```
                                45800   SUBTTL  CLOAD,CSAVE,CONSOLE
                                45820   ;
                                45840   ; THE CONSOLE COMMAND ALLOWS THE USER TO CHANGE THE I/O CHANNEL
                                45860   ; THAT THE USER TERMINAL IS ON, BY GIVING THE COMMAND CONSOLE X
                                45880   ; WHERE X IS SOME INTEGER THE TERMINAL DEVICE WILL BE POLLED FROM
                                45900   ; CHANNELS X AND X+1. RESTARTING AT LOCATION ZERO FORCES THE TERMINAL
                                45920   ; TO BE ON CHANNEL ZERO AGAIN.
                                45940   ;
                                45960   IFN     CONSSW,<
                                45980   INTERNAL        CONSOO
                                46000   CONSOO: XRA     A               ;FORCE A CHANNEL ZERO CONSOLE
                                46020           CALL    CONS2           ;ON RESTART AT ZERO
                                46040           JMP     READY          ;TYPE "OK" AND ACCEPT INPUT
                                46060   CONSOL: CALL    GETBYT          ;FETCH AN INTEGER INTO [A]
                                46080           RNZ                     ;CHECK FOR A TERMINATOR
                                46100   CONS2:
                                46120   IFN     REALIO,<
                                46140           STA     CNLCA1          ;CHANGE ALL THE FLAG INPUT CHANNEL REFERENCES
                                46160           STA     CNLCA2
                                46180           STA     CNLCA3>
                                46200   IFN     LENGTH,<
                                46220           STA     CNLCA4>
                                46240           INR     A               ;[A]=DATA INPUT CHANNEL
                                46260           STA     CNLCB1          ;CHANGE ALL THE DATA INPUT CHANNEL REFERENCES
                                46280           STA     CNLCB2
                                46300           RET>
                                46320   IFN     CASSW,<
                                46340   ;
                                46360   ; CASIN READS A CHARACTER FROM THE CASSETTE
                                46380   ; INTO [A] WITHOUT MODIFYING ANYTHING BUT [A] AND THE CONDITION
                                46400   ; CODES
                                46420   ;
                                46440   CASIN:  IN      6               ;ROUTINE TO READ A CHARACTER
                                46460           ANI     IDONE           ;FROM THE CASSETTE INTO [A]
                                46480           JNZ     CASIN
                                46500           IN      7               ;READ THE DATA
                                46520           RET
                                46540   ;
                                46560   ; CASOUT OUTPUTS THE CHARACTER IN [A] TO THE CASSETTE
                                46580   ; WITHOUT MODIFYING ANYTHING
                                46600   ;
                                46620   TWOCSO: CALL    CASOUT          ;DOUBLE OUT OF [A]
                                46640   CASOUT: PUSH    PSW             ;ROUTINE TO WRITE A CHARACTER IN [A]
                                46660   CASLK:  IN      6               ;ONTO THE CASSETTE
                                46680           ANI     ODONE
                                46700           JNZ     CASLK           ;WAIT TILL CASSETTE IS READY
                                46720           POP     PSW             ;GET THE CHARACTER BACK
                                46740           OUT     7               ;OUTPUT THE CHARACTER
                                46760           RET
                                46780   ;
                                46800   ; THE CSAVE COMMAND WRITES A PROGRAM ONTO CASSETTE BY DUMPING
                                46820   ; BASICS CORE. THE HEADER IS THREE 211'S FOLLOWED BY A ONE
                                46840   ; CHARACTER FILE NAME. THE END IS THREE ZEROS IN A ROW.
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                                46860   ;
