ROPK .TPTEX .CALL .DIRID .PL
.IONO .IOTRM .IOSRT .TI .SRITH .PM .IOEND .MID .TTSRT
.STJ .STADD .ITPTR .PN .TTEND .TJ .RDBLK .STSRT .STPTR
.PJ .SEGSA .FRESG .PRESB .XKFFF .PI .TSYST .FTUSE .TUSED
.ICTHD .XFFF .STNEN .MI .XOFFF .TK .STI .LOHOL .TSHOL
.IDLER .IMASK .DDSRT .DDEND .TN .TO .CMASK .IODEL .TDUSE
.WAIT .DQCNT .ITERM .NONOD

LOGONJ 46
.RFILE .EXEC. END

STSCAN 24
.ROPK. .RETI .RETJ .STI .STJ .STSRT .PJ .STNEN

SEGBLD 751
.NMTOI IDTRAP GETBID NEWSYM .CPRSE TYPEMB STSCAN .GATE. .CALL.
.RETI .CSPAC .RELPT .TPCRL .RDBLK .FRESG .LOGIN .HOLSE .JSUBR
.GETCR .JRETJ .JRET. .ROPK. .PIH .PJ .PK .XLHH .XLHHI
.XOF .CR .BMARK .MK .MI .PI .XKF .XOFF .XFCHH
.PO .XLHHH .XCHHH .DISRT .DTEND .FTUSE .PRESB .STPTR .STSRT
.SEGSA .STI .STJ .STK .TL .TM .TM .TO .TIH
.TII .TIJ .TIK .TIL .TIM .TIN .TIO .ISTIN .IOCP
.RPH .RPI

ROEXCJ 16
.EXEC.

TYPEMB 72
.GATE. .IPTEX .RETI .STI .STJ .STK .STL .MK

.GLOBL 76
NO EXT. SEG.

PUBLIC 13
.EXEC. .LSTNM .CALL. .GOTO. .GLOBL .DIRID .TSTIK

FLIST 172
.FNDFN TYPDEC MDRPRT

QUIT 14
END DATIME .IPTEX .CALL. .TPCRL .GOTO.

TYPDEC 110
.TOSTR

TYPOCT 64
NO EXT. SEG.

MSDLOG 55
LOGON

DATIME 17
TPDATE .RETI .CALL. .RTDAY .RTSEC .PIH

STATUS 320
DATIME TYPDEC TYPOCT TPDATE

TPDATE 242
.TOSTR .NEWST .PUTCR .TYPOU .CALL. .RETI .JSUBR .JRET. .TSTIK
.TSTIL .TSTIM .TSTIN .CPSPM .PIH .IOCP .STH .IOTCH .FS
.PQ .MI .SRPM.

SETIME 204
.EXEC. .TOSTR .DATIME .GOTO. .TPTEX .NEWST .TYPEI .GETCR .CALL.
.TPCRL .JSUBR .JRET. .DIRID .PL .CPSPM .IOCP .TSTIK .TSTIL
.TSTIM .TSTIN .MID .SRPM .CR .IOTCH .STH .RTDAY .PI
.RTSEC .PIH .XF .RTCLK

.CLOCK 163
.CTYPE .EXEC. .TOSTR .TPTEX .NEWST .TYPEI .GETCR .ROPK. .CALL.
.TPCRL .GOTO. .CPRPN .IOCP .CR .IOTCH .LA .TI .TJ
.CMASK .CRAD .ML .NCTHD .NCSFT .NDSKI

.CTYPE 373
TYPDEC OCTININ .TPTEX .RELPT .CALL. .TPCRL .RETI .CLRAD .CRAD
.IOCP .CR .IOTCH .LA .RPI .MI .ML .PK .PL
.PN .PO .PP .TH .TI .TJ .TK .TL .TM
.TN .TO .TIH .ASDGT .NCTHD .NCSFT .NDSKI

CPYSTR 127
.GETCR .ROPK. .PUTCR .JSUBR .INCRP .JRET. .RETK .PASTA .MI
.XFFF .TSTIK .STH .RPHAD .SRPM .TSTIL .PI .TSTIM .TSTIN
.PRESB

RODISK 45
.ROSB .ADARG .PI .DSKRW .PJ .IOCP .TK .TL .TM
.TII .TIL .TIM .RETI

ROEXEC 175
.TOSTR GENTAB DCLEAN ROEXCJ

ROMENU 115
NO EXT. SEG.

