

APPLE II

fig-FORTH ASSEMBLY SOURCE LISTING

RELEASE 1.1

WITH COMPILER SECURITY

AND

VARIABLE LENGTH NAMES

v 1.0

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APPLE II FIG-FORTH
RELEASE 1.1

BY ROBERT E. KUNTZE

THIS DOCUMENT CONTAINS LISTINGS OF THE SOURCE AND BINARY CODES FOR AN APPLE II IMPLEMENTATION OF THE FORTH INTEREST GROUP'S MODEL OF THE FORTH LANGUAGE. THE MODEL IS BASED ON THE 1978 FIG-FORTH STANDARD. THIS DOCUMENT SHOULD BE USED ALONG WITH THE FIG-FORTH INSTALLATION MANUAL WHEN ATTEMPTING IMPLEMENTATION OR WHEN LEARNING TO USE THE PROGRAM.

THIS IMPLEMENTATION IS FOR AN APPLE II OR APPLE II PLUS WITH 48K OF RAM, WITH OR WITHOUT A LANGUAGE CARD, AND A SINGLE DISK II OPERATING UNDER DOS 3.3.

THE APPLE'S MEMORY HAS BEEN ALLOCATED TO PRESERVE ALL DISPLAY PAGES, BOTH HIGH AND LOW RESOLUTION, WHILE PROVIDING ABOUT 6K OF RAM FOR USER GROWTH OF THE DICTIONARY. A SYSTEM MEMORY MAP PLUS DETAILED MAPS OF ZERO PAGE AND USER'S AREA ARE INCLUDED FOR REFERENCE.

SOURCE LISTING

THE SOURCE LISTING WAS DEVELOPED WITH THE PUBLIC DOMAIN "TED II+" TEXT EDITOR AND ASSEMBLER WRITTEN BY ANDY HERTZFELD AND KEN SMITH. THE SOURCE IS IN THREE PARTS, DUE TO THEIR LENGTHS, AND ARE LINKED BY "EQUATES" AT THE BEGINNING OF EACH PART. CARE MUST BE EXERCISED WHEN CHANGING THE SOURCE CODE OF ONE PORTION TO INSURE THE CORRECT LINKAGE WITH THE OTHER TWO PARTS. THE "SCR=" AND "L=" NOTATION USED IN THE SOURCE LISTING FOR EACH "WORD" REFERS TO THE SCREEN AND LINE NUMBER OF THE MODEL FOUND IN THE FIG-FORTH INSTALLATION MANUAL. ALSO NOTE THAT THE TED II+ ASSEMBLER ONLY LISTS THE FIRST THREE CHARACTERS OF TEXT WHEN IT WRITES LONGER ASCII STRINGS INTO BINARY CODE.

SOURCE CODE PSEUDO-OPS

TED II+ SUPPORTS ALL 6502 MNEMONICS, SWEET-16 OPERATORS, AND IT'S OWN PSEUDO-OPERATOR SET:

....ORG....\$<ADDR>
SETS ADDRESS WHERE FINAL PROGRAM WILL RUN. OBJECT CODE MAY BE ACTUALLY WRITTEN ELSEWHERE, BUT IS WRITTEN TO RUN AT THE SPECIFIED ADDRESS.

....OBJ....\$<ADDR>
SPECIFIES STARTING ADDRESS WHERE OBJECT CODE IS ACTUALLY WRITTEN. THE DEFAULT ADDRESS OF OBJ AND ORG IS \$7000 ON A 48K APPLE II. (\$5000 ON A < 48K).

<LABEL>....EQU....<EXPR>
ASSIGNS VALUE OF <EXPR> TO <LABEL>. <EXPR> IS USED FOR A DECIMAL VALUE <256. '\$<EXPR>' IS USED FOR A HEX ADDRESSES OR CONSTANTS. ZERO-PAGE ADDRESSES MAY BE EXPRESSED IN DECIMAL, IF DESIRED.

....DS....<EXPR>
RESERVES <EXPR> NUMBER OF BYTES AT THE LOCATION OF DS IN THE
PROGRAM. <EXPR> MAY BE DECIMAL OR HEX (\$<EXPR>).

....DA....<LABEL>
STUFFS ADDRESS OF <LABEL> INTO MEMORY, LOW BYTE FIRST, THEN
HIGH BYTE.

....DW....<EXPR>
STUFFS HEX EQUIVALENT OF <EXPR> INTO MEMORY. <EXPR> MAY BE
ANY LEGAL TYPE OF EXPRESSION.

....HEX....<HEX BYTES>
WRITES LISTED HEX BYTES INTO MEMORY. ONLY FIRST 3 BYTES WILL
BE LISTED DURING ASSEMBLY.

....ASC....'<STRING>' OR "<STRING>"
WRITES ASCII CHARACTERS OF <STRING> INTO MEMORY. IF <STRING>
IS DELIMITED BY ', THE HIGH BIT OF CHARACTER IS CLEAR. IF "
IS USED, HIGH BIT IS SET. ONLY THE FIRST THREE BYTES STORED
WILL BE PRINTED DURING ASSEMBLY, BUT ALL CHARACTERS ARE
WRITTEN INTO MEMORY.

....DCI....'<STRING>' OR "<STRING>"
SIMILAR TO ASC, EXCEPT THE LAST CHARACTER WILL HAVE THE HIGH
BIT CLEAR OR SET OPPOSITE OF THAT SET BY CHOICE OF ' OR ".

....BLT....<LABEL>, BRANCH LESS THAN. SAME AS BCC OPERATOR.

....BGE....<LABEL>, BRANCH GREATER THAN/EQUAL. SAME AS BCS.

BINARY LISTING

THE BINARY LISTING INCLUDES ALL THE CODE GENERATED BY THE THREE
PART SOURCE. THE BINARY IS NOT RELOCATABLE. THE BINARY CODE CAN
BE DIRECTLY TYPED INTO THE APPLE IIS VIA THE MONITOR AND THEN
"BSAVE FIG-FORTH,A\$6100,L\$1839".

SYSTEM START UP

THIS IMPLEMENTATION OF THE FIG MODEL HAS A TWO LEVEL ERROR
DETECTION UTILITY FEATURE INCLUDED IN THE CODE. THESE UTILITIES
ARE BOTH ENABLED IN THE LISTINGS AND MUST BE DISABLED BEFORE
NORMAL OPERATION IS ACHIEVED.

THE UTILITIES ARE TRACING FEATURES WHICH PERMIT DISPLAY OF
PROGRAM FLOW DURING EXECUTION. THE FIRST TRACE LEVEL IS MORE
DETAILED THAN THE SECOND.

AN EXAMPLE OF THE FIRST LEVEL IS INCLUDED FOR THE EXECUTION OF
THE WORD "ABORT". AT THIS LEVEL THE ADDRESS AND STACK POINTERS
PLUS THE LABEL ARE DISPLAYED OR PRINTED FOR EACH STEP IN PROGRAM
EXECUTION. ALL WORDS, BOTH CODE AND COLON DEFINED, ARE TRACED AT
THIS LEVEL. THIS LEVEL IS OPERATED EITHER AS SINGLE STEPS, PACED
BY THE OPERATOR'S USE OF THE SPACE BAR, OR CONTINUOUSLY UNTIL
KEYBOARD ENTRIES ARE EXPECTED. PROGRAM NESTING IS ILLUSTRATED
BY THE BOXES ADDED TO THE EXAMPLE.

AN EXAMPLE OF THE SECOND, OR HIGHER LEVEL, OF TRACING IS ALSO

INCLUDED FOR THE WORD "ABORT". AT THIS LEVEL ONLY THE LABELS OF COLON DEFINED WORDS ARE DISPLAYED WHILE TRACING. THIS LEVEL IS MUCH FASTER AND IS GENERALLY USEFULL AFTER MOST OF THE CODE HAS BEEN DEBUGED.

THESE UTILITES ARE SWITCHED ON OR OFF BY CHANGING THE CODE AT THE ADDRESSES INDICATED;

FEATURE ADDRESS TO ENABLE OR TO DISABLE

SINGLE STEP	\$61B6:20	0C FD	:EA EA EA
CONTINUOUS	\$614F:20	6F 61	:EA EA EA
COLON	\$66DC:20	61 BE	:EA EA EA

THE TEXT ERROR MESSAGE CAPABILITY IS DISABLED IN THE CODE AS LISTED. IT MAY BE ENABLED, ONCE SCREENS # 4 AND 5 OF THE INSTALLATION MANUAL HAVE BEEN ENTERED ONTO A DISKETTE, BY SETTING THE "DISK" FLAG AT \$611A TO 01. SINCE THE FIG MODEL DOES NOT INCLUDE A SCREEN EDITOR, THE USER WILL NEED TO COMPILE ONE BEFORE ANY DISKETTE SCREENS COULD BE WRITTEN. THE INSTALLATION MANUAL INCLUDES, FOR REFERENCE, A GOOD EDITOR BEGINING WITH SCREEN #87. DISKETTES TO BE USED FOR SCREENS SHOULD BE INITIALIZED BY STANDARD DOS 3.3 PROCEDURES.

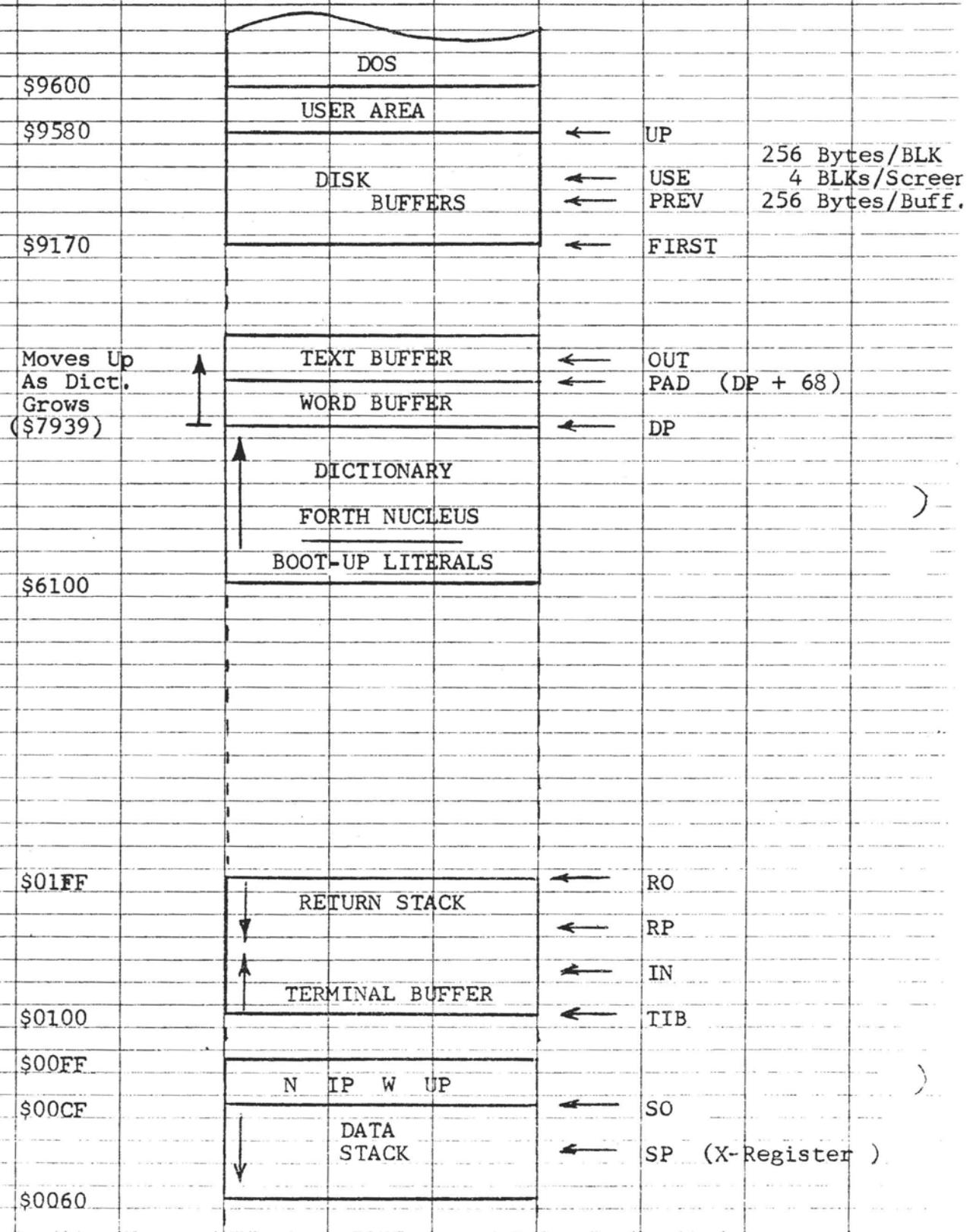
RELEASE 1.1

RELEASE 1.1 DIFFERS FROM RELEASE 1 IN ONLY THE FOLLOWING AREAS:

- 1- THE INTRODUCTION IN RELEASE 1 HAS BEEN REPLACED. THE ORIGINAL WAS ACTUALLY THE TEXT OF AN ARTICLE INTENDED FOR PUBLICATION IN A NUMBER OF APPLE II USER INTEREST GROUP MAGAZINES. THE MACHINE READABLE COPIES OF THE PROGRAMS MENTIONED REFERED TO "DISKS OF THE MONTH" WHICH WOULD HAVE BEEN DISTRIBUTED BY THOSE INTEREST GROUPS. THE FORTH INTEREST GROUP DOES NOT DISTRIBUTE MACHINE READABLE MATERIAL.
- 2- THE BINARY CODE LISTING HAS BEEN ADDED.
- 3- THE GREETING MESSAGE HAS BEEN CHANGED IN "ABORT".
- 4- THE TRACE EXAMPLES HAVE BEEN ADDED.

Memory Map, FORTH

R.E.KUNTZE 1/81



Zero Page & User Area Locations

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Addr.	0 / 8	1 / 9	2 / A	3 / B	4 / C	5 / D	6 / E	7 / F
\$0000-								
80-								
10-								
18-								
20-								
28-								
30-								
38-								
40-								
48-								
50-								
58-								
60-	- BOS -							
68-								
70-								
78-								
80-								
88-								
90-				- - DATA STACK - -				
98-								
A0-								
A8-								
B0-								
B8-								
C0-								
E8-								- TOS -
D0-					N - 1	N	N + 1	
D8-	N + 2	←	→		N + 7		- IP -	
E0-	W - 1	- W -		- UP -	XSAVE			
E8-								
F0-								
\$00F8-								
\$9580-	←	Reserved	→					- SO -
88-	- RQ -	- TIB -		- WIDTH -				- WARNING -
90-	- FENCE -	- DP -		- VOC+LINK -				- BLK -
98-	- IN -	- OUT -		- SCR -				- OFFSET -
A0-	- CONTEXT -	- CURRENT -		- STATE -				- BASE -
A8-	- DPL -	- FLD -		- CSP -				- R# -
B0-	- HLD -							
B8-								
C0-								
C8-								
D0-								
D8-								
E0-								
E8-								
F0-								
\$95F8-								


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1 ****
2 *
3 * APPLE II FIG-FORTH, V1.0 *
4 * (THREE SOURCE FILES) *
5 * PART ONE *
6 *
7 * COMMERCIAL RIGHTS RESERVED *
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16 * 94070 *
17 *
18 ****
19 *
20 * EQUATES FOR
21 * MEMORY ASSIGNMENT
22 * MACHINE REGISTERS
23 * DISK PARAMETERS
24 *
25 SSIZE EQU $100 SECTOR SIZE
26 NBUF EQU 4 NUMBER OF BUFFERS
27 SECTR EQU $230 SECTORS PER DRIVE.
28 SECTL EQU $460 SECTOR LIMIT 2 DRIVES
29 BMAG EQU $410 TOTAL BUFFER
30 BOS EQU $60 BOTTOM OF STACK
31 TOS EQU $CE IOP OF STACK
32 N EQU $D6 SCRATCH WORKSPACE
33 IP EQU $DE INTERPRETIVE POINTER
34 W EQU $E1 CODE FIELD POINTER
35 UP EQU $E3 USER AREA POINTER
36 XSAVE EQU $E5 TEMPORARY X REG.
37 TIBX EQU $0100 TERMINAL IN BUFFER
38 ORIG EQU $6100 ORIGN FORTH DIC1.
39 MEM EQU $9600 TOP ASSIGNED MEM+1
40 UAREA EQU $9580 USER AREA
41 DAREA EQU $9170 DISK BUFFER
42 *
43 * MONITOR CALLS FOR
44 * TERMINAL SUPPORT
45 *
46 OUTCH EQU $FDED COUT ROUTINE
47 INCH EQU $FD0C RDKEY ROUTINE
48 TCR EQU $FD8E CROUT ROUTINE
49 *
50 * EQUATES WHICH LINK THIS
51 * FILE TO PARTS 2 AND 3.
52 *
53 COLD EQU $7145
54 WARM EQU $7157
55 NTOP EQU $7927
56 TOP EQU $7939
57 VLO EQU $70BE
58 XEMIT EQU $7519
59 XKEY EQU $7511
60 XTER EQU $7529

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61 XCR EQU $7523
62 ERROR EQU $6ECD
63 PSCOD EQU $6B12
64 CREAT EQU $6F36
65 *
66 * JUMP VECTORS TO BOOTUP
67 * CODE AND SYSTEM PARAMETERS.
68 *
69 OBJ $7B00
70 ORG $6100
6100: EA 71 ENTER NOP ;COLD ENTRY POINT
6101: 4C 47 71 72 JMP COLD+2
6104: EA 73 REENTR NOP ;WARM ENTRY POINT
6105: 4C 57 71 74 JMP WARM
6108: 04 00 75 HEX 0400 "6502" ENCODED IN RADIX
610A: D2 5E 76 HEX D25E 36 FOR IDENTIFICATION.
610C: 27 79 77 DA NIOP LAST NAME ADDR.
610E: 08 00 78 HEX 0800 APPLE BACKSPACE CHARACTER
6110: 80 95 79 DA UAREA INITIAL USER AREA
6112: CE 00 80 DA TOS INITIAL TOP OF STACK
6114: FF 01 81 HEX FF01 INITIAL TOP OF RETURN STACK
6116: 00 01 82 DA TIBX INITIAL TERM. INPUT BUFFER
6118: 1F 00 83 HEX 1F00 INITIAL NAME FIELD WIDTH, 31
611A: 00 00 84 HEX 0000 0=NO DISK, 1=DISK
611C: 39 79 85 DA TOP INITIAL FENCE ADDRESS
611E: 39 79 86 DA TOP INITIAL TOP OF DICTIONARY
6120: BE 70 87 DA VLO INITIAL VOCABULARY LINK POINTER

88 *
89 * FOLLOWING TWO BYTES PUSH UP
90 * CODE TO AVOID CODE FIELD
91 * ADDRESSES ENDING IN $XXFF,
92 * CHECK AND ALTER AS REQUIRED
93 * FOR INDIRECT JUMPS AT W-1
94 * TO OPERATE!!
95 *
6122: EA EA 96 HEX EAEA COUPLE OF 'NOP'S
97 *
98 * LIT, SCR=13, L=1
99 *
6124: 83 100 L22 HEX 83 NAME FIELD
6125: 4C 49 D4 101 DCI 'LIT' WORD NAME
6128: 00 00 102 HEX 0000 LINK FIELD, LAST=0
612A: 2C 61 103 LIT DA LIT+2 CODE FIELD
612C: B1 DE 104 LDA (IP),Y PARAMETER FIELD STARTS HERE
612E: 48 105 PHA
612F: E6 DE 106 INC IP
6131: D0 02 107 BNE L30
6133: E6 DF 108 INC IP+1
6135: B1 DE 109 L30 LDA (IP),Y
6137: E6 DE 110 L31 INC IP
6139: D0 02 111 BNE PUSH
613B: E6 DF 112 INC IP+1
613D: CA 114 PUSH DEX
613E: CA 115 DEX
613F: 95 01 117 PUT STA 1,X
6141: 68 118 PLA
6142: 95 00 119 STA 0,X

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120 *
121 * 'NEXT' IS THE ADDRESS INTERPRETER
122 * THAT MOVES FROM WORD TO WORD
123 *
6144: A0 01 124 NEXT LDY #1
6146: B1 DE 125 LDA (IP),Y FETCH CODE FIELD ADDRESS
6148: 85 E2 126 STA W+1 POINTED TO BY'IP'.
614A: 88 127 DEY
614B: B1 DE 128 LDA (IP),Y
614D: 85 E1 129 STA W
614F: 20 6F 61 130 JSR TRACE REMOVE OR 'NOP' THIS
6152: 18 131 CLC : 'JSR' TO DEFEAT TRACING.
6153: A5 DE 132 LDA IP INCREMENT 'IP' BY 2
6155: 69 02 133 ADC #2
6157: 85 DE 134 STA IP
6159: 90 02 135 BCC LS4
615B: E6 DF 136 INC IP+1
615D: 4C E0 00 137 LS4 JMP W-1
138 * JUMP TO AN INDIRECT JUMP (W)
139 * WHICH VECTORS TO CODE POINTED BY
140 * A CODE FIELD.
141 *
142 *
143 * 'CLIT' PUSHES NEXT INLINE
144 * BYTE TO DATA STACK.
145 *
6160: 84 146 L35 HEX 84
6161: 43 4C 49 147 DCI 'CLIT'
6165: 24 61 148 DA L22 LINK TO 'LIT'
6167: 69 61 149 CLIT DA CLIT+2
6169: B1 DE 150 LDA (IP),Y
616B: 48 151 PHA
616C: 98 152 TYA
616D: F0 C8 153 BEQ L31 FORCED BRANCH INTO 'LIT'
154 *
155 * TEMPORARY STEP&TRACE ROUTINES:
156 * TO BE USED UNTIL FORTH IS
157 * OPERATING, THEN 'NOP' THE
158 * 'JSR ONEKEY', A1 $61B6
159 * TO DEFEAT STEPPING, THEN
160 * 'JSR TRACE' AT $614F, TO
161 * DEFEAT TRACING, FINALLY 'JSR
162 * TCOLON', AT $66DC.
163 * AFTER THAT MAY REMOVE 'TRACE',
164 * 'TCOLON', 'PRNAM', 'DECNP' AND
165 * FOLLOWING EQUATES.
166 *
167 *
168 * MONITOR ROUTINES NEEDED BY 'TRACE'
169 *
170 XBLANK EQU $F948 'PRBLNK' S/R
171 CRLF EQU $FD8E 'CROUT' S/R
172 HEX2 EQU $FDDA 'PRBYTE' S/R
173 LETTER EQU $FDED 'COUT' S/R
174 ONEKEY EQU $FD0C 'RDKEY' S/R
175 XW EQU $12 SCRATCH REGISTER TO NEXT CFA
176 NP EQU $14 SCRATCH REGISTER TO 'NAME'
177 *
616F: 86 E5 178 TRACE STX XSAVE
6171: 20 8E FD 179 JSR CRLF
6174: A5 DF 180 LDA IP+1

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6176: 20 DA FD 181	JSR	HEX2
6179: A5 DE 182	LDA	IP
617B: 20 DA FD 183	JSR	HEX2 PRINT 'IP' INTERPERTER POINTER
617E: 20 48 F9 184	JSR	XBLANK
185 *		
6181: A0 00 186	LDY	#0
6183: B1 DE 187	LDA	(IP),Y
6185: 85 12 188	STA	XW.
6187: 85 14 189	STA	NP FETCH NEXT CODE FIELD PTR.
6189: C8 190	TNY	
618A: B1 DE 191	LDA	(IP),Y
618C: 85 13 192	STA	XW+1
618E: 85 15 193	STA	NP+1
6190: 20 D9 61 194	JSR	PRNAM PRINT DICTIONARY NAME
195 *		
6193: A5 13 196	LDA	XW+1
6195: 20 DA FD 197	JSR	HEX2 PRINT CODE FIELD ADDRESS
6198: A5 12 198	LDA	XW
619A: 20 DA FD 199	JSR	HEX2
619D: 20 48 F9 200	JSR	XBLANK
201 *		
61A0: A5 E5 202	LDA	XSAVE PRINT STACK LOCATION IN
61A2: 20 DA FD 203	JSR	HEX2 ZERO PAGE.
61A5: 20 48 F9 204	JSR	XBLANK
205 *		
61AB: A9 01 206	LDA	#\$01 PRINT RETURN STACK BOTTOM
61AA: 20 DA FD 207	JSR	HEX2 IN PAGE \$01.
61AD: RA 208	TSX	
61AE: E8 209	INX	
61AF: RA 210	TXA	
61B0: 20 DA FD 211	JSR	HEX2
61B3: 20 48 F9 212	JSR	XBLANK
213 *		
61B6: 20 0C FD 214	JSR	ONEKEY WAIT FOR OPERATOR KEYSTROKE
61B9: A6 E5 215	LDX	XSAVE TO PINPOINT EARLY PROBLEMS.
61BB: A0 00 216	LDY	#0
61FD: 60 217	RTS	
218 *		
219 *	'TCOLON' IS CALLED FROM 'DOCOLON' TO	
220 *	LABEL EACH POINT WHERE FORTH 'NESTS'	
221 *	ONE LEVEL.	
222 *		
61BE: 86 E5 223	TCOLON	STX XSAVE
61C0: A5 E1 224	LDA	W
61C2: 85 14 225	STA	NP LOCATE NAME OF CALLED WORD
61C4: A5 E2 226	LDA	W+1
61C6: 85 15 227	STA	NP+1
61C8: 20 8E FD 228	JSR	CRLF
61CB: A9 20 229	LDA	#'
61CD: 20 ED FD 230	JSR	LETTER
61D0: 20 48 F9 231	JSR	XBLANK
61D3: 20 D9 61 232	JSR	PRNAM
61D6: A6 E5 233	LDX	XSAVE
61DR: 60 234	RTS	
235 *		
236 *	PRINT NAME BY CFA IN 'NP'	
237 *		
61D9: 20 FB 61 238	PRNAM	JSR DECNP
61DC: 20 FB 61 239	JSR	DECNP
61DF: 20 FB 61 240	JSR	DECNP

61E2: A0 00	241		LDY #0
61E4: 20 FB	61	242	PN1 JSR DECNP
61E7: B1 14		243	LDA (NP),Y LOOP TILL BIT 8 IN NAME SET
61E9: 10 F9		244	BPL PN1
61EB: C8		245	PN2 INY
61EC: B1 14		246	LDA (NP),Y
61EE: 20 ED FD		247	JSR LETTER PRINTS LETTERS OF NAME
61F1: B1 14		248	LDA (NP),Y
61F3: 10 F6		249	BPL PN2
61F5: 20 48 F9		250	JSR XBLANK
61F8: A0 00		251	LDY #0
61FA: 60		252	RTS
	253	*	
	254	*	DECREMENT NAME FIELD POINTER
	255	*	
61FB: A5 14	256	DECNP	LDA NP
61FD: D0 02	257		BNE DECNPI
61FF: C6 15	258		DEC NP+1
6201: C6 14	259	DECNPI	DEC NP
6203: 60	260		RTS
	261	*	
	262	*	
6204: 0A	263	SETUP	ASL
6205: 85 D5	264		STA N-1
6207: B5 00	265	L63	LDA 0,X
6209: 99 D6 00	266		STA N,Y
620C: F8	267		INX
620D: C8	268		INY
620E: C4 D5	269		CPY N-1
6210: D0 F5	270		BNE L63
6212: A0 00	271		LDY #0
6214: 60	272		RTS
	273	*	
	274	*	'EXECUTE', SCR=14, L=11
	275	*	
6215: 87	276	L75	HEX 87
6216: 45 58 45	277		DCI 'EXECUTE'
621D: 60 61	278		DA L35
621F: 21 62	279	EXEC	DA EXEC+2
6221: B5 00	280		LDA 0,X
6223: 85 E1	281		STA W
6225: B5 01	282		LDA 1,X
6227: 85 E2	283		STA W+1
6229: E8	284		INX
622A: E8	285		INX
622B: 4C E0 00	286		JMP W-1
	287	*	
	288	*	'BRANCH', SCR=15, L=1
	289	*	
622E: 86	290	L89	HEX 86
622F: 42 52 41	291		DCI 'BRANCH'
6235: 15 62	292		DA L75
6237: 39 62	293	BRAN	DA BRAN+2
6239: 18	294		CLC
623A: B1 DE	295		LDA (IP),Y
623C: 65 DE	296		ADC IP
623E: 48	297		PHA
623F: C8	298		INY
6240: B1 DE	299		LDA (IP),Y
6242: 65 DF	300		ADC IP+1
6244: 85 DF	301		STA IP+1

