

10 MAR 1983

fig-FORTH FOR 68000

ASSEMBLY SOURCE LISTING

RELEASE 1.0

WITH COMPILER SECURITY

AND

VARIABLE LENGTH NAMES

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fig-FORTH 68000

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FORTH INTEREST GROUP
P.O. Box 1105
San Carlos, California 94070

68000 Implementation by:

Kenneth Mantei
Department of Chemistry
California State College
San Bernardino, California 92407

Address comments and corrections to Kenneth Mantei

Acknowledgements:

FIG Installation Manual - Release 1
FIG 1802 Assembly Source Listing
68000 Assembly Language Programming by Kane,
Hawkins, and Leventhal

This listing printed: 12/20/82

68000 fig-FORTH

This version of FORTH implements the fig-FORTH model presented in the FORTH Interest Group's Installation Manual in code for the Motorola 68000 microprocessor. It is a 64 K version, using conventional two-byte addresses, which does not make use of the 32-bit addressing capabilities of the 68000. Primitive words are located at 2000-2500H, with the six-byte inner interpreter appended to each word. Constants and variables run from 2500-2700H. Most of the constants relate to hardware and it seemed desirable to locate these on the USER page. So a new primitive, (USERCONSTANT) was defined that requires no modification to FORTH source material, but gets constants from the USER page. The rest of the kernal runs from 2700-3000H. The conditional compiler, math words, output words, and VLIST run from 3000-3400H. Disc I/O and boot-up code runs from 3400-3700H. FORTH is entered by a jump to COLD at 364E, or the warmstart at 368A.

The original model assumed 128-byte buffer blocks. Modifications were made in +BUF to handle automatically 1024, 512, and 256-byte buffers as well. " 84 " was replaced by " B/BUF 4 + ". Similarly, the null word, X, was modified to handle 1, 2, 4, as well as the original 8 buffers/screen. " 7 " was replaced by " B/SCR 1 - ". B/BUF and B/SCR, now userconstants on the USER page need only be chosen to give 1024 bytes/screen.

CREATE originally assumed that unchecked dictionary growth would run into the computation stack. To enable the latter to be located arbitrarily, a USER variable, DICTLIMIT, has been introduced. CREATE now checks to be sure the dictionary is not exceeding DICTLIMIT, rather than encountering the computation stack. To ensure that LFA's fall on even addresses, as required by the 68000, CREATE has also been modified to insert 00 fill bytes ahead of NFA's when necessary.

The original CMOVE always moved the byte lowest in memory first (untrue to its definition), producing unadvertised results for short moves up. The original FILL took advantage of this. The present 68000 version of CMOVE is bidirectional and faithful to the definition. FILL then is necessarily rewritten, now as a code word.

A new code word, C=, has been added that functions like = except that only the low bytes are compared. This is used in EXPECT a couple of times to replace =. EXPECT has also been modified to get its backspace-keyin and backspace-output ASCII codes from the USER page, where they are called BKSPKEY and BKSPEMIT.

+ORIGIN accesses the same bootup parameters, exactly as shown on SCR# 79 and 97 of the Installation Manual. However, the bootups are now located in COLD, rather than in front of FORTH.

224 words are listed in the glossary of the Installation Manual. Modification of 4 of these: CMOVE, FILL, EXPECT, AND CREATE has been mentioned above. 15 other glossary words have been omitted in this implementation: (ABORT), ;CODE, DLIST, I, MON, MOVE, TASK, TRIAD, DR1, BLOCK-READ, BLOCK-WRITE, NEXT, POP, PUSH, and PUT. 18 words, not appearing in the glossary, are added: ORIGIN, CURRENT, C/L, C=, !CODE, (VAR), (CONST), (USER), (USERCONSTANT), (NEST), BKSPKEY, BKSPEMIT, DICTLIMIT, EMITSUB, KEYSUB, ?TERMSUB, CRSUB, and R/WSUB.

NOTES ON THE FORM OF THE ASSEMBLY

Address registers are numbered 0-7 in the 68000, as are the data registers. In the assembly listing these are referred to as 0 AR, 1 AR ..., 7 AR, 0 DR, 1 DR ..., 7 DR -- reflecting the reverse Polish flavor of the 68000 assembler, itself written in FORTH. Five address registers are dedicated pointers. 3 AR is CS, the computation stack pointer, which grows toward low memory and is always left pointing at the high order (but lower memory) byte of the top 2-byte stack cell. 4 AR is IP, the instruction pointer which is incremented when used, to point to the next cell. 5 AR is WP, the word pointer, loaded as usual via IP and incremented when used. 6 AR is US, the USER page pointer with which offset addresses are used to locate USER variables and userconstants. 7 AR is RS, the return stack, which operates like CS. Any code routines that use 3 AR - 7 AR must save and restore them.

Written especially for assembling FORTH, the assembler is not Motorola's, and several features need explanation. Assembler symbols for indirect addressing "[", with predecrement "-[", or postincrement "[+", should be obvious. And "&[" shows indirect addressing with offset, as in "2E US &[".

Labels are marked by ">" signs and most often point to parameter fields. Since high level words are lists of CFA's, this assembler uses "\$LAY" to subtract 2 from a labelled address before assembling it. This assembler uses plain "LAY" to assemble an address or number without subtracting 2. A labelled address is converted by "*+" into the relative address required for 68000 code branches.

The tilde, "~", found on most lines of the assembly listing causes the line to be printed, and for code words also initializes variables used in verifying that the proper number of arguments are associated with each assembly mnemonic. When a source and a destination are both specified for an assembly mnemonic, they are presented in that order, separated by a caret, "^".

RUNNING 68000 fig-FORTH

1. Load the 68000 code into a 68000 system from 2000-370B. This version is not relocatable. Contact Ken Mantei (see title page) if an assembly that runs at a different address is needed.

2. Write 68000 code subroutines for EMIT, KEY, ?TERMINAL, CR, and R/W and put the addresses of these subroutines at bytes 40-49 on the USER page by filling them into the appropriate locations in COLD, 36B8-36C1. Data register 0 (0 DR) is used to pass ASCII bytes in EMIT and KEY, and the flag in ?TERMINAL. Remember to save and restore address registers 3-7 if they are used. FORTH will look on the USER page for the addresses of these subroutines, and COLD will have put them there.

3. Fit U0, S0, R0, TIB, BKSPKEY, BKSPMIT, DICTLIMIT, FIRST, LIMIT, USE, PREV, B/BUF, and B/SCR to fit your hardware. Do this by changing the addresses in COLD as needed. If desired, on the first attempt to bring this system up, WARNING can be left 0. But it must be reset to 1 in order for the disc words to function.