                                46880   CSAVE:  PUSH    H
                                46900           MVI     A,211
                                46920           CALL    CASOUT          ;PUT OUT THE START BYTES
                                46940           CALL    TWOCSO          ;TWO MORE TIMES
                                46960           MOV     A,M             ;GET FILENAME
                                46980           CALL    CASOUT          ;STORE AFTER 211'S
                                47000           LHLD    TXTTAB          ;START OF PROGRAM
                                47020           XCHG
                                47040           LHLD    VARTAB          ;END OF PROGRAM
                                47060   LOPCSO: LDAX    D               ;GET A BYTE FROM THE PROGRAM
                                47080           INX     D
                                47100           CALL    CASOUT          ;SEND IT OUT TO THE CASSETTE
                                47120           COMPAR                  ;THE END?
                                47140           JNZ     LOPCSO          ;IF NOT,OUTPUT MORE
                                47160           CALL    TWOCSO          ;TWO MORE 0'S TO MARK THE END
                                47180           POP     H               ;RESTORE THE TEXT POINTER
                                47200           CHRGET                  ;GO PAST THE FILE NAME
                                47220           RET
                                47240   ;
                                47260   ; THE CLOAD COMMAND CLEARS CORE AND THEN READS A PROGRAM
                                47280   ; FROM CASSETTE, SINCE THE LINKS OF THE FILE ON CASSETTE
                                47300   ; WILL BE WRONG IF THE FILE WAS SAVED WITH A DIFFERENT VERSION OF
                                47320   ; BASIC FINI IS JUMPED TO, A SCRATCH IS DONE AT THE START SO RESTARTS
                                47340   ; AT 0 WON'T LEAVE THINGS IN A GARBAGE STATE.
                                47360   ;
                                47380   CLOAD:  STA     FACLO           ;SAVE THE FILENAME
                                47400           CALL    SCRTCH          ;RESET EVERYTHING
                                47420   LOPCLK: MVI     B,3             ;NUMBER OF START CHARACTERS
                                47440   LOPCL2: CALL    CASIN           ;GET A CHARACTER
                                47460           CPI     211             ;START CHARACTER?
                                47480           JNZ     LOPCLK          ;NO, RESET COUNT AND LOOK SOME MORE
                                47500           DCR     B               ;DECREMENT THE COUNT
                                47520           JNZ     LOPCL2          ;SEEN THREE YET?
                                47540           LXI     H,FACLO         ;POINT AT THE FILENAME
                                47560           CALL    CASIN           ;READ THIS FILENAME
                                47580           CMP     M               ;THE RIGHT FILE?
                                47600           JNZ     LOPCLK          ;IF NOT,START COMPLETELY OVER
                                47620           LHLD    TXTTAB          ;PLACE TO STORE THE PROGRAM
                                47640   DOCKS:  MVI     B,4             ;NUMBER OF ZEROS TO GET
                                47660   DOCSMR: CALL    CASIN           ;BEFORE STOPPING
                                47680           MOV     M,A             ;GET A CHARACTER
                                47700           CALL    REASON          ;STORE IT
                                47720           MOV     A,M             ;MAKE SURE THERE IS ROOM
                                47740           ORA     A               ;REGET THE CHARACTER
                                47760           INX     H               ;A ZERO?