6246:	68	302	PLA
6247:	85 DE	303	STA IP
6249:	4C 46 61	304	JMP NEXT+2
		305 *	
		306 *	'0BRANCH', SCR=15, L=6
		307 *	
624C:	87	308	L107 HEX 87
624D:	30 42 52	309	DCI '0BRANCH'
6254:	2E 62	310	DA L89
6256:	58 62	311	ZBRAN DA ZBRAN+2
6258:	E8	312	INX
6259:	E8	313	INX
625A:	B5 FE	314	LDA \$FE,X
625C:	15 FF	315	ORA \$FF,X
625E:	F0 D9	316	BEQ BRAN+2
		317 *	
6260:	18	318	BUMP CLC
6261:	A5 DE	319	LDA IP
6263:	69 02	320	ADC #2
6265:	85 DE	321	STA IP
6267:	90 02	322	BCC L122
6269:	E6 DF	323	INC IP+1
626B:	4C 44 61	324	L122 JMP NEXT
		325 *	
		326 *	'(LOOP)', SCR=16, L=1
		327 *	
626E:	86	328	L127 HEX 86
626F:	28 4C 4F	329	DCI '(LOOP)'
6275:	4C 62	330	DA L107
6277:	79 62	331	PLOOP DA L130
6279:	86 E5	332	L130 STX XSAVE
627B:	BA	333	TSX
627C:	FE 01 01	334	INC \$0101,X
627F:	D0 03	335	BNE PL1
6281:	FE 02 01	336	INC \$0102,X
		337 *	
6284:	18	338	PL1 CLC
6285:	BD 03 01	339	LDA \$0103,X
6288:	FD 01 01	340	SBC \$0101,X
628B:	BD 04 01	341	LDA \$0104,X
628E:	FD 02 01	342	SBC \$0102,X
		343 *	
6291:	A6 E5	344	PL2 LDX XSAVE
6293:	0A	345	ASL
6294:	90 A3	346	BCC BRAN+2
6296:	68	347	PLA
6297:	68	348	PLA
6298:	68	349	PLA
6299:	68	350	PLA
629A:	4C 60 62	351	JMP BUMP
		352 *	
		353 *	'(+LOOP)', SCR=16, L=8
		354 *	
629D:	87	355	L154 HEX 87
629E:	28 2B 4C	356	DCI '+LOOP'
62A5:	6E 62	357	DA L127
62A7:	A9 62	358	PPL00 DA PPL00+2
62A9:	E8	359	INX
62AA:	E8	360	INX

62AB: 86 E5	361	STX	XSAVE
62AD: B5 FF	362	LDA	\$FF,X
62AF: 48	363	PHA	
62B0: 48	364	PHA	
62B1: B5 FE	365	LDA	\$FE,X
62B3: BA	366	TSX	
62B4: E8	367	INX	
62B5: E8	368	INX	
62B6: 18	369	CLC	
62B7: 7D 01 01	370	ADC	\$0101,X
62BA: 9D 01 01	371	STA	\$0101,X
62BD: 68	372	PLA	
62BE: 7D 02 01	373	ADC	\$0102,X
62C1: 9D 02 01	374	STA	\$0102,X
62C4: 68	375	PLA	
62C5: 10 BD	376	BPL	PL1
62C7: 18	377	CLC	
62C8: BD 01 01	378	LDA	\$0101,X
62CB: FD 03 01	379	SBC	\$0103,X
62CE: BD 02 01	380	LDA	\$0102,X
62D1: FD 04 01	381	SBC	\$0104,X
62D4: 4C 91 62	382	JMP	PL2
	383 *		
	384 *	'(DO)', SCR=17, L=2	
	385 *		
62D7: 84	386	L185	HEX 84
62D8: 28 44 4F	387	DCI	'(DO)'
62DC: 9D 62	388	DA	L154
62DE: E0 62	389	PDO	DA PDO+2
62E0: B5 03	390	LDA	\$3,X
62E2: 48	391	PHA	
62E3: B5 02	392	LDA	\$2,X
62E5: 48	393	PHA	
62E6: B5 01	394	LDA	\$1,X
62E8: 48	395	PHA	
62E9: B5 00	396	LDA	\$0,X
62EB: 48	397	PHA	
	398 *		
62EC: E8	399	POPTWO	INX
62ED: E8	400		INX
	401 *		
62EE: E8	402	POP	INX
62EF: E8	403		INX
62F0: 4C 44 61	404	JMP	NEXT
	405 *		
	406 *	'I', SCR=17, L=9	
	407 *		
62F3: 81	408	L207	HEX 81
62F4: C9	409	ASC	"I"
62F5: D7 62	410	DA	L185
62F7: 5F 65	411	I	DA R+2 SHARE CODE FOR 'R'
	412 *		
	413 *	'DIGIT', SCR=18, L=1	
	414 *		
62F9: B5	415	L214	HEX 85
62FA: 44 49 47	416	DCI	'DIGIT'
62FF: F3 62	417	DA	L207
6301: 03 63	418	DIGIT	DA DIGIT+2
6303: 38	419		SEC
6304: B5 02	420	LDA	\$2,X
6306: E9 30	421	SBC	#\$30

6308:	30 18	422	BMI	L234
630A:	C9 0A	423	CMP	#\$A
630C:	30 07	424	BMI	L227
630E:	38	425	SEC	
630F:	E9 07	426	SBC	#\$7
6311:	C9 0A	427	CMP	#\$A
6313:	30 0D	428	BMI	L234
6315:	D5 00	429	CMP	\$0,X
6317:	10 09	430	RPL	L234
6319:	95 02	431	STA	\$2,X
631B:	A9 01	432	LDA	#\$1
631D:	48	433	PHA	
631E:	98	434	TYA	
631F:	4C 3F 61	435	JMP	PUT EXIT TRUE WITH CONVERTED VALUE
6322:	98	436	TYA	
6323:	48	437	PHA	
6324:	E8	438	INX	
6325:	E8	439	INX	
6326:	4C 3F 61	440	JMP	PUT EXIT FALSE, BAD CONVERSION
		441 *		
		442 *	'(FIND)' SCR=19, L=1	
		443 *		
6329:	86	444	L243	HEX 86
632A:	28 46 49	445	DCI	'(FIND)'
6330:	F9 62	446	DA	L214
6332:	34 63	447	PFIND	DA PFIND+2
6334:	A9 02	448	LDA	#2
6336:	20 04 62	449	JSR	SETUP
6339:	86 E5	450	STX	XSAVE
633B:	A0 00	451	L249	LDY #0
633D:	B1 D6	452	LDA	(N),Y
633F:	51 DR	453	EOR	(N+2),Y
6341:	29 3F	454	AND	#\$3F
6343:	D0 2D	455	BNE	L281
6345:	C8	456	L254	INY
6346:	B1 D6	457	LDA	(N),Y
6348:	51 D8	458	EOR	(N+2),Y
634A:	0A	459	ASL	
634B:	D0 23	460	BNE	L280
634D:	90 F6	461	BCC	L254
634F:	A6 E5	462	LDX	XSAVE
6351:	CA	463	DEX	
6352:	CA	464	DEX	
6353:	CA	465	DEX	
6354:	CA	466	DEX	
6355:	18	467	CLC	
6356:	98	468	TYA	
6357:	69 05	469	ADC	#5
6359:	65 D6	470	ADC	N
635B:	95 02	471	STA	\$2,X
635D:	A0 00	472	LDY	#0
635F:	98	473	TYA	
6360:	65 D7	474	ADC	N+1
6362:	95 03	475	STA	\$3,X
6364:	94 01	476	STY	\$1,X
6366:	B1 D6	477	LDA	(N),Y
6368:	95 00	478	STA	\$0,X
636A:	A9 01	479	LDA	#1
636C:	48	480	PHA	

636D: 4C 3D 61	481		JMP	PUSH
6370: B0 05	482	L280	BCS	L284
6372: C8	483	L281	INY	
6373: B1 D6	484		LDA	(N),Y
6375: 10 FB	485		BPL	L281
6377: C8	486	L284	INY	
6378: B1 D6	487		LDA	(N),Y
637A: AA	488		TAX	
637B: C8	489		INY	
637C: B1 D6	490		LDA	(N),Y
637E: 85 D7	491		STA	N+1
6380: 86 D6	492		STX	N
6382: 05 D6	493		DRA	N
6384: D0 B5	494		BNE	L249
6386: A6 E5	495		LDX	XSAVE
6388: A9 00	496		LDA	#0
638A: 48	497		PHA	
638B: 4C 3D 61	498		JMP	PUSH EXIT FALSE UPON NULL LINK
	499	*		
	500	*	'ENCLOSE'	SCR=20, L=1
	501	*		
638E: 87	502	L301	HEX	87
638F: 45 4E 43	503		DCI	'ENCLOSE'
6396: 29 63	504		DA	L243
6398: 9A 63	505	ENCL	DA	ENCL+2
639A: A9 02	506		LDA	#2
639C: 20 04 62	507		JSR	SETUP
639F: 8A	508		TXA	
63A0: 38	509		SEC	
63A1: E9 08	510		SBC	#8
63A3: AA	511		TAX	
63A4: 94 03	512		STY	\$3,X
63A6: 94 01	513		STY	\$1,X
63A8: 88	514		DEY	
63A9: C8	515	L313	INY	
63AA: B1 D8	516		LDA	(N+2),Y
63AC: C5 D6	517		CMP	N
63AE: F0 F9	518		BEQ	L313
63B0: 94 04	519		STY	\$4,X
63B2: B1 D8	520	L318	LDA	(N+2),Y
63B4: D0 0E	521		BNE	L327
63B6: 94 02	522		STY	\$2,X
63B8: 94 00	523		STY	\$0,X
63BA: 98	524		TYA	
63BB: D5 04	525		CMP	\$4,X
63BD: D0 02	526		BNE	L326
63BF: F6 02	527		INC	\$2,X
63C1: 4C 44 61	528	L326	JMP	NEXT
63C4: 94 02	529	L327	STY	\$2,X
63C6: C8	530		INY	
63C7: C5 D6	531		CMP	N
63C9: D0 E7	532		BNE	L318
63CB: 94 00	533		STY	\$0,X
63CD: 4C 44 61	534		JMP	NEXT
	535	*		
	536	*	'EMIT'	SCR=21, L=5
	537	*		
63D0: 84	538	L337	HEX	84
63D1: 45 4D 49	539		DCI	'EMIT'
63D5: 8E 63	540		DA	L301

63D7: 19 75	541	EMIT	DA	XEMII	VECTOR TO CODE FOR 'EMIT'
	542	*			
	543	*	'KEY'	SCR=21,	L=7
	544	*			
63D9: 83	545	L344	HEX	83	
63DA: 4B 45 D9	546		DCI	'KEY'	
63DD: D0 63	547		DA	L337	
63DF: 11 75	548	KEY	DA	XKEY	VECTOR TO CODE FOR 'KEY'
	549	*			
	550	*	'?TERINAL'	SCR=21,	L=9
	551	*			
63E1: 89	552	L351	HEX	89	
63E2: 3F 54 45	553		DCI	'?TERMINAL'	
63ER: D9 63	554		DA	L344	
63ED: 29 75	555	OTERM	DA	XOTER	VECTOR TO CODE FOR '?TERMINAL'
	556	*			
	557	*	'CR'	SCR=21,	L=11
	558	*			
63EF: 82	559	L358	HEX	82	
63F0: 43 D2	560		DCI	'CR'	
63F2: E1 63	561		DA	L351	
63F4: 23 75	562	CR	DA	XCR	
	563	*			
	564	*	'CMOVE'	SCR=22,	L=1
	565	*			
63F6: 85	566	L365	HEX	85	
63F7: 43 4D 4F	567		DCI	'CMOVE'	
63FC: EF 63	568		DA	L358	
63FE: 00 64	569	CMOVE	DA	CMOVE+2	
6400: A9 03	570		LDA	#3	
6402: 20 04 62	571		JSR	SETUP	
6405: C4 D6	572	L370	CPY	N	
6407: D0 07	573		RNE	L375	
6409: C6 D7	574		DEC	N+1	
640B: 10 03	575		BPL	L375	
640D: 4C 44 61	576		JMP	NEXT	
6410: B1 DA	577	L375	LDA	(N+4),Y	
6412: 91 D8	578		STA	(N+2),Y	
6414: C8	579		INY		
6415: D0 EE	580		BNE	L370	
6417: E6 DB	581		INC	N+5	
6419: E6 D9	582		INC	N+3	
641B: 4C 05 64	583		JMP	L370	
	584	*			
	585	*	'U*'	SCR=23,	L=1
	586	*			
641E: 82	587	L386	HEX	82	
641F: 55 AA	588		DCI	'U*'	
6421: F6 63	589		DA	L365	
6423: 25 64	590	USTAR	DA	USTAR+2	
6425: B5 02	591		LDA	\$2,X	
6427: 85 D6	592		STA	N	
6429: 94 02	593		STY	\$2,X	
642B: B5 03	594		LDA	\$3,X	
642D: 85 D7	595		STA	N+1	
642F: 94 03	596		STY	\$3,X	
6431: A0 10	597		LDY	#16	FOR 16 BITS
6433: 16 02	598	L396	ASL	\$2,X	
6435: 36 03	599		ROL	\$3,X	
6437: 36 00	600		ROL	\$0,X	

6439:	36 01	601	ROL	\$1,X
643B:	90 13	602	BCC	L411
643D:	18	603	CLC	
643E:	A5 D6	604	LDA	N
6440:	75 02	605	ADC	\$2,X
6442:	95 02	606	STA	\$2,X
6444:	A5 D7	607	LDA	N+1
6446:	75 03	608	ADC	\$3,X
6448:	95 03	609	STA	\$3,X
644A:	A9 00	610	LDA	#0
644C:	75 00	611	ADC	\$0,X
644E:	95 00	612	STA	\$0,X
6450:	88	613 L411	DEY	
6451:	D0 E0	614	BNE	L396
6453:	4C 44 61	615	JMP	NEXT
		616 *		
		617 *	'U/' SCR=23, L=1	
		618 *		
6456:	82	619 L418	HEX	82
6457:	55 AF	620	DCI	'U'
6459:	1E 64	621	DA	L386
645B:	5D 64	622 USLAS	DA	USLAS+2
645D:	B5 04	623	LDA	\$4,X
645F:	B4 02	624	LDY	\$2,X
6461:	94 04	625	STY	\$4,X
6463:	0A	626	ASL	
6464:	95 02	627	STA	\$2,X
6466:	B5 05	628	LDA	\$5,X
6468:	B4 03	629	LDY	\$3,X
646A:	94 05	630	STY	\$5,X
646C:	2A	631	ROL	
646D:	95 03	632	STA	\$3,X
646F:	A9 10	633	LDA	#16 FOR 16 BITS
6471:	85 D6	634	STA	N
6473:	36 04	635 L433	ROL	\$4,X
6475:	36 05	636	ROL	\$5,X
6477:	38	637	SEC	
6478:	B5 04	638	LDA	\$4,X
647A:	F5 00	639	SBC	\$0,X
647C:	A8	640	TAY	
647D:	B5 05	641	LDA	\$5,X
647F:	F5 01	642	SBC	\$1,X
6481:	90 04	643	BCC	L444
6483:	94 04	644	STY	\$4,X
6485:	95 05	645	STA	\$5,X
6487:	36 02	646 L444	ROL	\$2,X
6489:	36 03	647	ROL	\$3,X
648B:	C6 D6	648	DEC	N
648D:	D0 E4	649	BNE	L433
648F:	4C EE 62	650	JMP	POP
		651 *		
		652 *	'AND' SCR=25, L=2	
		653 *		
6492:	83	654 L453	HEX	83
6493:	41 4E C4	655	DCI	'AND'
6496:	56 64	656	DA	L418
6498:	9A 64	657 ANDD	DA	ANDD+2
649A:	B5 00	658	LDA	\$0,X
649C:	35 02	659	AND	\$2,X
649E:	48	660	PHA	

649F: B5 01	661	LDA	\$1,X
64A1: 35 03	662	AND	\$3,X
	663 *		
64A3: E8	664	BINARY	INX
64A4: E8	665		INX
64A5: 4C 3F 61	666	JMP	PUT
	667 *		
	668 *	'OR'	SCR=25, L=7
	669 *		
64A8: R2	670	L469	HEX 82
64A9: 4F D2	671	DCI	'OR'
64AB: 92 64	672	DA	L453
64AD: AF 64	673	OR	DA OR+2
64AF: B5 00	674	LDA	\$0,X
64B1: 15 02	675	ORA	\$2,X
64B3: 48	676	PHA	
64B4: B5 01	677	LDA	\$1,X
64B6: 15 03	678	ORA	\$3,X
64B8: E8	679	INX	
64B9: E8	680	INX	
64BA: 4C 3F 61	681	JMP	PUT
	682 *		
	683 *	'XOR'	SCR=25, L=11
	684 *		
64BD: 83	685	L484	HEX 83
64BE: 58 4F D2	686	DCI	'XOR'
64C1: A8 54	687	DA	L469
64C3: C5 64	688	XOR	DA XOR+2
64C5: B5 00	689	LDA	\$0,X
64C7: 55 02	690	EOR	\$2,X
64C9: 48	691	PHA	
64CA: B5 01	692	LDA	\$1,X
64CC: 55 03	693	EOR	\$3,X
64CE: E8	694	INX	
64CF: E8	695	INX	
64D0: 4C 3F 61	696	JMP	PUT
	697 *		
	698 *	'SP@'	SCR=26, L=1
	699 *		
64D3: 83	700	L499	HEX 83
64D4: 53 50 C0	701	DCI	'SP@'
64D7: BD 64	702	DA	L484
64D9: DB 64	703	SPAT	DA SPAT+2
64DB: RA	704		TXA
	705 *		
64DC: 48	706	PUSH0A	PHA
64DD: A9 00	707		LDA #0
64DF: 4C 3D 61	708	JMP	PUSH
	709 *		
	710 *	'SP!'	SCR=26, L=5
	711 *		
64E2: 83	712	L511	HEX 83
64E3: 53 50 A1	713	DCI	'SP!'
64E6: D3 64	714	DA	L499
64E8: EA 64	715	SPST0	DA SPST0+2
64EA: A0 06	716	LDY	#6
64EC: B1 E3	717	LDA	(UP),Y LOAD DATA STACK POINTER (X-REG)
64EE: AA	718	TAX	; FROM SILENT USER VARIABLE 'SO'

64EF:	4C 44 61	719		JMP	NEXT
	720	*			
	721	*	'RP!'	SCR=26,	L=8
	722	*			
64F2:	83	723	L522	HEX	83
64F3:	52 50 A1	724		DCI	'RP!'
64F6:	E2 64	725		DA	L511
64F8:	FA 64	726	RPSTO	DA	RPSTO+2
64FA:	86 E5	727		STX	XSAVE LOAD RETURN STACK POINTER
64FC:	A0 08	728		LDY	#8 (MACHINE STACK POINTER) FROM
64FE:	B1 E3	729		LDA	(UP),Y SILENT USER VARIABLE 'R0'.
6500:	AA	730		TAX	
6501:	9A	731		TXS	
6502:	A6 E5	732		LDX	XSAVE
6504:	4C 44 61	733		JMP	NEXT
	734	*			
	735	*	';S'	SCR=26,	L=12
	736	*			
6507:	82	737	L536	HEX	82
6508:	3B D3	738		DCI	' ;S'
650A:	F2 64	739		DA	L522
650C:	0E 65	740	SEMIS	DA	SEMIS+2
650E:	68	741		PLA	
650F:	85 DE	742		STA	IP
6511:	68	743		PLA	
6512:	85 DF	744		STA	IP+1
6514:	4C 44 61	745		JMP	NEXT
	746	*			
	747	*	'LEAVE'	SCR=27,	L=1
	748	*			
6517:	85	749	L548	HEX	85
6518:	4C 45 41	750		DCI	'LEAVE'
651D:	07 65	751		DA	L536
651F:	21 65	752	LEAVE	DA	LEAVE+2
6521:	86 E5	753		STX	XSAVE
6523:	BA	754		TSX	
6524:	BD 01 01	755		LDA	\$0101,X
6527:	9D 03 01	756		STA	\$0103,X
652A:	BD 02 01	757		LDA	\$0102,X
652D:	9D 04 01	758		STA	\$0104,X
6530:	A6 E5	759		LDX	XSAVE
6532:	4C 44 61	760		JMP	NEXT
	761	*			
	762	*	'>R'	SCR=27,	L=5
	763	*			
6535:	82	764	L563	HEX	82
6536:	3E D2	765		DCI	'>R'
6538:	17 65	766		DA	L548
653A:	3C 65	767	TOR	DA	TOR+2
653C:	B5 01	768		LDA	\$1,X MOVE HIGH BYTE
653E:	48	769		PHA	
653F:	B5 00	770		LDA	\$0,X THEN LOW BYTE
6541:	48	771		PHA	; TO RETURN STACK
6542:	E8	772		INX	
6543:	E8	773		INX	;POPPING OFF DATA STACK.
6544:	4C 44 61	774		JMP	NEXT
	775	*			
	776	*	'R>'	SCR=27,	L=8
	777	*			
6547:	82	778	L577	HEX	82
6548:	52 BE	779		DCI	'R>'

654A: 35 65	780	DA	L563
654C: 4E 65	781	RFROM	DA RFROM+2
654E: CA	782	DEX	;MAKE ROOM ON DATA STACK
654F: CA	783	DEX	
6550: 68	784	PLA	;HIGH BYTE
6551: 95 00	785	STA \$0,X	
6553: 68	786	PLA	; THEN LOW BYTE
6554: 95 01	787	STA \$1,X	RESTORED TO DATA STACK.
6556: 4C 44 61	788	JMP	NEXT
	789 *		
	790 *	'R'	SCR=27, L=11
	791 *		
6559: 81	792	L591	HEX 81
655A: D2	793	ASC	"R"
655B: 47 65	794	DA	L577
655D: 5F 65	795	R	DA R+2
655F: 86 E5	796	STX	XSAVE
6561: BA	797	TSX	;ADDRESS RETURN STACK
6562: BD 01 01	798	LDA	\$0101,X COPY BOTTOM VALUE
6565: 48	799	PHA	;TO DATA STACK.
6566: BD 02 01	800	LDA	\$0102,X
6569: A6 E5	801	LDX	XSAVE
656B: 4C 3D 61	802	JMP	PUSH
	803 *		
	804 *	'0='	SCR=28, L=2
	805 *		
656E: 82	806	L605	HEX 82
656F: 30 BD	807	DCI	'0='
6571: 59 65	808	DA	L591
6573: 75 65	809	ZEOU	DA ZEOU+2
6575: B5 00	810	LDA	\$0,X
6577: 15 01	811	ORA	\$1,X
6579: 94 01	812	STY	\$1,X
657B: D0 01	813	BNE	L613
657D: C8	814	INY	
657E: 94 00	815	L613	STY \$0,X
6580: 4C 44 61	816	JMP	NEXT
	817 *		
	818 *	'0<'	SCR=28, L=6
	819 *		
6583: 82	820	L619	HEX 82
6584: 30 BC	821	DCI	'0<'
6586: 6E 65	822	DA	L605
6588: RA 65	823	ZLESS	DA ZLESS+2
658A: 16 01	824	ASL	\$1,X
658C: 98	825	TYA	
658D: 2A	826	ROL	
658E: 94 01	827	STY	\$1,X
6590: 95 00	828	STA	\$0,X
6592: 4C 44 61	829	JMP	NEXT
	830 *		
	831 *	'+'	SCR=29, L=1
	832 *		
6595: 81	833	L632	HEX 81
6596: AB	834	ASC	"+"
6597: 83 65	835	DA	L619
6599: 9B 65	836	PLUS	DA PLUS+2
659B: 18	837	CLC	
659C: B5 00	838	LDA	\$0,X
659E: 75 02	839	ADC	\$2,X
65A0: 95 02	840	STA	\$2,X

65A2:	B5 01	841	LDA	\$1,X
65A4:	75 03	842	ADC	\$3,X
65A6:	95 03	843	STA	\$3,X
65A8:	ER	844	INX	
65A9:	E8	845	INX	
65AA:	4C 44 61	846	JMP	NEXT
		847 *		
		848 *	'D+' SCR=29, L=4	
		849 *		
65AD:	82	850 L649	HEX	82
65AE:	44 AB	851	DCI	'D+'
65B0:	95 65	852	DA	L632
65B2:	B4 65	853 DPLUS	DA	DPLUS+2
65B4:	18	854	CLC	
65B5:	B5 02	855	LDA	\$2,X
65B7:	75 06	856	ADC	\$6,X
65B9:	95 06	857	STA	\$6,X
65BB:	B5 03	858	LDA	\$3,X
65BD:	75 07	859	ADC	\$7,X
65BF:	95 07	860	STA	\$7,X
65C1:	B5 00	861	LDA	\$0,X
65C3:	75 04	862	ADC	\$4,X
65C5:	95 04	863	STA	\$4,X
65C7:	B5 01	864	LDA	\$1,X
65C9:	75 05	865	ADC	\$5,X
65CB:	95 05	866	STA	\$5,X
65CD:	4C EC 62	867	JMP	P0PTWO
		868 *		
		869 *	'MINUS' SCR=29, L=9	
		870 *		
65D0:	85	871 L670	HEX	85
65D1:	4D 49 4E	872	DCI	'MINUS'
65D6:	AD 65	873	DA	L649
65D8:	DA 65	874 MINUS	DA	MINUS+2
65DA:	38	875	SEC	
65DB:	98	876	TYA	
65DC:	F5 00	877	SBC	\$0,X
65DE:	95 00	878	STA	\$0,X
65E0:	98	879	TYA	
65E1:	F5 01	880	SBC	\$1,X
65E3:	95 01	881	STA	\$1,X
65E5:	4C 44 61	882	JMP	NEXT
		883 *		
		884 *	'DMINUS' SCR=29, L=12	
		885 *		
65E8:	86	886 L685	HEX	86
65E9:	44 4D 49	887	DCI	'DMINUS'
65EF:	D0 65	888	DA	L670
65F1:	F3 65	889 DMINU	DA	DMINU+2
65F3:	38	890	SEC	
65F4:	98	891	TYA	
65F5:	F5 02	892	SBC	\$2,X
65F7:	95 02	893	STA	\$2,X
65F9:	98	894	TYA	
65FA:	F5 03	895	SBC	\$3,X
65FC:	95 03	896	STA	\$3,X
65FE:	4C DB 65	897	JMP	MINUS+3
		898 *		
		899 *	'OVER' SCR=30, L=1	
		900 *		