4. Run by jumping to coldstart at 364E (or later, warmstart at 368A).

72 2	LAYCODEHEADER	LIT	2000 83 4C 49 D4
72 2	LAYCODEHEADER	LIT	2004 0000 2008
72 3	> \$LIT	^ IP [+ ^ CS -[.W .MOVE	2008 371C
72 4		NEXT	200A 3A5C 305D 4ED0
72 5	LAYCODEHEADER	EXECUTE	2010 87 45 58 45 43 55 54 C5
72 5	LAYCODEHEADER	EXECUTE	2018 2000 201C
72 6	> \$EXECUTE	^ CS [+ ^ WP AR .W .MOVE	201C 3A5B
72 7		^ WP [+ ^ 0 AR .W .MOVE	201E 305D
72 8		^ 0 [.JMP	2020 4ED0
72 9	LAYCODEHEADER	BRANCH	2022 0 86 42 52 41 4E 43 C8
72 9	LAYCODEHEADER	BRANCH	202A 2010 202E
72 10	> \$BRANCH	^ IP [^ 0 DR .W .MOVE	202E 3014
72 11		^ 0 DR ^ IP AR .W .ADD	2030 D8C0
72 12		NEXT	2032 3A5C 305D 4ED0
73 0	LAYCODEHEADER	OBRANCH	2038 87 30 42 52 41 4E 43 C8
73 0	LAYCODEHEADER	OBRANCH	2040 2023 2044
73 1	> \$OBRANCH	^ CS [+ .W .TST	2044 4A5B
73 2		^ .EQ. \$BRANCH *+ .BCC	2046 67E6
73 3		^ 2 IMM ^ IP AR .W .ADDQ	2048 544C
73 4		NEXT	204A 3A5C 305D 4ED0
73 5	LAYCODEHEADER	(LOOP)	2050 0 86 28 4C 4F 4F 50 A9
73 5	LAYCODEHEADER	(LOOP)	2058 2038 205C
73 6	> \$(LOOP)	^ 1 IMM ^ RS [.W .ADDQ (INCR CURR COUNT)	205C 5257
73 7	> \$(LOOP)2	^ 2 RS &[^ 0 DR .W .MOVE (LIMIT=CURRENT?)	205E 302F 0002
73 8		^ RS [^ 0 DR .W .CMP (IS BETTER WAY?)	2062 B057
73 9		^ .HI. \$(LOOP)3 *+ .BCC (BR IF LIM>CURR)	2064 6206
73 10		^ 2 IMM ^ IP AR .W .ADDQ (CLEAN UP & LEAVE)	2066 544C
73 11		^ 4 IMM ^ RS AR .W .ADDQ	2068 584F
73 12		^ \$(LOOP)4 *+ .BRA	206A 6004
73 13	> \$(LOOP)3	^ IP [^ 0 DR .W .MOVE	206C 3014
73 14		^ 0 DR ^ IP AR .W .ADD	206E D8C0
73 15	> \$(LOOP)4	NEXT →	2070 3A5C 305D 4ED0
74 1	LAYCODEHEADER	(+LOOP)	2076 87 28 2E 4C 4F 4F 50 A9
74 1	LAYCODEHEADER	(+LOOP)	207E 2051 2082
74 2	> \$(+LOOP)	^ CS [+ ^ 0 DR .W .MOVE	2082 301B
74 3		^ 0 DR ^ RS [.W .ADD	2084 D157
74 4		^ \$(LOOP)2 *+ .BRA	2086 60D6
74 6	LAYCODEHEADER	(DO)	2088 0 84 28 44 4F A9
74 6	LAYCODEHEADER	(DO)	208E 2076 2092
74 7	> \$(DO)	^ CS [+ ^ RS -[.L .MOVE	2092 2F1B
74 8		NEXT	2094 3A5C 305D 4ED0
74 10	LAYCODEHEADER	DIGIT	209A 85 44 49 47 49 D4
74 10	LAYCODEHEADER	DIGIT	20A0 2089 20A4
74 11	> \$DIGIT	^ CS [+ ^ 1 DR .W .MOVE (LOAD BASE INTO DR1)	20A4 321B
74 12		^ CS [^ 0 DR .W .MOVE (LOAD ASCII INTO DR0)	20A6 3013
74 13		^ 30 IMM ^ 0 DR .W .SUB	20AB 0440 0030
74 14		^ .CS. \$BADDIGIT *+ .BCC	20AC 651C
74 15		^ 9 IMM ^ 0 DR .W .CMP →	20AE 0C40 0009
75 0		^ .LE. \$BASECK *+ .BCC	20B2 6F0A
75 1		^ 11 IMM ^ 0 DR .W .CMP	20B4 0C40 0011
75 2		^ .LT. \$BADDIGIT *+ .BCC	20B8 6D10
75 3		^ 7 IMM ^ 0 DR .W .SUB	20EA 0440 0007
75 4	> \$BASECK	^ 1 DR ^ 0 DR .W .CMP	20EE B041
75 5		^ .GE. \$BADDIGIT *+ .BCC	20C0 6C08
75 6		^ 0 DR ^ CS [.W .MOVE (RETURN BINARY ON STK)	20C2 3680
75 7		^ 1 IMM ^ CS -[.W .MOVE (& GOODDIGIT FLAG)	20C4 373C 0001
75 8		^ \$DIGIT1 *+ .BRA	20C8 6004
75 9	> \$BADDIGIT	^ 0 IMM ^ CS [.W .MOVE	20CA 368C 0000
75 10	> \$DIGIT1	NEXT	20CE 3A5C 305D 4ED0

75 11	LAYCODEHEADER (FIND)	20D410 86 28 46 49 4E 44 A9	
75 11	LAYCODEHEADER (FIND)	20DC 209A	20E0
75 12	> \$(FIND)	^ 1 IMM ^ 0 DR ,MOVEQ (SHIFT COUNT)	20E0 7001
75 13		^ 7 IMM ^ 5 DR ,MOVEQ (BIT POINTER)	20E2 7A07
75 14		^ CS [+ ^ 1 AR ,W ,MOVE (LOAD TRIAL NFA)	20E4 3258
75 15		^ CS [^ 0 AR ,W ,MOVE (FIXED TEST PTR) -->	20E6 3053
76 0	> \$(FIND)1	^ 0 AR ^ 2 AR ,W ,MOVE (MAKE WORK COPY TEXT PTR)	20E8 3448
76 1		^ 1 [+ ^ 1 DR ,B ,MOVE (READ NFA LENGTHBYTE)	20EA 1219
76 2		^ 1 DR ^ 4 DR ,B ,MOVE (MAKE COPY OF NFALEN)	20EC 1801
76 3		^ 4 DR ^ 3 DR ,W ,MOVE (MAKE ANOTHER COPY)	20EE 3604
76 4		^ 1F IMM ^ 3 DR ,W ,AND (MASK TO GET COUNT)	20F0 0243
76 5		^ 1 AR ^ 3 DR ,W ,ADD (ADD COUNT TO NFA+1)	20F4 D649
76 6		^ 1 IMM ^ 3 DR ,W ,ADDQ (AND FIND NEXT EVEN ...)	20F6 5243
76 7		^ FFFE IMM ^ 3 DR ,W ,AND (ADDRESS = LFA,)	20F8 0243
76 8		^ 2 [+ ^ 6 DR ,B ,MOVE	20FC 1C1A
76 9		^ 6 DR ^ 4 DR ,B ,EOR (COMPARE LENGTH BYTES ..)	20FE BD04
76 10		^ 3F IMM ^ 4 DR ,B ,AND (6 LOWEST BITS,)	2100 0204
76 11		^ ,NE, \$(FIND)3 *+ ,BCC (BRANCH IF LENGTHS DIFF)	2104 661E
76 12	> \$(FIND)2	^ 2 [+ ^ 2 DR ,B ,MOVE (GET ASCII TEXT CHAR)	2106 141A
76 13		^ 5 DR ^ 2 DR ,BCLR (IGNORE BIT 7)	2108 0E82
76 14		^ 1 [+ ^ 6 DR ,B ,MOVE	210A 1C19
76 15		^ 6 DR ^ 2 DR ,B ,EOR (COMPARE NFA CHAR) -->	210C BD02
77 0		^ 0 DR ^ 2 DR ,B ,ASL (SHIFT OUT BIT 7 ...)	210E E122
77 1		^ ,NE, \$(FIND)3 *+ ,BCC (AND BRANCH IF NO MATCH)	2110 6612
77 2		^ ,CC, \$(FIND)2 *+ ,BCC (DR LOOP TILL LAST CHAR,)	2112 64F2
77 3		^ 4 IMM ^ 3 DR ,W ,ADDQ (CALC PFA OF FOUND WORD)	2114 5843
77 4		^ 3 DR ^ CS [,W ,MOVE (& LEAVE ON STACK,)	2116 3683
77 5		^ FF IMM ^ 1 DR ,W ,AND	2118 0241
77 6		^ 1 DR ^ CS -C ,W ,MOVE (LEAVE LENGTHBYTE ON STK)	211C 3701
77 7		^ 1 IMM ^ CS -C ,W ,MOVE (LEAVE FOUND NFA FLAG,)	211E 373C
77 8		^ \$(FIND)4 *+ ,BRA (BRANCH TO EXIT,)	2122 660C
77 9	> \$(FIND)3	^ 3 DR ^ 2 AR ,W ,MOVE (PUT LFA INTO ADDRESS REG)	2124 3443
77 10		^ 2 [^ 1 AR ,W ,MOVE (LOAD LINKED NFA)	2126 3252
77 11		^ 1 AR ^ 6 DR ,W ,MOVE (SO CAN SEE IF ZEROS)	2128 3C09
77 12		^ ,NE, \$(FIND)1 *+ ,BCC (TILL EXHAUST DICT,)	212A 66BC
77 13		^ 0 IMM ^ CS [,W ,MOVE (LEAVE FAIL FLAG)	212C 36BC
77 14	> \$(FIND)4 NEXT		2130 3AEC 305D 4ED0
78 0	LAYCODEHEADER ENCLOSE	2136 87 45 4E 43 4C 4F 53 C5	
78 0	LAYCODEHEADER ENCLOSE	213E 20D5	2142
78 1	> \$ENCLOSE	^ CS [+ ^ 0 DR ,W ,MOVE (DELIMITER)	2142 3018
78 2		^ CS [^ 0 AR ,W ,MOVE (TEXTADDRESS)	2144 3053
78 3		^ 1 DR ,L ,CLR	2146 4281
78 4		^ \$ENCLOSE2 *+ ,BRA	2148 6002
78 5	> \$ENCLOSE1	^ 1 IMM ^ 1 DR ,W ,ADDQ	214A 5241
78 6	> \$ENCLOSE2	^ 0 0 1 &DC ^ 0 DR ,B ,CMP	214C E030
78 7		^ ,EQ, \$ENCLOSE1 *+ ,BCC (LOOP TILL NONDELIMIT)	2150 47F8
78 8		^ 1 DR ^ CS -C ,W ,MOVE (SAVE N1)	2152 3701
78 9	> \$ENCLOSE3	^ 0 0 1 &DC ^ 0 DR ,B ,CMP	2154 E030
78 10		^ ,EQ, \$ENCLOSE6 *+ ,BCC	2158 671A
78 11		^ 0 IMM ^ 0 0 1 &DC ,B ,CMP	215A 0C30
78 12		^ ,EQ, \$ENCLOSE4 *+ ,BCC (ASCII 00)	2160 6704
78 13		^ 1 IMM ^ 1 DR ,W ,ADDQ	2162 5241
78 14		^ \$ENCLOSE3 *+ ,BRA	2164 60EE
79 0	> \$ENCLOSE4	^ CS [^ 1 DR ,W ,CMP (JUST 00 ?)	2166 E253
79 1		^ ,NE, \$ENCLOSE5 *+ ,BCC (BRANCH IF NOT)	2168 6606
79 2		^ 1 IMM ^ 1 DR ,W ,ADDQ (ENCLOSE 00)	216A 5241
79 3		^ 1 DR ^ CS -C ,W ,MOVE (SAVE N2)	216C 3701
79 4		^ \$ENCLOSEB *+ ,BRA	216E 6008
79 5	> \$ENCLOSE5	^ 1 DR ^ CS -C ,W ,MOVE (SAVE N2)	2170 3701
79 6		^ \$ENCLOSEB *+ ,BRA	2172 6004