DCLEAN 62
.IDTOC .RELPT .GETCR .PUTCR .RETI .SRPM .PM .MP .MI
.WAIT .TSTIK .TSTIL .CPSPL .SRPL .FNEND

DRESET 7
DCLEAN .EXEC. .CALL. .GOTO. .DIRID

SYSUP 7
DCLEAN .EXEC. .CALL. .GOTO. .DIRID

SYSSAV 427
.EXEC. .RCHAR .UFILE .GOTO. .ROPK. .TPTEX .CALL. .DIRID .PL
.IONO .IOTRM .IOSRT .TI .SRTTH .PM .IOEND .MID .TTSRT
.STJ .STADD .TIPTR .PN .TTEND .TJ .RDBLK .STSRT .STPTR
.PJ .SEGS .FRESG .PRESB .XKFFF .PI .ISYST .FTUSE .TUSED
.ICTHD .XFFF .STNEW .MI .XOFFF .TK .STI .LOHOL .TSHOL
.IDLER .IMASK .DDSRT .DDEND .TN .TO .DSETU .CMASK .IODEL
.TDUSE .WAIT .DQCNT .ITERM .NONOD

SEGDEC 76
RHCARD .CPRSE SEGBLD .TOSTR

SEGFIL 67
.RFILE SEGBLD .UFILE .EXEC.

MPURGE 22
.EXEC. .ROPK. .RETI .CALL. .GOTO. .STSRT .PJ .STNEN .STPTR
.STI .SEGA .PSHT .PRESB .STDEL

ROMAIN 1251
ROEXEC .ROPAK .NMTOI .IDTON ROINP ROMENU RODISK .TISEG .TOSEG
.RGOTO .ROPK. .TSTII .TSTIJ .LA .IOCP .IOTCH .RPH .JPDL
.JSTAD .PRESB .PASTA .ROSB .ROCR .BSAVE .ASAVE .TH .TI
.TJ .TK .TL .TM .TN .TO .TIH .TII .TIJ
.TIK .TIL .TIM .TIN .TIO .PK .MM .ML .MJ
.MI .PI .PJ .PN .PO .CR .CRLF .EOM .TSYST
.XOF .XIFF .XOFF .XKFFF .XLHHH .TSBAD .ZICPD .COMMA .ASDGT
.GOTO. .ADTOI .IDTOA .GETCR .CALL. .PUTCR .TYPOU

DPURGE 17
.DFILE

DPIHAB 376
NO EXT. SEG.

GEDIAL 73
NO EXT. SEG.

GERIN 265
NO EXT. SEG.

BETRAC 1274
TARIH TRACEC TMENU TEXRET CPYSTR TBUGER TDEFN TRFUNC TSEGM
TREADS TEQUAL .EXEC. .LSTNM .RCHAR QUIT TSINIT TCONV .LA
.PN .CALL. .TISEG .TOSEG .TI .TJ .TH .TK .TM
.TL .TN .TO .TIH .TII .TIJ .TIK .TIL .TIM
.TIN .TIO .CPRPI .CPRPH .CPRPJ .CPRPK .IOCP .IOTCH .CPRPL
.FNEND .DIRID .CPRPM .CPRPN .RPH .RPI .RPJ .PI .PJ
.MI .JSTAD .PM .RPK .RPL .PK .PL .RPM .RPN
.RPO .XOFF .XOFF .XPH .CR .COMMA .STJ .STK .ROPK.
.INCR .PUTCR .TPTX .RELPT .ADTOI .IDTOA .JSUBR .JRET. .JRETJ
.GETCR .GOTO.

TSEGM 775
CPYSTR .UFILE TBUGER .CPRSE .LSTCH .TOSTR .RFILE .CPRPI .RPN
.RPO .RPI .TH .TI .TK .TM .TIN .RPK .CPRPI
.COMMA .PI .PJ .TJ .TL .TSTIK .TSTIL .TSTIM .TSTI
.CPRPL .XOF .RPL .MI .RPJ .STJ .STK .CPRPM .CPRP
.TN .TO .XFF .TII .XPH .TIL .TIM .RETI .NEWS
.ROPK. .GETCR .PUTCR .INCR .CALL. .ADTOI .RELPT .RETJ .IDTC
.RETK .JSUBR .IDTOC .JRETJ .JRET. .GOTO.