6601: 84	901	L700	HEX	84
6602: 4F	56 45	902	DCI	'OVER'
6606: E8	65	903	DA	L685
6608: 0A	66	904	OVER	DA OVER+2
660A: B5	02	905	LDA	\$2,X
660C: 48		906	PHA	
660D: B5	03	907	LDA	\$3,X
660F: 4C	3D 61	908	JMP	PUSH
	909	*		
	910	*	'DROP'	SCR=30, L=4
	911	*		
6612: 84	912	L711	HEX	84
6613: 44 52	4F	913	DCI	'DROP'
6617: 01	66	914	DA	L700
6619: EE	62	915	DROP	DA POP
	916	*		
	917	*	'SWAP'	SCR=30, L=8
	918	*		
661B: 84	919	L718	HEX	84
661C: 53 57 41	920		DCI	'SWAP'
6620: 12	66	921	DA	L711
6622: 24	66	922	SWAP	DA SWAP+2
6624: B5	02	923	LDA	\$2,X
6626: 48		924	PHA	
6627: B5	00	925	LDA	\$0,X
6629: 95	02	926	STA	\$2,X
662B: B5	03	927	LDA	\$3,X
662D: B4	01	928	LDY	\$1,X
662F: 94	03	929	STY	\$3,X
6631: 4C 3F 61	930		JMP	PUT
	931	*		
	932	*	'DUP'	SCR=30, L=12
	933	*		
6634: 83	934	L733	HEX	83
6635: 44 55	D0	935	DCI	'DUP'
6638: 18	66	936	DA	L718
663A: 3C	66	937	DUP	DA DUP+2
663C: B5	00	938	LDA	\$0,X
663E: 48		939	PHA	
663F: B5	01	940	LDA	\$1,X
6641: 4C 3D 61	941		JMP	PUSH
	942	*		
	943	*	'+!'	SCR=31, L=2
	944	*		
6644: 82	945	L744	HEX	82
6645: 28 A1	946		DCI	'+!'
6647: 34	66	947	DA	L733
6649: 4B	66	948	PSTOR	DA PSTOR+2
664B: 18		949	CLC	
664C: A1	00	950	LDA	(0,X)
664E: 75	02	951	ADC	\$2,X
6650: 81	00	952	STA	(0,X)
6652: F6	00	953	INC	\$0,X
6654: D0	02	954	BNE	L754
6656: F6	01	955	INC	\$1,X
6658: A1	00	956	LDA	(0,X)
665A: 75	03	957	ADC	\$3,X
665C: 81	00	958	STA	(0,X)
665E: 4C EC 62	959		JMP	POPTWO

	960	*	
	961	*	'TOGGLE' SCR=31, L=7
	962	*	
6661:	86	963	L762 HEX 86
6662:	54 4F 47	964	DCI 'TOGGLE'
6668:	44 66	965	DA L744
666A:	6C 66	966	TOGGL DA TOGGL+2
666C:	A1 02	967	LDA (2,X) COMPLEMENT BITS IN MEMORY ADDRESS
666E:	55 00	968	EOR \$0,X SECOND ON STACK, BY PATTERN
6670:	81 02	969	STA (2,X) ON BOTTOM OF STACK.
6672:	4C EC 62	970	JMP POPTWO
		971	*
		972	*
		973	*
6675:	81	974	L773 HEX 81
6676:	C0	975	ASC "0"
6677:	61 66	976	DA L762
6679:	7B 66	977	AT DA A1+2
667B:	A1 00	978	LDA (0,X)
667D:	48	979	PHA
667E:	F6 00	980	INC \$0,X
6680:	D0 02	981	BNE L781
6682:	F6 01	982	INC \$1,X
6684:	A1 00	983	L781 LDA (0,X)
6686:	4C 3F 61	984	JMP PUT
		985	*
		986	*
		987	*
6689:	82	988	L787 HEX 82
668A:	43 C0	989	DCI 'C@'
668C:	75 66	990	DA L773
668E:	90 66	991	CAT DA CAT+2
6690:	A1 00	992	LDA (0,X) FETCH BYTE ADDRESSED BY BOTTOM
6692:	95 00	993	STA \$0,X OF STACK TO STACK, ZEROING
6694:	94 01	994	STY \$1,X THE HIGH BYTE.
6696:	4C 44 61	995	JMP NEXT
		996	*
		997	*
		998	*** SCR=32, L=8
6699:	81	L798	HEX 81
669A:	A1	999	ASC "!"
669B:	89 66	1000	DA L787
669D:	9F 66	1001	STORE DA STORE+2
669F:	B5 02	1002	LDA \$2,X
66A1:	81 00	1003	STA (0,X) STORE SECOND 16 BIT VALUE ON ST
		ACK	
66A3:	F6 00	1004	INC \$0,X TO MEMORY AS ADDRESSED BY
66A5:	D0 02	1005	BNE L806 BOTTOM OF STACK.
66A7:	F6 01	1006	INC \$1,X
66A9:	B5 03	1007	L806 LDA \$3,X
66AB:	81 00	1008	STA (0,X)
66AD:	4C EC 62	1009	JMP POPTWO
		1010	*
		1011	*
		1012	*
66B0:	82	1013	L813 HEX 82
66B1:	43 A1	1014	DCI 'C!'
66B3:	99 66	1015	DA L798
66B5:	B7 66	1016	CSTOR DA CSTOR+2
66B7:	B5 02	1017	LDA \$2,X
66B9:	81 00	1018	STA (0,X)
66BB:	4C EC 62	1019	JMP POPTWO

	1020 *		
	1021 *	'::'	SCR=33, L=2
	1022 *		
66BE:	C1	1023 L823	HEX C1
66BF:	BA	1024	ASC ":"
66C0:	B0 66	1025	DA L813
66C2:	D6 66	1026 COLON	DA DOCOL
66C4:	42 6A	1027	DA QEXEC
66C6:	FE 69	1028	DA SCSP
66C8:	58 68	1029	DA CURR
66CA:	79 66	1030	DA AT
66CC:	4B 68	1031	DA CON
66CE:	9D 66	1032	DA STORE
66D0:	36 6F	1033	DA CREAT
66D2:	C3 6A	1034	DA RBRAC
66D4:	12 6B	1035	DA PSCOD
	1036 *		
66D6:	A5 DF	1037 DOCOL	LDA IP+1
66D8:	48	1038	PHA
66D9:	A5 DE	1039	LDA IP
66DB:	48	1040	PHA
66DC:	20 BE 61	1041	JSR TCOLON MARK THE START OF ; A TRACED : DEFINITION.
66DF:	18	1042	CLC
66E0:	A5 E1	1043	LDA W
66E2:	69 02	1044	ADC #2
66E4:	85 DE	1045	STA IP
66E6:	98	1046	TYA
66E7:	65 E2	1047	ADC W+1
66E9:	85 DF	1048	STA IP+1
66EB:	4C 44 61	1049	JMP NEXT
	1050 *		
	1051 *	';'	SCR=33, L=9
	1052 *		
66EE:	C1	1053 L853	HEX C1
66EF:	BB	1054	ASC " ;"
66F0:	BE 66	1055	DA L823
66F2:	D6 66	1056	DA DOCOL
66F4:	6A 6A	1057	DA QCSP
66F6:	9F 6A	1058	DA COMP
66F8:	0C 65	1059	DA SEMIS
66FA:	D7 6A	1060	DA SMUDG
66FC:	B5 6A	1061	DA LBRAC
66FE:	0C 65	1062	DA SEMIS
	1063 *		
	1064 *	'CONSTANT'	SCR=34, L=1
	1065 *		
6700:	88	1066 L867	HEX 88
6701:	43 4F 4E	1067	DCI 'CONSTANT'
6709:	EE 66	1068	DA L853
670B:	D6 66	1069 CONST	DA DOCOL
670D:	36 6F	1070	DA CREAT
670F:	D7 6A	1071	DA SMUDG
6711:	D9 68	1072	DA COMMA
6713:	12 6B	1073	DA PSCOD
	1074 *		
6715:	A0 02	1075 DOCON	LDY #2
6717:	B1 E1	1076	LDA (W),Y
6719:	48	1077	PHA
671A:	C8	1078	INY
671B:	B1 E1	1079	LDA (W),Y
671D:	4C 3D 61	1080	JMP PUSH

	1081 *	
	1082 *	'VARIABLE' SCR=34, L=5
	1083 *	
6720: 88	1084 L885	HEX 88
6721: 56 41 52	1085	DCI 'VARIABLE'
6729: 00 67	1086	DA L867
672B: D6 66	1087 VAR	DA DOCOL
672D: 0B 67	1088	DA CONST
672F: 12 6B	1089	DA PSCOD
	1090 *	
6731: 18	1091 DOVAR	CLC
6732: A5 E1	1092	LDA W
6734: 69 02	1093	ADC #2
6736: 48	1094	PHA
6737: 98	1095	TYA
6738: 65 E2	1096	ADC W+1
673A: 4C 3D 61	1097	JMP PUSH
	1098 *	
	1099 *	'USER' SCR=34, L=10
	1100 *	
673D: 84	1101 L902	HEX 84
673E: 55 53 45	1102	DCI 'USER'
6742: 20 67	1103	DA L885
6744: D6 66	1104 USER	DA DOCOL
6746: 0B 67	1105	DA CONST
6748: 12 6B	1106	DA PSCOD
	1107 *	
674A: A0 02	1108 DOUSE	LDY #2
674C: 18	1109	CLC
674D: B1 E1	1110	LDA (W),Y
674F: 65 E3	1111	ADC UP
6751: 48	1112	PHA
6752: A9 00	1113	LDA #0
6754: 65 E4	1114	ADC UP+1
6756: 4C 3D 61	1115	JMP PUSH
	1116 *	
	1117 *	'0' SCR=35, L=2
	1118 *	
6759: 81	1119 L920	HEX 81
675A: B0	1120	ASC "0"
675B: 3D 67	1121	DA L902
675D: 15 67	1122 ZERO	DA DOCON
675F: 00	1123	HEX 00
6760: 00	1124	HEX 00
	1125 *	
	1126 *	'1' SCR=35, L=2
	1127 *	
6761: 81	1128 L928	HEX 81
6762: B1	1129	ASC "1"
6763: 59 67	1130	DA L920
6765: 15 67	1131 ONE	DA DOCON
6767: 01	1132	HEX 01
6768: 00	1133	HEX 00
	1134 *	
	1135 *	'2' SCR=35, L=3
	1136 *	
6769: 81	1137 L936	HEX 81
676A: B2	1138	ASC "2"
676B: 61 67	1139	DA L928

676D: 15 67	1140 TWO	DA	DOCON
676F: 02	1141	HEX	02
6770: 00	1142	HEX	00
	1143 *		
	1144 *	'3'	SCR=35, L=3
	1145 *		
6771: 81	1146 L944	HEX	81
6772: B3	1147	ASC	"3"
6773: 69 67	1148	DA	L936
6775: 15 67	1149 THREE	DA	DOCON
6777: 03	1150	HEX	03
6778: 00	1151	HEX	00
	1152 *		
	1153 *	'BL'	SCR=35, L=4
	1154 *		
6779: 82	1155 L952	HEX	82
677A: 42 CC	1156	DCI	'BL'
677C: 71 67	1157	DA	L944
677E: 15 67	1158 BL	DA	DOCON
6780: 20 00	1159	HEX	2000
	1160 *		
	1161 *	'C/L'	SCR=35, L=5
	1162 *		
6782: 83	1163 L960	HEX	83
6783: 43 2F CC	1164	DCI	'C/L'
6786: 79 67	1165	DA	L952
6788: 15 67	1166 CSLL	DA	DOCON
678A: 40	1167	DW	64 CHARACTERS PER LINE
678B: 00	1168	HEX	00
	1169 *		
	1170 *	'FIRST'	SCR=35, L=7
	1171 *		
678C: 85	1172 L968	HEX	85
678D: 46 49 52	1173	DCI	'FIRST'
6792: 82 67	1174	DA	L960
6794: 15 67	1175 FIRST	DA	DOCON
6796: 70 91	1176	DA	DAREA BOTTOM OF DISK BUFFER AREA
	1177 *		
	1178 *	'LIMIT'	SCR=35, L=8
	1179 *		
6798: 85	1180 L976	HEX	85
6799: 4C 49 4D	1181	DCI	'LIMIT'
679E: 8C 67	1182	DA	L968
67A0: 15 67	1183 LIMIT	DA	DOCON
67A2: 80 95	1184	DA	UAREA BUFFERS END AT USER AREA
	1185 *		
	1186 *	'B/BUF'	SCR=35, L=9
	1187 *		
67A4: 85	1188 L984	HEX	85
67A5: 42 2F 42	1189	DCI	'B/BUF'
67AA: 98 67	1190	DA	L976
67AC: 15 67	1191 BBUF	DA	DOCON
67AE: 00 01	1192	DA	SSIZE BYTES PER BUFFER
	1193 *		
	1194 *	'B/SCR'	SCR=35, L=10
	1195 *		
67B0: 85	1196 L992	HEX	85
67B1: 42 2F 53	1197	DCI	'B/SCR'
67B6: A4 67	1198	DA	L984
67B8: 15 67	1199 BSCR	DA	DOCON
67BA: 04 00	1200	HEX	0400 BLOCKS TO MAKE ONE SCREEN

	1201 *		
	1202 *	'+ORIGIN'	SCR=35, L=12
	1203 *		
67BC:	87	1204 L1000	HEX 87
67BD:	2B 4F 52	1205	DCI '+ORIGIN'
67C4:	B0 67	1206	DA L992
67C6:	D6 66	1207 P0RIG	DA DOCOL
67CR:	2A 61	1208	DA LIT
67CA:	00 61	1209	DA ORIG
67CC:	99 65	1210	DA PLUS
67CE:	0C 65	1211	DA SEMIS
	1212 *		
	1213 *	'TIB'	SCR=36, L=4
	1214 *		
67D0:	83	1215 L1010	HEX 83
67D1:	54 49 C2	1216	DCI 'TIB'
67D4:	BC 67	1217	DA L1000
67D6:	4A 67	1218 TIB	DA DOUSE
67D8:	0A	1219	HEX 0A
	1220 *		
	1221 *	'WIDTH'	SCR=36, L=5
	1222 *		
67D9:	85	1223 L1018	HEX 85
67DA:	57 49 44	1224	DCI 'WIDTH'
67DF:	D0 67	1225	DA L1010
67E1:	4A 67	1226 WIDTH	DA DOUSE
67E3:	0C	1227	HEX 0C
	1228 *		
	1229 *	'WARNING'	SCR=36, L=6
	1230 *		
67E4:	87	1231 L1026	HEX 87
67E5:	57 41 52	1232	DCI 'WARNING'
67EC:	D9 67	1233	DA L1018
67EE:	4A 67	1234 WARN	DA DOUSE
67F0:	0E	1235	HEX 0E
	1236 *		
	1237 *	'FENCE'	SCR=36, L=7
	1238 *		
67F1:	85	1239 L1034	HEX 85
67F2:	46 45 4E	1240	DCI 'FENCE'
67F7:	E4 67	1241	DA L1026
67F9:	4A 67	1242 FENCE	DA DOUSE
67FB:	10	1243	HEX 10
	1244 *		
	1245 *	'DP'	SCR=36, L=8
	1246 *		
67FC:	82	1247 L1042	HEX 82
67FD:	44 D0	1248	DCI 'DP'
67FF:	F1 67	1249	DA L1034
6801:	4A 67	1250 DP	DA DOUSE
6803:	12	1251	HEX 12
	1252 *		
	1253 *	'VOC-LINK'	SCR=36, L=9
	1254 *		
6804:	88	1255 L1050	HEX 88
6805:	56 4F 43	1256	DCI 'VOC-LINK'
680D:	FC 67	1257	DA L1042
680F:	4A 67	1258 VOCL	DA DOUSE
6811:	14	1259	HEX 14

	1260 *		
	1261 *	'BLK'	SCR=36, L=10
	1262 *		
6812:	83	1263 L1058	HEX 83
6813:	42 4C CB	1264	DCI 'BLK'
6816:	04 68	1265	DA L1050
6818:	4A 67	1266 BLK	DA DOUSE
681A:	16	1267	HEX 16
	1268 *		
	1269 *	'IN'	SCR=36, L=11
	1270 *		
681B:	82	1271 L1066	HEX 82
681C:	49 CE	1272	DCI 'IN'
681E:	12 68	1273	DA L1058
6820:	4A 67	1274 IN	DA DOUSE
6822:	18	1275	HEX 18
	1276 *		
	1277 *	'OUT'	SCR=36, L=12
	1278 *		
6823:	83	1279 L1074	HEX 83
6824:	4F 55 D4	1280	DCI 'OUT'
6827:	1B 68	1281	DA L1066
6829:	4A 67	1282 OUT	DA DOUSE
682B:	1A	1283	HEX 1A
	1284 *		
	1285 *	'SCR'	SCR=36, L=13
	1286 *		
682C:	83	1287 L1084	HEX 83
682D:	53 43 D2	1288	DCI 'SCR'
6830:	23 68	1289	DA L1074
6832:	4A 67	1290 SCR	DA DOUSE
6834:	1C	1291	HEX 1C
	1292 *		
	1293 *	'OFFSET'	SCR=37, L=1
	1294 *		
6835:	86	1295 L1090	HEX 86
6836:	4F 46 46	1296	DCI 'OFFSET'
683C:	2C 68	1297	DA L1084
683E:	4A 67	1298 OFSET	DA DOUSE
6840:	1E	1299	HEX 1E
	1300 *		
	1301 *	'CONTEXT'	SCR=37, L=2
	1302 *		
6841:	87	1303 L1098	HEX 87
6842:	43 4F 4E	1304	DCI 'CONTEXT'
6849:	35 68	1305	DA L1090
684B:	4A 67	1306 CON	DA DOUSE
684D:	20	1307	HEX 20
	1308 *		
	1309 *	'CURRENT'	SCR=37, L=3
	1310 *		
684E:	87	1311 L1106	HEX 87
684F:	43 55 52	1312	DCI 'CURRENT'
6856:	41 68	1313	DA L1098
6858:	4A 67	1314 CURR	DA DOUSE
685A:	22	1315	HEX 22
	1316 *		
	1317 *	'STATE'	SCR=37, L=4
685B:	85	1318 L1114	HEX 85
685C:	53 54 41	1319	DCI 'STATE'
6861:	4E 68	1320	DA L1106

6863: 4A 67	1321 STATE	DA	DOUSE
6865: 24	1322	HEX	24
	1323 *		
	1324 *	'BASE'	SCR=37, L=5
	1325 *		
6866: 84	1326 L1122	HEX	84
6867: 42 41 53	1327	DCI	'BASE'
6868: 5B 68	1328	DA	L1114
686D: 4A 67	1329 BASE	DA	DOUSE
686F: 26	1330	HEX	26
	1331 *		
	1332 *	'DPL'	SCR=37, L=6
	1333 *		
6870: 83	1334 L1130,	HEX	83
6871: 44 50 CC	1335	DCI	'DPL'
6874: 66 68	1336	DA	L1122
6876: 4A 67	1337 DPL	DA	DOUSE
6878: 28	1338	HEX	28
	1339 *		
	1340 *	'FLD'	SCR=37, L=7
	1341 *		
6879: 83	1342 L1138	HEX	83
687A: 46 4C C4	1343	DCI	'FLD'
687D: 70 68	1344	DA	L1130
687F: 4A 67	1345 FLD	DA	DOUSE
6881: 2A	1346	HEX	2A
	1347 *		
	1348 *	'CSP'	SCR=37, L=8
	1349 *		
6882: 83	1350 L1146	HEX	83
6883: 43 53 D0	1351	DCI	'CSP'
6886: 79 68	1352	DA	L1138
6888: 4A 67	1353 CSP	DA	DOUSE
688A: 2C	1354	HEX	2C
	1355 *		
	1356 *	'R#'	SCR=37, L=9
	1357 *		
688B: 82	1358 L1154	HEX	82
688C: 52 A3	1359	DCI	'R#'
688E: 82 68	1360	DA	L1146
6890: 4A 67	1361 RNUM	DA	DOUSE
6892: 2E	1362	HEX	2E
	1363 *		
	1364 *	'HLD'	SCR=37, L=10
	1365 *		
6893: 83	1366 L1162	HEX	83
6894: 48 4C C4	1367	DCI	'HLD'
6897: 8B 68	1368	DA	L1154
6899: 4A 67	1369 HLD	DA	DOUSE
689B: 30	1370	HEX	30
	1371 *		
	1372 *	'I+'	SCR=38, L=1
	1373 *		
689C: 82	1374 L1170	HEX	82
689D: 31 AB	1375	DCI	'I+'
689F: 93 68	1376	DA	L1162
68A1: D6 66	1377 ONEP	DA	DOCOL
68A3: 65 67	1378	DA	ONE
68A5: 99 65	1379	DA	PLUS
68A7: 0C 65	1380	DA	SEMIS

		1381 *	
		1382 *	'2+' SCR=38, L=2
		1383 *	
68A9:	82	1384 L1180	HEX 82
68AA:	32 AB	1385	DCI '2+'
68AC:	9C 68	1386	DA L1170
68AE:	D6 66	1387 TWOP	DA DOCOL
68B0:	6D 67	1388	DA TWO
68B2:	99 65	1389	DA PLUS
68B4:	0C 65	1390	DA SEMIS
		1391 *	
		1392 *	'HERE' SCR=38, L=3
		1393 *	
68B6:	84	1394 L1190	HEX 84
68B7:	48 45 52	1395	DCI 'HERE'
68B8:	A9 68	1396	DA L1180
68BD:	D6 66	1397 HERE	DA DOCOL
68BF:	01 68	1398	DA DP
68C1:	79 66	1399	DA AT
68C3:	0C 65	1400	DA SEMIS
		1401 *	
		1402 *	'ALLOT' SCR=38, L=4
		1403 *	
68C5:	85	1404 L1200	HEX 85
68C6:	41 4C 4C	1405	DCI 'ALLOT'
68CB:	B6 68	1406	DA L1190
68CD:	D6 66	1407 ALLOT	DA DOCOL
68CF:	01 68	1408	DA DP
68D1:	49 66	1409	DA PSTOR
68D3:	0C 65	1410	DA SEMIS
		1411 *	
		1412 *	', ' SCR=38, L=5
		1413 *	
68D5:	81	1414 L1210	HEX 81
68D6:	AC	1415	ASC ","
68D7:	C5 68	1416	DA L1200
68D9:	D6 66	1417 COMMA	DA DOCOL
68DB:	BD 68	1418	DA HERE
68DD:	9D 66	1419	DA STORE
68DF:	6D 67	1420	DA TWO
68E1:	CD 68	1421	DA ALLOT
68E3:	0C 65	1422	DA SEMIS
		1423 *	
		1424 *	'C,' SCR=38, L=6
		1425 *	
68E5:	82	1426 L1222	HEX 82
68E6:	43 AC	1427	DCI 'C,'
68E8:	D5 68	1428	DA L1210
68EA:	D6 66	1429 CCOMM	DA DOCOL
68EC:	BD 68	1430	DA HERE
68EE:	B5 65	1431	DA CSTOR
68F0:	65 67	1432	DA ONE
68F2:	CD 68	1433	DA ALLOT
68F4:	0C 65	1434	DA SEMIS
		1435 *	
		1436 *	'-' SCR=38, L=7
		1437 *	
68F6:	81	1438 L1234	HEX 81
68F7:	AD	1439	ASC "-"
68F8:	E5 68	1440	DA L1222

68FA: D6 66	1441	SUB	DA	DOCOL
68FC: DR 65	1442		DA	MINUS
68FE: 99 65	1443		DA	PLUS
6900: 0C 65	1444		DA	SEMIS
	1445	*		
	1446	*	'='	SCR=38, L=8
	1447	*		
6902: 81	1448	L1244	HEX	81
6903: RD	1449		ASC	"="
6904: F6 68	1450		DA	L1234
6906: D6 66	1451	EQUAL	DA	DOCOL
6908: FA 68	1452		DA	SUB
690A: 73 65	1453		DA	ZEQU
690C: 0C 65	1454		DA	SEMIS
	1455	*		
	1456	*	'U<'	
	1457	*		
690E: 82	1458	L1246	HEX	82
690F: 55 BC	1459		DCI	'U<'
6911: 02 69	1460		DA	L1244
6913: D6 66	1461	ULESS	DA	DOCOL
6915: FA 68	1462		DA	SUB SUBTRACT TWO VALUES
6917: 88 65	1463		DA	ZLESS TEST SIGN
6919: 0C 65	1464		DA	SEMIS
	1465	*		
	1466	*	'<'	SCR=38, L=9
	1467	*		ALTERED FROM MODEL
	1468	*		
691B: 81	1469	L1254	HEX	81
691C: RC	1470		ASC	"<"
691D: 0E 69	1471		DA	L1246
691F: 21 69	1472	LESS	DA	LESS+2
6921: 38	1473		SEC	
6922: B5 02	1474		LDA	\$2,X
6924: F5 00	1475		SBC	\$0,X SUBTRACT
6926: B5 03	1476		LDA	\$3,X
6928: F5 01	1477		SBC	\$1,X
692A: 94 03	1478		STY	\$3,X ZERO HI BYTE
692C: 50 02	1479		BVC	L1258
692E: 49 80	1480		EOR	#\$80 CORRECT OVERFLOW
6930: 10 01	1481	L1258	BPL	L1260
6932: C8	1482		INY	;INVERT BOOLEAN
6933: 94 02	1483	L1260	STY	\$2,X LEAVE BOOLEAN
6935: 4C EE 62	1484		JMP	POP
	1485	*		
	1486	*	'>'	SCR=38, L=10
	1487	*		
6938: 81	1488	L1264	HEX	81
6939: BE	1489		ASC	">"
693A: 1B 69	1490		DA	L1254
693C: D6 66	1491	GREAT	DA	DOCOL
693E: 22 66	1492		DA	SWAP
6940: 1F 69	1493		DA	LESS
6942: 0C 65	1494		DA	SEMIS
	1495	*		
	1496	*	'ROT'	SCR=38, L=11
	1497	*		
6944: 83	1498	L1274	HEX	83
6945: 52 4F D4	1499		DCI	'ROT'
6948: 38 69	1500		DA	L1264

694A: D6 66	1501 ROT	DA	DOCOL
694C: 3A 65	1502	DA	TOR
694E: 22 66	1503	DA	SWAP
6950: 4C 65	1504	DA	RFROM
6952: 22 66	1505	DA	SWAP
6954: 0C 65	1506	DA	SEMS
	1507 *		
	1508 * 'SPACE' SCR=38, L=12		
	1509 *		
6956: 85	1510 L1286	HEX	85
6957: 53 50 41	1511	DCI	'SPACE'
695C: 44 69	1512	DA	L1274
695E: D6 66	1513 SPACE	DA	DOCOL
6960: 7E 67	1514	DA	BL
6962: D7 63	1515	DA	EMIT
6964: 0C 65	1516	DA	SEMS
	1517 *		
	1518 * '-DUP' SCR=38, L=13		
	1519 *		
6966: 84	1520 L1296	HEX	84
6967: 2D 44 55	1521	DCI	'-DUP'
696B: 56 69	1522	DA	L1286
696D: D6 66	1523 DDUP	DA	DOCOL
696F: 3A 66	1524	DA	DUP
6971: 56 62	1525	DA	ZBRAN
6973: 04 00	1526 L1301	HEX	0400 L1303-L1301
6975: 3A 66	1527	DA	DUP
6977: 0C 65	1528 L1303	DA	SEMS
	1529 *		
	1530 * 'TRAVERSE' SCR=39, L=1		
	1531 *		
6979: 88	1532 L1308	HEX	88
697A: 54 52 41	1533	DCI	'TRAVERSE'
6982: 66 69	1534	DA	L1296
6984: D6 66	1535 TRAV	DA	DOCOL
6986: 22 66	1536	DA	SWAP
6988: 08 66	1537 L1312	DA	OVER
698A: 99 65	1538	DA	PLUS
698C: 67 61	1539	DA	CLIT
698E: 7F	1540	HEX	7F
698F: 08 66	1541	DA	OVER
6991: 8E 66	1542	DA	CAT
6993: 1F 69	1543	DA	LESS
6995: 56 62	1544	DA	ZBRAN
6997: F1 FF	1545 L1320	HEX	F1FF \$FFF1=L1312-L1320
6999: 22 66	1546	DA	SWAP
A99B: 19 66	1547	DA	DROP
A99D: 0C 65	1548	DA	SEMS
	1549 *		
	1550 * 'LATEST' SCR=39, L=6		
	1551 *		
699F: 86	1552 L1328	HEX	86
69A1: 4C 41 54	1553	DCI	'LATEST'
69A6: 79 69	1554	DA	L1308
69AR: D6 66	1555 LATES	DA	DOCOL
69AA: 58 68	1556	DA	CURR
69AC: 79 66	1557	DA	AT
69AE: 79 66	1558	DA	AT
69B0: 0C 65	1559	DA	SEMS