                                47780           JNZ     DOCKS           ;RESET # OF ZEROS SEEN
                                47800           DCR     B               ;DECREMENT NUMBER OF ZEROS
                                47820           JNZ     DOCSMR          ;SEEN FOUR?
                                47840           SHLD    VARTAB          ;SETUP END OF PROGRAM
                                47860           LXI     H,READY         ;TYPE "OK" PREMATURELY
                                47880           CALL    STROUT
                                47900
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BASIC MCS 8080  GATES/ALLEN/DAVIDOFF    MACRO 47(113) 03:12 10-SEP-75 PAGE 29-2
F3      MAC     6-SEP-64 03:11          CLOAD,CSAVE,CONSOLE

  7760                                  47920           JMP     FIN1>           ;FIX UP THE LINKS AND GO BACK TO MAIN
  7761                                  47940   PAGE
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BASIC MCS 8080  GATES/ALLEN/DAVIDOFF    MACRO 47(113) 03:12 10-SEP-75 PAGE 30
F3      MAC     6-SEP-64 03:11          PEEK AND POKE

  7762                                  47960   SUBTTL PEEK AND POKE
  7763                                  47980   IFN     LENGTH,<
  7764                                  48000   IFE     LENGTH-2,<
  7765  011314' 001000  000315         48020   PEEK:   CALL    FRCINT          ;GET AN INTEGER IN [H,L]
  7766  011315' 000000  011025*
  7767  011316' 000000  011311'
  7768  011317' 001000  000176         48040           MOV     A,M>            ;GET THE VALUE TO RETURN
  7769                                  48060   IFN     LENGTH-2,<
  7770                                  48080   PEEK:   CALL    POSINT          ;GET THE VALUE OF FACLO INTO [D,E]
  7771                                  48100           LDAX    D>              ;READ THE VALUE
  7772  011320' 001000  000303         48120           JMP     SNGFLT          ;AND FLOAT IT
  7773  011321' 000000  007400'
  7774  011322' 000000  011315'
  7775                                  48140   IFE     LENGTH-2,<
  7776  011323' 001000  000315         48160   POKE:   CALL    FRMEVL
  7777  011324' 000000  005336'
  7778  011325' 000000  011321'
  7779  011326' 001000  000345         48180           PUSH    H               ;SAVE THE TEXT POINTER
  7780  011327' 001000  000315         48200           CALL    FRCINT          ;GET INTEGER VALUE OF FAC IN [H,L]
  7781  011330' 000000  011315*
  7782  011331' 000000  011324'
  7783  011332' 001000  000343         48220           XTHL>                   ;GET BACK THE TEXT POINTER
  7784                                  48240   IFN     LENGTH-2,<
  7785                                  48260   POKE:   CALL    INT102          ;READ LOCATION TO POKE
  7786                                  48280           PUSH    D>              ;SAVE THE LOCATION
  7787  011333' 001000  000317         48300           SYNCHK  44              ;CHECK FOR A COMMA
  7788  011334' 000000  000054
  7789  011335' 001000  000315         48320           CALL    GETBYT
  7790  011336' 000000  011020'
  7791  011337' 000000  011330'
  7792  011340' 001000  000321         48340           POP     D               ;GET THE ADDRESS BACK
  7793  011341' 001000  000022         48360           STAX    D               ;STORE IT AWAY
  7794  011342' 001000  000311         48380           RET>                    ;SCANNED EVERYTHING
  7795                                  48400   ;
  7796                                  48420   ; NOTE: IN THE 8K PEEK ONLY ACCEPTS POSITIVE NUMBERS UP TO 32767
  7797                                  48440   ; POKE WILL ONLY TAKE AN ADDRESS UP TO 32767 , NO
  7798                                  48460   ; FUDGING ALLOWED, THE VALUE IS UNSIGNED.
  7799                                  48480   ;
  7800                  011336'         48500   .C1=.P
  7801                                  48520   END

NO ERRORS DETECTED