TRUGER 474
 BETRAC .CPRPH .XOF .XOFF .PM .PI .CPRPI .IOCP .IOTCH
 .XFF .TH .TI .TJ .TN .COMMA .RPH .TM .TIN
 .MI .TO .TIH .CPRPJ .CPRPK .RPI .RPK .TII .TPTX
 .INCR .PUTCR .TYOII .ROPK .GOTO .RELPT .GETCR

TREADS 327
 .RCHAR BETRAC RHCARD .TIH .TI .PO .XFF .TH .LA
 .CPRPO .TII .TIO .IOTCH .PI .TJ .CPRPK .TN .IOCP
 .TO .CR .RPN .RPO .CPRPI .GOTO .ROPK .CALL .JSUBR
 .TEMST .RELPT .TYPEI .PUTCR .JRETJ .JRET .GETCR .TPTX .TYOU
 .RETI
 0 146 42012,
 0 150 120572,

TEQUAL 153
 .RPK .RPL .RPN .RPO .CPRPI .CPRPM .CPRPN .PI .TH
 .TI .TK .TM .TO .TN .PJ .RPJ .RPI .TIL
 .TII .TIM .RANDM .RELPT .RETI .RETJ .PUTCA .JSUBR .JRET.
 .GETCR .ROPK .JRETJ .IDTOA

TRFUNC 146
 CPYSTR TRUGER TSINIT .TOSTR .RPH .RPI .RPJ .RPK .TH
 .TI .TJ .TK .TL .TM .TIN .PI .PM .TISEG
 .TOSEG .CPRPI .TIH .TII .TIL .TIM .TIO .XOFF .CR
 .CPRPK .CALL .ROPK .GETCR .RETI .PUTCR .INCR .ADTOI .RELPT
 .IDTOA .TPCRL .RETJ .GOTO.

TDEFN 166
 CPYSTR TRUGER .DFILE .RFILE .NFILE .LSTCH .UFILE .RPI .RPJ
 .RPK .RPN .RPO .TH .TK .TM .TN .TO .TI
 .PI .CPRPK .MI .PJ .PRESB .CPRPM .CPRPN .COMMA .TIL
 .TIM .CPRPI .CALL .RETI .IDTOC .PUTCR .RELPT .RETJ .JSUBR
 .GETCR .INCR .JRET .IDTOA .GOTO.

TEXRET 45
 TRKNMS .DFILE .MP .RPHAD .RPH .CPRPK .TH .TOSEG .RPK
 .RPJ .RPL .RPM .RPN .RPO .TIH .TII .IDTOC .CALL.
 .INCR .ADTOI .RELPT .RETI

TSINIT 77
 TRKNMS .DFILE .NFILE .RFILE .TH .CPRPI .CPRPK .RPJ .RPK
 .TISEG .TOSEG .XPHH .PIH .TIH .TII .IDTOC .CALL .RETI
 .INCR .RELPT .RETJ

TRKNMS 15
 NO EXT. SEG.

NEWSYM 74
 .RSTAB NEWSYM

CHARIN 45
.TOSTR .NEWST .TYPEI .GETCR .ROPK .CALL .RETI .RETJ .CPRPO
.LA .IOCP .CR .IOTCH

DECNIN 75
.TOSTR .EMST .TYPEI .GETCR .ROPK .CALL .RETJ .RETI .CPSM
.TSTIK .TSTIL .IOCP .CR .IOTCH .ASDGT .MI .PIH

OCTNIN 46
.TOSTR .NEWST .TYPEI .GETCR .ROPK .CALL .RETJ .RETI .CPRPO
.IOCP .CR .IOTCH .ASDGT .MI .PP

GENTAB 74
.RETI .JSUBR .JRETJ .RELPT .ADTOI .JRET .XLH .TISEG .TOSEG
.RPO .PJ .STH .STI .TIO .RPN .RPM

SYMTAB 133
GENTAB .IDTOA .JSUBR .CALL .JRET .RELPT .RETI .SRPL .SRPO
.RPN .RPO .TSTIK .TSTIL .TSTIM .TSTIN .MK .STH .STI
.PM .TISEG .PK .XKF .PI .PJ