	1560 *		
	1561 *	'LFA'	SCR=39, L=11
	1562 *		
69B2:	83	1563 L1339	HEX 83
69B3:	4C 46 C1	1564	DCI 'LFA'
69B6:	9F 69	1565	DA L1328
69B8:	D6 66	1566 LFA	DA DOCOL
69B9:	67 61	1567	DA CLIT
69BC:	04	1568	HEX 04
69BD:	FA 68	1569	DA SUB
69BF:	0C 65	1570	DA SEMIS
	1571 *		
	1572 *	'CFA'	SCR=39, L=12
	1573 *		
69C1:	83	1574 L1350	HEX 83
69C2:	43 46 C1	1575	DCI 'CFA'
69C5:	B2 69	1576	DA L1339
69C7:	D6 66	1577 CFA	DA DOCOL
69C9:	6D 67	1578	DA TWO
69CB:	FA 68	1579	DA SUB
69CD:	0C 65	1580	DA SEMIS
	1581 *		
	1582 *	'NFA'	SCR=39, L=13
	1583 *		
69CF:	83	1584 L1360	HEX 83
69D0:	4E 46 C1	1585	DCI 'NFA'
69D3:	C1 69	1586	DA L1350
69D5:	D6 66	1587 NFA	DA DOCOL
69D7:	67 61	1588	DA CLIT
69D9:	05	1589	HEX 05
69DA:	FA 68	1590	DA SUB
69DC:	2A 61	1591	DA LIT
69DE:	FF FF	1592	HEX FFFF
69EA:	84 69	1593	DA TRAV
69E2:	0C 65	1594	DA SEMIS
	1595 *		
	1596 *	'PFA'	SCR=39, L=14
	1597 *		
69E4:	83	1598 L1373	HEX 83
69E5:	50 46 C1	1599	DCI 'PFA'
69E8:	CF 69	1600	DA L1360
69EA:	D6 66	1601 PFA	DA DOCOL
69EC:	65 67	1602	DA ONE
69EE:	84 69	1603	DA TRAV
69F0:	67 61	1604	DA CLIT
69F2:	05	1605	HEX 05
69F3:	99 65	1606	DA PLUS
69F5:	0C 65	1607	DA SEMIS
	1608 *		
	1609 *	'!CSP'	SCR=40, L=1
	1610 *		
69F7:	84	1611 L1386	HEX 84
69F8:	21 43 53	1612	DCI '!CSP'
69FC:	E4 69	1613	DA L1373
69FE:	D6 66	1614 SCSP	DA DOCOL
6A00:	D9 64	1615	DA SPAT
6A02:	88 68	1616	DA CSP
6A04:	9D 66	1617	DA STORE
6A06:	0C 65	1618	DA SEMIS

		1619 *		
		1620 *	'?ERROR'	SCR=40, L=6
		1621 *		
6A08:	86	1622	L1397	HEX 86
6A09:	3F 45 52	1623	DCI	'?ERROR'
6A0F:	F7 69	1624	DA	L1386
6A11:	D6 66	1625	QERR	DA DOCOL
6A13:	22 66	1626	DA	SWAP
6A15:	56 62	1627	DA	ZBRAN
6A17:	08 00	1628	L1402	HEX 0800 \$0008=L1406-L1402
6A19:	CD 6E	1629	DA	ERROR
6A1B:	37 62	1630	DA	BRAN
6A1D:	04 00	1631	L1405	HEX 0400 \$0004=L1407-L1405
6A1F:	19 66	1632	L1406	DA DROP
6A21:	0C 65	1633	L1407	DA SEMIS
		1634 *		
		1635 *	'?COMP'	SCR=40, L=6
		1636 *		
6A23:	85	1637	L1412	HEX 85
6A24:	3F 43 4F	1638	DCI	'?COMP'
6A29:	08 6A	1639	DA	L1397
6A2B:	D6 66	1640	QCOMP	DA DOCOL
6A2D:	63 68	1641	DA	STATE
6A2F:	79 66	1642	DA	AT
6A31:	73 65	1643	DA	ZECU
6A33:	67 61	1644	DA	CLIT
6A35:	11	1645	HEX	11
6A36:	11 6A	1646	DA	QERR
6A38:	0C 65	1647	DA	SEMIS
		1648 *		
		1649 *	'?EXEC'	SCR=40, L=8
		1650 *		
6A3A:	85	1651	L1426	HEX 85
6A3B:	3F 45 58	1652	DCI	'?EXEC'
6A40:	23 6A	1653	DA	L1412
6A42:	D6 66	1654	QEXEC	DA DOCOL
6A44:	63 68	1655	DA	STATE
6A46:	79 66	1656	DA	AT
6A48:	67 61	1657	DA	CLIT
6A4A:	12	1658	HEX	12
6A4B:	11 6A	1659	DA	QERR
6A4D:	0C 65	1660	DA	SEMIS
		1661 *		
		1662 *	'?PAIRS'	SCR=40, L=10
		1663 *		
6A4F:	86	1664	L1439	HEX 86
6A50:	3F 50 41	1665	DCI	'?PAIRS'
6A56:	3A 6A	1666	DA	L1426
6A58:	D6 66	1667	QPAIR	DA DOCOL
6A5A:	FA 68	1668	DA	SUB
6A5C:	67 61	1669	DA	CLIT
6A5E:	13	1670	HEX	13
6A5F:	11 6A	1671	DA	QERR
6A61:	0C 65	1672	DA	SEMIS
		1673 *		
		1674 *	'?CSP'	SCR=40, L=12
		1675 *		
6A63:	84	1676	L1451	HEX 84
6A64:	3F 43 53	1677	DCI	'?CSP'
6A68:	4F 6A	1678	DA	L1439
6A6A:	D6 66	1679	QCSP	DA DOCOL
6A6C:	D9 64	1680	DA	SPAT

6A6E: 88 68	1681	DA	CSP
6A70: 79 66	1682	DA	AT
6A72: FA 68	1683	DA	SUB
6A74: 67 61	1684	DA	CLIT
6A76: 14	1685	HEX	14
6A77: 11 6A	1686	DA	GERR
6A79: 0C 65	1687	DA	SEMIS
	1688 *		
	1689 *	'?LOADING' SCR=40, L=14	
	1690 *		
6A7B: 88	1691 L1466	HEX	88
6A7C: 3F 4C 4F	1692	DCI	'?LOADING'
6A84: 63 6A	1693	DA	L1451
6A86: D6 66	1694 CLOAD	DA	DOCOL
6A88: 18 68	1695	DA	BLK
6A8A: 79 66	1696	DA	AT
6A8C: 73 65	1697	DA	ZEOU
6A8E: 67 61	1698	DA	CLIT
6A90: 16	1699	HEX	16
6A91: 11 6A	1700	DA	GERR
6A93: 0C 65	1701	DA	SEMIS
	1702 *		
	1703 *	'COMPILE' SCR=41, L=2	
	1704 *		
6A95: 87	1705 L1480	HEX	87
6A96: 43 4F 4D	1706	DCI	'COMPILE'
6A9D: 7B 6A	1707	DA	L1466
6A9F: D6 66	1708 COMP	DA	DOCOL
6AA1: 2B 6A	1709	DA	QCOMP
6AA3: 4C 65	1710	DA	RFROM
6AA5: 3A 66	1711	DA	DUP
6AA7: AE 68	1712	DA	TWOP
6AA9: 3A 65	1713	DA	TOR
6AAE: 79 66	1714	DA	AT
6AAD: 9D 68	1715	DA	COMMA
6AAE: 0C 65	1716	DA	SEMIS
	1717 *		
	1718 *	'[]'	
	1719 *	SCR=41, L=5	
	1720 *		
6AB1: C1	1721 L1495	HEX	C1
6AB2: DB	1722	HEX	DB
6AB3: 95 6A	1723	DA	L1480
6ABS: D6 66	1724 LBRAC	DA	DOCOL
6AB7: 5D 67	1725	DA	ZERO
6AB9: 63 68	1726	DA	STATE
6ABB: 9D 66	1727	DA	STORE
6ARD: 0C 65	1728	DA	SEMIS
	1729 *		
	1730 *	']''	
	1731 *	SCR=41, L=7	
	1732 *		
6ABF: 81	1733 L1507	HEX	81
6AC0: DD	1734	HEX	DD
6AC1: B1 6A	1735	DA	L1495
6AC3: D6 66	1736 RBRAC	DA	DOCOL
6AC5: 67 61	1737	DA	CLIT
6AC7: C0	1738	HEX	C0
6AC8: 63 68	1739	DA	STATE
6ACA: 9D 66	1740	DA	STORE
6ACC: 0C 65	1741	DA	SEMIS

1742 *
1743 * 'SMUDGE' SCR=41, L=9
1744 *
6ACE: 86 1745 11519 HEX 86
6ACF: 53 4D 55 1746 DCI 'SMUDGE'
6AD5: BF 6A 1747 DA L1507
6AD7: D6 66 1748 SMUDG DA DOCOL
6AD9: A8 69 1749 DA LATES
6ADB: 67 61 1750 DA CLIT
6ADD: 20 1751 HEX 20
6ADE: 6A 66 1752 DA TOGGL
6AE0: 0C 65 1753 DA SEMIS
1754 * END OF PART ONE.

--- END ASSEMBLY ---

TOTAL ERRORS: 0

2530 BYTES GENERATED THIS ASSEMBLY

```

1 ****
2 *
3 * APPLE II FIG-FORTH *
4 * V 1.0 *
5 *
6 * PART TWO *
7 *
8 * ROBERT E. KUNTZE *
9 *
10 ****
11 *
12 * EQUATES FROM PART ONE
13 * NEEDED TO ASSEMBLE THIS
14 * PART OF THE SOURCE.
15 *
16 IP EQU $00DE
17 W EQU $00E1
18 PUSH EQU $613D
19 CLIT EQU $6167
20 BRAN EQU $6237
21 ZBRAN EQU $6256
22 PLOOP EQU $6277
23 PDO EQU $62DE
24 I EQU $62F7
25 EMIT EQU $63D7
26 SEMIS EQU $650C
27 LFAVE EQU $651F
28 TOR EQU $653A
29 RFROM EQU $654C
30 R EQU $655D
31 PLUS EQU $6599
32 OVER EQU $6608
33 DROP EQU $6619
34 SWAP EQU $6622
35 DUP EQU $663A
36 AT EQU $6679
37 CAT EQU $668E
38 STORE EQU $669D
39 DOCOL EQU $66D6
40 CONST EQU $670B
41 ZERO EQU $675D
42 ONE EQU $6765
43 BL EQU $677E
44 STATE EQU $6863
45 BASE EQU $686D
46 ONEP EQU $68A1
47 HERE EQU $68BD
48 ALLOT EQU $68CD
49 SUB EQU $68FA
50 DDUP EQU $696D
51 LATES EQU $69A8
52 CFA EQU $69C7
53 PFA EQU $69EA
54 OCSP EQU $6A6A
55 COMP EQU $6A9F
56 LBRAC EQU $6AB5
57 L1519 EQU $6ACE
58 SMUDG EQU $6AD7
59 KEY EQU $63DF
60 PORIG EQU $67C6

```

61	EQUAL	EQU	\$6906
62	TWO	EQU	\$676D
63	CSTOR	EQU	\$66B5
64	TIB	EQU	\$67D6
65	IN	EQU	\$6820
66	BLK	EQU	\$6818
67	PSTOR	EQU	\$6649
68	BSCR	EQU	\$6788
69	USLAS	EQU	\$645B
70	ZEQU	EQU	\$6573
71	QEXEC	EQU	\$6A42
72	CMOVE	EQU	\$63FF
73	LIT	EQU	\$612A
74	HLD	EQU	\$6899
75	ENCL	EQU	\$6398
76	GREAT	EQU	\$693C
77	TOGGL	EQU	\$666A
78	DIGIT	EQU	\$6301
79	USTAR	EQU	\$6423
80	ROT	EQU	\$694A
81	DPLUS	EQU	\$65B2
82	DPL	EQU	\$6876
83	CERR	EQU	\$6A11
84	DMINU	EQU	\$65F1
85	CON	EQU	\$684B
86	PFIND	EQU	\$6332
87	WARN	EQU	\$67EE
88	ZLESS	EQU	\$6548
89	SPSTO	EQU	\$64E8
90	LFA	EQU	\$69F8
91	ANDD	EQU	\$6498
92	SPACE	EQU	\$695E
93	ULESS	EQU	\$6913
94	NFA	EQU	\$69D5
95	WIDTH	EQU	\$67E1
96	DP	EQU	\$6801
97	COMMA	EQU	\$68D9
98	CURR	EQU	\$6858
99	TWOP	EQU	\$68AE
100	SPAT	EQU	\$64D9
101	LESS	EQU	\$691F
102	EXEC	EQU	\$621F
103	VOCL	EQU	\$680F
104	RPSTO	EQU	\$64F8
105	CR	EQU	\$63F4
106	ORIG	EQU	\$6100
107	UP	EQU	\$00E3
108	MINUS	EQU	\$65D8
109	XOR	EQU	\$64C3
110	*		
111	*		EQUATES FROM PART
112	*		THREE NEEDED TO ASSEMBLE
113	*		THIS PART OF THE SOURCE.
114	*		
115	MESS	EQU	\$746C
116	BLOCK	EQU	\$73D5
117	NTOP	EQU	\$7927
118	DR0	EQU	\$7368
119	*		
120	*		

	121	OBJ	\$7F00
	122	ORG	\$6AE2 LINK TO PART ONE
	123 *		
	124 *	'HEX'	SCR=41, L=11
	125 *		
6AE2:	83	126	L1531 HEX 83
6AE3:	48 45 D8	127	DCI 'HEX'
6AE6:	CE 6A	128	DA L1519
6AE8:	D6 66	129	HEX DA DOCOL
6AEA:	67 61	130	DA CLIT
6AEC:	10	131	HEX 10 BASE 16
6AED:	6D 68	132	DA BASE
6AEF:	9D 66	133	DA STORE
6AF1:	0C 65	134	DA SEMIS
	135 *		
	136 *	'DECIMAL'	SCR=41, L=13
	137 *		
6AF3:	87	138	L1543 HEX 87
6AF4:	44 45 43	139	DCI 'DECIMAL'
6AFB:	E2 6A	140	DA L1531
6AFD:	D6 66	141	DECIM DA DOCOL
6AFF:	67 61	142	DA CLIT
6B01:	0A	143	HEX 0A BASE 10
6B02:	6D 68	144	DA BASE
6B04:	9D 66	145	DA STORE
6B06:	0C 65	146	DA SEMIS
	147 *		
	148 *	'(:CODE)' SCR=42, L=2	
	149 *		
6B08:	87	150	L1555 HEX 87
6B09:	28 3B 43	151	DCI '(: ;CODE)'
6B10:	F3 6A	152	DA L1543
6B12:	D6 66	153	PSCOD DA DOCOL
6B14:	4C 65	154	DA RFROM
6B16:	A8 69	155	DA LATES
6B18:	EA 69	156	DA PFA
6B1A:	C7 69	157	DA CFA
6B1C:	9D 66	158	DA STORE
6B1E:	0C 65	159	DA SEMIS
	160 *		
	161 *	';CODE'	SCR=42, L=6
	162 *		
6B20:	C5	163	L1568 HEX C5
6B21:	3B 43 4F	164	DCI ' ;CODE'
6B26:	08 6B	165	DA L1555
6B28:	D6 66	166	DA DOCOL
6B2A:	6A 6A	167	DA QCSP
6B2C:	9F 6A	168	DA COMP
6B2E:	12 6B	169	DA PSCOD
6B30:	B5 6A	170	DA LBRA
6B32:	D7 6A	171	DA SMUDG
6B34:	0C 65	172	DA SEMIS
	173 *		
	174 *	'<BUILD>' SCR=43, L=2	
	175 *		
6B36:	87	176	L1582 HEX 87
6B37:	3C 42 55	177	DCI '<BUILD>'
6B3E:	20 6B	178	DA L1568
6B40:	D6 66	179	BUILD DA DOCOL
6B42:	5D 67	180	DA ZERO

6B44: 0B 67	181		DA	CONST
6B46: 0C 65	182		DA	SEMIS
	183	*		
	184	*	'DOES>'	SCR=43, L=4
	185	*		
6B48: 85	186	L1592	HEX	85
6B49: 44 4F 45	187		DCI	'DOES>'
6B4E: 36 6B	188		DA	L1582
6B50: D6 66	189	DOES	DA	DOCOL
6B52: 4C 65	190		DA	RFROM
6B54: A8 69	191		DA	LATES
6B56: EA 69	192		DA	PFA
6B58: 9D 66	193		DA	STORE
6B5A: 12 6B	194		DA	PSCOD
6B5C: A5 DF	195	DODOE	LDA	IP+1
6B5E: 48	196		PHA	
6B5F: A5 DE	197		LDA	IP
6B61: 48	198		PHA	
6B62: A0 02	199		LDY	#2
6B64: B1 E1	200		LDA	(W),Y
6B66: 85 DE	201		STA	IP
6B68: C8	202		INY	
6B69: B1 E1	203		LDA	(W),Y
6B6B: 85 DF	204		STA	IP+1
6B6D: 18	205		CLC	
6B6E: A5 E1	206		LDA	W
6B70: 69 04	207		ADC	#4
6B72: 48	208		PHA	
6B73: A5 E2	209		LDA	W+1
6B75: 69 00	210		ADC	#0
6B77: 4C 3D 61	211		JMP	PUSH
	212	*		
	213	*	'COUNT'	SCR=44, L=1
	214	*		
6B7A: 85	215	L1622	HEX	85
6B7B: 43 4F 55	216		DCI	'COUNT'
6B80: 48 6B	217		DA	L1592
6B82: D6 66	218	COUNT	DA	DOCOL
6B84: 3A 66	219		DA	DUP
6B86: A1 68	220		DA	ONEP
6B88: 22 66	221		DA	SWAP
6B8A: 8E 66	222		DA	CAT
6B8C: 0C 65	223		DA	SEMIS
	224	*		
	225	*	'TYPE'	SCR=44, L=2
	226	*		
6B8E: 84	227	L1634	HEX	84
6B8F: 54 59 50	228		DCI	'TYPE'
6B93: 7A 6B	229		DA	L1622
6B95: D6 66	230	TYPE	DA	DOCOL
6B97: 6D 69	231		DA	DDUP
6B99: 56 62	232		DA	ZBRAN
6B9B: 18 00	233	L1639	HEX	1800 L1651-L1639
6B9D: 08 66	234		DA	OVER
6B9F: 99 65	235		DA	PLUS
6BA1: 22 66	236		DA	SWAP
6BA3: DE 62	237		DA	PDO
6BA5: F7 62	238	L1644	DA	I
6BA7: 8E 66	239		DA	CAT
6BA9: D7 63	240		DA	EMIT

6BAR:	77	62	241		DA	PLLOOP	
6BAD:	F8	FF	242	L1648	HEX	F8FF	L1644-L1648=\$FFFF8
6BAF:	37	62	243		DA	BKAN	
6BRI:	04	00	244	L1650	HEX	0400	
6EB3:	19	66	245	L1651	DA	DROP	L1652-L1650
6RR5:	0C	65	246	L1652	DA	SEMIS	
			247	*	'--TRAILING' SCR=44, L=5		
			248	*	'--TRAILING' SCR=44, L=5		
			249	*	250	L1657	HEX 89
					251		DCI '-TRAILING'
6BB7:	89	54	52	252	DA	L1634	
6BB8:	2D	54		253	DTROI	DA	DOCOL
6BC1:	8E	6B		254	DA	DUP	
6BC3:	D6	66		255	DA	ZERO	
6BC5:	3A	66		256	DA	PDO	
6BC7:	5D	67		257	DA	OVER	
6BC9:	DE	62		258	DA	OVER	
6BCB:	08	66		259	DA	PLUS	
6BCD:	08	66		260	DA	ONE	
6BCF:	99	65		261	DA	SUB	
6RD1:	65	67		262	DA	CAT	
6BD3:	FA	68		263	DA	BIL	
6BD5:	8E	66		264	DA	SUR	
6HD7:	7E	67		265	DA	ZBRAN	
6BD9:	FA	68		266	HEX 0B00		L1676-L1672
6BDE:	56	62		267	DA	LEAVE	
6BDD:	08	00		268	DA	BRAN	
6BDF:	1F	65		269	HEX 0600		L1678-L1675
6BE1:	37	62		270	DA	ONE	
6BE3:	06	00		271	DA	SUB	
6BE5:	65	67		272	DA	PLLOOP	
6BE7:	FA	68		273	HEX E0FF		L1663-L1679=\$FFE0
6BE9:	77	62		274	DA	SEMIS	
6BEB:	E0	FF		275	*	'...''' SCR=44, L=8	
6BED:	0C	65		276	*	'...''' SCR=44, L=8	
				277	*		
6BEF:	84	2E		278	L1685	HEX 84	
6BF0:	28	2E		279	HEX	282E	
6BF2:	22	A9		280	HEX	22A9	
6BF4:	B7	6B		281	DA	L1657	
6BF6:	D6	66		282	PDOTQ	DA	DOCOL
6BFR:	5D	65		283	DA	R	
6BFA:	82	6B		284	DA	COUNT	
6BFC:	3A	66		285	DA	DUP	
6BFE:	A1	68		286	DA	ONEP	
6C00:	4C	65		287	DA	RFROM	
6C02:	99	65		288	DA	PLUS	
6C04:	3A	65		289	DA	TOR	
6C06:	95	6B		290	DA	TYPE	
6C08:	0C	65		291	DA	SEMIS	
			292	*	'...''' SCR=44, L=12		
			293	*			
			294	*	L1701	HEX C2	
6C0A:	C2		295		HEX 2EA2		
6C0B:	2E	A2	296		DA	L1685	
6C0D:	EF	6B	297		DA	DOCOL	
6C0F:	D6	66	298		DA	CLIT	
6C11:	67	61	299		HEX 22		
6C13:	22		300				

6C14:	63 68	301	DA	STATE
6C16:	79 66	302	DA	AT
6C18:	56 62	303	DA	ZBRAN
6C1A:	14 00	304	L1709	HEX 1400 L1719-L1709
6C1C:	9F 6A	305	DA	COMP
6C1E:	F6 6B	306	DA	PDOTO
6C20:	70 6D	307	DA	WORD
6C22:	BD 68	308	DA	HERE
6C24:	8E 66	309	DA	CAT
6C26:	A1 68	310	DA	ONEP
6C28:	CD 68	311	DA	ALLOT
6C2A:	37 62	312	DA	BRAN
6C2C:	0A 00	313	L1718	HEX 0A00 L1723-L1718
6C2E:	70 6D	314	L1719	DA WORD
6C30:	BD 68	315	DA	HERE
6C32:	82 6B	316	DA	COUNT
6C34:	95 6B	317	DA	TYPE
6C36:	0C 65	318	L1723	DA SEMIS
		319	*	
		320	*	'EXPECT' SCR=45, L=2
		321	*	
6C38:	86	322	L1729	HEX 86
6C39:	45 58 50	323	DCI	'EXPECT'
6C3F:	0A 6C	324	DA	L1701
6C41:	D6 66	325	EXPEC	DA DOCOL
6C43:	08 66	326	DA	OVER
6C45:	99 65	327	DA	PLUS
6C47:	08 66	328	DA	OVER
6C49:	DE 62	329	DA	PDO
6C4B:	DF 63	330	L1736	DA KEY
6C4D:	3A 66	331	DA	DUP
6C4F:	67 61	332	DA	CLIT
6C51:	0E	333	HEX	0E
6C52:	C6 67	334	DA	POIG
6C54:	79 66	335	DA	AI
6C56:	06 69	336	DA	EQUAL
6C58:	56 62	337	DA	ZBRAN
6C5A:	1F 00	338	L1744	HEX 1F00 L1760-L1744
6C5C:	19 66	339	DA	DROP
6C5E:	67 61	340	DA	CLIT
6C60:	08	341	HEX	08
6C61:	08 66	342	DA	OVER
6C63:	F7 62	343	DA	I
6C65:	06 69	344	DA	EQUAL
6C67:	3A 66	345	DA	DUP
6C69:	4C 65	346	DA	RFROM
6C6B:	6D 67	347	DA	TWO
6C6D:	FA 68	348	DA	SUB
6C6F:	99 65	349	DA	PLUS
6C71:	3A 65	350	DA	TOR
6C73:	FA 68	351	DA	SUB
6C75:	37 62	352	DA	BRAN
6C77:	27 00	353	L1759	HEX 2700 L1779-L1759
6C79:	3A 66	354	L1760	DA DUP
6C7B:	67 61	355	DA	CLIT
6C7D:	0D	356	HEX	0D
6C7E:	06 69	357	DA	EQUAL
6C80:	56 62	358	DA	ZBRAN
6C82:	0E 00	359	L1765	HEX 0E00 L1772-L1765
6C84:	1F 65	360	DA	LEAVE

6CB6: 19 66	361		DA	DROP
6CB8: 7E 67	362		DA	BLK
6C8A: 5D 67	363		DA	ZERO
6C9C: 37 62	364		DA	ZBRAN
6CBF: 04 00	365	L1771	HEX	0400 L1773-L1771
6C90: 3A 66	366	L1772	DA	DUP
6C92: F7 62	367	L1773	DA	I
6C94: B5 66	368		DA	CSIOR
6C96: 5D 67	369		DA	ZERO
6C98: F7 62	370		DA	I
6C9A: A1 68	371		DA	ONEP
6C9C: 9D 66	372		DA	STORE
6C9E: D7 63	373	L1779	DA	EMIT
6CA0: 77 62	374		DA	PLOOP
6CA2: A9 FF	375	L1781	HEX	A9FF L1736-L1781=\$FFA9
6CA4: 19 66	376		DA	DROP
6CA6: 0C 65	377		DA	SEMTS
	378	*		
	379	*	'QUERY'	SCR=45, L=9
	380	*		
6CA8: 85	381	L1788	HEX	85
6CA9: 51 55 45	382		DCT	'QUERY'
6CAE: 38 60	383		DA	L1729
6CB0: D6 66	384	QUERY	DA	DOCOL
6CB2: D6 67	385		DA	TIB
6CB4: 79 66	386		DA	AT
6CB6: 67 61	387		DA	CLFT
6CB8: 50	388		HEX	50 TWO LINES FROM TERMINAL,
ACB9: 41 60	389		DA	EXPEC OF 40 CHARACTERS EACH.
ACFF: 5D 67	390		DA	ZERO
6CBD: 20 68	391		DA	TN
ACEF: 9D 66	392		DA	STORE
ACC1: 0C 65	393		DA	SEMTS
	394	*		
	395	*	'X'	SCR=45, L=11
	396	*		ACTUALLY ASCII NULL
	397	*		
6CC3: C1	398	L1804	HEX	C1
6CC4: 80	399		HEX	80
6CC5: A8 60	400		DA	L1788
6CC7: D6 66	401		DA	DOCOL
6CC9: 18 68	402		DA	BLK
6CCR: 79 66	403		DA	A1
ACCD: 56 62	404		DA	ZBRAN
ACCF: 2A 00	405	L1810	HEX	2A00 L1830-L1810
ACD1: 65 67	406		DA	ONE
ACD3: 18 68	407		DA	BLK
ACD5: 49 66	408		DA	PSTOR
ACD7: 5D 67	409		DA	ZERO
ACD9: 20 68	410		DA	TN
ACDB: 9D 66	411		DA	STORE
ACDD: 18 68	412		DA	BLK
ACDF: 79 66	413		DA	AT
ACE1: 5D 67	414		DA	ZERO
ACE3: B8 67	415		DA	BSCK
ACE5: 5B 64	416		DA	USLAS
ACE7: 19 66	417		DA	DROP FIXED FROM MODEL
ACE9: 73 65	418		DA	ZEOU
ACEB: 56 62	419		DA	ZBRAN
ACED: 08 00	420	L1824	HEX	0800 L1828-L1824