PROGRAM BREAK IS 011343

10K CORE USED
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A	000007'		CNLCA1	003114'	SIN	DCOMP	000702'	EXT
ABS	000107'	EXT	CNLCA2	003127'	SIN	DCX8RT	011204'	EXT
AFF	000104		CNLCA3	003461'	SIN	DDIV	000700'	EXT
ALLLST	002354'		CNLCA4	003303'	SIN	DEF	007411'	
ALLSTR	010570'		CNLCB1	003124'	SPD	DEFFIN	007521'	
ANDORD	005571'		CNLCB2	003136'	SPD	DEL	011271'	
APPLOP	005642'		CNTCON	003465'		DELETE	011245'	
ARG	001654'	INT	CNTWFL	001541'	INT	DFACLO	001633'	INT
ARGLO	001645'	INT	COLIS	002705'		DIM	006500'	
ARYSTR	010177'		COMPRT	004553'		DIMCON	006473'	
ARYTAB	001623'		CONIA	006405'	EXT	DIMFLG	001542'	
ARYVA2	010137'		CONINT	011023'		DIRIS	003526'	
ARYVAR	010140'		CONSIM	006041'	EXT	DMULT	000676'	EXT
ASC	010515'		CONSSW	000000	SPD	DNTCPY	004217'	
ASPA2	004626'		CONT	003542'		DOASIG	005056'	
ASPAC	004627'		CONTRW	000001	SPD	DOCMP	006375'	
ATN	000137'	EXT	CONTW	000017		DOCOND	004354'	
ATNFIX	000137'	INT	COPNUM	004237'		DODSP	005756'	
ATNTK	000300	SPD	COS	000151'	EXT	DOMIN	006146'	
B	000000		COSFIX	000131'	INT	DONMUL	007326'	
BLTLOP	002013'		CR	000015	SPD	DORES	001544'	
BLTU	002005'		CROD	004523'	INT	DOSIZT	004621'	
BLTUC	002010'		CRDONE	002753'		DSCTMP	001570'	
BOTCON	000016	SPD	CRFIN	004534'		DSKFUN	000000	SPD
BRKTXT	001734'		CRUNCH	002533'		DSUB	000674'	EXT
BSERR	007677'	INT	CSLOOP	006345'		DVBERR	002075'	INT
BUF	001431'	INT	CURLIN	001607'	INT	DVAR	010214'	
BUFLEN	000110	SPD	CZLOOP	002316'		DVAR2	010213'	
BUFLIN	011163'		D	000002		DVARS	010214'	
BUFMIN	001430'		DADD	000672'	EXT	E	000003	
C	000001		DANDOR	006437'		EATEM	006535'	
CASSW	000000	SPD	DATA	004072'		EDIT	000632'	EXT
CAT	010320'		DATATK	000203	SPD	ELSE	004074'	
CHEAD	002302'		DATBK	005025'		ELSETK	000220	SPD
CHKCOM	004560'		DATFND	005166'		END	003474'	
CHKSTR	010432'	EXT	DATLIN	001577'		ENDCON	003501'	
CHRS	010532'		DATLOP	005163'		ENDREL	005415'	
CHRCON	003433'		DATPTR	001627'		ENDTK	000200	SPD
CHRGTR	003426'		DATSNE	002064'		EQULTK	000260	
CLEAR	003703'		DBLDSP	000672'		ERR8S	000011	SPD
CLEARC	002443'					ERRCN	000021	SPD
CLMWID	000016	SPD				ERRDD	000012	SPD
						ERRDIM	007532'	
						ERRDV0	000013	SPD
						ERRFC	000005	SPD
						ERRFIN	002127'	
						ERRID	000014	SPD
						ERRLS	000017	SPD
						ERRNF	000001	SPD
						ERROD	000004	SPD

ERROM	000007	SPD	FPWR	000000	EXT	INCHR	003126'	
ERROR	002102'	INT	FPWRQ	005562'	EXT	INDLOP	006754'	
ERROV	000006	SIN	FRCDBL	005751'	EXT	INEG	000000	EXT
ERRRG	000003	SPD	FRCINT	011330'	EXT	INIT	002163'	EXT
ERRSN	000002	SPD	FRCSNG	007506'	EXT	INLIN	002776'	
ERRSO	000016	SPD	FRCSTR	000000	EXT	INLINC	003003'	
ERRST	000020	SPD	FRCTBL	000664'		INLINN	002772'	
ERRTAB	000730'		FRE	007337'		INLPNM	007252'	
ERRTM	000015	SIN	FREFAC	010434'		INPCON	004157'	
ERRUF	000022	SPD	FRESTR	010431'		INPCON	004765'	
ERRUS	000010	SPD	FRETM2	010437'		INPRT	002141'	EXT
EVAL	006061'		FRETMP	010440'		INPUT	004711'	
EXCHGT	004100'		FRETOP	001573'	INT	INPWRD	010720'	
EXIGNT	005142'		FRMCHK	005337'		INRART	000000	EXT
EXP	000127'	EXT	FRMEVL	005336'		INT	000000	EXT
EXPSTK	005553'		FSUB	000706'	EXT	INTDSP	000716'	
EXTFNC	000001	SPD	FUNCTS	000001	SPD	INTID2	003623'	
FAC	001642'	INT	FUNDSP	000103'		INTIDX	003622'	
FACDBL	005775'		GARBA2	010042'		INTXT	001720'	INT
FACLO	001637'	INT	GARBAG	010026'		INXHRT	002664'	EXT
FACSNG	006034'		GETAGN	004741'		ISARY	006745'	
FADD	000704'	EXT	GETBCD	007752'	EXT	ISCNTC	003460'	
FADDS	005260'	EXT	GETBYT	011020'		ISFUN	006204'	
FALSIF	004363'		GETDEF	007245'		ISGOSU	004306'	
FBUFFR	001655'	INT	GETFNM	007550'		ISIUN	000000	EXT
FCERR	010776'	INT	GETSPA	007772'		ISLET	003612'	
FCOMP	005274'	EXT	GETSTK	002024'		ISSEC	006534'	
FDIV	000712'	EXT	GETYPE	006307'	INT	ISUB	000720'	EXT
FIN	011064'	EXT	GIVDBL	007372'		ISVAR	006164'	
FINBCK	010546'		GIVINT	007402'		KLOOP	002544'	
FINGO	006276'		GONE	003370'		L	000005	
FINI	002276'		GONE2	003376'		LABBCK	006162'	
FININL	004516'		GONE3	003375'		LASNUM	000306	SPD
FINNOW	007331'		GOODCH	003044'		LEFT$	010552'	
FINPTR	006742'		GOSUB	003770'		LEFT2	010560'	