79 7	> \$ENCLOSE6	^ 1 DR ^ CS -[,W ,MOVE (SAVE N2)	2174 3701		
79 8		^ 1 IMM ^ 1 DR ,W ,ADDR (SKIP DELIMITER)	2176 5241		
79 9	> \$ENCLOSE8	^ 1 DR ^ CS -[,W ,MOVE (SAVE N3)	2178 3701		
79 10		NEXT	217A 3A5C	305D	4ED0
80 0	LAYCODEHEADER	CMOVE	2180 85 43	4D 4F	56 C5
80 0	LAYCODEHEADER	CMOVE	2186 2136	218A	
80 1	> \$CMOVE	^ 0 0 IMML ^ 0 AR ,L ,MOVE	218A 207C	0000	0000
80 2		^ 0 AR ^ 1 AR ,L ,MOVE	2190 2248		
80 3		^ CS [+ ^ 0 DR ,W ,MOVE	2192 301B		
80 4		^ CS [+ ^ 1 AR ,W ,MOVE	2194 325B		
80 5		^ CS [+ ^ 0 AR ,W ,MOVE	2196 305B		
80 6		^ 0 AR ^ 1 AR ,W ,CMP	2198 E2CB		
80 7		^ ,GT, \$MOVEKWD *+ ,BCC	219A 6E0A		
80 8		^ \$MOVFW1 *+ ,BRA	219C 6002		
80 9	> \$MOVFW	^ 0 [+ ^ 1 [+ ,B ,MOVE	219E 12D8		
80 10	> \$MOVFW1	^ ,F, 0 \$MOVFW *+ ,DECC	21A0 51C8	FFFC	
80 11		^ \$CMOVE5 *+ ,BRA	21A4 600C		
80 12	> \$MOVEKWD	^ 0 DR ^ 0 AR ,W ,ADD	21A6 D0C0		
80 13		^ 0 DR ^ 1 AR ,W ,ADD	21A8 D2C0		
80 14		^ \$MOVEKWD2 *+ ,BRA	21AA 6002		
81 0	> \$MOVEKWD1	^ 0 -[^ 1 -[,B ,MOVE	21AC 1320		
81 1	> \$MOVEKWD2	^ ,F, 0 \$MOVEKWD1 *+ ,DECC	21AE 51C8	FFFC	
81 2	> \$CMOVE5	NEXT	21B2 3A5C	305D	4ED0
81 4	LAYCODEHEADER	U*	21B8 0 82	55 AA	
81 4	LAYCODEHEADER	U*	21BC 2180	21C0	
81 5	> \$U*	^ CS [+ ^ 0 DR ,W ,MOVE	21C0 301B		
81 6		^ CS [+ ^ 0 DR ,MULU	21C2 C0DB		
81 7		^ 0 DR ^ CS -[,L ,MOVE	21C4 2700		
81 8		NEXT	21C6 3A5C	305D	4ED0
81 9	LAYCODEHEADER	U/	21CC 0 82	55 AF	
81 9	LAYCODEHEADER	U/	21D0 21B9	21D4	
81 10	> \$U/	^ CS [+ ^ 1 DR ,W ,MOVE	21D4 321B		
81 11		^ CS [- ^ 0 DR ,L ,MOVE	21D6 2013		
81 12		^ 1 DR ^ 0 DR ,DIVU	21D8 80C1		
81 13		^ 0 DR ,SWAP	21DA 4840		
81 14		^ 0 DR ^ CS [- ,L ,MOVE	21DC 2680		
81 15		NEXT -->	21DE 3A5C	305D	4ED0
82 0	LAYCODEHEADER	AND	21E4 83 41	4E C4	
82 0	LAYCODEHEADER	AND	21E8 21CD	21EC	
82 1	> \$AND	^ CS [+ ^ 0 DR ,W ,MOVE	21EC 301B		
82 2		^ 0 DR ^ CS [- ,W ,AND	21EE C153		
82 3		NEXT	21F0 3A5C	305D	4ED0
82 5	LAYCODEHEADER	OR	21F6 0 82	4F D2	
82 5	LAYCODEHEADER	OR	21FA 21E4	21FE	
82 6	> \$OR	^ CS [+ ^ 0 DR ,W ,MOVE	21FE 301B		
82 7		^ 0 DR ^ CS [- ,W ,OR	2200 8153		
82 8		NEXT	2202 3A5C	305D	4ED0
82 10	LAYCODEHEADER	XOR	2208 83 58	4F D2	
82 10	LAYCODEHEADER	XOR	220C 21F7	2210	
82 11	> \$XOR	^ CS [+ ^ 0 DR ,W ,MOVE	2210 301B		
82 12		^ 0 DR ^ CS [- ,W ,EOR	2212 8153		
82 13		NEXT	2214 3A5C	305D	4ED0
83 0	LAYCODEHEADER	SP@	221A 83 53	50 C0	
83 0	LAYCODEHEADER	SP@	221E 2208	2222	
83 1	> \$SP@	^ CS AR ^ 0 DR ,W ,MOVE	2222 300B		
83 2		^ 0 DR ^ CS -[,W ,MOVE	2224 3700		
83 3		NEXT	2226 3A5C	305D	4ED0
83 5	LAYCODEHEADER	SP!	222C 83 53	50 A1	
83 5	LAYCODEHEADER	SP!	2230 221A	2234	
83 6	> \$SP!	^ 6 US &[^ CS AR ,W ,MOVE	2234 366E	0006	
83 7		NEXT	2238 3A5C	305D	4ED0