6CEF: 42 6A	421	DA	6EXEC
6CF1: 4C 65	422	DA	RFROM
6CF3: 19 66	423	DA	DROP
6CF5: 37 62	424	L1828	DA BRAN
6CF7: 06 00	425	L1829	HEX 0600 L1832-L1829
6CF9: 4C 65	426	L1830	DA RFROM
6CFB: 19 66	427	DA	DROP
6CFD: 0C 65	428	L1832	DA SEMIS
	429	*	
	430	*	'FILL' SCR=46, L=1
	431	*	
6CFF: 84	432	L1838	HEX 84
6D00: 46 49 4C	433	DCI	'FILL'
6D04: C3 6C	434	DA	L1804
6D06: D6 66	435	FILL	DA DOCOL
6D08: 22 66	436	DA	SWAP
6D0A: 3A 65	437	DA	TOK
6D0C: 08 66	438	DA	OVER
6D0E: B5 66	439	DA	CSTOR
6D10: 3A 66	440	DA	DUP
6D12: A1 68	441	DA	ONEP
6D14: 4C 65	442	DA	RFROM
6D16: 65 67	443	DA	ONE
6D18: FA 68	444	DA	SUB
6D1A: FE 63	445	DA	CMOVE
6D1C: 0C 65	446	DA	SEMIS
	447	*	
	448	*	'ERASE' SCR=46, L=4
	449	*	
6D1E: 85	450	L1856	HEX 85
6D1F: 45 52 41	451	DCI	'ERASE'
6D24: FF 6C	452	DA	L1838
6D26: D6 66	453	ERASE	DA DOCOL
6D28: 5D 67	454	DA	ZERO
6D2A: 06 6D	455	DA	FILL
6D2C: 0C 65	456	DA	SEMIS
	457	*	
	458	*	'BLANKS' SCR=46, L=7
	459	*	
6D2E: 86	460	L1866	HEX 86
6D2F: 42 4C 41	461	DCI	'BLANKS'
6D35: 1E 6D	462	DA	L1856
6D37: D6 66	463	BLANK	DA DOCOL
6D39: 7F 67	464	DA	BL
6D3B: 06 6D	465	DA	FILL
6D3D: 0C 65	466	DA	SEMIS
	467	*	
	468	*	'HOLD' SCR=46, L=10
	469	*	
6D3F: 84	470	L1876	HEX 84
6D40: 48 4F 4C	471	DCI	'HOLD'
6D44: 2E 6D	472	DA	L1866
6D46: D6 66	473	HOLD	DA DOCOL
6D48: 2A 61	474	DA	LIT
6D4A: FF FF	475	HEX	FFFF
6D4C: 99 68	476	DA	HLD
6D4E: 49 66	477	DA	PSTOR
6D50: 99 68	478	DA	HLD
6D52: 79 66	479	DA	AT
6D54: B5 66	480	DA	CSTOR
6D56: 0C 65	481	DA	SEMIS

	482	*		
	483	*	'PAD' SCR=46, L=13	
	484	*		
6D58:	83	485	L1890	HEX 83
6D59:	50 41 C4	486		DCI 'PAD'
6D5C:	3F 6D	487		DA L1876
6D5E:	D6 66	488	PAD	DA DOCOL
6D60:	BD 68	489		DA HERE
6D62:	67 61	490		DA CLIT
6D64:	44	491		HEX 44 PAD IS 68 BYTES ABOVE HERE.
6D65:	99 65	492		DA PLUS
6D67:	0C 65	493		DA SEMIS
	494	*		
	495	*	'WORD' SCR=47, L=1	
	496	*		
6D69:	84	497	L1902	HEX 84
6D6A:	57 4F 52	498		DCI 'WORD'
6D6E:	58 6D	499		DA L1890
6D70:	D6 66	500	WORD	DA DOCOL
6D72:	18 68	501		DA BLK
6D74:	79 66	502		DA AT
6D76:	56 62	503		DA ZBRAN
6D78:	0C 00	504	L1908	HEX 0C00 L1914-L1908
6D7A:	18 68	505		DA BLK
6D7C:	79 66	506		DA AT
6D7E:	D5 73	507		DA BLOCK
6D7F:	37 62	508		DA BRAN
6D82:	06 00	509	L1913	HEX 0600 L1961-L1913
6D84:	D6 67	510	L1914	DA TIB
6D86:	79 66	511		DA AT
6D88:	20 68	512	L1916	DA IN
6D8A:	79 66	513		DA AT
6D8C:	99 65	514		DA PLUS
6D8E:	22 66	515		DA SWAP
6D90:	98 63	516		DA ENCL
6D92:	BD 68	517		DA HERE
6D94:	67 61	518		DA CLIT
6D96:	22	519		HEX 22
6D97:	37 6D	520		DA BLANK
6D99:	20 68	521		DA IN
6D9B:	49 66	522		DA PSTOR
6D9D:	08 66	523		DA OVER
6D9F:	FA 68	524		DA SUB
6DA1:	3A 65	525		DA TOR
6DA3:	5D 65	526		DA R
6DAS:	BD 68	527		DA HERE
6DA7:	B5 66	528		DA CSTOR
6DA9:	99 65	529		DA PLUS
6DAB:	BD 68	530		DA HERE
6DAD:	A1 68	531		DA ONEP
6DAF:	4C 65	532		DA RFROM
6DB1:	FE 63	533		DA CMOVE
6DB3:	0C 65	534		DA SEMIS
	535	*		
	536	*	'UPPER' SCR=47, L=12	
	537	*		
6DB5:	85	538	L1943	HEX 85
6DB6:	55 50 50	539		DCI 'UPPER'
6DBB:	69 6D	540		DA L1902

6DBD: D6 66	541	UPPER	DA	DOCOL	
6DBF: 08 66	542		DA	OVER	ROUTINE CONVERTS TEXT TO
6DC1: 99 65	543		DA	PLUS	UPPERCASE. IT ALLOWS INTER-
6DC3: 22 66	544		DA	SWAP	PRETATION FROM A TERMINAL
6DC5: DE 62	545		DA	PDO	WITHOUT 'SHIFT LOCK'.
6DC7: F7 62	546	L1950	DA	I	
6DC9: 8E 66	547		DA	CAT	
6DCB: 67 61	548		DA	CLIT	
6DCU: 5F	549		HEX	5F	
6DCE: 3C 69	550		DA	GREAT	
6DD0: 56 62	551		DA	ZBRAN	
6DD2: 09 00	552	L1956	HEX	0900	L1961-L1956
6DD4: F7 62	553		DA	I	
6DD6: 67 61	554		DA	CLIT	
6DD8: 20	555		HEX	20	
6DD9: 6A 66	556		DA	TOGGL	
6DDB: 77 62	557	L1961	DA	PLOOP	
6DDD: EA FF	558	L1962	HEX	EAFF	L1950-L1962=\$FFEA
6DDF: 0C 65	559		DA	SEMIS	
	560	*			
	561	*	'(NUMBER)' SCR=48, L=1		
	562	*			
6DE1: 88	563	L1968	HEX	88	
6DE2: 28 4E 55	564		DCI	'(NUMBER)'	
6DEA: B5 6D	565		DA	L1943	
6DEC: D6 66	566	PNUMB	DA	DOCOL	
6DEE: A1 68	567	L1971	DA	ONEP	
6DF0: 3A 66	568		DA	DUP	
6DF2: 3A 65	569		DA	TOR	
6DF4: 8E 66	570		DA	CAT	
6DF6: 6D 68	571		DA	BASE	
6DF8: 79 66	572		DA	AT	
6DFA: 01 63	573		DA	DIGIT	
6DFC: 56 62	574		DA	ZBRAN	
6DFE: 2C 00	575	L1979	HEX	2C00	L2001-L1979
6E00: 22 66	576		DA	SWAP	
6E02: 6D 68	577		DA	BASE	
6E04: 79 66	578		DA	AT	
6E06: 23 64	579		DA	USTAR	
6E08: 19 66	580		DA	DROP	
6E0A: 4A 69	581		DA	ROT	
6E0C: 6D 68	582		DA	BASE	
6E0E: 79 66	583		DA	A1	
6E10: 23 64	584		DA	USTAR	
6E12: B2 65	585		DA	DPLUS	
6E14: 76 68	586		DA	DPL	
6E16: 79 66	587		DA	AT	
6E18: A1 68	588		DA	ONEP	
6E1A: 56 62	589		DA	ZBRAN	
6E1C: 08 00	590	L1994	HEX	0800	L1998-L1994
6E1E: 65 67	591		DA	ONE	
6E20: 76 68	592		DA	DPL	
6E22: 49 66	593		DA	PSTOR	
6E24: 4C 65	594	L1998	DA	RFROM	
6E26: 37 62	595		DA	BRAN	
6E28: C6 FF	596	L2000	HEX	C6FF	L1971-L2000=\$FFC6
6E2A: 4C 65	597	L2001	DA	RFROM	
6E2C: 0C 65	598		DA	SEMIS	

		599	*		
		600	*	'NUMBER'	SCR=48, L=6
		601	*		
6E2E:	86	602	L2007	HEX	86
6E2F:	4E 55 AD	603		DCI	'NUMBER'
6E35:	E1 6D	604		DA	L1968
6E37:	D6 66	605	NUMBER	DA	DOCOL
6E39:	5D 67	606		DA	ZERO
6E3B:	5D 67	607		DA	ZERO
6E3D:	4A 69	608		DA	ROT
6E3F:	3A 66	609		DA	DUP
6E41:	A1 68	610		DA	ONEP
6E43:	8E 66	611		DA	CAT
6E45:	67 61	612		DA	CLIT
6E47:	2D	613		HEX	2D
6E48:	06 69	614		DA	EQUAL
6E4A:	3A 66	615		DA	DUP
6E4C:	3A 65	616		DA	TOR
6E4E:	99 65	617		DA	PLUS
6E50:	2A 61	618		DA	LI1
6E52:	FF FF	619		HEX	FFFF
6E54:	76 68	620	L2023	DA	DPL
6E56:	9D 66	621		DA	STORE
6E58:	EC 6D	622		DA	PNUMB
6E5A:	3A 66	623		DA	DUP
6E5C:	8E 66	624		DA	CAT
6E5E:	7E 67	625		DA	BL
6E60:	FA 68	626		DA	SUB
6E62:	56 62	627		DA	ZBRAN
6E64:	15 00	628	L2031	HEX	1500 L2024-L2031
6E66:	3A 66	629		DA	DUP
6E68:	8E 66	630		DA	CAT
6E6A:	67 61	631		DA	CLIT
6E6C:	2E	632		HEX	2E
6E6D:	FA 68	633		DA	SUB
6E6F:	5D 67	634		DA	ZERO
6E71:	11 6A	635		DA	QERR
6E73:	5D 67	636		DA	ZERO
6E75:	37 62	637		DA	BRAN
6E77:	DD FF	638	L2041	HEX	DDFF L2023-L2041=\$FFDD
6E79:	19 66	639	L2042	DA	DROP
6E7B:	4C 65	640		DA	RFROM
6E7D:	56 62	641		DA	ZBRAN
6E7F:	04 00	642	L2045	HEX	0400 L2047-L2045
6E81:	F1 65	643		DA	DMINU
6E83:	0C 65	644	L2047	DA	SEMISS
	645	*			
	646	*	'-FIND'	SCR=48, L=12	
	647	*			
6E85:	85	648	L2052	HEX	85
6E86:	2D 46 49	649		DCI	'-FIND'
6E88:	2E 6E	650		DA	L2007
6E8D:	D6 66	651	DFIND	DA	DOCOL
6E8F:	7E 67	652		DA	BL
6E91:	70 6D	653		DA	WORD
6E93:	BD 68	654		DA	HERE OPTIONAL, ALLOWS FREE USE
6E95:	82 6B	655		DA	OF LOWER CASE FROM TERMINAL.
6E97:	BD 6D	656		DA	UPPER
6E99:	BD 68	657		DA	HERE
6E9B:	4B 68	658		DA	CON
6E9D:	79 66	659		DA	AT
6E9F:	79 66	660		DA	AT

6EA1: 32 63	661	DA	PFIND		
6EA3: 3A 66	662	DA	DUP		
6EA5: 73 65	663	DA	ZEQU		
6EA7: 56 62	664	DA	ZBRAN		
6EA9: 0A 00	665	HEX	0A00	L2073-L2068	
6EB1: 19 66	666	DA	DROP		
6EAD: BD 68	667	DA	HERE		
6EAF: A8 69	668	DA	LATES		
6EB1: 32 63	669	DA	PFIND		
6EB3: 0C 65	670	L2073	DA	SEMIS	
	671	*			
	672	*	'(ABORT)' SCR=49, L=2		
	673	*			
6EB5: 87	674	L2078	HEX	87	
6EB6: 28 41 42	675	DCI	'(ABORT)'		
6EBD: 85 6E	676	DA	L2052		
6EBF: D6 66	677	PABOR	DA	DOCOL	
6EC1: 1D 71	678		DA	ABORT	
6EC3: 0C 65	679		DA	SEMIS	
	680	*			
	681	*	'ERROR' SCR=49, L=4		
	682	*			
6EC5: 85	683	L2087	HEX	85	
6EC6: 45 52 52	684	DCI	'ERROR'		
6ECB: 85 6E	685	DA	L2078		
6ECD: D6 66	686	ERROR	DA	DOCOL	
6ECF: EE 67	687		DA	WARN	
6ED1: 79 66	688		DA	AT	
6ED3: 88 65	689		DA	ZLESS	
6ED5: 56 62	690		DA	ZBRAN	
6ED7: 04 00	691	L2094	HEX	0400	L2096-L2094
6ED9: BF 6E	692		DA	PABOR	
6EDB: BD 68	693	L2096	DA	HERE	
6EDD: 82 68	694		DA	COUNT	
6EDF: 95 68	695		DA	TYPE	
6EE1: F6 68	696		DA	PDOTQ	
6EE3: 04	697		HEX	04	
6EE4: 20 20 3F	698		ASC	' ? '	
6EE8: 6C 74	699		DA	MESS	
6EEA: E8 64	700		DA	SPSTO	
6EEC: 19 66	701		DA	DROP MAKE ROOM FOR 2 ERROR VALUES	
6EEE: 19 66	702		DA	DROP	
6EF0: 20 68	703		DA	IN	
6EF2: 79 66	704		DA	AT	
6EF4: 18 68	705		DA	BLK	
6EF6: 79 66	706		DA	AT	
6EF8: FE 70	707		DA	QUIT	
6EFA: 0C 65	708		DA	SEMIS	
	709	*			
	710	*	'ID.' SCR=49, L=9		
	711	*			
6EFC: 83	712	L2113	HEX	83	
6EFD: 49 44 AE	713	DCI	'ID.'		
6F00: C5 6E	714	DA	L2087		
6F02: D6 66	715	IDDOT	DA	DOCOL	
6F04: 5E 6D	716		DA	PAD	
6F06: 67 61	717		DA	CLIT	
6F08: 20	718		HEX	20	
6F09: 67 61	719		DA	CLIT	
6F0B: SF	720		HEX	SF	

6F0C: 06 6D	721	DA	FILL
6F0E: 3A 66	722	DA	DUP
6F10: EA 69	723	DA	PFA
6F12: BR 69	724	DA	LFA
6F14: 08 66	725	DA	OVER
6F16: FA 68	726	DA	SUB
6F18: 5E 6D	727	DA	PAD
6F1A: 22 66	728	DA	SWAP
6F1C: FE 63	729	DA	CMOVE
6F1E: 5E 6D	730	DA	PAD
6F20: 82 6B	731	DA	COUNT
6F22: 67 61	732	DA	CLIT
6F24: 1F	733	HEX	1F
6F25: 98 64	734	DA	ANDD
6F27: 95 6B	735	DA	TYPE
6F29: 5E 69	736	DA	SPACE
6F2B: 0C 65	737	DA	SEMI S
	738 *		
	739 *	'CREATE'	SCR=50, L=2
	740 *		
6F2D: 86	741	L2142	HEX 86
6F2E: 43 52 45	742		DCI 'CREATE'
6F34: FC 6E	743		DA L2113
6F36: D6 66	744	CREAT	DA DOCOL
6F38: D6 67	745		DA TIB 6502 ONLY, ASSURES ROOM
6F3A: BD 68	746		DA HERE EXISTS IN DICTIONARY.
6F3C: 67 61	747		DA CLIT
6F3E: A0	748		HEX A0
6F3F: 99 65	749		DA PLUS
6F41: 13 69	750		DA ULESS
6F43: 6D 67	751		DA TWO
6F45: 11 6A	752		DA QERR
6F47: 8D 6E	753		DA DFIND
6F49: 56 62	754		DA ZBRAN
6F4B: 0F 00	755	L2155	HEX 0F00 L2163-L2155
6F4D: 19 66	756		DA DROP
6F4F: D5 69	757		DA NFA
6F51: 02 6F	758		DA IDDOI
6F53: 67 61	759		DA CLIT
6F55: 04	760		HEX 04
6F56: 6C 74	761		DA MESS
6F58: 5E 69	762		DA SPACE
6F5A: BD 68	763	L2163	DA HERE
6F5C: 3A 66	764		DA DUP
6F5E: BE 66	765		DA CAT
6F60: E1 67	766		DA WIDTH
6F62: 79 66	767		DA AT
6F64: D2 71	768		DA MIN
6F66: A1 68	769		DA ONEP
6F68: CD 68	770		DA ALLOT
6F6A: 01 68	771	DA	DP 6502 ONLY. CODE FIELD MUST
6F6C: 8E 66	772	DA	CAT NOT STRADDLE PAGE BOUNDRIES.
6F6E: 67 61	773	DA	CLIT
6F70: FD	774	HEX	FD
6F71: 06 69	775	DA	EQUAL
6F73: CD 68	776	DA	ALLOT
6F75: 3A 66	777	DA	DUP
6F77: 67 61	778	DA	CLIT
6F79: A0	779	HEX	A0
6F7A: 6A 66	780	DA	TOGGL

6F7C:	BD	68	781	DA	HERE
6F7E:	65	67	782	DA	ONE
6F80:	FA	68	783	DA	SUR
6F82:	67	61	784	DA	CLIT
6F84:	80		785	HEX	80
6F85:	6A	66	786	DA	TOGGL
6F87:	A8	69	787	DA	LATES
6F89:	D9	68	788	DA	COMMA
6F8B:	58	68	789	DA	CURR
6F8D:	79	66	790	DA	AT
6F8F:	9D	66	791	DA	STORE
6F91:	BD	68	792	DA	HERE
6F93:	AE	68	793	DA	TWOP
6F95:	D9	68	794	DA	COMMA
6F97:	0C	65	795	DA	SEMIS
		796	*		
		797	*	'(COMPILE)' SCR=51, L=2	
		798	*		
6F99:	C9		799	L2200	HEX C9
6F9A:	28	43	4F	800	DCI '(COMPILE)' MODEL USES []
6FA3:	2D	6F		801	DA L2142
6FA5:	D6	66		802	DA DOCOL
6FA7:	8D	6E		803	DA DFIND
6FA9:	73	65		804	DA ZEQU
6FAB:	5D	67		805	DA ZERO
6FAD:	11	6A		806	DA QERR
6FAF:	19	66		807	DA DROP
6FB1:	C7	69		808	DA CFA
6FB3:	D9	68		809	DA COMMA
6FB5:	0C	65		810	DA SEMIS
		811	*		
		812	*	'LITERAL' SCR=51, L=5	
		813	*		
6FB7:	C7		814	L2216	HEX C7
6FB8:	4C	49	54	815	DCI 'LITERAL'
6FBF:	99	6F		816	DA L2200
6FC1:	D6	66		817	LITER DA DOCOL
6FC3:	63	68		818	DA STATE
6FC5:	79	65		819	DA AT
6FC7:	56	62		820	DA ZBRAN
6FC9:	08	00		821	L2222 HEX 0800 L2226-L2222
6FCB:	9F	6A		822	DA COMP
6FCD:	2A	61		823	DA LIT
6FCF:	D9	68		824	DA COMMA
6FD1:	0C	65		825	L2226 DA SEMIS
		826	*		
		827	*	'DLITERAL' SCR=51, L=8	
		828	*		
6FD3:	C8		829	L2232	HEX C8
6FD4:	44	4C	49	830	DCI 'DLITERAL'
6FDC:	B7	6F		831	DA L2216
6FDE:	D6	66		832	DLIT DA DOCOL
6FE0:	63	68		833	DA STATE
6FE2:	79	66		834	DA AT
6FE4:	56	62		835	DA ZBRAN
6FE6:	08	00		836	L2238 HEX 0800 L2242-L2238
6FER:	22	66		837	DA SWAP
6FEA:	C1	6F		838	DA LITER
6FEC:	C1	6F		839	DA LITER
6FEE:	0C	65		840	L2242 DA SEMIS

841	*			
842	*	'?STACK'	SCR=51,	L=13
843	*			
6FF0:	86	844	L2248	HEX 86
6FF1:	3F 53 54	845		DCI '?STACK'
6FF7:	D3 6F	846		DA L2232
6FF9:	D6 66	847	QSTAC	DA DOCOL
6FFB:	67 61	848		DA CLIT
6FFD:	CE	849		HEX CE TOS IN SINGLE BYTE
6FFE:	D9 64	850		DA SPAT
7000:	13 69	851		DA ULESS
7002:	65 67	852		DA ONE
7004:	11 6A	853		DA OERR
7006:	D9 64	854		DA SPAT
7008:	67 61	855		DA CLIT
700A:	60	856		HEX 60 BOS IN SINGLE BYTE
700B:	13 69	857		DA ULESS
700D:	67 61	858		DA CLIT
700F:	06	859		HEX 06
7010:	11 6A	860		DA OERR
7012:	0C 65	861		DA SEMIS
	862	*		
	863	*	'INTERPRET'	SCR=52, L=2
	864	*		
7014:	89	865	L2269	HEX 89
7015:	49 4E 54	866		DCI 'INTERPRET'
701E:	F0 6F	867		DA L2248
7020:	D6 66	868	INTER	DA DOCOL
7022:	8D 6E	869	L2272	DA DFIND
7024:	56 62	870		DA ZBRAN
7026:	1E 00	871	L2274	HEX 1E00 L2289-L2274
7028:	63 68	872		DA STATE
702A:	79 66	873		DA AT
702C:	1F 69	874		DA LESS
702E:	56 62	875		DA ZBRAN
7030:	0A 00	876	L2279	HEX 0A00 L2284-L2279
7032:	C7 69	877		DA CFA
7034:	D9 68	878		DA COMMA
7036:	37 62	879		DA BRAN
7038:	06 00	880	L2283	HEX 0600 L2286-L2283
703A:	C7 69	881	L2284	DA CFA
703C:	1F 62	882		DA EXEC
703E:	F9 6F	883	L2286	DA QSTAC
7040:	37 62	884		DA BRAN
7042:	1C 00	885	L2288	HEX 1C00 L2302-L2288
7044:	BD 68	886	L2289	DA HERE
7046:	37 6E	887		DA NUMBER
7048:	76 68	888		DA DPL
704A:	79 66	889		DA AT
704C:	A1 68	890		DA ONEP
704E:	56 62	891		DA ZBRAN
7050:	08 00	892	L2295	HEX 0800 L2299-L2295
7052:	DE 6F	893		DA DLIT
7054:	37 62	894		DA BRAN
7056:	06 00	895	L2298	HEX 0600 L2301-L2298
7058:	19 66	896	L2299	DA DROP
705A:	C1 6F	897		DA LITER
705C:	F9 6F	898	L2301	DA QSTAC
705E:	37 62	899	L2302	DA BRAN
7060:	C2 FF	900	L2303	HEX C2FF L2272-2303=\$FFC2

	901	*		
	902	*	'IMMEDIATE' SCR=53, L=1	
	903	*		
7062:	89	904	L2309	HEX 89
7063:	49 4D 4D	905		DCI 'IMMEDIATE'
706C:	14 70	906		DA L2269
706E:	D6 66	907		DA DOCOL
7070:	A8 69	908		DA LATES
7072:	67 61	909		DA CLIT
7074:	40	910		HEX 40
7075:	6A 66	911		DA TOGGL
7077:	0C 65	912		DA SEMIS
	913	*		
	914	*	'VOCABULARY' SCR=53, L=4	
	915	*		
7079:	8A	916	L2321	HEX 8A
707A:	56 4F 43	917		DCI 'VOCABULARY'
7084:	62 70	918		DA L2309
7086:	D6 66	919		DA DOCOL
7088:	40 68	920		DA BUILD
708A:	2A 61	921		DA LIT
708C:	81 A0	922		HEX 81A0
708E:	D9 68	923		DA COMMA
7090:	58 68	924		DA CURR
7092:	79 66	925		DA AT
7094:	C7 69	926		DA CFA
7096:	D9 68	927		DA COMMA
7098:	BD 68	928		DA HERE
709A:	0F 68	929		DA VOCL
709C:	79 66	930		DA AT
709E:	D9 68	931		DA COMMA
70A0:	0F 68	932		DA VOCL
70A2:	9D 66	933		DA STORE
70A4:	50 68	934		DA DOES
70A6:	AE 68	935	DOVOC	DA TWOP
70AA:	4B 68	936		DA CON
70AA:	9D 66	937		DA STORE
70AC:	0C 65	938		DA SEMIS
	939	*		
	940	*	'FORTH' SCR=53, L=9	
	941	*		
70AE:	C5	942	L2346	HEX C5
70AF:	46 4F 52	943		DCI 'FORTH'
70B4:	79 70	944		DA L2321
70B6:	5C 6B	945	FORTH	DA DODOE
70B8:	A6 70	946		DA DOVOC
70BA:	81 A0	947		HEX 81A0 SMUDGED DUMMY NFA.
70BC:	27 79	948	XFOR	DA NTOP POINTS TO TOP NAME IN FORTH.
70BE:	00 00	949	VL0	HEX 0000 END OF VOCABULARY LIST.
	950	*		
	951	*	'DEFINITIONS' SCR=53, L=11	
	952	*		
70C0:	8B	953	L2357	HEX 8B
70C1:	44 45 46	954		DCI 'DEFINITIONS'
70CC:	AE 70	955		DA L2346
70CE:	D6 66	956	DEFIN	DA DOCOL
70D0:	4B 68	957		DA CON
70D2:	79 66	958		DA AT
70D4:	58 68	959		DA CURR
70D6:	9D 66	960		DA STORE
70D8:	0C 65	961		DA SEMIS