FINREL	005605'		GOSUTK	000214		LEFT3	010556'	
FINTMP	005544'		GOTO	004010'		LEN	010501'	
FLGINP	001602'		GOTOTK	000210	SPD	LEN1	010505'	
FLOAT	000000	EXT	GRBPAS	010254'		LENGTH	000002	SPD
FLOATR	000000	EXT	GREATK	000257		LEPSKP	002117'	
FMULT	000710'	EXT	GTBYTC	011017'				
FNDFOR	001744'		H	000004				
FNDLIN	002371'		HAVTYP	006574'				
FNDUER	007443'		IADD	000716'	EXT			
FNDVAR	010045'		ICOMP	000726'	EXT			
FNINP	010712'		IDIV	000724'	EXT			
FNOUT	010725'		IDONE	000001	SPD			
FNTK	000243	SPD	IF	004325'				
FNWAIT	010733'		IFORDN	003267'				
FOR	003154'		IFTK	000212	SPD			
FORTK	000201	SPD	ILLFUN	010776'	INT			
FOUND	002646'		IMULT	000722'	EXT			
FOUT	007565'	EXT						

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LESSTK          000261'
LET             004131'
LINCHK          004475'
LINGET          003642' INT
LINGT2          003643'
LINLEN          000110  SPD
LINLIN          002764'
LINPRT          011134' EXT
LINPT1          003103' SIN
LINPT2          003574' SIN
LINPT3          004474' SIN
LINPT4          004557' SIN
LIST            011072'
LIST4           011077'
LISTEN          000001  SPD
LOG             000125' EXT
LOOP            002374'
LOOPDN          005320'
LOOPER          001750'
LOOPON          004307'
LOPDT2          004773'
LOPFDA          007015'
LOPFND          006623'
LOPPTA          007135'
LOPREL          005363'
LPOPER          005341'
LPTLEN          000110  SPD
LPTSW           000000  SPD
LSTOPK          000007  SPD
M               000006  SPD
MAIN            002165'
MAKINT          007404' EXT
MEMSIZ          001545' INT
MID$            010643'
MID2            010665'
MINUTK          000251  INT
MLOOP           011275'
MLOOPR          002266'
MORCOM          004566'
MORLIN          003646'
MORPR           004410'
MOVE            000000  EXT
MOVFR           005253' EXT
MOVFR           005746' EXT
MOVINS          010407'
MOVLP           010420'
MOVMF           007476' EXT
MOVRF           006044' EXT
MOVRM           010154' EXT
MOVSTR          010417'
MULDIM          000001  SPD
MUSTCR          002617'
NEG             000000  EXT
NEWCHR          004407'
NEWSTT          003302'
NEXT            005225'
NEXTC           005230'
NFERR           002100'
NMARY1          007051'
NMARY2          007050'
NMREL           000003  SPD
NODATT          002710'
NODEL           002227'
NOPRIN          003113'
NOSEC           006547'
NOTABR          004637'
NOTDIM          007152'
NOTER           006412'
NOTFDD          007104'
NOTFNS          006671'
NOTFRF          006272'
NOTIT1          006660'
NOTLST          010477'
NOTOL           003176'
NOTQT1          004735'
NOTSTV          005360'
NOTTHN          010753'
NOTTK           000246  SPD
NOTTRC          003367'
NUMGET          005053'
NUMLIN          005214'
NTHIS           002736'
NTHIS1          002742'
NULCNT          000046'
NULL            003566'
NUMCMD          000040
NUMGFN          000051  SPD
NUMINS          005070'
NUMLEV          000025  SPD
NUMREL          005476'
NUMTMP          000005  SPD
NUTPOS          000070  SPD
NXTCON          003276'
NXTRES          002625'
ODONE           000200  SPD
OKGOTO          004346'
OKNORM          006251'
OLDLIN          001611'
OLDTXT          001613'
OMERR           002057' INT
ONEFUN          000262
ONELIN          002365'
ONEON           003265'
ONGOTO          004271'
OPRTYP          001544'
OPTAB           000163'
ORFIN           006463'
OUTBEL          003061'
OUTCON          003065'
OUTDO           000030' INT
OUTWRD          010730'
PARCHK          006136'
PEEK            011314'
PLOOP           011170'
PLUSTK          000250  INT
POKE            011323'
POPGOF          001774'
POPHRT          000000  EXT
POS             007406'
PRSWRT          010024'
PREAM           010764'
PREAM2          010767'
PRINT           004411'
PRINTC          004414'
PRINTK          000231  SPD
PRIT3           011232'
PRIT4           011167'
PRTNUL          004577'