PPSYS 76
COMAND PPSYSR PPSYSA PPSYSM PRINT .DFILE .LSTNM

PPSYSM 136
PPSYS

PPSYSR 765
.RCHAR PPSYS END PPSYSW .TOSTR .NFILE .RFILE .LSTCH .UFILE
.TPCRL .GOTO .TPTEX .GETCR .ROPK .INCR .CALL .IDTOC .JSUBR
.PUTCR .JRET .RELPT .TYPOU .JRETJ .JRETK .XJHHH .XKHHH .XFHHH
.JSTAD .XFFF .TIO .CRLF .IOTCH .MI .TH .TI .TJ
.TK .IL .TM .TN .TO .STH .STI .STJ .MP
.OUTID .ITERM .WCRIN .WDRIN .RDRIN .IOCP .CR .COMMA .PO
.XIHHH .RPM .RPN .RPO .CPRPN .CPRPO .TIN .TSTIM .PP
.ML .RECNT .TIM

PPSYSW 175
PPSYSZ .LSTCH DCLEAN PPSYS

METCAL 617
.EXEC CHARIN DECNIN OCTNIN TYPDEC .TPTEX .CALL .GOTO .ROPK
.JSUBR .JRET .TH .TI .TJ .TK .IL .TM .TN
.TO .TIH .TII .TIJ .TIK .TIL .TIM .TIN .MI
.PI .RTCLK .CMASK .RTSEC .RTDAY .PO .DTSRT .DTEND .XCHHH
.XLHHI

SRTHD 157
NO EXT. SEG.

.TVNAM 122
.RSTAB .TVNAM

CMETER 54
.EXEC. .CSTOM .NMTOI .TOSTR .TEMST .TPTX .TYPEI .CALL. .ROPK.
.GOTO. .CPRPN .IOCP .CR .IOTCH .MI .TSYST .CMETR

TVRWOD 351
.EXEC. .CSTOM .NMTOI OCTNIN DECNIN TYPCT TYPDEC .TOSTR .TEMST
.TPTX .TYPEI .GETCR .ROPK. .CALL. .GOTO. .IOCP .CR .IOTCH
.TSYST .CPRPN .LA .TH .TI .TJ .TK .TL .TM
.TN

COPYFL 157
.RFILE .NFILE .UFILE .LSTCH .EXEC. .GETCR .CALL. .IDTOC .PUTCR
.RELPT .GOTO. .TPTX .TIO .TIN .TIM .TIL .TIK .TH
.TI .FS .MID .DIRID .TSIM .CPRPI .RPH .RPI

NEWPW 13
.UFILE .LOGON .CALL. .GOTO. .MID .DIRID

PPSYSZ 200
.RFILE .NFILE .UFILE

GETBID 133
NO EXT. SEG.

BIGSEG 57
GETBID PUTBID

TARITH 563
.RFILE .UFILE .TH .TI .TJ .TK .TN .TO .TIN
.TSTIK .TSTIM .TSTIN .TSTIL .RPI .RPJ .RPN .RPO .RPK
.CPRPK .COMMA .TM .MK .MJ .ASDGT .PI .PJ .MI
.ML .XF .MM .CPRPI .CPRPM .CPRPN .TII .TIL .TIM
.PUTCR .RETI .GETCR .JSUBR .JRET. .IDTOA .RELPT .INCR .ROPK.
.JRETJ .CALL. .IDTOC

PUTBID 104
.ROPK. .RETI .STH .STI .STJ .STK .XOF .XF .PO
.DISRT .DTEND .PRESB

TRACEC 45
.CSTOM .NMTOI .TM .TN .TO .TSTII .TSTIJ .RGOTO .PI
.PJ .MI .COMMA .CPRPI .CPRPM .CPRPN .XF .TIN .RPN
.RPO .RPJ .RPI .TIL .TIM .TSTIK .GETCR .INCR .PUTCR
.CALL. .RETI

TARGS 257
.RFILE .TIL .TIM .RPI .RPJ .RPN .RPO .CPRPI .CPRPM
.CPRPN .LA .TN .TO .PI .PJ .RETI .JSUBR .IDTOA
.RELPT .JRET. .GETCR .ROPK. .JRETJ .CALL. .RETJ .PUTCR .TSTIK
.TSTIL .TSTIM .JSTAD .PQ .TSTIN .COMMA