83 9	LAYCODEHEADER RP!	223E 83 52 50 A1
83 9	LAYCODEHEADER RP!	2242 222C 2246
83 10	> \$RP! ^ B US &C ^ RS AR ,W ,MOVE	2246 3E6E 0008
83 11	NEXT	224A 3A5C 305D 4ED0
83 13	LAYCODEHEADER ;S (UNNEST)	2250 0 82 3B D3
83 13	LAYCODEHEADER ;S (UNNEST)	2254 223E 2258
83 14	> \$;S ^ RS [+ ^ IP AR ,W ,MOVE	2258 385F
83 15	NEXT -->	225A 3A5C 305D 4ED0
84 0	LAYCODEHEADER LEAVE	2260 85 4C 45 41 56 C5
84 0	LAYCODEHEADER LEAVE	2266 2251 226A
84 1	> \$LEAVE ^ RS [^ 2 RS &C ,W ,MOVE	226A 3F57 0002
84 2	NEXT	226E 3A5C 305D 4ED0
84 4	LAYCODEHEADER >R	2274 0 82 3E D2
84 4	LAYCODEHEADER >R	2278 2260 227C
84 5	> \$>R ^ CS [+ ^ RS -C ,W ,MOVE	227C 3F1B
84 6	NEXT	227E 3A5C 305D 4ED0
84 8	LAYCODEHEADER R>	2284 0 82 52 BE
84 8	LAYCODEHEADER R>	2288 2275 228C
84 9	> \$R> ^ RS [+ ^ CS -C ,W ,MOVE	228C 371F
84 10	NEXT	228E 3A5C 305D 4ED0
84 12	LAYCODEHEADER R	2294 81 D2
84 12	LAYCODEHEADER R	2296 2285 229A
84 13	> \$R ^ RS [^ CS -C ,W ,MOVE	229A 3717
84 14	NEXT	229C 3A5C 305D 4ED0
85 0	LAYCODEHEADER 0=	22A2 0 82 30 BD
85 0	LAYCODEHEADER 0=	22A6 2294 22AA
85 1	> \$0= ^ CS [,W ,TST	22AA 4A53
85 2	^ ,EQ, 1 CS &C ,SCC	22AC 57EB 0001
85 3	^ 1 IMM ^ CS [,W ,AND	22B0 0253 0001
85 4	NEXT	22B4 3A5C 305D 4ED0
85 6	LAYCODEHEADER 0<	22BA 0 82 30 BC
85 6	LAYCODEHEADER 0<	22BE 22A3 22C2
85 7	> \$0< ^ CS [,W ,TST	22C2 4A53
85 8	^ ,HI, 1 CS &C ,SCC	22C4 5BEB 0001
85 9	^ 1 IMM ^ CS [,W ,AND	22C8 0253 0001
85 10	NEXT	22CC 3A5C 305D 4ED0
85 12	LAYCODEHEADER +	22D2 81 AB
85 12	LAYCODEHEADER +	22D4 22BB 22D8
85 13	> \$+ ^ CS [+ ^ 0 DR ,W ,MOVE	22D8 301B
85 14	^ 0 DR ^ CS [,W ,ADD	22DA D153
85 15	NEXT -->	22DC 3A5C 305D 4ED0
86 0	LAYCODEHEADER MINUS	22E2 85 4D 49 4E 55 D3
86 0	LAYCODEHEADER MINUS	22E8 22D2 22EC
86 1	> \$MINUS ^ CS [,W ,NEG	22EC 4A53
86 2	NEXT	22EE 3A5C 305D 4ED0
86 4	LAYCODEHEADER D+	22F4 0 82 44 AB
86 4	LAYCODEHEADER D+	22F8 22E2 22FC
86 5	> \$D+ ^ CS [+ ^ 0 DR ,L ,MOVE (HI 16 BITS LOWER IN)	22FC 201B
86 6	^ 0 DR ^ CS [,L ,ADD (MEMORY SINCE STACK)	22FE D193
86 7	NEXT (GROWS DOWN,)	2300 3A5C 305D 4ED0
86 9	LAYCODEHEADER DMINUS	2306 0 86 44 4D 49 4E 55 D3
86 9	LAYCODEHEADER DMINUS	230E 22F5 2312
86 10	> \$DMINUS ^ CS [,L ,NEG	2312 4493
86 11	NEXT	2314 3A5C 305D 4ED0
87 0	LAYCODEHEADER OVER	231A 0 84 4F 56 45 D2
87 0	LAYCODEHEADER OVER	2320 2307 2324
87 1	> \$OVER ^ 2 CS &C ^ 0 DR ,W ,MOVE	2324 302B 0002
87 2	^ 0 DR ^ CS -C ,W ,MOVE	2328 3700
87 3	NEXT	232A 3A5C 305D 4ED0

87 5	LAYCODEHEADER	DROP	2330 0 84 44 52 4F D0
87 5	LAYCODEHEADER	DROP	2336 231B 233A
87 6	> \$DROP	^ 2 IMM ^ CS AR ,W ,ADDQ	233A 544B
87 7		NEXT	233C 3A5C 305D 4ED0
87 9	LAYCODEHEADER	SWAP	2342 0 84 53 57 41 D0
87 9	LAYCODEHEADER	SWAP	2348 2331 234C
87 10	> \$SWAP	^ CS [+ ^ 0 DR ,W ,MOVE	234C 301B
87 11		^ CS [^ 1 DR ,W ,MOVE	234E 3213
87 12		^ 0 DR ^ CS [,W ,MOVE	2350 3680
87 13		^ 1 DR ^ CS -[,W ,MOVE	2352 3701
87 14		NEXT	2354 3A5C 305D 4ED0
88 0	LAYCODEHEADER	DUP	235A 83 44 55 D0
88 0	LAYCODEHEADER	DUP	235E 2343 2362
88 1	> \$DUP	^ CS [^ 0 DR ,W ,MOVE	2362 3013
88 2		^ 0 DR ^ CS -[,W ,MOVE	2364 3700
88 3		NEXT	2366 3A5C 305D 4ED0
88 5	LAYCODEHEADER	+	236C 0 82 2E A1
88 5	LAYCODEHEADER	+	2370 235A 2374
88 6	> \$+	^ CS [+ ^ 0 AR ,W ,MOVE	2374 305B
88 7		^ CS [+ ^ 0 DR ,W ,MOVE	2376 301B
88 8		^ 0 DR ^ 0 [,W ,ADD	2378 D150
88 9		NEXT	237A 3A5C 305D 4ED0
88 11	LAYCODEHEADER	TOGGLE	2380 0 86 54 4F 47 47 4C C5
88 11	LAYCODEHEADER	TOGGLE	2388 236D 238C
88 12	> \$TOGGLE	^ CS [+ ^ 0 DR ,W ,MOVE	238C 301B
88 13		^ CS [+ ^ 0 AR ,W ,MOVE	238E 305B
88 14		^ 0 DR ^ 0 [,B ,EOR	2390 B110
88 15		NEXT -->	2392 3A5C 305D 4ED0
89 0	LAYCODEHEADER	@	2398 B1 C0
89 0	LAYCODEHEADER	@	239A 2381 239E
89 1	> \$@	^ CS [^ 0 AR ,W ,MOVE	239E 3053
89 2		^ 0 [^ CS [,W ,MOVE	23A0 3690
89 3		NEXT	23A2 3A5C 305D 4ED0
89 5	LAYCODEHEADER	C@	23AB 0 82 43 C0
89 5	LAYCODEHEADER	C@	23AC 2398 23B0
89 6	> \$C@	^ CS [+ ^ 0 AR ,W ,MOVE	23B0 305B
89 7		^ 0 [^ CS -[,B ,MOVE	23B2 1710
89 8		^ 0 IMM ^ CS -[,B ,MOVE	23B4 173C 0000
89 9		NEXT	23B8 3A5C 305D 4ED0
89 11	LAYCODEHEADER	!	23BE 81 A1
89 11	LAYCODEHEADER	!	23C0 23A9 23C4
89 12	> \$!	^ CS [+ ^ 0 AR ,W ,MOVE	23C4 305B
89 13		^ CS [+ ^ 0 [+ ,B ,MOVE	23C6 10DB
89 14		^ CS [+ ^ 0 [,B ,MOVE	23C8 109B
89 15		NEXT -->	23CA 3A5C 305D 4ED0
90 0	LAYCODEHEADER	FILL	23D0 0 84 46 49 4C CC
90 0	LAYCODEHEADER	FILL	23D6 23BE 23DA
90 1	> \$FILL	^ CS [+ ^ 0 DR ,W ,MOVE (FILLBYTE)	23DA 301B
90 2		^ CS [+ ^ 1 DR ,W ,MOVE (QUANTITY)	23DC 321B
90 3		^ CS [+ ^ 0 AR ,W ,MOVE (POINTER)	23DE 305B
90 4		^ \$FILL3 *+ ,BRA	23E0 6002
90 5	> \$FILL2	^ 0 DR ^ 0 [+ ,B ,MOVE	23E2 10C0
90 6	> \$FILL3	^ ,F, 1 \$FILL2 *+ ,DBCC	23E4 51C9 FFFC
90 7		NEXT	23E8 3A5C 305D 4ED0
91 0	LAYCODEHEADER	C!	23EE 0 82 43 A1
91 0	LAYCODEHEADER	C!	23F2 23D1 23F6
91 1	> \$C!	^ CS [+ ^ 0 AR ,W ,MOVE	23F6 305B
91 2		^ 1 IMM ^ CS AR ,W ,ADDQ	23F8 524B
91 3		^ CS [+ ^ 0 [,B ,MOVE	23FA 109B
91 4		NEXT	23FC 3A5C 305D 4ED0