PSW             000006  SPD
PTRGET          006505'
PTRGT2          006512'
PUFOUT          000000  EXT
PURE            000000  SPD
PUSHF           006036' EXT
PUSHMA          0001000'
PUTDEI          007524'
PUTNEW          007705'
PUTVAL          004261'
Q               000022
QINLIN          002522' INT
QINT            000000  EXT
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RAMBOT          020000
READ            004760'
READY           002145' INT
REALIO          000001  SPD
REASON          002045' INT
REDDY           001725'
REDINP          004136'
REM             004074'
REMER           004103'
REMTK           000216
REPINI          002162' INT
REPOUT          004632'
RESCR1          011216'
RESER           002627'
RESFIN          003453'
RESLST          000172'
RESRCH          011214'
RESTOR          003446'
RETADP          005554'
RETURN          004044'
RIGHT$          010631'
RND             000123' EXT
RNDFIX          000123'
RUN             003754'
RUNC            002437'
RUNC2           004007'
SCNLIN          002333'
SCRATH          002421'
SCRATK          000237
SCRTCH          002422' INT
SETDBL          005750'
SETIO           011003'
SGN             000103' EXT
SIGN            000050' INT
SIGNC           000055' EXT
SIGNS           006373' EXT
SIN             000133' EXT
SINFIX          000133' INT
SKPMRF          004365'
SKPVAR          010130'
SMLVAL          007322'
SNERR           002072' INT
SNGDBL          005743'
SNGOO           006026'
SNGUSP          002704'
SNGFLT          007400'
SP              000006
SPCTK           000242  SPD
SQR             000121' EXT
SQRFIX          000121'
SQRTK           000271  SPD
STAINP          010754'
START           000000'
STEPTK          000247
STKOBL          005725'
STKINI          002470'
STKSNG          006021'
STKTOP          001615' INT
STMOSP          000564'
STOP            003472'
STPEND          003500'
STPRDY          002144'
STR$            007564'
STR1            002716'
STRAD1          007632'
STRAD2          007627'
STRCMP          006320'
STRCPY          007601'
STRUN2          005077'
STRUON          004507'
STRENO          001625' INT
STRFIN          007665'
STRGET          007646'
STRING          000001  SPD
STRIN1          007624'
STRLIT          007637' INT
STRLT2          007643'
STRLT3          007642'
STRLTI          007640'
STRNG           002727'
STROUI          007742' INT
STROUT          007743' INT
STRPR2          007755'
STRPRT          007746'
STRSIZ          000003  SPD
STUFFH          002667'
SUBFLG          001681'
SVAR            010102'
SVARS           010077'
TABEND          002653'
TABER           004577'
TABTK           000240
TAN             000135' EXT
TANFIX          000135' INT
TEMP            001603'
TEMP2           001605' INT
TEMP3           001575' INT
TEMP6           007124'
TEMPPT          001547' INT
TEMPST          001551' INT
THENTK          000245
TMERR           005703' EXT
TOFF            003605'
TON             003604'
TOPCON          000035  SPD
TOTK            000241  SPD
TRCFLG          001631'
TRMNOK          004667'
TRMOK           005111'
TRYAGN          004644'
TRYGI2          007774'
TRYIN           003126'
TRYOUT          003113'
TSTACK          000000  EXT
TSTOP           005357'
TTICHN          000001  SPD
TTOCHN          000001  SPD
TTYCHK          003070'
TTYIST          004616'
TTYPOS          000047'
TVAR            010063'
TXTTAB          001617' INT
UMULT           007267' EXT
USERR           004037'
USINTK          000244  SPD
USRLOC          000111'
VAL             011042'
VALINT          000000  EXT
VALSNG          000000  EXT
VALTYP          001543' INT
VARTAB          001621'
VINT            000105' EXT
VMOVAF          005777' EXT
VMOVE           007724' EXT
VMOVFA          000000  EXT
VMOVFM          006200' EXT
VMOVMF          004264' EXT
VNEG            006160' EXT
VPUSHD          005536'
VSIGN           004347' EXT
```