TMENU 637
.TPTX .RETI

GE 136
 .RFILE GEJOB .UFILE .RCHAR .EXEC. GEOUT .CALL. .IDTOC .ROPK.
 .TPTEX .RELPT .GOTO. .TYPEI .TI .CPRPH .RPH .IOCP .CR
 .IOTCH .TH .LA

GEJOB 567
 GEJOB COPYSG .RFILE .UFILE GOQUEU SGEQUE

TPSNUM 57
 .GATE. .TPTEX .RETI .ROPK. .PIH .ASDGT .STH .STI

GEOUT 123
 SRTTHD GEGREM .RELPT .RETI .CALL. .JSUBR .IDTOC .GETCR .INCR
 .JRET. .PUTCR .STIK .TSTIL .TSTIM .SRPL .MJ .CPSPL .GREMH
 .WAIT .NISEG .MI .MK .DIRID .JSTAD .TSTIN .PJ

IDTRAP 117
 .IDTON TYPEMB TYPOCT .TPTEX .ADTOI .CALL. .ROPK. .IDTOA .RETI
 .STH .STI .STJ .PASTA .TSTIK .MI

GURU 232
 TARGS .LSTCH .UFILE .RFILE .CALL. .GETCR .IDTOC .ROPK. .TYPOU
 .RELPT .RETJ .PUTCR .JSUBR .JRET. .PK .TN .TSTIK .TO
 .TSTIL .PI .IOCP .IOTCH .TSTIN .COMMA .CPRPN .RPN .RPO
 .XFFF .CPRPO .PJ .XF .PN

TRING 142
 TARGS TRSLT .CALL. .RETI .GOTO. .RETJ .JSUBR .JRET. .OUTID
 .ITERM .RSRIN .RDRIN .WDRIN .WCRIN .TSTIK .MM .TSTIL .ASDGT
 .TII .PO .PK .TN .CPRPI .TO .CONID .INPID .PJ

TCONV 35
 TARGS TRSLT .CALL. .PJ .TSTII .TSTIJ .TSTIK .TM .PK
 .RGOTO .PI

TRSLT 130
 .RETI .PUTCR .JSUBR .JRETJ .PJ .PK .TSTIK .TSTIL .TSTIM
 .TSTIN .PI .ASDGT .TII .JSTAD .PQ .PO .STH .STI

TDIV 52
 TARGS TRSLT .CALL. .RETI .GOTO. .JSUBR .JRET. .PJ .PK
 .PL .TSTIL .TM .TSTIN

TUPPER 27
 TARGS .CALL. .GETCR .ROPK. .PUTCR .RETJ .PJ .TN .CPRPI
 .TO .LA .TII .RPN .RPO

ROINP 60
 ROMAIN ROAUX

EDINP 13
 EDITOR

CHKPID 102
.ROPK. .RETI .STH .STI .STJ .STK .STL ..XOF .XF
.PO .DISRT .DTEND .PRESB .PASTA

COPYSG 44
.IDTOA .RELPT .RETI .STH .STI .STN .STO .SRPL .TISEG
.XOFF .PJ

GEGREM 72
GESEND .TOSTR END

SGEQUE 14
NO EXT. SEG.

GEDECK 65
RHCARD .CPRSE GEJOB .TOSTR .EXEC.

REPSEG 110
.NMTOI STSCAN PUTBID IDTRAP NEWSYM .CALL. .IDTOA .RETJ .TSTIK
.TSTIL .TSTIM .MI .PO .STH .SEGS .STI .WAIT .STPTR
.FRESG .PASTA .PRESB

GESEND 70
GEDIAL .GESLP .GESWT GEGREM DPIHAB

.GESLP 336
.GESWT GERIN

.GESWT 56
NO EXT. SEG.

STABLE 154
.CUSTOM .RFILE .NMTOI .EXEC. .UFILE GENTAB REPSEG

ASMBST 1
NO EXT. SEG.