	962	*		
	963	*	'C'	SCR=53, L=14
	964	*		
70DA:	C1	965	L2349	HEX C1
70DB:	A8	966		ASC "C"
70DC:	C0 70	967		DA L2357
70DE:	D6 66	968		DA DOCOL
70E0:	67 61	969		DA CLIT
70E2:	29	970		HEX 29
70E3:	70 6D	971		DA WORD
70E5:	0C 65	972		DA SEMIS
	973	*		
	974	*	'QUIT'	SCR=54, L=2
	975	*		
70E7:	84	976	L2381	HEX 84
70E8:	51 55 49	977		DCI 'QUIT'
70EC:	DA 70	978		DA L2349
70EE:	D6 66	979	QUIT	DA DOCOL
70F0:	5D 67	980		DA ZERO
70F2:	18 68	981		DA BLK
70F4:	9D 66	982		DA STORE
70F6:	B5 6A	983		DA LBRAC
70F8:	FR 64	984	L2388	DA RPSTO
70FA:	F4 63	985		DA CR
70FC:	BA 6C	986		DA QUERY
70FE:	20 70	987		DA INTER
7100:	63 68	988		DA STATE
7102:	79 66	989		DA A1
7104:	73 65	990		DA ZEQU
7106:	56 62	991		DA ZBRAN
7108:	07 00	992	L2396	HEX 0700 L2399-L2396
710A:	F6 6B	993		DA PDOTQ
710C:	02	994		HEX 02
710D:	4F 4B	995		ASC 'OK'
710F:	37 62	996	L2399	DA BRAN
7111:	E7 FF	997	L2400	HEX E7FF L2388-L2400=\$FFE7
7113:	0C 65	998		DA SEMIS
	999	*		
	1000	*	'ABORT'	SCR=54, L=7
	1001	*		
7115:	85	1002	L2406	HEX 85
7116:	41 42 4F	1003		DCI 'ABORT'
7118:	E7 70	1004		DA L2381
711D:	D6 66	1005	ABORT	DA DOCOL
711F:	E8 64	1006		DA SPSTO
7121:	FD 6A	1007		DA DECIM
7123:	68 73	1008		DA DR0
7125:	F4 63	1009		DA CR
7127:	F6 6B	1010		DA PDOTQ
7129:	0E	1011		HEX 0E
712A:	46 49 47	1012		ASC 'FIG-FORTH 1.0'
7138:	B6 70	1013		DA FORTH
713A:	CE 70	1014		DA DEFIN
713C:	EE 70	1015		DA QUIT
	1016	*		
	1017	*	'COLD'	SCR=55, L=1
	1018	*		
713E:	84	1019	L2423	HEX 84
713F:	43 4F 4C	1020		DCI 'COLD'

7143:	15	71	1021	DA	L2406
7145:	47	71	1022 COLD	DA	COLD+2
7147:	AD	0C	61 1023	LDA	ORIG+\$0C FROM COLD START AREA
714A:	8D	BC	70 1024	STA	FORTH+6
714D:	AD	0D	61 1025	LDA	ORIG+\$0D
7150:	8D	BD	70 1026	STA	FORTH+7
7153:	A0	15	1027	LDY	#\$15
7155:	D0	02	1028	BNE	L2433
7157:	A0	0F	1029 WARM	LDY	#\$0F
7159:	AD	10	61 1030 L2433	LDA	ORIG+\$10
715C:	85	E3	1031	STA	UP
715E:	AD	11	61 1032	LDA	ORIG+\$11
7161:	85	E4	1033	STA	UP+1
7163:	B9	0C	61 1034 L2437	LDA	ORIG+\$0C,Y
7166:	91	E3	1035	STA	(UP),Y
7168:	88		1036	DEY	
7169:	10	F8	1037	BPL	L2437
716B:	A9	71	1038	LDA	#>ABORT ACTUALLY 'ABORT+2'
716D:	85	DF	1039	STA	IP+1
716F:	A9	1F	1040	LDA	#<ABORT+2
7171:	85	DE	1041	STA	IP
7173:	D8		1042	CLD	
7174:	A9	6C	1043	LDA	#\$6C
7176:	85	E0	1044	STA	W-1
7178:	4C	FA	64 1045	JMP	RPST0+2 AND AWAY WE GO!!!
			1046 *		
			1047 *	'S->D'	SCR=56, L=1
			1048 *		
717B:	84		1049 L2453	HEX	84
717C:	53	2D	3E 1050	DCI	'S->D'
7180:	3E	71	1051	DA	L2423
7182:	D6	66	1052 STOD	DA	DOCOL
7184:	3A	66	1053	DA	DUP
7186:	88	65	1054	DA	ZLESS
7188:	D8	65	1055	DA	MINUS
718A:	0C	65	1056	DA	SEMIS
			1057 *		
			1058 *	'+-'	SCR=56, L=4
			1059 *		
718C:	82		1060 L2464	HEX	82
718D:	2B	AD	1061	DCI	'+-'
718F:	7B	71	1062	DA	L2453
7191:	D6	66	1063 PM	DA	DOCOL
7193:	88	65	1064	DA	ZLESS
7195:	56	62	1065	DA	ZBRAN
7197:	04	00	1066 L2469	HEX	0400 L2471-L2469
7199:	D8	65	1067	DA	MINUS
719B:	0C	65	1068 L2471	DA	SEMIS
			1069 *		
			1070 *	'D+-'	SCR=56, L=6
			1071 *		
719D:	83		1072 L2476	HEX	83
719E:	44	2B	AD 1073	DCI	'D+-'
71A1:	8C	71	1074	DA	L2464
71A3:	D6	66	1075 DPM	DA	DOCOL
71A5:	88	65	1076	DA	ZLESS
71A7:	56	62	1077	DA	ZBRAN
71A9:	04	00	1078 L2481	HEX	0400 L2483-L2481
71AB:	F1	65	1079	DA	DMINU
71AD:	0C	65	1080 L2483	DA	SEMIS

	1081 *		
	1082 *	'ABS'	SCR=56, L=9
	1083 *		
71AF: 83	1084 L2488	HEX	83
71B0: 41 42 D3	1085	DCI	'ABS'
71B3: 9D 71	1086	DA	L2476
71B5: D6 66	1087 ABS	DA	DOCOL
71B7: 3A 66	1088	DA	DUP
71B9: 91 71	1089	DA	PM
71BB: 0C 65	1090	DA	SEMIS
	1091 *		
	1092 *	'DABS'	SCR=56, L=10
	1093 *		
71BD: 84	1094 L2498	HEX	84
71BE: 44 41 42	1095	DCI	'DABS'
71C2: AF 71	1096	DA	L2488
71C4: D6 66	1097 DABS	DA	DOCOL
71C6: 3A 66	1098	DA	DUP
71C8: A3 71	1099	DA	DPM
71CA: 0C 65	1100	DA	SEMIS
	1101 *		
	1102 *	'MIN'	SCR=56, L=12
	1103 *		
71CC: 83	1104 L2508	HEX	83
71CD: 4D 49 CE	1105	DCI	'MIN'
71D0: BD 71	1106	DA	L249R
71D2: D6 66	1107 MIN	DA	DOCOL
71D4: 08 66	1108	DA	OVER
71D6: 08 66	1109	DA	OVER
71D8: 3C 69	1110	DA	GREAT
71DA: 56 62	1111	DA	ZBRAN
71DC: 04 00	1112 L2515	HEX	0400 L2517-L2515
71DE: 22 66	1113	DA	SWAP
71E0: 19 66	1114 L2517	DA	DROP
71E2: 0C 65	1115	DA	SEMIS
	1116 *		
	1117 *	'MAX'	SCR=56, L=14
	1118 *		
71E4: 83	1119 L2523	HEX	83
71E5: 4D 41 D8	1120	DCI	'MAX'
71E8: CC 71	1121	DA	L2508
71EA: D6 66	1122 MAX	DA	DOCOL
71EC: 08 66	1123	DA	OVER
71EE: 08 66	1124	DA	OVER
71F0: 1F 69	1125	DA	LESS
71F2: 56 62	1126	DA	ZBRAN
71F4: 04 00	1127 L2530	HEX	0400 L2532-L2530
71F6: 22 66	1128	DA	SWAP
71F8: 19 66	1129 L2532	DA	DROP
71FA: 0C 65	1130	DA	SEMIS
	1131 *		
	1132 *	'M*'	SCR=57, L=1
	1133 *		
71FC: 82	1134 L2538	HEX	82
71FD: 4D AA	1135	DCI	'M*'
71FF: E4 71	1136	DA	L2523
7201: D6 66	1137 MSTAR	DA	DOCOL
7203: 08 66	1138	DA	OVER
7205: 08 66	1139	DA	OVER
7207: C3 64	1140	DA	XOR

7209: 3A 65	1141	DA	TOR
720B: B5 71	1142	DA	ABS
720D: 22 66	1143	DA	SWAP
720F: B5 71	1144	DA	ABS
7211: 23 64	1145	DA	USTAR
7213: 4C 65	1146	DA	RFROM
7215: A3 71	1147	DA	DPM
7217: 0C 65	1148	DA	SEMIS
	1149 *		
	1150 * 'M/' SCR=57, L=3		
	1151 *		
7219: 82	1152 L2556	HEX	82
721A: 4D AF	1153	DCI	'M/'
721C: FC 71	1154	DA	L2538
721E: D6 66	1155 MSLAS	DA	DOCOL
7220: 08 66	1156	DA	OVER
7222: 3A 65	1157	DA	TOR
7224: 3A 65	1158	DA	TOR
7226: C4 71	1159	DA	DABS
7228: 5D 65	1160	DA	R
722A: B5 71	1161	DA	ABS
722C: 5B 64	1162	DA	USLAS
722E: 4C 65	1163	DA	RFROM
7230: 5D 65	1164	DA	R
7232: C3 64	1165	DA	XOR
7234: 91 71	1166	DA	PM
7236: 22 66	1167	DA	SWAP
7238: 4C 65	1168	DA	RFROM
723A: 91 71	1169	DA	PM
723C: 22 66	1170	DA	SWAP
723E: 0C 65	1171	DA	SEMIS
	1172 *		
	1173 * '** SCR=57, L=7		
	1174 *		
7240: 81	1175 L2579	HEX	81
7241: AA	1176	ASC	"**"
7242: 19 72	1177	DA	L2556
7244: D6 66	1178 STAR	DA	DOCOL
7246: 23 64	1179	DA	USTAR
7248: 19 66	1180	DA	DROP
724A: 0C 65	1181	DA	SEMIS
	1182 *		
	1183 * '/MOD' SCR=57, L=8		
	1184 *		
724C: 84	1185 L2589	HEX	84
724D: 2F 4D 4F	1186	DCI	'/MOD'
7251: 40 72	1187	DA	L2579
7253: D6 66	1188 SLMOD	DA	DOCOL
7255: 3A 65	1189	DA	TOR
7257: 82 71	1190	DA	STOD
7259: 4C 65	1191	DA	RFROM
725B: 1E 72	1192	DA	MSLAS
725D: 0C 65	1193	DA	SEMIS
	1194 *		
	1195 * '/* SCR=57, L=9		
	1196 *		
725F: 81	1197 L2601	HEX	81
7260: AF	1198	ASC	"/*"

7261:	4C 72	1199	DA	L2589
7263:	D6 66	1200 SLASH	DA	DOCOL
7265:	53 72	1201	DA	SLMOD
7267:	22 66	1202	DA	SWAP
7269:	19 66	1203	DA	DROP
726B:	0C 65	1204	DA	SEMIS
		1205 *		
		1206 *	'MOD'	SCR=57, L=10
		1207 *		
726D:	83	1208 L2612	HEX	83
726E:	4D 4F C4	1209	DCI	'MOD'
7271:	5F 72	1210	DA	L2601
7273:	D6 66	1211 MOD	DA	DOCOL
7275:	53 72	1212	DA	SLMOD
7277:	19 66	1213	DA	DROP
7279:	0C 65	1214	DA	SEMIS
		1215 *		
		1216 *	'*/MOD'	SCR=57, L=11
		1217 *		
727B:	85	1218 L2622	HEX	85
727C:	2A 2F 4D	1219	DCI	'*/MOD'
7281:	6D 72	1220	DA	L2612
7283:	D6 66	1221 SSMOD	DA	DOCOL
7285:	3A 65	1222	DA	TOR
7287:	01 72	1223	DA	MSTAR
7289:	4C 65	1224	DA	RFROM
728B:	1E 72	1225	DA	MSLAS
728D:	0C 65	1226	DA	SEMIS
		1227 *		
		1228 *	'*/'	SCR=57, L=13
		1229 *		
728F:	82	1230 L2634	HEX	82
7290:	2A AF	1231	DCI	'*/'
7292:	7B 72	1232	DA	L2622
7294:	D6 66	1233 SSLAS	DA	DOCOL
7296:	83 72	1234	DA	SSMOD
7298:	22 66	1235	DA	SWAP
729A:	19 66	1236	DA	DROP
729C:	0C 65	1237	DA	SEMIS
		1238 *		
		1239 *	'M/MOD'	SCR=57, L=14
		1240 *		
729E:	85	1241 L2645	HEX	85
729F:	4D 2F 4D	1242	DCI	'M/MOD'
72A4:	8F 72	1243	DA	L2634
72A6:	D6 66	1244 MSMOD	DA	DOCOL
72A8:	3A 65	1245	DA	TOR
72AA:	5D 67	1246	DA	ZERO
72AC:	5D 65	1247	DA	R
72AE:	5B 64	1248	DA	USLAS
72B0:	4C 65	1249	DA	RFROM
72B2:	22 66	1250	DA	SWAP
72B4:	3A 65	1251	DA	TOR
72B6:	5B 64	1252	DA	USLAS
72B8:	4C 65	1253	DA	RFROM
72BA:	0C 65	1254	DA	SEMIS
		1255 *	END PART TWO	