91 5	LAY:HEADER C=	2402 0 82 43 BD	
91 5	LAY:HEADER C=	2406 23EF 2506	
91 6	> \$C=	^ \$- \$LAY \$LIT \$LAY 00FF LAY	240A 275A 2006 00FF
91 7		^ \$AND \$LAY \$0= \$LAY \$;	2410 21EA 22AB 2256
91 8	LAYCODEHEADER S->D		2416 0 84 53 2D 3E C4
91 8	LAYCODEHEADER S->D		241C 2403 2420
91 9	> \$S->D	^ CS [,W ,TST	2420 4A53
91 10		^ ,MI, \$S->D1 *+ ,BCC (branch if neg)	2422 6B06
91 11		^ 0 IMM ^ CS -[,W ,MOVE	2424 373C 0000
91 12		^ \$S->D2 *+ ,BRA	2428 6004
91 13	> \$S->D1	^ -1 IMM ^ CS -[,W ,MOVE	242A 373C FFFF
91 14	> \$S->D2	NEXT	242E 3A5C 305D 4ED0
92 0	LAYCODEHEADER EMIT		2434 0 84 45 4D 49 D4
92 0	LAYCODEHEADER EMIT		243A 2417 243E
92 1	> \$EMIT	^ CS [+ ^ 0 DR ,W ,MOVE (SEND BYTE IN DR0)	243E 301B
92 2		^ 1 IMM ^ 1A US &[,W ,ADDR (INC OUT)	2440 526E 001A
92 3		^ 40 US &[^ 0 AR ,W ,MOVE (EMITCODE ADDRESS)	2444 306E 0040
92 4		^ 0 [,JSR	2448 4E90
92 5		NEXT	244A 3A5C 305D 4ED0
92 6	LAYCODEHEADER KEY		2450 83 4E 45 D9
92 6	LAYCODEHEADER KEY		2454 2435 2458
92 7	> \$KEY	^ 42 US &[^ 0 AR ,W ,MOVE (KEYCODE ADDRESS)	2458 306E 0042
92 8		^ 0 [,JSR	245C 4E90
92 9		^ 0 DR ^ CS -[,W ,MOVE (GET BYTE FROM DR0)	245E 3700
92 10		NEXT	2460 3A5C 305D 4ED0
92 11	LAYCODEHEADER ?TERMINAL		2466 89 3F 54 45 52 4D 49 4E 41 CC
92 11	LAYCODEHEADER ?TERMINAL		2470 2450 2474
92 12	> \$?TERMINAL	^ 44 US &[^ 0 AR ,W ,MOVE (?TERMCODE ADDRESS)	2474 306E 0044
92 13		^ 0 [,JSR	2478 4E90
92 14		^ 0 DR ^ CS -[,W ,MOVE (GET FLAG FROM DR0)	247A 3700
92 15		NEXT -->	247C 3A5C 305D 4ED0
93 0	LAYCODEHEADER CR		2482 0 82 43 D2
93 0	LAYCODEHEADER CR		2486 2466 248A
93 1	> \$CR	^ 0 IMM ^ 1A US &[,W ,MOVE (ZERO OUT)	248A 3D7C 0000 001A
93 2		^ 46 US &[^ 0 AR ,W ,MOVE (CRCODE ADDRESS)	2490 306E 0046
93 3		^ 0 [,JSR	2494 4E90
93 4		NEXT	2496 3A5C 305D 4ED0
93 6	LAYCODEHEADER (VAR)		249C 85 28 56 41 52 A9
93 6	LAYCODEHEADER (VAR)		24A2 2483 24A6
93 7	> \$(VAR)	^ WP AR ^ CS -[,W ,MOVE	24A6 3700
93 8		NEXT	24A8 3A5C 305D 4ED0
93 9	LAYCODEHEADER (CONST)		24AE 87 28 43 4F 4E 53 54 A9
93 9	LAYCODEHEADER (CONST)		24E6 249C 24EA
93 10	> \$(CONST)	^ WP [^ CS -[,W ,MOVE	24EA 3715
93 11		NEXT -->	24EC 3A5C 305D 4ED0
94 0	LAYCODEHEADER (USER)		24C2 0 86 28 55 53 45 52 A9
94 0	LAYCODEHEADER (USER)		24CA 24AE 24CE
94 1	> \$(USER)	^ WP [^ 0 DR ,W ,MOVE	24CE 3015
94 2		^ 6 AR ^ 0 DR ,W ,ADD	24D0 D04E
94 3		^ 0 DR ^ CS -[,W ,MOVE	24D2 3700
94 4		NEXT	24D4 3A5C 305D 4ED0
94 5	LAYCODEHEADER (USERCONSTANT)		24DA 0 8E 28 55 53 45 52 43 4F 4E 53 54 41 4E 54 A9
94 5	LAYCODEHEADER (USERCONSTANT)		24EA 24C3 24EE
94 6	> \$(USERCONSTANT)	^ WP [^ 0 AR ,W ,MOVE	24EE 3055
94 7		^ 6 AR ^ 0 AR ,W ,ADD	24F0 D0CE
94 8		^ 0 [^ CS -[,W ,MOVE	24F2 3710
94 9		NEXT	24F4 3A5C 305D 4ED0
94 10	LAYCODEHEADER (NEST)		24FA 0 86 28 4E 45 53 54 A9
94 10	LAYCODEHEADER (NEST)		2502 24D8 2506
94 11	> \$(NEST)	^ IP AR ^ RS -[,W ,MOVE	2506 3F0C
94 12		^ WP AR ^ IP AR ,W ,MOVE	2508 384D
94 13		NEXT	250A 3A5C 305D 4ED0