HPUNCH 107
.RFILE .UFILE .EXEC. GEJOB .CALL. .IDTOC .RELPT .ROPK. .GOTO.
.TPTEX .TYPEI .TH .TI .TJ .CPRPH .XFFF .CPRPI .PN
.PJ .RPI .IOCP .CR .IOTCH

GEJOB 352
TPSNM DATIME SRTHD GEGREM .LSTCH .TOSTR

MDRPRT 515
DATIME TYPDEC SEGCNT DSKCNT

SEGCNT 551
NO EXT. SEG.

DSKCNT 35
.ROPK. .RETI .DTSRT .DTEND .STH .STI .STJ

ASSEMB 152
COPYST .RFILE .ASEMJ .NFILE ASMBST

.ASEMJ 65
.ASSEM .LSTCH LBLSET .ASEMK

.ASEMK 144
.CSTOM .PBC. .TOSTR .ASEML

.ASEML 21
.ASSEM .LSTCH GENTAB .ASEMM

.ASEMM 171
TYPOCT .UFILE .EXEC. SEGBLD .RFILE GEJOB

MODZAP 302
TARGS

COPYST 30
COPYSG

LBLSET 251
NO EXT. SEG.

CVGEAF 106
.RFILE .UFILE .EXEC.

.ASSEM 33
.ASSLP

.ASSLP 1372
.TVNAM .PBC. .ASFLG SYMTAB

.PBC. 123
.PUTLB

.PUTLB 52
NO EXT. SEG.

.ASFLG 56
NO EXT. SEG.

CSXMEM 431
NO EXT. SEG.

ZAPPER 72
.RFILE ZPDATA ZPCOD .EXEC. .LSTCH

ZPDATA 204
.CSTOM .NMTOI .UFILE ZPDATB ZPDATC

12

ZPDCOD 116
. ZPMAIN .CPRSE ZAPPER

ZPMAIN 554
ZPDCOD ZPMENU ZPPROD .CPRSE ZPWRT ZAPPER ZPEROR .EXEC. QUIT
ZPMAIN GENTAB .UFILE .TOSTR

ZPMENU 172
ZAPPER

GEBKUP 543
.RFILE .UFILE .CPRSE GEJOB .TOSTR CPYSTR LBLSET .PUTLB .EXEC.

FLOAD 765
RHCARD .CPRSE .UFILE .RFILE .NFILE LBLSET .LSTCH .PUTLB .TOSTR
.EXEC.

ONLYME 142
ONLYME .EXEC.

COLGRB 1045
NO EXT. SEG.

GEPNCH 45
.RFILE GEJOB .UFILE

GELIST 45
.RFILE GEJOB .UFILE

RECDSK 30
.EXEC. ONLYME COLGRB

GE\LAB 114
.LSTCH .RFILE GEJOB .UFILE .EXEC.

.EMENU 44
.RFILE .UFILE .EXEC.

STBERR 76
TYPOCT TYPEMB ROEXEC

ZMDNXP 240
ZPEROR

ZMDPXN 236
ZPEROR

ZPEROR 222
ZAPPER

ZAPORG 263
NO EXT. SEG.

END 76
.UFILE ENDB

ENDB 75
ENDC

ENDC 76
ENDD

ENDD 66
.TOSTR .ZOMBE

.ZOMBE 34
ENDD COLGRB EVYDAY

GEMAC 130
.RFILE GEJOB .UFILE .EXEC.

.EDIUS 75
.EDMSG .EDCBR

.EDCBR 72
.EDIUS .EDITE .EDDOC .EDPRT .EDMSG .EDCMC .EDRCE .EDCLN .EDRMC

.EDITE 71
.EDOCF .EDIUS

.EDDOC 75
.EDOCF .EDIUS .EDCPY

.EDPRT 176
.EDOCF .EDITE

.EDMSG 156
NO EXT. SEG.

.EDCMC 72
.NFILE .RFILE .DFILE .EDMSG .EDCLN .UFILE

.EDRCE 76
.EDIUS .EDOCF RHCARD .LSTCH .EDMSG

.EDCLN 70
.EDIUS .LSTNM .EDCPY .UFILE .TOSTR

.EDRMC 73
.EDOCF .RFILE .UFILE .EDMSG

.EDOCF 76
.EDCLN .EDCPY .EDIUS .EDMSG

.EDCPY 75
NO EXT. SEG.