--- END ASSEMBLY ---

TOTAL ERRORS: 0

2010 BYTES GENERATED THIS ASSEMBLY


```

1 ****
2 *
3 * APPLE II FIG-FORTH *
4 * V 1.0 *
5 *
6 * PART THREE *
7 *
8 * ROBERT E.KUNTZE *
9 *
10 ****
11 *
12 * EQUATES FROM PARTS
13 * ONE AND TWO NEEDED
14 * TO ASSEMBLE THIS
15 * PART OF THE SOURCE.
16 *
17 IP EQU $00DE
18 W EQU $00E1
19 PUSH EQU $613D
20 CLIT EQU $6167
21 BRAN EQU $6237
22 ZBRAN EQU $6256
23 PLOOP EQU $6277
24 PDO EQU $62DE
25 I EQU $62F7
26 EMIT EQU $63D7
27 SEMIS EQU $650C
28 LEAVE EQU $651F
29 TOR EQU $653A
30 RFROM EQU $654C
31 R EQU $655D
32 PLUS EQU $6599
33 OVER EQU $6608
34 DROP EQU $6619
35 SWAP EQU $6622
36 DUP EQU $663A
37 AT EQU $6679
38 CAT EQU $668E
39 STORE EQU $669D
40 DOCOL EQU $66D6
41 CONST EQU $670B
42 ZERO EQU $675D
43 ONE EQU $6765
44 BL EQU $677E
45 STATE EQU $6863
46 BASE EQU $686D
47 ONEP EQU $68A1
48 HERE EQU $68BD
49 ALLOT EQU $68CD
50 SUB EQU $68FA
51 DDUP EQU $696D
52 LATES EQU $69A8
53 CFA EQU $69C7
54 PFA EQU $69EA
55 QCSP EQU $6A6A
56 COMP EQU $6A9F
57 LBRAC EQU $6AB5
58 L2645 EQU $729E
59 SMUDG EQU $6AD7
60 KEY EQU $63DF

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61	PORIG	EQU	\$67C6
62	FQUAL	EQU	\$6906
63	TWO	EQU	\$676D
64	CSTOR	EQU	\$66B5
65	TIB	EQU	\$67D6
66	TN	EQU	\$6820
67	BLK	EQU	\$6818
68	PSTOR	EQU	\$6649
69	BSCR	EQU	\$67B8
70	USLAS	EQU	\$645B
71	ZEGU	EQU	\$6573
72	GEXEC	EQU	\$6A42
73	CMOVE	EQU	\$63FE
74	LIT	EQU	\$612A
75	HLD	EQU	\$6899
76	ENCL	EQU	\$6398
77	GREAT	EQU	\$693C
78	TOGGL	EQU	\$666A
79	DIGIT	EQU	\$6301
80	USTAR	EQU	\$6423
81	ROT	EQU	\$694A
82	DPLUS	EQU	\$65B2
83	DPL	EQU	\$6876
84	GERR	EQU	\$6A11
85	DMINU	EQU	\$65F1
86	CON	EQU	\$684B
87	PFIND	EQU	\$6332
88	WARN	EQU	\$67EE
89	ZLESS	EQU	\$6588
90	SPSTO	EQU	\$64E8
91	LFA	EQU	\$69B8
92	ANDD	EQU	\$6498
93	SPACE	EQU	\$695E
94	ULESS	EQU	\$6913
95	NFA	EQU	\$69D5
96	WIDTH	EQU	\$67E1
97	DP	EQU	\$6801
98	COMMA	EQU	\$68D9
99	CURR	EQU	\$6858
100	TWOP	EQU	\$68AE
101	SPAT	EQU	\$64D9
102	LESS	EQU	\$691F
103	EXEC	EQU	\$621F
104	VOCL	EQU	\$680F
105	RPSTO	EQU	\$64F8
106	CR	EQU	\$63F4
107	ORIG	EQU	\$6100
108	UP	EQU	\$00E3
109	MINUS	EQU	\$65D8
110	XOR	EQU	\$64C3
111	DOVAR	EQU	\$6731
112	DAREA	EQU	\$9170
113	SSIZE	EQU	\$0100
114	LIMI1	EQU	\$67A0
115	FIRST	EQU	\$6794
116	OR	EQU	\$64AD
117	BEUF	EQU	\$67AC
118	OFSET	EQU	\$683E
119	SECTR	EQU	\$0230
120	CSLL	EQU	\$6788

121	QLOAD	EQU	\$6A86		
122	SLASH	EQU	\$7263		
123	ERASE	EQU	\$6D26		
124	SSMOD	EQU	\$7283		
125	STAR	EQU	\$7244		
126	DTRAI	EQU	\$6BC3		
127	TYPE	EQU	\$6B95		
128	PDOTG	EQU	\$6BF6		
129	INTER	EQU	\$7020		
130	MOD	EQU	\$7273		
131	NEXT	EQU	\$6144		
132	INCH	EQU	\$FD0C		
133	OUTCH	EQU	\$FD0E		
134	TCR	EQU	\$FD0E		
135	PUSHOA	EQU	\$64DC		
136	POP	EQU	\$62EE		
137	DOCON	EQU	\$6715		
138	DFIND	EQU	\$6E8D		
139	LITER	EQU	\$6FC1		
140	FENCE	EQU	\$67F9		
141	FORTH	EQU	\$70B6		
142	DEFIN	EQU	\$70CE		
143	QCOMP	EQU	\$6A2B		
144	UPAIR	EQU	\$6A58		
145	THREE	EQU	\$6775		
146	PPL00	EQU	\$62A7		
147	MAX	EQU	\$71EA		
148	PAD	EQU	\$6D5E		
149	HOLD	EQU	\$6D46		
150	MSMOD	EQU	\$72A6		
151	DABS	EQU	\$71C4		
152	STOD	EQU	\$7182		
153	DECIM	EQU	\$6AFD		
154	SCR	EQU	\$6832		
155	QTERM	EQU	\$63ED		
156	OUT	EQU	\$6829		
157	IDDOI	EQU	\$6F02		
158	XSAVE	EQU	\$00E5		
159	SLMOD	EQU	\$7253		
160	*				
161		OBJ	\$7B00		
162		ORG	\$72BC LINK TO PART TWO		
163	*				
164	*	'USE'	SCR=58, L=1		
165	*				
72BC:	83	166	L2662	HEX	83
72BD:	55 53 C5	167		DCI	'USE'
72C0:	9E 72	168		DA	L2645
72C2:	31 67	169	USE	DA	DOVAR
72C4:	70 91	170		DA	DAREA
		171	*		
		172	*	'PREV'	SCR=58, L=2
		173	*		
72C6:	84	174	L2670	HEX	84
72C7:	50 52 45	175		DCI	'PREV'
72CB:	BC 72	176		DA	L2662
72CD:	31 67	177	PREV	DA	DOVAR
72CF:	70 91	178		DA	DAREA

	179	*		
	180	*	'+BUF'	SCR=58, L=4
	181	*		
72D1:	84	182	L2678	HEX 84
72D2:	2B 42 55	183		DCI '+BUF'
72D6:	C6 72	184		DA L2670
72D8:	D6 66	185	PBUF	DA DOCOL
72DA:	2A 61	186		DA LIT
72DC:	04 01	187		DA SSIZE+4 HOLDS BLOCK NUMBER,
72DE:	99 65	188		DA PLUS ONE SECTOR, TWO NUMBERS.
72E0:	3A 66	189		DA DUP
72E2:	A0 67	190		DA LIMIT
72E4:	06 69	191		DA EQUAL
72E6:	56 62	192		DA ZBRAN
72E8:	06 00	193	L2688	HEX 0600 L2691-L2688
72EA:	19 66	194		DA DROP
72EC:	94 67	195		DA FIRST
72EE:	3A 66	196	L2691	DA DUP
72F0:	CD 72	197		DA PREV
72F2:	79 66	198		DA AT
72F4:	FA 68	199		DA SUB
72F6:	0C 65	200		DA SEMIS
	201	*		
	202	*	'UPDATE'	SCR=58, L=8
	203	*		
72F8:	86	204	L2700	HEX 86
72F9:	55 50 44	205		DCI 'UPDATE'
72FF:	D1 72	206		DA L2678
7301:	D6 66	207	UPDAT	DA DOCOL
7303:	CD 72	208		DA PREV
7305:	79 66	209		DA AT
7307:	79 66	210		DA AT
7309:	2A 61	211		DA LIT
730B:	00 80	212		HEX 0080 \$8000
730D:	AD 64	213		DA OR
730F:	CD 72	214		DA PREV
7311:	79 66	215		DA AT
7313:	9D 66	216		DA STORE
7315:	0C 65	217		DA SEMIS
	218	*		
	219	*	'FLUSH'	SCR=92, L=4
	220	*		
7317:	85	221	L2705	HFX 85
7318:	46 4C 55	222		DCI 'FLUSH'
731D:	F8 72	223		DA L2700
731F:	D6 66	224		DA DOCOL
7321:	A0 67	225		DA LIMIT
7323:	94 67	226		DA FIRST
7325:	FA 68	227		DA SUB
7327:	AC 67	228		DA BBUF
7329:	67 61	229		DA CLTT
732B:	04	230		HEX 04
732C:	99 65	231		DA PLUS
732E:	63 72	232		DA SLASH
7330:	A1 68	233		DA ONEP
7332:	5D 67	234		DA ZERO
7334:	DE 62	235		DA PDO
7336:	2A 61	236	L2835	DA LIT
7338:	FF 7F	237		HEX FF7F \$7FFF
733A:	8D 73	238		DA BUFFR
733C:	19 66	239		DA DROP
733E:	77 62	240		DA PLOOP
7340:	F6 FF	241	L2839	HEX F6FF L2835-L2839=\$FFF6
7342:	0C 65	242		DA SEMIS

243	*					
244	*	'EMPTY-BUFFERS'	SCR=58,	L=11		
245	*					
7344:	8D	246	L2716	HEX	RD	
7345:	45 4D 50	247		DCI	'EMPTY-BUFFERS'	
7352:	17 73	248		DA	L2705	
7354:	D6 66	249		DA	DOCOL	
7356:	94 67	250		DA	FIRST	
7358:	A0 67	251		DA	LIMIT	
735A:	08 66	252		DA	OVER	
735C:	FA 68	253		DA	SUB	
735E:	26 6D	254		DA	ERASE	
7360:	0C 65	255		DA	SEMI S	
		256	*			
		257	*	'DR0'	SCR=58, L=14	
		258	*			
7362:	83	259	L2729	HEX	83	
7363:	44 52 B0	260		DCI	'DR0'	
7366:	44 73	261		DA	L2716	
7368:	D6 66	262	DR0	DA	DOCOL	
736A:	5D 67	263		DA	ZERO	
736C:	3E 68	264		DA	OFFSET	
736E:	9D 66	265		DA	STORE	
7370:	0C 65	266		DA	SEMI S	
		267	*			
		268	*	'DR1'	SCR=58, L=15	
		269	*			
7372:	83	270	L2740	HEX	83	
7373:	44 52 B1	271		DCI	'DR1'	
7376:	62 73	272		DA	L2729	
7378:	D6 66	273		DA	DOCOL	
737A:	2A 61	274		DA	LIT	
737C:	30 02	275		DA	SECTR	
737E:	3E 68	276		DA	OFFSET	
7380:	9D 66	277		DA	STORE	
7382:	0C 65	278		DA	SEMI S	
		279	*			
		280	*	'BUFFER'	SCR=59, L=1	
		281	*			
7384:	86	282	L2751	HEX	86	
7385:	42 55 46	283		DCI	'BUFFER'	
738B:	72 73	284		DA	L2740	
738D:	D6 66	285	BUFFER	DA	DOCOL	
738F:	C2 72	286		DA	USE	
7391:	79 66	287		DA	AT	
7393:	3A 66	288		DA	DUP	
7395:	3A 65	289		DA	TOK	
7397:	D8 72	290	L2758	DA	PBUF	
7399:	56 62	291		DA	ZBRAN	
739B:	FC FF	292	L2760	HEX	FCFF	L2758-L2760=\$FFFFC
739D:	C2 72	293		DA	USE	
739F:	9D 66	294		DA	STORE	
73A1:	5D 65	295		DA	R	
73A3:	79 66	296		DA	AT	
73A5:	88 65	297		DA	ZLESS	
73A7:	56 62	298		DA	ZBRAN	
73A9:	14 00	299	L2767	HEX	1400	L2776-L2767
73AB:	5D 65	300		DA	K	

73AD:	AE	68	301		DA	TWOP	
73AF:	5D	65	302		DA	R	
73B1:	79	66	303		DA	A1	
73B3:	2A	61	304		DA	LIT	
73B5:	FF	7F	305		HEX	FF7F	\$7FFF
73B7:	98	64	306		DA	ANDD	
73B9:	5D	67	307		DA	ZERO	
73B8:	59	75	308		DA	RSLW	
73BD:	5D	65	309	L2776	DA	R	
73BF:	9D	66	310		DA	STORE	
73C1:	5D	65	311		DA	R	
73C3:	CD	72	312		DA	PREV	
73C5:	9D	66	313		DA	STORE	
73C7:	4C	65	314		DA	RFROM	
73C9:	AE	68	315		DA	TWOP	
73CB:	0C	65	316		DA	SEMS	
		317	*				
		318	*	'BLOCK'	SCR=60,	L=1	
		319	*				
73CD:	85		320	L2788	HEX	85	
73CE:	42	4C	4F	321	DCI	'BLOCK'	
73D3:	84	73	322		DA	L2751	
73D5:	D6	66	323	BLOCK	DA	DOCOL	
73D7:	3E	68	324		DA	OFSET	
73D9:	79	66	325		DA	AT	
73DR:	99	65	326		DA	PLUS	
73DD:	3A	65	327		DA	TOK	
73DF:	CD	72	328		DA	PREV	
73E1:	79	66	329		DA	AT	
73E3:	3A	66	330		DA	DUP	
73E5:	79	66	331		DA	AT	
73E7:	5D	65	332		DA	R	
73E9:	FA	68	333		DA	SUB	
73EB:	3A	66	334		DA	DUP	
73ED:	99	65	335		DA	PLUS	
73EF:	56	62	336		DA	ZBRAN	
73F1:	34	00	337	L2804	HEX	3400	L2830-L2804
73F3:	D8	72	338	L2805	DA	PBUF	
73F5:	73	65	339		DA	ZEGU	
73F7:	56	62	340		DA	ZBRAN	
73F9:	14	00	341	L2808	HEX	1400	L2818-L2808
73FB:	19	66	342		DA	DROP	
73FD:	5D	65	343		DA	R	
73FF:	8D	73	344		DA	BUFFR	
7401:	3A	66	345		DA	DUP	
7403:	5D	65	346		DA	R	
7405:	65	67	347		DA	ONE	
7407:	59	75	348		DA	RSLW	
7409:	6D	67	349		DA	TWO	
740B:	FA	68	350		DA	SUB	
740D:	3A	66	351	L2818	DA	DUP	
740F:	79	66	352		DA	AT	
7411:	5D	65	353		DA	R	
7413:	FA	68	354		DA	SUB	
7415:	3A	66	355		DA	DUP	
7417:	99	65	356		DA	PLUS	
7419:	73	65	357		DA	ZEGU	
741B:	56	62	358		DA	ZBRAN	
741D:	D6	FF	359	L2826	HEX	D6FF	L2805-L2826=\$FFD6
741F:	3A	66	360		DA	DUP	

7421: CD 72	361		DA	PREV
7423: 9D 66	362		DA	STORE
7425: 4C 65	363	L2830	DA	RFROM
7427: 19 66	364		DA	DROP
7429: AE 68	365		DA	TWOP
742E: 0C 65	366		DA	SEMS END OF 'BLOCK'
	367	*		
	368	*	'(LINE)'	SCR=61, L=2
	369	*		
742D: 86	370	L2838	HEX	86
742E: 28 4C 49	371		DCI	'(LINE)'
7434: CD 73	372		DA	L2788
7436: D6 66	373	PLINE	DA	DOCOL
7438: 3A 65	374		DA	TOR
743A: 88 67	375		DA	CSLL
743C: AC 67	376		DA	BBUF
743E: 83 72	377		DA	SSMOD
7440: 4C 65	378		DA	RFROM
7442: 88 67	379		DA	BSCR
7444: 44 72	380		DA	STAR
7446: 99 65	381		DA	PLUS
7448: D5 73	382		DA	BLOCK
744A: 99 65	383		DA	PLUS
744C: 88 67	384		DA	CSLL
744E: 0C 65	385		DA	SEMS
	386	*		
	387	*	'.LINE'	SCR=61, L=6
	388	*		
7450: 85	389	L2857	HEX	85
7451: 2E 4C 49	390		DCI	'.LINE'
7456: 2D 74	391		DA	L2838
7458: D6 66	392	DLINE	DA	DOCOL
745A: 36 74	393		DA	PLINE
745C: C3 68	394		DA	DTRAI
745E: 95 68	395		DA	TYPE
7460: 0C 65	396		DA	SEMS
	397	*		
	398	*	'MESSAGE'	SCR=61, L=9
	399	*		
7462: 87	400	L2868	HEX	87
7463: 4D 45 53	401		DCI	'MESSAGE'
746A: 50 74	402		DA	L2857
746C: D6 66	403	MESS	DA	DOCOL
746E: EE 67	404		DA	WARN
7470: 79 66	405		DA	AI
7472: 56 62	406		DA	ZBRAN
7474: 1B 00	407	L2874	HEX	1B00 L2888-L2874
7476: 6D 69	408		DA	DDUP
7478: 56 62	409		DA	ZBRAN
747A: 11 00	410	L2877	HEX	1100 L2886-L2877
747C: 67 61	411		DA	CLIT
747E: 04	412		HEX	04
747F: 3E 68	413		DA	OFFSET
7481: 79 66	414		DA	AT
7483: 88 67	415		DA	BSCR
7485: 63 72	416		DA	SLASH
7487: FA 68	417		DA	SUB
7489: 58 74	418		DA	DLINE
748B: 37 62	419	L2886	DA	BRAN
748D: 0D 00	420	L2887	HEX	0D00 L2891-L2887

748F:	F6	6B	421	L2888	DA	PDOTQ
7491:	06		422		HEX	06
7492:	4D	53	47	423	ASC	'MSG' # *
7493:	20	78		424	DA	DOT
749A:	0C	65		425	L2891	DA SEMIS
			426	*		
			427	*	'LOAD'	SCR=62, L=2
			428	*		
749C:	84		429	L2896	HEX	84
749D:	4C	4F	41	430	DCI	'LOAD'
74A1:	62	74		431	DA	L2868
74A3:	D6	66		432	LOAD	DA DOCOL
74A5:	18	68		433		DA BLK
74A7:	79	66		434		DA AT
74A9:	3A	65		435		DA TOR
74AB:	20	68		436		DA IN
74AD:	79	66		437		DA AT
74AF:	3A	65		438		DA TOR
74E1:	5D	67		439		DA ZERO
74B3:	20	68		440		DA IN
74B5:	9D	66		441		DA STORE
74B7:	B8	67		442		DA BSCR
74B9:	44	72		443		DA STAR
74BB:	18	68		444		DA BLK
74BD:	9D	66		445		DA STORE
74BF:	20	70		446		DA INTER
74C1:	4C	65		447		DA RFROM
74C3:	20	68		448		DA IN
74C5:	9D	66		449		DA STORE
74C7:	4C	65		450		DA RFROM
74C9:	18	68		451		DA BLK
74CB:	9D	66		452		DA STORE
74CD:	0C	65		453		DA SEMIS
			454	*		
			455	*	'-->'	SCR=62, L=6
			456	*		
74CF:	C3		457	L2924	HEX	C3
74D0:	2D	2D	EE	458	DCI	'-->'
74D3:	9C	74		459	DA	L2896
74D5:	D6	66		460	DA	DOCOL
74D7:	86	6A		461	DA	QLOAD
74D9:	5D	67		462	DA	ZERO
74DB:	20	68		463	DA	IN
74DD:	9D	66		464	DA	STORE
74DF:	B8	67		465	DA	BSCR
74E1:	18	68		466	DA	BLK
74E3:	79	66		467	DA	AT
74E5:	08	66		468	DA	OVER
74E7:	73	72		469	DA	MOD
74E9:	FA	68		470	DA	SUB
74EB:	18	68		471	DA	BLK
74ED:	49	66		472	DA	PSIOR
74EF:	0C	65		473	DA	SEMIS
			474	*		
			475	*	'HOME'	SCR=7, L=1
			476	*		
74F1:	84		477	LA100	HEX	84
74F2:	48	4F	4D	478	DCI	'HOME'
74F6:	CF	74		479	DA	L2924
74F8:	FA	74		480	HOME	DA HOME+2
74FA:	20	58	FC	481	JSR	\$FC58
74FD:	4C	44	61	482	JMP	NEXT

	483	*		
	484	*	'SCROLL'	SCR=7, L=2
	485	*		
7500:	86	486	LA200	HEX 86
7501:	53 43 52	487	DCI	'SCROLL'
7507:	F1 74	488	DA	LA100
7509:	0B 75	489	SCROL	DA SCROL+2
750B:	20 70 FC	490	JSR	\$FC70
750E:	4C 44 61	491	JMP	NEXT
	492	*		
	493	*	'XKEY'	SCR=7, L=4
	494	*		
7511:	20 0C FD	495	XKEY	JSR INCH
7514:	29 7F	496	AND	#\$7F
7516:	4C DC 64	497	JMP	PUSH0A
	498	*		
	499	*	'XEMIT'	SCR=7, L=6
	500	*		
7519:	E5 00	501	XEMIT	LDA \$00,X
751B:	09 80	502	ORA	#\$80
751D:	20 ED FD	503	JSR	OUTCH
7520:	4C EE 62	504	JMP	POP
	505	*		
	506	*	'XCR'	SCR=7, L=8
	507	*		
7523:	20 8E FD	508	XCR	JSR TCR
7526:	4C 44 61	509		JMP NEXT
	510	*		
	511	*	'XGTER'	SCR=7, L=10
	512	*		
7529:	2C 00 C0	513	XGTER	BIT \$C000
752C:	10 09	514	BPL	LA306
752E:	2C 10 C0	515	LA302	BIT \$C010
7531:	2C 00 C0	516		BIT \$C000
7534:	30 F8	517	BMI	LA302
7536:	C8	518	INY	
7537:	98	519	LA306	TYA
7538:	4C DC 64	520		JMP PUSH0A
	521	*		
	522	*	'(R/W)'	MACHINE CODE ROUTINE
	523	*		
753B:	85	524	LA400	HEX 85
753C:	28 52 2F	525	DCI	'(R/W)'
7541:	00 75	526	DA	LA200
7543:	45 75	527	PRSLW	DA PRSLW+2
7545:	86 E5	528		STX XSAVE
7547:	A9 B7	529	LDA	#\$B7 \$B7EB=IOR ADDRESS
7549:	A0 F8	530	LDY	#\$E8 IN DOS 3.3.
754B:	20 00 BD	531	JSR	\$BD00
754E:	A6 E5	532	LDX	XSAVE
7550:	4C 44 61	533		JMP NEXT
	534	*		
	535	*	'R/W'	FOR APPLE DOS 3.3
	536	*		
7553:	83	537	L3060	HEX 83
7554:	52 2F D7	538	DCI	'R/W'
7557:	3B 75	539	DA	LA400
7559:	D6 66	540	RSLW	DA DOCOL

755B: SD 67	541	DA	ZERO
755D: 2A 61	542	DA	LIT
755F: EB B7	543	HEX	EBB7 IBVOL=00
7561: B5 66	544	DA	CSTOR
7563: 56 62	545	DA	ZBRAN IF FLAG=0, WRITE
7565: 0E 00	546	L3069	HEX 0E00 L3076-L3069
7567: 65 67	547	DA	ONE
7569: 2A 61	548	DA	LIT
756B: F4 B7	549	HEX	F4B7 IBCMD=01 FOR READ
756D: B5 66	550	DA	CSTOR
756F: 37 62	551	DA	BRAN
7571: 0A 00	552	L3075	HEX 0A00 L3080-L3075
7573: 6D 67	553	L3076	DA TWO
7575: 2A 61	554	DA	LIT
7577: F4 B7	555	HEX	F4B7 IBCMD=02 FOR WRITE
7579: B5 66	556	DA	CSTOR
757B: 2A 61	557	L3080	DA LIT
757D: 10 00	558	HEX	1000 \$10 SECTORS/TRACK
757F: 53 72	559	DA	SLMOD
7581: 2A 61	560	DA	LIT
7583: EC B7	561	HEX	ECB7 IBTRK=QUOTIENT
7585: B5 66	562	DA	CSTOR
7587: 2A 61	563	DA	LIT
7589: ED B7	564	HEX	EDB7 IBSECT=REMAINDER
758B: B5 66	565	DA	CSTOR
758D: 2A 61	566	DA	LIT
758F: F0 B7	567	HEX	F0B7 IBBUFF
7591: 9D 66	568	DA	STORE
7593: 43 75	569	DA	PRSLW
7595: 0C 65	570	DA	SEMIS
	571	*	
	572	*	'SCR=72, L=2'
	573	*	
7597: C1	574	L3202	HEX C1
7598: A7	575		HEX A7
7599: 53 75	576		DA L3060
759B: D6 66	577	TICK	DA DOCOL
759D: 8D 4E	578		DA DFIND
759F: 73 65	579		DA ZEGU
75A1: SD 67	580		DA ZERO
75A3: 11 6A	581		DA GERR
75A5: 19 66	582		DA DROP
75A7: C1 6F	583		DA LITER
75A9: 0C 65	584		DA SEMIS
	585	*	
	586	*	'FORGET' SCR=72, L=6
	587	*	ALTERED FROM MODEL
	588	*	
75AB: 86	589	L3217	HEX 86
75AC: 46 4F 52	590	DCI	'FORGET'
75B2: 97 75	591	DA	L3202
75B4: D6 66	592	FORG	DA DOCOL
75B6: 9B 75	593		DA TICK
75B8: D5 69	594		DA NFA
75BA: 3A 66	595		DA DUP
75BC: F9 67	596		DA FENCE
75BE: 79 66	597		DA AT
75C0: 13 69	598		DA ULESS
75C2: 67 61	599		DA CLIT

75C4:	15	600	HEX	15
75C5:	11 6A	601	DA	ERR
75C7:	3A 65	602	DA	TOR
75C9:	0F 68	603	DA	VOCL
75CB:	79 66	604	DA	AT
75CD:	5D 65	605 L3220	DA	R
75CF:	08 66	606	DA	OVER
75D1:	13 69	607	DA	ULESS
75D3:	56 62	608	DA	ZBRAN
75D5:	12 00	609 L3222	HEX	1200 L3225-L3222
75D7:	B6 70	610	DA	FORTH
75D9:	CE 70	611	DA	DEFIN
75DR:	79 66	612	DA	AT
75DD:	3A 66	613	DA	DUP
75DF:	0F 68	614	DA	VOCL
75E1:	9D 66	615	DA	STORE
75E3:	37 62	616	DA	BRAN
75E5:	E8 FF	617 L3224	HEX	E8FF L3220-L3224
75E7:	3A 66	618 L3225	DA	DUP
75E9:	67 61	619	DA	CLIT
75EE:	04	620	HEX	04
75EC:	FA 68	621	DA	SUB
75EE:	EA 69	622 L3228	DA	PFA
75F0:	B8 69	623	DA	LFA
75F2:	79 66	624	DA	AT
75F4:	3A 66	625	DA	DUP
75F6:	5D 65	626	DA	R
75F8:	13 69	627	DA	ULESS
75FA:	56 62	628	DA	ZBRAN
75FC:	F2 FF	629 L3230	HEX	F2FF L-3228-L3230=\$FFF2
75FE:	08 66	630	DA	OVER
7600:	6D 67	631	DA	TWO
7602:	FA 68	632	DA	SUB
7604:	9D 66	633	DA	STORE
7606:	79 66	634	DA	AT
7608:	6D 69	635	DA	DDUP
760A:	73 65	636	DA	ZEGU
760C:	56 62	637	DA	ZBRAN
760E:	D9 FF	638 L3233	HEX	D9FF L3225-L3233=\$FFD9
7610:	4C 65	639	DA	RFROM
7612:	01 68	640	DA	DF
7614:	9D 66	641	DA	STORE
7616:	0C 65	642	DA	SEMIS
	643	*		
	644	*	'BACK'	SCR=73, L=1
	645	*		
7618:	84	646 L3250	HEX	84
7619:	42 41 43	647 DCI	'BACK'	
761D:	AB 75	648 DA	L3217	
761F:	D6 66	649 BACK	DA	DOCOL
7621:	BD 68	650 DA	HERE	
7623:	FA 68	651 DA	SUB	
7625:	D9 68	652 DA	COMMA	
7627:	0C 65	653 DA	SEMIS	
	654	*		
	655	*	'BEGIN'	SCR=73, L=3
	656	*		
7629:	C5	657 L3261	HEX	C5
762A:	42 45 47	658 DCI	'BEGIN'	
762F:	18 76	659 DA	L3250	
7631:	D6 66	660 DA	DOCOL	

7633: 2B 6A	661		DA	QCOMP
7635: BD 68	662		DA	HERE
7637: 65 67	663		DA	ONE
7639: 0C 65	664		DA	SEMIS
	665	*		
	666	*	'ENDIF'	SCR=73, L=5
	667	*		
763B: C5	668	L3273	HEX	C5
763C: 45 4E 44	669		DCI	'ENDIF'
7641: 29 76	670		DA	L3261
7643: D6 66	671	ENDIF	DA	DOCOL
7645: 2B 6A	672		DA	QCOMP
7647: 6D 67	673		DA	TWO
7649: 58 6A	674		DA	QPAIR
764B: BD 68	675		DA	HERE
764D: 08 66	676		DA	OVER
764F: FA 68	677		DA	SUB
7651: 22 66	678		DA	SWAP
7653: 9D 66	679		DA	STORE
7655: 0C 65	680		DA	SEMIS
	681	*		
	682	*	'THEN'	SCR=73, L=7
	683	*		
7657: C4	684	L3290	HEX	C4
7658: 54 48 45	685		DCI	'THEN'
765C: 3B 76	686		DA	L3273
765E: D6 66	687		DA	DOCOL
7660: 43 76	688		DA	ENDIF
7662: 0C 65	689		DA	SEMIS
	690	*		
	691	*	'DO'	SCR=73, L=9
	692	*		
7664: C2	693	L3300	HEX	C2
7665: 44 CF	694		DCI	'DO'
7667: 57 76	695		DA	L3290
7669: D6 66	696		DA	DOCOL
766B: 9F 6A	697		DA	COMP
766D: DE 62	698		DA	PDO
766F: BD 68	699		DA	HERE
7671: 75 67	700		DA	THREE
7673: 0C 65	701		DA	SEMIS
	702	*		
	703	*	'LOOP'	SCR=73, L=11
	704	*		
7675: C4	705	L3313	HEX	C4
7676: 4C 4F 4F	706		DCI	'LOOP'
767A: 64 76	707		DA	L3300
767C: D6 66	708		DA	DOCOL
767E: 75 67	709		DA	THREE
7680: 58 6A	710		DA	QPAIR
7682: 9F 6A	711		DA	COMP
7684: 77 62	712		DA	PLOOP
7686: 1F 76	713		DA	BACK
7688: 0C 65	714		DA	SEMIS
	715	*		
	716	*	'+LOOP'	SCR=73, L=13
	717	*		
768A: C5	718	L3327	HEX	C5
768B: 2B 4C 4F	719		DCI	'+LOOP'
7690: 75 76	720		DA	L3313

7692:	D6 66	721	DA	DOCOL
7694:	75 67	722	DA	THREE
7696:	58 6A	723	DA	QPAIR
7698:	9F 6A	724	DA	COMP
769A:	A7 62	725	DA	PPLOO
769C:	1F 76	726	DA	BACK
769E:	0C 65	727	DA	SEMIS
		728 *		
		729 *	'UNTIL'	SCR=73, L=15
		730 *		
76A0:	C5	731	L3341	HEX C5
76A1:	55 4E 54	732	DCI	'UNTIL'
76A6:	8A 76	733	DA	L3327
76A8:	D6 66	734	UNTIL	DA DOCOL
76AA:	65 67	735	DA	ONE
76AC:	58 6A	736	DA	QPAIR
76AE:	9F 6A	737	DA	COMP
76B0:	56 62	738	DA	ZBRAN
76B2:	1F 76	739	DA	BACK
76B4:	0C 65	740	DA	SEMIS
		741 *		
		742 *	'END'	SCR=, L=1
		743 *		
76B6:	C3	744	L3355	HEX C3
76B7:	45 4E C4	745	DCI	'END'
76BA:	A0 76	746	DA	L3341
76BC:	D6 66	747	DA	DOCOL
76BE:	A8 76	748	DA	UNTIL
76C0:	0C 65	749	DA	SEMIS
		750 *		
		751 *	'AGAIN'	SCR=74, L=3
		752 *		
76C2:	C5	753	L3365	HEX C5
76C3:	41 47 41	754	DCI	'AGAIN'
76C8:	B6 76	755	DA	L3355
76CA:	D6 66	756	AGAIN	DA DOCOL
76CC:	65 67	757	DA	ONE
76CE:	58 6A	758	DA	QPAIR
76D0:	9F 6A	759	DA	COMP
76D2:	37 62	760	DA	BRAN
76D4:	1F 76	761	DA	BACK
76D6:	0C 65	762	DA	SEMIS