95 0	LAYCONSTANT 0	> \$0	0000 LAY	2510 81 B0
95 0	LAYCONSTANT 0	> \$0	0000 LAY	2512 24FB 24BA 0000
95 1	LAYCONSTANT 1	> \$1	0001 LAY	2518 81 B1
95 1	LAYCONSTANT 1	> \$1	0001 LAY	251A 2510 24BA 0001
95 2	LAYCONSTANT 2	> \$2	0002 LAY	2520 81 B2
95 2	LAYCONSTANT 2	> \$2	0002 LAY	2522 2518 24BA 0002
95 3	LAYCONSTANT 3	> \$3	0003 LAY	2528 81 B3
95 3	LAYCONSTANT 3	> \$3	0003 LAY	252A 2520 24BA 0003
95 4	LAYCONSTANT BL	> \$BL	0020 LAY	2530 0 82 42 CC
95 4	LAYCONSTANT BL	> \$BL	0020 LAY	2534 2528 24BA 0020
95 5	LAYUSER BKSPKEY	> \$BKSPKEY	0002 LAY	253A 87 42 4B 53 50 4B 45 D9
95 5	LAYUSER BKSPKEY	> \$BKSPKEY	0002 LAY	2542 2531 24CE 0002
95 6	LAYUSER S0	> \$S0	0006 LAY	2548 0 82 53 B0
95 6	LAYUSER S0	> \$S0	0006 LAY	254C 253A 24CE 0006
95 7	LAYUSER R0	> \$R0	0008 LAY	2552 0 82 52 B0
95 7	LAYUSER R0	> \$R0	0008 LAY	2556 2549 24CE 0008
95 8	LAYUSER TIB	> \$TIB	000A LAY	255C 83 54 49 C2
95 8	LAYUSER TIB	> \$TIB	000A LAY	2560 2553 24CE 000A
95 9	LAYUSER WIDTH	> \$WIDTH	000C LAY	2566 85 57 49 44 54 C8
95 9	LAYUSER WIDTH	> \$WIDTH	000C LAY	256C 255C 24CE 000C
95 10	LAYUSER WARNING	> \$WARNING	000E LAY	2572 87 57 41 52 4E 49 4E C7
95 10	LAYUSER WARNING	> \$WARNING	000E LAY	257A 2566 24CE 000E
95 11	LAYUSER FENCE	> \$FENCE	0010 LAY	2580 85 46 45 4E 43 C5
95 11	LAYUSER FENCE	> \$FENCE	0010 LAY	2586 2572 24CE 0010
96 0	LAYUSER DP	> \$DP	0012 LAY	258C 0 82 44 D0
96 0	LAYUSER DP	> \$DP	0012 LAY	2590 2580 24CE 0012
96 1	LAYUSER VOC-LINK	> \$VOC-LINK	0014 LAY	2596 0 88 56 4F 43 2D 4C 49 4E CB
96 1	LAYUSER VOC-LINK	> \$VOC-LINK	0014 LAY	25A0 258D 24CE 0014
96 2	LAYUSER BLK	> \$BLK	0016 LAY	25A6 83 42 4C CB
96 2	LAYUSER BLK	> \$BLK	0016 LAY	25AA 2597 24CE 0016
96 3	LAYUSER IN	> \$IN	0018 LAY	25B0 0 82 49 CE
96 3	LAYUSER IN	> \$IN	0018 LAY	25B4 25A6 24CE 0018
96 4	LAYUSER OUT	> \$OUT	001A LAY	25BA 83 4F 55 D4
96 4	LAYUSER OUT	> \$OUT	001A LAY	25BE 25B1 24CE 001A
96 5	LAYUSER SCR	> \$SCR	001C LAY	25C4 83 53 43 D2
96 5	LAYUSER SCR	> \$SCR	001C LAY	25C8 25BA 24CE 001C
96 6	LAYUSER OFFSET	> \$OFFSET	001E LAY	25CE 0 86 4F 46 46 53 45 D4
96 6	LAYUSER OFFSET	> \$OFFSET	001E LAY	25D6 25C4 24CE 001E
96 7	LAYUSER CONTEXT	> \$CONTEXT	0020 LAY	25DC 87 43 4F 4E 54 45 58 D4
96 7	LAYUSER CONTEXT	> \$CONTEXT	0020 LAY	25E4 25CF 24CE 0020
96 8	LAYUSER CURRENT	> \$CURRENT	0022 LAY	25EA 87 43 55 52 52 45 4E D4
96 8	LAYUSER CURRENT	> \$CURRENT	0022 LAY	25F2 25DC 24CE 0022
96 9	LAYUSER STATE	> \$STATE	0024 LAY	25F8 85 53 54 41 54 C5
96 9	LAYUSER STATE	> \$STATE	0024 LAY	25FE 25EA 24CE 0024
96 10	LAYUSER BASE	> \$BASE	0026 LAY	2604 0 84 42 41 53 C5
96 10	LAYUSER BASE	> \$BASE	0026 LAY	260A 25F8 24CE 0026
96 11	LAYUSER DPL	> \$DPL	0028 LAY	2610 83 44 50 CC
96 11	LAYUSER DPL	> \$DPL	0028 LAY	2614 2605 24CE 0028
96 12	LAYUSER FLD	> \$FLD	002A LAY	261A 83 46 4C C4
96 12	LAYUSER FLD	> \$FLD	002A LAY	261E 2610 24CE 002A
96 13	LAYUSER CSP	> \$CSP	002C LAY	2624 83 43 53 D0
96 13	LAYUSER CSP	> \$CSP	002C LAY	2628 261A 24CE 002C
96 14	LAYUSER R#	> \$R#	002E LAY	262E 0 82 52 A3
96 14	LAYUSER R#	> \$R#	002E LAY	2632 2624 24CE 002E
96 15	LAYUSER HLD	> \$HLD	0030 LAY	2638 83 48 4C C4
96 15	LAYUSER HLD	> \$HLD	0030 LAY	263C 262F 24CE 0030
97 0	LAYUSERCONSTANT FIRST	> \$FIRST	0034 LAY	2642 85 46 49 52 53 D4
97 0	LAYUSERCONSTANT FIRST	> \$FIRST	0034 LAY	2648 2638 24CE 0034
97 1	LAYUSERCONSTANT LIMIT	> \$LIMIT	0036 LAY	264E 85 4C 49 4D 49 D4
97 1	LAYUSERCONSTANT LIMIT	> \$LIMIT	0036 LAY	2654 2642 24CE 0036