GREMST 24
SRTIHD GEGREM

TRBTST 74
TYPDEC

SYSNAP 563
.DATIME ACFILE .IDTON TYPEMB TYPOCT .UFILE

PRINT 113
.RFILE TYPDEC .UFILE

KIN 425
.RFILE END TYPOCT

ROSERR 167
.RFILE .UFILE ROMAIN END

COMAND 76
COMANE

COMANE 51
COMAND .EXEC. QUIT

NODTST 365
COMAND NIMENU NTINTR TYPOCT

ZPDATB 341
GENTAB ZPDATC

ZPDATC 177
TYPDEC .UFILE

ZPPROD 33
NO EXT. SEG.

ZMDJMN 302
ZPEROR

ZMDMIJ 263
ZPEROR

.GPASS 1312
.ASFLG SYMTAB

HINBND 176
LBLSET .RFILE GENTAB .BINDL .BINDB .LSTCH .NFILE

.BINDL 162
TYPDEC .RFILE .BINDB .UFILE

.BINDB 611
.PUTAB SYMTAB TYPDEC

.PUTAB 137
.PUTLB

HINASM 313
COPYST .RFILE .NFILE .GPASS .LSTCH .UFILE GENTAB TYPOCT .EXEC.
.HINDF

.HINDF 76
NO EXT. SEG.

ZPWRT 165
.CPRSE

NTMENU 305
NODIST

STAT 145
.RFILE TDATE .UFILE TYPDEC

EVYDAY 125
.RFILE .UFILE

GCHARS 104
.RFILE .UFILE

EXTOUT 26
EXTOUT SNOPT

ROAUX 74
.CSTOM .NMTOI ROMAIN .RFILE

LOGON 56
DATIME ACFILE .UFILE LOGONJ

GLNSRT 111
.RFILE .UFILE LOGON END

ACFILE 52
.RFILE

GEPLOT 126
.RFILE .UFILE ACFILE GEJOB

GESAVE 61
.RFILE GEJOB .UFILE .EXEC.

PPSYSA 566
.RFILE .LSTCH .UFILE PPSYS .NFILE LBLSET .PUTLR ACFILE GEJOB
.TOSTR

GMTEST 307
TYPOCT .EXEC.

DFSTAR 63
.DFILE

TYPIOX 276
TYPIOX TTYIOX SCPIOX SPOUT FILINP FILOUT TPIOXJ

TPIOXJ 44
TPIOXJ TTYIOX ELFIOX UNDIOX

.MENU 112
.MENU .EXEC. .EDIUS .ROPAK BETRAC PRINT QUIT FLIST STATUS
CALCUL SYSNAP PPSYS DESK SOURCE ASSEMB SPAWN NEWPW FSNAP
DFSTAR GEBKUP TALKTO

SYMCON 44
.RCHAR

NTINTR 113
.RCHAR TYPOCT NODTST NIMENU

DKPLOT 32
ACFILE GEJOB

SOURCE 231
.RFILE .UFILE TYPOCT TYPDEC

FILINP 71
.TOSTR

COLTST 1061
TYPOCT

GERAOL 524
.RFILE .NFILE .LSTCH GEDIAL TYPDEC GEROUT TYPOCT GERIN DPIHAB

GEROUT 171
NO EXT. SEG.

UNDIOX 25
END

SCPLOG 216
ACFILE .UFILE LOGON

SCPIOX 103
SCPOUT SCPIOY SCPINP

SCPIOY 55
SCPNLN

SCPINP 76
NO EXT. SEG.

SCPOUT 222
SCPNLN

SCPNLN 355
NO EXT. SEG.

SCPDMP 257
TYPOCT ACFILE

FLPOCT 47
FLPIN TYPOCT

OCTFLP 56
OCTNIN FLPOUT

SPAWN 171
SOURCE SINK SRTHD SPAWN TYPDEC .TOSTR .EXEC.

STOP 324
ACFILE .UFILE END

SINK 14
.NFILE .RFILE

FILOUT 114
NO EXT. SEG.

NMTOTH 230
ACFILE .UFILE

18

TALKTO 304
NMTOTH

CONVRT 576
NO EXT. SEG.

FLTDCD 375
NO EXT. SEG.

FLPIN 73
FLTDCD .IOSTR

FLIFMT 544
NO EXT. SEG.