		763 *		
		764 *	'REPEAT'	SCR=74, L=5
		765 *		
76D8:	C6	766	L3379	HEX C6
76D9:	52 45 50	767	DCI	'REPEAT'
76DF:	C2 76	768	DA	L3365
76E1:	D6 66	769	DA	DOCOL
76E3:	3A 65	770	DA	TOR
76E5:	3A 65	771	DA	TOR
76E7:	CA 76	772	DA	AGAIN
76E9:	4C 65	773	DA	RFROM
76EB:	4C 65	774	DA	RFROM
76ED:	6D 67	775	DA	TWO
76EF:	FA 68	776	DA	SUB
76F1:	43 76	777	DA	ENDIF
76F3:	0C 65	778	DA	SEMIS

	779	*		
	780	*	'IF' SCR=74, L=8	
	781	*		
76F5:	C2	782	L3396	HEX C2
76F6:	49 C6	783		DCI 'IF'
76F8:	D8 76	784		DA L3379
76FA:	D6 66	785	IF	DA DOCOL
76FC:	9F 6A	786		DA COMP
76FE:	56 62	787		DA ZBRAN
7700:	BD 68	788		DA HERE
7702:	5D 67	789		DA ZERO
7704:	D9 68	790		DA COMMA
7706:	6D 67	791		DA TWO
7708:	0C 65	792		DA SEMIS
	793	*		
	794	*	'ELSE' SCR=74, L=10	
	795	*		
770A:	C4	796	L3411	HEX C4
770E:	45 4C 53	797		DCI 'ELSE'
770F:	F5 76	798		DA L3396
7711:	D6 66	799		DA DOCOL
7713:	6D 67	800		DA TWO
7715:	58 6A	801		DA QPAIR
7717:	9F 6A	802		DA COMP
7719:	37 62	803		DA BRAN
771B:	BD 68	804		DA HERE
771D:	5D 67	805		DA ZERO
771F:	D9 68	806		DA COMMA
7721:	22 66	807		DA SWAP
7723:	6D 67	808		DA TWO
7725:	43 76	809		DA ENDIF
7727:	6D 67	810		DA TWO
7729:	0C 65	811		DA SEMIS
	812	*		
	813	*	'WHILE' SCR=74, L=13	
	814	*		
772B:	C5	815	L3431	HEX C5
772C:	57 48 49	816		DCI 'WHILE'
7731:	0A 77	817		DA L3411
7733:	D6 66	818		DA DOCOL
7735:	FA 76	819		DA IF
7737:	AE 68	820		DA TWOP
7739:	0C 65	821		DA SEMIS
	822	*		
	823	*	'SPACES' SCR=75, L=1	
	824	*		
773B:	86	825	L3442	HEX 86
773C:	53 50 41	826		DCI 'SPACES'
7742:	2R 77	827		DA L3431
7744:	D6 66	828	SPACS	DA DOCOL
7746:	5D 67	829		DA ZERO
7748:	EA 71	830		DA MAX
774A:	6D 69	831		DA DDUP
774C:	56 62	832		DA ZBRAN
774E:	0C 00	833	L3449	HEX 0C00 L3455-L3449
7750:	5D 67	834		DA ZERO
7752:	DE 62	835		DA PDO
7754:	5E 69	836	L3452	DA SPACE
7756:	77 62	837		DA PLOOP
7758:	FC FF	838	L3454	HEX FCFF L3452-L3454=\$FFFC
775A:	0C 65	839	L3455	DA SEMIS

	840	*		
	841	*	'<#'	SCR=75, L=3
	842	*		
775C:	82	843	L3460	HEX 82
775D:	3C A3	844		DCI '<#'
775F:	3B 77	845		DA L3442
7761:	D6 66	846	BDIGS	DA DOCOL
7763:	5E 6D	847		DA PAD
7765:	99 68	848		DA HLD
7767:	9D 66	849		DA STORE
7769:	0C 65	850		DA SEMIS
	851	*		
	852	*	'#>'	SCR=75, L=5
	853	*		
776B:	82	854	L3471	HEX 82
776C:	23 BE	855		DCI '#>'
776E:	5C 77	856		DA L3460
7770:	D6 66	857	EDIGS	DA DOCOL
7772:	19 66	858		DA DROP
7774:	19 66	859		DA DROP
7776:	99 68	860		DA HLD
7778:	79 66	861		DA AT
777A:	5E 6D	862		DA PAD
777C:	08 66	863		DA OVER
777E:	FA 68	864		DA SUB
7780:	0C 65	865		DA SEMIS
	866	*		
	867	*	'SIGN'	SCR=75, L=7
	868	*		
7782:	84	869	L3486	HEX 84
7783:	53 49 47	870		DCI 'SIGN'
7787:	6B 77	871		DA L3471
7789:	D6 66	872	SIGN	DA DOCOL
778B:	4A 69	873		DA ROT
778D:	88 65	874		DA ZLESS
778F:	56 62	875		DA ZBRAN
7791:	07 00	876	L3492	HEX 0700 L3496-L3492
7793:	67 61	877		DA CLIT
7795:	2D	878		HEX 2D
7796:	46 6D	879		DA HOLD
7798:	0C 65	880	L3496	DA SEMIS
	881	*		
	882	*	'#'	SCR=75, L=9
	883	*		
779A:	81	884	L3501	HEX 81
779B:	A3	885		HEX A3
779C:	82 77	886		DA L3486
779E:	D6 66	887	DIG	DA DOCOL
77A0:	6D 68	888		DA BASE
77A2:	79 66	889		DA AT
77A4:	A6 72	890		DA MSMOD
77A6:	4A 69	891		DA ROT
77A8:	67 61	892		DA CLIT
77AA:	09	893		HEX 09
77AB:	08 66	894		DA OVER
77AD:	1F 69	895		DA LESS
77AF:	56 62	896		DA ZBRAN
77B1:	07 00	897	L3513	HEX 0700 L3517-L3515
77B3:	67 61	898		DA CLIT
77B5:	07	899		HEX 07

77B6: 99 65	900	DA	PLUS
77B8: 67 61	901	L3517	DA CLIT
77BA: 30	902	HEX	30
77BB: 99 65	903	DA	PLUS
77BD: 46 6D	904	DA	HOLD
77BF: 0C 65	905	DA	SEMIS
	906	*	
	907	*	'#S' SCR=75, L=12
	908	*	
77C1: 82	909	L3526	HEX 82
77C2: 23 D3	910	DCI	'#S'
77C4: 9A 77	911	DA	L3501
77C6: D6 66	912	DIGS	DOCOL
77C8: 9E 77	913	L3529	DA DIG
77CA: 08 66	914	DA	OVER
77CC: 08 66	915	DA	OVER
77CE: AD 64	916	DA	OR
77D0: 73 65	917	DA	ZEQU
77D2: 56 62	918	DA	ZBRAN
77D4: F4 FF	919	L3535	HEX F4FF L3529-L3535
77D6: 0C 65	920	DA	SEMIS
	921	*	
	922	*	'D.R' SCR=76, L=1
	923	*	
77D8: 83	924	L3541	HEX 83
77D9: 44 2E D2	925	DCI	'D.R'
77DC: C1 77	926	DA	L3526
77DE: D6 66	927	DDOTR	DA DOCOL
77E0: 3A 65	928	DA	TOR
77E2: 22 66	929	DA	SWAP
77E4: 08 66	930	DA	OVER
77E6: C4 71	931	DA	DABS
77E8: 61 77	932	DA	BDIGS
77EA: C6 77	933	DA	DIGS
77EC: 89 77	934	DA	SIGN
77EE: 70 77	935	DA	EDIGS
77F0: 4C 65	936	DA	RFROM
77F2: 08 66	937	DA	OVER
77F4: FA 68	938	DA	SUB
77F6: 44 77	939	DA	SPACS
77F8: 95 6B	940	DA	TYPE
77FA: 0C 65	941	DA	SEMIS
	942	*	
	943	*	'D.' SCR=76, L=5
	944	*	
77FC: 82	945	L3562	HEX 82
77FD: 44 AE	946	DCI	'D.'
77FF: D8 77	947	DA	L3541
7801: D6 66	948	DDOT	DA DOCOL
7803: 5D 67	949	DA	ZERO
7805: DE 77	950	DA	DDOTR
7807: 5E 69	951	DA	SPACE
7809: 0C 65	952	DA	SEMIS
	953	*	
	954	*	'.R' SCR=76, L=7
	955	*	
780B: 82	956	L3573	HEX 82
780C: 2E D2	957	DCI	'.R'
780E: FC 77	958	DA	L3562
7810: D6 66	959	DOTR	DA DOCOL
7812: 3A 65	960	DA	TOR

7814: 82 71	961	DA	STOD
7816: 4C 65	962	DA	RFROM
7818: DE 77	963	DA	DDOTR
781A: 0C 65	964	DA	SEMIS
	965 *		
	966 *	'..'	SCR=76, L=9
	967 *		
781C: 81	968 L3585	HEX	81
781D: AE	969	HEX	AE
781E: 0B 78	970	DA	L3573
7820: D6 66	971 DOT	DA	DOCOL
7822: 82 71	972	DA	STOD
7824: 01 78	973	DA	DDOT
7826: 0C 65	974	DA	SEMIS
	975 *		
	976 *	'?'	SCR=76, L=11
	977 *		
7828: 81	978 L3595	HEX	81
7829: BF	979	HEX	BF
782A: 1C 78	980	DA	L3585
782C: D6 66	981 QUES	DA	DOCOL
782E: 79 66	982	DA	AT
7830: 20 78	983	DA	DOT
7832: 0C 65	984	DA	SEMIS
	985 *		
	986 *	'LIST'	SCR=77, L=2
	987 *		
7834: 84	988 L3605	HEX	84
7835: 4C 49 53	989	DCI	'LIST'
7839: 28 78	990	DA	L3595
783B: D6 66	991 LIST	DA	DOCOL
783D: FD 6A	992	DA	DECIM
783F: F4 63	993	DA	CR
7841: 3A 66	994	DA	DUP
7843: 32 68	995	DA	SCR
7845: 9D 66	996	DA	STORE
7847: F6 6B	997	DA	PDOEQ
7849: 06	998	HEX	06
784A: 53 43 52	999	ASC	*SCR # *
7850: 20 78	1000	DA	DOT
7852: 67 61	1001	DA	CLIT
7854: 10	1002	HEX	10
7855: 5D 67	1003	DA	ZERO
7857: DE 62	1004	DA	PDO
7859: F4 63	1005 L3620	DA	CR
785B: F7 62	1006	DA	I
785D: 75 67	1007	DA	THREE
785F: 10 78	1008	DA	DOTR
7861: 5E 69	1009	DA	SPACE
7863: F7 62	1010	DA	I
7865: 32 68	1011	DA	SCR
7867: 79 66	1012	DA	AT
7869: 58 74	1013	DA	DLINE
786B: 77 62	1014	DA	PLOOP
786D: EC FF	1015 L3630	HEX	ECFF L3620-L3630
786F: F4 63	1016	DA	CR
7871: 0C 65	1017	DA	SEMIS
	1018 *		
	1019 *	'INDEX'	SCR=77, L=7
	1020 *		

7873: 85	1021	L3637	HEX	85
7874: 49 4E 44	1022		DCI	'INDEX'
7879: 34 78	1023		DA	L3605
787B: D6 66	1024		DA	DOCOL
787D: F4 63	1025		DA	CR
787F: A1 68	1026		DA	ONEP
7881: 22 66	1027		DA	SWAP
7893: DE 62	1028		DA	PDO
7885: F4 63	1029	L3647	DA	CR
7887: F7 62	1030		DA	I
7889: 75 67	1031		DA	THREE
788B: 10 78	1032		DA	DOTR
788D: 5E 69	1033		DA	SPACE
788F: 5D 67	1034		DA	ZERO
7891: F7 62	1035		DA	I
7893: 58 74	1036		DA	DLINE
7895: FD 63	1037		DA	QTERM
7897: 56 62	1038		DA	ZBRAN
7899: 04 00	1039	L3657	HEX	0400 L3659-L3657
789B: 1F 65	1040		DA	LEAVE
789D: 77 62	1041	L3659	DA	PLOOP
789F: E6 FF	1042	L3660	HEX	E6FF L3647-L3660=\$FFE6
78A1: 67 61	1043		DA	CLIT
78A3: 0C	1044		HEX	0C FORM FEED FOR PRINTERS
78A4: D7 63	1045		DA	EMIT
78A6: 0C 65	1046		DA	SEMIS
	1047 *			
	1048 *	'TRIAD'	SCR=77, L=12	
	1049 *			
78A8: 85	1050	L3666	HEX	85
78A9: 54 52 49	1051		DCI	'TRIAD'
78AE: 73 78	1052		DA	L3637
78B0: D6 66	1053		DA	DOCOL
78B2: 75 67	1054		DA	THREE
78B4: 63 72	1055		DA	SLASH
78B6: 75 67	1056		DA	THREE
78B8: 44 72	1057		DA	STAR
78BA: 75 67	1058		DA	THREE
78BC: 08 66	1059		DA	OVER
78BE: 99 65	1060		DA	PLUS
78C0: 22 66	1061		DA	SWAP
78C2: DE 62	1062		DA	PDO
78C4: F4 63	1063	L3681	DA	CR
78C6: F7 62	1064		DA	I
78C8: 3B 78	1065		DA	LIST
78CA: 77 62	1066		DA	PLOOP
78CC: F8 FF	1067	L3685	HEX	F8FF L3681-L3685
78CE: F4 63	1068		DA	CR
78D0: 67 61	1069		DA	CLIT
78D2: 0F	1070		HEX	0F
78D3: 6C 74	1071		DA	MESS
78D5: F4 63	1072		DA	CR
78D7: 67 61	1073		DA	CLIT
78D9: 0C	1074		HEX	0C FORM FEED FOR PRINTERS
78DA: D7 63	1075		DA	EMIT
78DC: 0C 65	1076		DA	SEMIS
	1077 *			
	1078 *	'VLIST'	SCR=78, L=2	
	1079 *			

78DE: 85	1080	L3696	HEX	85
78DF: 56 4C 49	1081		DCI	'VLIST'
78E4: A8 78	1082		DA	L3666
78E6: D6 66	1083	VLIST	DA	DOCOL
78E8: 67 61	1084		DA	CLIT
78EA: 80	1085		HEX	80
78EB: 29 68	1086		DA	OUT
78ED: 9D 66	1087		DA	STORE
78EF: 48 68	1088		DA	CON
78F1: 79 66	1089		DA	AT
78F3: 79 66	1090		DA	AT
78F5: 29 68	1091	L3706	DA	OUT
78F7: 79 66	1092		DA	AT
78F9: 88 67	1093		DA	CSLL
78FB: 3C 69	1094		DA	GREAT
78FD: 56 62	1095		DA	ZBRAN
78FF: 0A 00	1096	L3711	HEX	0A00 L3716-L3711
7901: F4 63	1097		DA	CR
7903: 5D 67	1098		DA	ZERO
7905: 29 68	1099		DA	OUT
7907: 9D 66	1100		DA	STORE
7909: 3A 66	1101	L3716	DA	DUP
790B: 02 6F	1102		DA	IDDOT
790D: 5E 69	1103		DA	SPACE
790F: 5E 69	1104		DA	SPACE
7911: EA 69	1105		DA	PFA
7913: B8 69	1106		DA	LFA
7915: 79 66	1107		DA	AT
7917: 3A 66	1108		DA	DUP
7919: 73 65	1109		DA	ZEOU
791B: ED 63	1110		DA	QTERM
791D: AD 64	1111		DA	OR
791F: 56 62	1112		DA	ZBRAN
7921: D4 FF	1113	L3728	HEX	D4FF L3706-L3728
7923: 19 66	1114		DA	DROP
7925: 0C 65	1115		DA	SEMIS
	1116	*		
	1117	*	'MON'	SCR= 79, L=3
	1118	*		
7927: 83	1119	NTOP	HEX	83
7928: 4D 4F CE	1120		DCI	'MON'
792B: DE 78	1121		DA	L3696
792D: 2F 79	1122	MON	DA	MON+2
792F: B6 E5	1123		SIX	XSAVE
7931: 4C 69 FF	1124		JMP	\$FF69 EXIT TO APPLE MONITOR
7934: A6 E5	1125		LDX	XSAVE FOR POSSIBLE REENTRY ?
7936: 4C 44 61	1126		JMP	NEXT

--- END ASSEMBLY ---

TOTAL ERRORS: 0

1661 BYTES GENERATED THIS ASSEMBLY

6100- EA 4C 47 71 EA 4C 57 71
 6108- 04 00 D2 5E 27 79 08 00
 6110- 80 95 CE 00 FF 01 00 01
 6118- 1F 00 00 00 39 79 39 79
 6120- BE 70 EA EA 83 4C 49 D4
 6128- 00 00 2C 61 B1 DE 48 E6
 6130- DE D0 02 E6 DF B1 DE E6
 6138- DE D0 02 E6 DF CA CA 95
 6140- 01 68 95 00 A0 01 B1 DE
 6148- 85 E2 88 B1 DE 85 E1 20
 6150- 6F 61 18 A5 DE 69 02 85
 6158- DE 90 02 E6 DF 4C E0 00
 6160- 84 43 4C 49 D4 24 61 69
 6168- 61 B1 DE 48 98 F0 C8 86
 6170- E5 20 8E FD A5 DF 20 DA
 6178- FD A5 DE 20 DA FD 20 48
 6180- F9 A0 00 B1 DE 85 12 85
 6188- 14 C8 B1 DE 85 13 85 15
 6190- 20 D9 61 A5 13 20 DA FD
 6198- A5 12 20 DA FD 20 48 F9
 61A0- A5 E5 20 DA FD 20 48 F9
 61A8- A9 01 20 DA FD BA E8 8A
 61B0- 20 DA FD 20 48 F9 20 0C
 61B8- FD A6 E5 A0 00 60 86 E5
 61C0- A5 E1 85 14 A5 E2 85 15
 61C8- 20 8E FD A9 20 20 ED FD
 61D0- 20 48 F9 20 D9 61 A6 E5
 61DR- 60 20 FB 61 20 FB 61 20
 61E0- FB 61 A0 00 20 FB 61 B1
 61E8- 14 10 F9 C8 B1 14 20 ED
 61F0- FD B1 14 10 F6 20 48 F9
 61F8- A0 00 60 A5 14 D0 02 C6
 6200- 15 C6 14 60 0A 85 D5 B5
 6208- 00 99 D6 00 E8 C8 C4 D5
 6210- D0 F5 A0 00 60 87 45 58
 6218- 45 43 55 54 C5 60 61 21
 6220- 62 85 00 85 E1 85 01 85
 6228- E2 E8 4C E0 00 86 42
 6230- 52 41 4E 43 C8 15 62 39
 6238- 62 18 B1 DE 65 DE 48 C8
 6240- B1 DE 65 DF 85 DF 68 85
 6248- DE 4C 46 61 87 30 42 52
 6250- 41 4E 43 C8 2E 62 58 62
 6258- ER ER B5 FE 15 FF F0 D9
 6260- 18 A5 DE 69 02 85 DE 90
 6268- 02 E6 DF 4C 44 61 86 28
 6270- 4C 4F 4F 50 A9 4C 62 79
 6278- 62 86 E5 BA FE 01 01 00
 6280- 03 FE 02 01 18 BD 03 01
 6288- FD 01 01 BD 04 01 FD 02
 6290- 01 A6 E5 0A 90 A3 68 68
 6298- 68 68 4C 60 62 87 28 28
 62A0- 4C 4F 4F 50 A9 6E 62 A9
 62A8- 62 ER E8 86 E5 B5 FF 48
 62B0- 48 B5 FE BA E8 E8 18 7D
 62B8- 01 01 9D 01 01 68 7D 02
 62C0- 01 9D 02 01 68 10 BD 18
 62C8- BD 01 01 FD 03 01 BD 02
 62D0- 01 FD 04 01 4C 91 62 84
 62D8- 28 44 4F A9 9D 62 E0 62
 62E0- B5 03 48 B5 02 48 B5 01
 62E8- 48 B5 00 48 E8 E8 E8 ER
 62F0- 4C 44 61 81 C9 D7 62 5F
 62F8- 65 85 44 49 47 49 D4 F3

6300- 62 03 63 38 B5 02 E9 30
 6308- 30 18 C9 0A 30 0D D5 00 10
 6310- 07 C9 0A 30 0D D5 00 10
 6318- 09 95 02 A9 01 48 98 4C
 6320- 3F 61 98 48 E8 E8 4C 3F
 6328- 61 86 28 46 49 4E 44 A9
 6330- F9 62 34 63 A9 02 20 04
 6338- 62 86 E5 A0 00 B1 D6 51
 6340- DR 29 3F D0 2D C8 B1 D6
 6348- 51 D8 0A D0 23 90 F6 A6
 6350- E5 CA CA CA CA 18 98 69
 6358- 05 65 D6 95 02 A9 00 98
 6360- 65 D7 95 03 94 01 B1 D6
 6368- 95 00 A9 01 48 4C 3D 61
 6370- B0 05 C8 B1 D6 10 FB C8
 6378- B1 D6 AA C8 B1 D6 85 D7
 6380- R6 D6 05 D6 D0 B5 A6 E5
 6388- A9 00 48 4C 3D 61 87 45
 6390- 4E 43 4C 4F 53 C5 29 63
 6398- 9A 63 A9 02 20 04 62 8A
 63A0- 38 E9 08 AA 94 03 94 01
 63A8- 88 C8 B1 D8 C5 D6 F0 F9
 63B0- 94 04 B1 D8 D0 0E 94 02
 63B8- 94 00 98 D5 04 D0 02 F6
 63C0- 02 4C 44 61 94 02 C8 C5
 63C8- D6 D0 E7 94 00 4C 44 61
 63D0- 84 45 4D 49 D4 8E 63 19
 63D8- 75 83 4B 45 D9 D0 63 11
 63E0- 75 89 3F 54 45 52 4D 49
 63E8- 4E 41 CC D9 63 29 75 82
 63F0- 43 D2 E1 63 23 75 85 43
 63F8- 4D 4F 56 C5 EF 63 00 64
 6400- A9 03 20 04 62 C4 D6 D0
 6408- 07 C6 D7 10 03 4C 44 61
 6410- B1 DA 91 DR C8 D0 EE EA
 6418- DB E6 D9 4C 05 64 82 55
 6420- AA F6 63 25 64 B5 02 85
 6428- D6 94 02 B5 03 85 D7 94
 6430- 03 A0 10 16 02 36 03 36
 6438- 00 36 01 90 13 IR A5 D6
 6440- 75 02 95 02 A5 D7 75 03
 6448- 95 03 A9 00 75 00 95 08
 6450- 88 D0 E0 4C 44 61 82 55
 6458- AF 1E 64 5D 64 B5 04 E4
 6460- 02 94 04 0A 95 02 B5 05
 6468- B4 03 94 05 2A 95 03 A9
 6470- 10 85 D6 36 04 36 05 38
 6478- B5 04 F5 00 A8 B5 05 FS
 6480- 01 90 04 94 04 95 05 36
 6488- 02 36 03 C6 D6 D0 E4 40
 6490- EE 62 83 41 4E C4 56 64
 6498- 9A 64 B5 00 35 02 48 B5
 64A0- 01 35 03 ER ER 4C 3F 61
 64A8- 82 4F D2 92 64 AF 64 84
 64B0- 00 15 02 48 B5 01 15 08
 64BR- ER ER 4C 3F 61 83 58 AF
 64C0- D2 AR 64 C5 64 B5 00 55
 64C8- 02 48 B5 01 55 03 E8 E8
 64D0- 4C 3F 61 83 53 50 C0 E0
 64D8- 64 DB 64 RA 48 A9 00 4C
 64E0- 3D 61 83 53 50 A1 D3 64
 64E8- EA 64 A0 06 B1 E3 AA 4C
 64F0- 44 61 83 52 50 A1 E2 64
 64F8- FA 64 86 E5 A0 08 B1 E0
 *

6500- AA 9A A6 E5 4C 44 61 82
 650R- 3B D3 F2 64 0E 65 68 85
 6510- DE 68 85 DF 4C 44 61 85
 6518- 4C 45 41 56 C5 07 65 21
 6520- 65 86 E5 BA BD 01 01 9D
 6528- 03 01 BD 02 01 9D 04 01
 6530- A6 E5 4C 44 61 82 3E D2
 6538- 17 65 3C 65 B5 01 48 B5
 6540- 00 48 E8 E8 4C 44 61 82
 6548- 52 BE 35 65 4E 65 CA CA
 6550- 68 95 00 68 95 01 4C 44
 6558- 61 81 D2 47 65 5F 65 86
 6560- E5 BA BD 01 01 48 BD 02
 6568- 01 A6 E5 4C 3D 61 82 30
 6570- BD 59 65 75 65 85 00 15
 6578- 01 94 01 D0 01 C8 94 00
 6580- 4C 44 61 82 30 BC 6E 65
 6588- 8A 65 16 01 98 2A 94 01
 6590- 95 00 4C 44 61 81 AB 83
 6598- 65 98 65 18 B5 00 75 02
 65A0- 95 02 B5 01 75 03 95 03
 65A8- E8 E8 4C 44 61 82 44 AB
 65B0- 95 65 B4 65 18 B5 02 75
 65BR- 06 95 06 B5 03 75 07 95
 65C0- 07 B5 00 75 04 95 04 B5
 65C8- 01 75 05 95 05 4C EC 62
 65D0- 85 4D 49 4E 55 D3 AD 65
 65D8- DA 65 38 98 F5 00 95 00
 65E0- 98 F5 01 95 01 4C 44 61
 65E8- 86 44 4D 49 4E 55 D3 D0
 65F0- 65 F3 65 38 98 F5 02 95
 65F8- 02 98 F5 03 95 03 4C DB
 6600- 65 84 4F 56 45 D2 E8 65
 6608- 0A 66 B5 02 48 B5 03 4C
 6610- 3D 61 84 44 52 4F D0 01
 6618- 66 EE 62 84 53 57 41 D0
 6620- 12 66 24 66 B5 02 48 B5
 6628- 00 95 02 B5 03 B4 01 94
 6630- 03 4C 3F 61 83 44 55 D0
 6638- 1B 66 3C 66 B5 00 48 R5
 6640- 01 4C 3D 61 82 2B A1 34
 6648- 66 4B 66 18 A1 00 75 02
 6650- 81 00 F6 00 D0 02 F6 01
 665R- A1 00 75 03 81 00 4C EC
 6660- 62 86 54 4F 47 47 4C C5
 6668- 44 66 6C 66 A1 02 55 00
 6670- 81 02 4C EC 62 R1 C0 61
 6678- 66 7B 66 A1 00 48 F6 00
 6680- D0 02 F6 01 A1 00 4C 3F
 6688- 61 82 43 C0 75 66 90 66
 6690- A1 00 95 00 94 01 4C 44
 6698- 61 81 A1 R9 66 9F 66 B5
 66A0- 02 R1 00 F6 00 D0 02 F6
 66A8- 01 B5 03 81 00 4C EC 62
 66B0- 82 43 A1 99 66 B7 66 B5
 66BR- 02 81 00 4C EC 62 C1 BA
 66C0- B0 66 D6 66 42 6A FE 69
 66C8- 58 68 79 66 4B 68 9D 66
 66D0- 36 6F C3 6A 12 6B A5 DF
 66DR- 48 A5 DE 48 20 BE 61 18
 66E0- A5 E1 69 02 85 DE 98 65
 66ER- E2 85 DF 4C 44 61 C1 BB
 66F0- BE 66 D6 66 6A 6A 9F 6A
 66FR- 0C 65 D7 6A B5 6A 0C 65

6700- 88 43 4F 4E 53 54 41 4E
 670R- D4 EE 66 D6 66 36 6F D7
 6710- 6A D9 68 12 6B A0 02 B1
 6718- E1 48 C8 B1 E1 4C 3D 61
 6720- 88 56 41 52 49 41 42 4C
 6728- C5 00 67 D6 66 0B 67 12
 6730- 6B 18 A5 E1 69 02 48 98
 6738- 65 E2 4C 3D 61 84 55 53
 6740- 45 D2 20 67 D6 66 0B 67
 6748- 12 6B A0 02 18 B1 E1 65
 6750- E3 48 A9 00 65 E4 4C 3D
 6758- 61 81 B0 3D 67 15 67 00
 6760- 00 81 B1 59 67 15 67 01
 6768- 00 81 B2 61 67 15 67 02
 6770- 00 81 B3 69 67 15 67 03
 6778- 00 82 42 CC 71 67 15 67
 6780- 20 00 83 43 2F CC 79 67
 6788- 15 67 40 00 85 46 49 52
 6790- 53 D4 82 67 15 67 70 91
 6798- 85 4C 49 4D 49 D4 8C 67
 67A0- 15 67 80 95 85 42 2F 42
 67AB- 55 C6 98 67 15 67 00 01
 67B0- 85 42 2F 53 43 D2 A4 67
 67BB- 15 67 04 00 87 2B 4F 52
 67C0- 49 47 49 CE B0 67 D6 66
 67C8- 2A 61 00 61 99 65 0C 65
 67D0- 83 54 49 C2 BC 67 4A 67
 67D8- 0A 85 57 49 44 54 C8 D0
 67E0- 67 4A 67 0C 87 57 41 52
 67E8- 4E 49 4E C7 D9 67 4A 67
 67F0- 0E 85 46 45 4E 43 C5 E4
 67F8- 67 4A 67 10 82 44 D0 F1
 6800- 67 4A 67 12 88 56 4F 43
 6808- 2D 4C 49 4E CB FC 67 4A
 6810- 67 14 83 42 4C CB 04 68
 6818- 4A 67 16 82 49 CE 12 68
 6820- 4A 67 18 83 4F 55 D4 1B
 6828- 68 4A 67 1A 83 53 43 D2
 6830- 23 68 4A 67 1C 86 4F 46
 683R- 46 53 45 D4 2C 68 4A 67
 6840- 1E 87 43 4F 4E 54 45 58
 6848- D4 35 68 4A 67 20 87 43
 6850- 55 52 52 45 4E D4 41 68
 6858- 4A 67 22 85 53 54 41 54
 6860- C5 4E 68 4A 67 24 84 42
 6868- 41 53 C5 5B 68 4A 67 26
 6870- 83 44 50 CC 66 68 4A 67
 6878- 28 83 46 4C C4 70 68 4A
 6880- 67 2A 83 43 53 D0 79 68
 6888- 4A 67 2C 82 52 A3 82 68
 6890- 4A 67 2E 83 48 4C C4 8B
 6898- 68 4A 67 30 82 31 AB 93
 68A0- 68 D6 66 65 67 99 65 0C
 68A8- 65 82 32 AB 9C 68 D6 66
 68B0- 6D 67 99 65 0C 65 84 48
 68BR- 45 52 C5 A9 68 D6 66 01
 68C0- 68 79 66 0C 65 85 41 4C
 68C8- 4C 4F D4 B6 68 D6 66 01
 68D0- 68 49 66 0C 65 81 AC C5
 68D8- 68 D6 66 BD 68 9D 66 6D
 68E0- 67 CD 68 0C 65 82 43 AC
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 78A8- 85 54 52 49 41 C4 73 78
 78B0- D6 66 75 67 63 72 75 67
 78B8- 44 72 75 67 08 66 99 65
 78C0- 22 66 DE 62 F4 63 F7 62
 78C8- 3B 78 77 62 F8 FF F4 63
 78D0- 67 61 0F 6C 74 F4 63 67
 78D8- 61 0C D7 63 0C 65 85 56
 78E0- 4C 49 53 D4 A8 78 D6 66
 78ER- 67 61 80 29 68 9D 66 4B
 78F0- 68 79 66 79 66 29 68 79
 78F8- 66 88 67 3C 69 56 62 0A

*

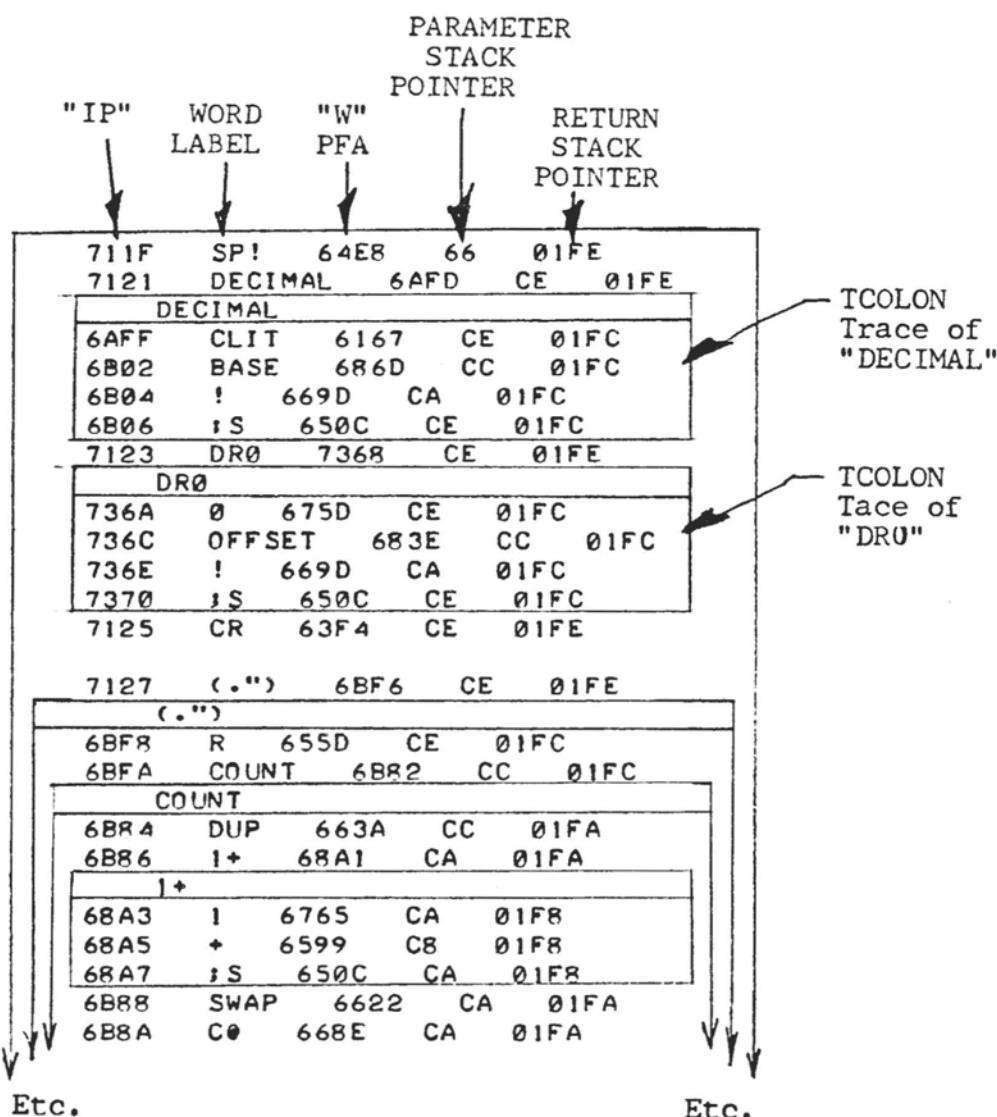
7900- 00 F4 63 5D 67 29 68 9D
7908- 66 3A 66 02 6F 5E 69 5E
7910- 69 EA 69 B8 69 79 66 3A
7918- 66 73 65 ED 63 AD 64 56
7920- .62 D4 FF 19 66 0C 65 83
7928- 4D 4F CE DE 78 2F 79 86
7930- E5 4C 69 FF A6 E5 4C 44
7938- 61
*

EXAMPLE

SINGLE STEP &/OR CONTINUOUS
Tracing of
"ABORT"

With:

\$61B6- 20 0C FD = "JSR ONEKEY"
\$614F- 20 6F 61 = "JSR TRACE"
\$66DC- 20 BE 61 = "JSR TCOLON"



Note: Some characters and spaces will appear in Inverse or Flashing video due to APPLE's non-standard ASCII coding method.

EXAMPLE

TCOLON Tracing of
"ABORT"

COLON
Word's
Label

DECIMAL
DR0

(.)
COUNT
1+
1+
TYPE
-DUP **FIG-FORTH 1.0** ← "greeting"
2+
DEFINITIONS
QUIT
[

QUERY
EXPECT → Pause here until
+ORIGIN "M" Input at Keyboard
= ←
- ←
= ←
1+ [M] ← "M" Echoed to Display
↓
Etc.

With;

\$61B6- EA EA EA = "NOPs"
\$614F- EA EA EA = "NOPs"
\$66DC- 20 BE 61 = "JSR TCOLON"

Note; Some characters and spaces will appear in
Inverse or Flashing video due to APPLE's
non-standard ASCII coding method.