97 2	LAYUSER USE	> \$USE	003B LAY	265A 83 55 53 C5
97 2	LAYUSER USE	> \$USE	003B LAY	265E 264E 24CE 003B
97 3	LAYUSER PREV	> \$PREV	003A LAY	2664 0 84 50 52 45 D6
97 3	LAYUSER PREV	> \$PREV	003A LAY	266A 265A 24CE 003A
97 4	LAYUSER DICTLIMIT	> \$DICTLIMIT	003C LAY	2670 89 44 49 43 54 4C 49 4D 49 D4
97 4	LAYUSER DICTLIMIT	> \$DICTLIMIT	003C LAY	267A 2665 24CE 003C
97 5	LAYUSER BKSPEMIT	> \$BKSPEMIT	003E LAY	2680 0 88 42 48 53 50 45 4D 49 D4
97 5	LAYUSER BKSPEMIT	> \$BKSPEMIT	003E LAY	268A 2670 24CE 003E
97 6	LAYUSER EMITSUB	> \$EMITSUB	0040 LAY	2690 87 45 4D 49 54 53 55 C2
97 6	LAYUSER EMITSUB	> \$EMITSUB	0040 LAY	269B 2681 24CE 0040
97 7	LAYUSER KEYSUB	> \$KEYSUB	0042 LAY	269E 0 86 48 45 59 53 55 C2
97 7	LAYUSER KEYSUB	> \$KEYSUB	0042 LAY	26A6 2690 24CE 0042
97 8	LAYUSER ?TERMSUB	> \$?TERMSUB	0044 LAY	26AC 0 88 3F 54 45 52 4D 53 55 C2
97 8	LAYUSER ?TERMSUB	> \$?TERMSUB	0044 LAY	26B6 269F 24CE 0044
97 9	LAYUSER CRSUB	> \$CRSUB	0046 LAY	26BC 85 43 52 53 55 C2
97 9	LAYUSER CRSUB	> \$CRSUB	0046 LAY	26C2 26AD 24CE 0046
97 10	LAYUSER R/MSUB	> \$R/MSUB	0048 LAY	26C8 0 86 52 2F 57 53 55 C2
97 10	LAYUSER R/MSUB	> \$R/MSUB	0048 LAY	26D0 268C 24CE 0048
97 11	LAYUSERCONSTANT B/BUF	> \$B/BUF	004A LAY	26D6 85 42 2F 42 55 C6
97 11	LAYUSERCONSTANT B/BUF	> \$B/BUF	004A LAY	26DC 26C9 24CE 004A
97 12	LAYUSERCONSTANT B/SCR	> \$B/SCR	004C LAY	26E2 85 42 2F 53 43 D2
97 12	LAYUSERCONSTANT B/SCR	> \$B/SCR	004C LAY	26E8 26D6 24CE 004C
97 13	LAYUSERCONSTANT C/L	> \$C/L	004E LAY	26EE 83 43 2F CC
97 13	LAYUSERCONSTANT C/L	> \$C/L	004E LAY	26F2 26E2 24CE 004E
98 0	LAY:HEADER 1+			26F8 0 82 31 AB
98 0	LAY:HEADER 1+			26FC 26EE 2506
98 1	> \$1+ ^ \$1 \$LAY	\$+ \$LAY \$;		2700 251C 22D6 2256
98 3	LAY:HEADER 2+			2706 0 82 32 AB
98 3	LAY:HEADER 2+			270A 26F9 2506
98 4	> \$2+ ^ \$2 \$LAY	\$+ \$LAY \$;		270E 2524 22D6 2256
98 6	LAY:HEADER HERE			2714 0 84 48 45 52 C5
98 6	LAY:HEADER HERE			271A 2707 2506
98 7	> \$HERE ^ \$DP \$LAY	\$@ \$LAY \$;		271E 2592 239C 2256
98 9	LAY:HEADER ALLOT			2724 85 41 4C 4C 4F D4
98 9	LAY:HEADER ALLOT			272A 2715 2506
98 10	> \$ALLOT ^ \$DP \$LAY	\$+! \$LAY \$;		272E 2592 2372 2256
98 12	LAY:HEADER ,			2734 81 AC
98 12	LAY:HEADER ,			2736 2724 2506
98 13	> \$, ^ \$HERE \$LAY	\$! \$LAY \$2 \$LAY \$ALLOT \$LAY \$;		273A 271C 23C2 2524 272C 2256
99 0	LAY:HEADER C,			2744 0 82 43 AC
99 0	LAY:HEADER C,			2748 2734 2506
99 1	> \$C, ^ \$HERE \$LAY	\$C! \$LAY \$1 \$LAY		274C 271C 23F4 251C
99 2	^ \$ALLOT \$LAY	\$;		2752 272C 2256
99 4	LAY:HEADER -			2756 81 AD
99 4	LAY:HEADER -			2758 2745 2506
99 5	> \$- ^ \$MINUS \$LAY	\$+ \$LAY \$;		275C 22EA 22D6 2256
99 7	LAY:HEADER =			2762 81 BD
99 7	LAY:HEADER =			2764 2756 2506
99 8	> \$= ^ \$- \$LAY	\$0= \$LAY \$;		2768 275A 22AB 2256
99 10	LAY:HEADER <			276E 81 BC
99 10	LAY:HEADER <			2770 2762 2506
99 11	> \$< ^ \$- \$LAY	\$0< \$LAY \$;		2774 275A 22C0 2256
99 13	LAY:HEADER > DUMMY (AN ARTIFACT OF THIS ASSEMBLER)			277A 81 BE
99 13	LAY:HEADER > DUMMY (AN ARTIFACT OF THIS ASSEMBLER)			277C 276E 2506
99 14	> \$> ^ \$SWAP \$LAY	\$< \$LAY \$;		2780 234A 2772 2256
100 0	LAY:HEADER ROT			2786 83 52 4F D4
100 0	LAY:HEADER ROT			278A 277A 2506
100 1	> \$ROT ^ \$>R \$LAY	\$SWAP \$LAY \$R> \$LAY		278E 227A 234A 228A
100 2	^ \$SWAP \$LAY	\$;		2794 234A 2256

100 4	LAY:HEADER SPACE	2798 85 53 50 41 43 C5
100 4	LAY:HEADER SPACE	279E 2786 2506
100 5	> \$SPACE ^ \$BL \$LAY \$EMIT \$LAY \$;	27A2 2536 243C 2256
100 7	LAY:HEADER -DUP	27A8 0 84 2D 44 55 D0
100 7	LAY:HEADER -DUP	27AE 2798 2506
100 8	> \$-DUP ^ \$DUP \$LAY \$0BRANCH \$LAY 4 LAY	27B2 2360 2042 0004
100 9	^ \$DUP \$LAY \$;	27B8 2360 2256
100 11	LAY:HEADER TRAVERSE	27BC 0 88 54 52 41 56 45 52 53 C5
100 11	LAY:HEADER TRAVERSE	27C6 27A9 2506
100 12	> \$TRAVERSE ^ \$SWAP \$LAY \$OVER \$LAY \$+ \$LAY	27CA 234A 2322 22D6
100 13	^ \$LIT \$LAY 7F LAY \$OVER \$LAY	27D0 2006 007F 2322
100 14	^ \$C@ \$LAY \$< \$LAY \$0BRANCH \$LAY -10 LAY	27D6 23AE 2772 2042 FFF0
100 15	^ \$SWAP \$LAY \$DROP \$LAY \$; -->	27DE 234A 2338 2256
101 0	LAY:HEADER LATEST	27E4 0 86 4C 41 54 45 53 D4
101 0	LAY:HEADER LATEST	27EC 27E0 2506
101 1	> \$LATEST ^ \$CURRENT \$LAY \$@ \$LAY \$@ \$LAY \$;	27F0 25F4 239C 239C 2256
101 3	LAY:HEADER LFA	27F8 83 4C 46 C1
101 3	LAY:HEADER LFA	27FC 27E5 2506
101 4	> \$LFA ^ \$LIT \$LAY 4 LAY \$- \$LAY \$;	2800 2006 0004 275A 2256
101 6	LAY:HEADER CFA	2808 83 43 46 C1
101 6	LAY:HEADER CFA	280C 27F8 2506
101 7	> \$CFA ^ \$2 \$LAY \$- \$LAY \$;	2810 2524 275A 2256
101 9	LAY:HEADER NFA	2816 83 4E 46 C1
101 9	LAY:HEADER NFA	281A 2808 2506
101 10	> \$NFA ^ \$LIT \$LAY 5 LAY \$- \$LAY	281E 2006 0005 275A
101 11	^ \$LIT \$LAY -1 LAY \$TRAVERSE \$LAY \$;	2824 2006 FFFF 27C8 2256
101 13	LAY:HEADER PFA	282C 83 50 46 C1
101 13	LAY:HEADER PFA	2830 2816 2506
101 14	> \$PFA ^ \$1 \$LAY \$TRAVERSE \$LAY \$LIT \$LAY 5 LAY	2834 251C 27C8 2006 0005
101 15	^ \$+ \$LAY \$; -->	283C 22D6 2256
102 0	LAY:HEADER !CSP	2840 0 84 21 43 53 D0
102 0	LAY:HEADER !CSP	2846 282C 2506
102 1	> \$!CSP ^ \$SP@ \$LAY \$CSP \$LAY \$! \$LAY \$;	284A 2220 262A 23C2 2256
102 3	LAY:HEADER ?ERROR	2852 0 86 3F 45 52 52 4F D2
102 3	LAY:HEADER ?ERROR	285A 2841 2506
102 4	> \$?ERROR ^ \$SWAP \$LAY \$0BRANCH \$LAY 8 LAY	285E 234A 2042 0008
102 5	^ \$ERROR \$LAY \$ERANCH \$LAY 4 LAY	2864 2C4E 202C 0004
102 6	^ \$DROP \$LAY \$;	286A 2338 2256
102 8	LAY:HEADER ?COMP	286E 85 3F 43 4F 4D D0
102 8	LAY:HEADER ?COMP	2874 2853 2506
102 9	> \$?COMP ^ \$STATE \$LAY \$@ \$LAY \$0= \$LAY	2878 2600 239C 22AB
102 10	^ \$LIT \$LAY 11 LAY \$?ERROR \$LAY \$;	287E 2006 0011 285C 2256
102 12	LAY:HEADER ?EXEC	2886 85 3F 45 58 45 C3
102 12	LAY:HEADER ?EXEC	288C 286E 2506
102 13	> \$?EXEC ^ \$STATE \$LAY \$@ \$LAY	2890 2600 239C
102 14	^ \$LIT \$LAY 12 LAY \$?ERROR \$LAY \$;	2894 2006 0012 285C 2256
103 0	LAY:HEADER ?PAIRS	289C 0 86 3F 50 41 49 52 D3
103 0	LAY:HEADER ?PAIRS	28A4 2886 2506
103 1	> \$?PAIRS ^ \$- \$LAY \$LIT \$LAY 13 LAY	28AB 275A 2006 0013
103 2	^ \$?ERROR \$LAY \$;	28AE 285C 2256
103 4	LAY:HEADER ?CSP	28B2 0 84 3F 43 53 D0
103 4	LAY:HEADER ?CSP	28B8 289D 2506
103 5	> \$?CSP ^ \$SP@ \$LAY \$CSP \$LAY \$@ \$LAY	28BC 2220 262A 239C
103 6	^ \$- \$LAY \$LIT \$LAY 14 LAY	28C2 275A 2006 0014
103 7	^ \$?ERROR \$LAY \$;	28C8 285C 2256
103 9	LAY:HEADER ?LOADING	28CC 0 88 3F 4C 4F 41 44 49 4E C7
103 9	LAY:HEADER ?LOADING	28D6 28E3 2506
103 10	> \$?LOADING ^ \$BLK \$LAY \$@ \$LAY \$0= \$LAY	28DA 25AC 239C 22AB
103 11	^ \$LIT \$LAY 16 LAY \$?ERROR \$LAY \$;	28E0 2006 0016 285C 2256