FLPOUT 47
FLIFMT .IOSTR

FADD 173
NO EXT. SEG.

FSUB 176
NO EXT. SEG.

FMULT 167
NO EXT. SEG.

FDIVD 174
NO EXT. SEG.

FSQRT 115
FDIVD FADD

FSNPIP 111
NO EXT. SEG.

DINTGR 106
NO EXT. SEG.

FLOAT 47
NO EXT. SEG.

LOGCOM 167
FLOAT FADD FSUB FDIVD FMULT

ALOG 46
LOGCOM FSUB FMULT

TANGNT 56
COSINE SINE FDIVD

SINE 264
FMULT FSUB FADD

COSINE 262
FMULT FSUB FADD

ATAN 337
FMULT FADD FDIVD

EXP 361
FMULT FSUB FADD FDIVD

FPOW 30
ALOG FMULT EXP

FSRAND 131
NO EXT. SEG.

RANDOM 123
NO EXT. SEG.

FSCHAR 15
.RCHAR FLOAT

FSCMPL 575
LNCMSU GETNAM SETSUP IFSTUP DIMSU DATASU FUNCSU CALLSU TYASSU
FORSU NEXTSU TYPDEC .TOSTR FSERSU

LNCMSU 332
NO EXT. SEG.

FSERSU 447
TYPDEC

GETNAM 257
FSNXP

FSNXP 140
BIGSEG GETNAM

DMVSU 136
GETNAM

FSUSFN 33
NO EXT. SEG.

SETSUP 575
GETNAM DMVSU FGNUM FLOAT FSUSFN

CALLSU 235
.NMTOI GETNAM DMVSU FGNUM

FORSU 171
GETNAM SETSUP

NEXTSU 151
GETNAM

IFSTUP 123
SETSUP LNCMSU

TYASSU 323
SETSUP

FUNCSU 154
GETNAM SETSUP

DIMSU 322
GETNAM.

DATASU 262
FGNUM

FGNUM 163
FLIDCD .IOSTR

FSNPXC 522
DIMVAR FSEVAL FSNPER FSNPIF FSCALL FSNPFR FSNPTP FADD

FSEVAL 372
FSNPFN DIMVAR FADD FSUB FMULT FDIVD FPOW

FSNPFN 166
FSQRT SINE COSINE FSNPIP ATAN EXP TANGNT RANDOM ALOG

FSNPER 363
TYPDEC

DIMVAR 276
NO EXT. SEG.

FSCALL 250
DIMVAR FSNPXC FSNPER

FSNPIF 163
FSEVAL FSNPXC FSNPER

FSNPFR 165
FSEVAL FSNPXC FSNPER

FSNPTP 261
FSINFL FSOTFL FSREAD FSEVAL FLPOUT FSNPER FSNPXC

FSREAD 172
FLPIN DIMVAR

FSINFL 371
TYPDEC .RFILE .UFILE .TOSTR FGNUM

FSOTFL 76
TYPDEC .NFILE .RFILE .UFILE

FSNAP 320
FSDEBUG .RFILE FSCMPL GETCOM FSNPMN FSNPRT FSPDAT FSDUMP FSLINK
FSNPXC FSUNLK .EDIUS .UFILE

FSDEBUG 44
FSNAP

GETCOM 174
FSEXEC DSKFMT GETNAM .TOSTR

FSEXEC 174
.NFILE .RFILE .UFILE .CSTOM .NMTOI

FSUNLK 135
.TOSTR BIGSEG

FSLINK 113
NO EXT. SEG.

FSNPMN 55
.RFILE .UFILE

ELFIOX 51
HUPEND

FSPDAT 72
FLPOUT

FSNPRT 165
.TOSTR FLPOUT

FSDUMP 156
NO EXT. SEG.

CALCUL 57
.RFILE FSCMPL FSLINK FSNPXC FSUNLK .UFILE

DESK 76
DESKMN DSKMNU

DESKMN 374
GETNAM FSNPFN FADD FSUB FMULT FDIVD FPOW FGNUM FLPOUT
DSKPRT DSKFMT DESK

DSKMNU 40
ACFILE .UFILE

DSKPRT 66
.TOSIR FLPOUT

DSKFMT 43
NO EXT. SEG.