103 12 LAY:HEADER COMPILE	28E8 87 43 4F 4D 50 49 4C C5
103 12 LAY:HEADER COMPILE	28F0 28CD 2506
103 13 > \$COMPILE ^ \$?COMP \$LAY \$R> \$LAY \$DUP \$LAY	28F4 2876 228A 2360
103 14 ^ \$2+ \$LAY \$>R \$LAY \$@ \$LAY	28FA 270C 227A 239C
103 15 ^ \$, \$LAY \$; ->	2900 273B 2256
104 0 LAY:HEADER [IMMED	2904 81 DB
104 0 LAY:HEADER [IMMED	2906 28E8 2506
104 1 > \$[^ \$0 \$LAY \$STATE \$LAY \$! \$LAY \$;	290A 2514 2600 23C2 2256
104 3 LAY:HEADER]	2912 81 DD
104 3 LAY:HEADER]	2914 2904 2506
104 4 > \$] ^ \$LIT \$LAY CO LAY \$STATE \$LAY	2918 2006 00C0 2600
104 5 ^ \$! \$LAY \$;	291E 23C2 2256
104 7 LAY:HEADER SMUDGE	2922 0 86 53 4D 55 44 47 C5
104 7 LAY:HEADER SMUDGE	292A 2912 2506
104 8 > \$SMUDGE ^ \$LATEST \$LAY \$LIT \$LAY 20 LAY	292E 27EE 2006 0020
104 9 ^ \$TOGGLE \$LAY \$;	2934 238A 2256
104 11 LAY:HEADER HEX	2938 83 4B 45 DB
104 11 LAY:HEADER HEX	293C 2923 2506
104 12 > \$HEX ^ \$LIT \$LAY 10 LAY \$BASE \$LAY	2940 2006 0010 260C
104 13 ^ \$! \$LAY \$;	2946 23C2 2256
105 0 LAY:HEADER DECIMAL	294A 87 44 45 43 49 4D 41 CC
105 0 LAY:HEADER DECIMAL	2952 2938 2506
105 1 > \$DECIMAL ^ \$LIT \$LAY 0A LAY \$BASE \$LAY	2956 2006 000A 260C
105 2 ^ \$! \$LAY \$;	295C 23C2 2256
105 4 LAY:HEADER (;CODE)	2960 87 28 38 43 4F 44 45 A9
105 4 LAY:HEADER (;CODE)	2968 294A 2506
105 5 > \$(;CODE) ^ \$R> \$LAY \$LATEST \$LAY \$PFA \$LAY	296C 228A 27EE 2832
105 6 ^ \$CFA \$LAY \$! \$LAY \$;	2972 280E 23C2 2256
105 8 LAY:HEADER COUNT	2978 85 43 4F 55 4E D4
105 8 LAY:HEADER COUNT	297E 2960 2506
105 9 > \$COUNT ^ \$DUP \$LAY \$1+ \$LAY \$SWAP \$LAY	2982 2360 26FE 234A
105 10 ^ \$C@ \$LAY \$;	2988 23AE 2256
105 12 LAY:HEADER TYPE	298C 0 84 54 59 50 C5
105 12 LAY:HEADER TYPE	2992 2978 2506
105 13 > \$TYPE ^ \$-DUP \$LAY \$0BRANCH \$LAY 18 LAY	2996 27B0 2042 0018
105 14 ^ \$OVER \$LAY \$+ \$LAY \$SWAP \$LAY	299C 2322 22D6 234A
105 15 ^ \$(DO) \$LAY \$R \$LAY \$C@ \$LAY -->	29A2 2090 2298 23AE
106 0 ^ \$EMIT \$LAY \$(LOOP) \$LAY -8 LAY	29AB 243C 205A FFF8
106 1 ^ \$BRANCH \$LAY 4 LAY \$DROP \$LAY	29AE 202C 0004 2338
106 2 ^ \$;	29B4 2256
106 3 LAY:HEADER -TRAILING	29B6 89 2D 54 52 41 49 4C 49 4E C7
106 3 LAY:HEADER -TRAILING	29C0 298D 2506
106 4 > \$-TRAILING ^ \$DUP \$LAY \$0 \$LAY \$(DO) \$LAY	29C4 2360 2514 2090
106 5 ^ \$OVER \$LAY \$OVER \$LAY \$+ \$LAY	29CA 2322 2322 22D6
106 6 ^ \$1 \$LAY \$- \$LAY \$C@ \$LAY	29D0 251C 275A 23AE
106 7 ^ \$BL \$LAY \$- \$LAY \$0BRANCH \$LAY 8 LAY	29D6 2536 275A 2042 0008
106 8 ^ \$LEAVE \$LAY \$BRANCH \$LAY 6 LAY	29DE 2268 202C 0006
106 9 ^ \$1 \$LAY \$- \$LAY	29E4 251C 275A
106 10 ^ \$(LOOP) \$LAY -20 LAY \$;	29E8 205A FFE0 2256
106 11 LAY:HEADER (,")	29EE 0 84 2B 2E 22 A9
106 11 LAY:HEADER (,")	29F4 29B6 2506
106 12 > \$(,") ^ \$R \$LAY \$COUNT \$LAY \$DUP \$LAY	29F8 2298 2980 2360
106 13 ^ \$2+ \$LAY \$LIT \$LAY FFFE LAY	29FE 270C 2006 FFFE
106 14 ^ \$AND \$LAY \$R> \$LAY \$+ \$LAY	2A04 21EA 228A 22D6
106 15 ^ \$>R \$LAY \$TYPE \$LAY \$; -->	2A0A 227A 2994 2256

107 0	LAY:HEADER EXPECT	2A10 0 86 45 58 50 45 43 D4
107 0	LAY:HEADER EXPECT	2A18 29EF 2506
107 1	> \$EXPECT ^ \$OVER \$LAY \$+ \$LAY \$OVER \$LAY	2A1C 2322 22D6 2322
107 2	^ \$(DO) \$LAY \$KEY \$LAY \$DUP \$LAY	2A22 2090 2456 2360
107 3	^ \$EKSPKEY \$LAY \$@ \$LAY \$C= \$LAY	2A28 2544 239C 2408
107 4	^ \$OBRANCH \$LAY 20 LAY \$DROP \$LAY	2A2E 2042 0020 2338
107 5	^ \$EKSPEMIT \$LAY \$@ \$LAY	2A34 268C 239C
107 6	^ \$OVER \$LAY \$R \$LAY \$= \$LAY	2A38 2322 2298 2766
107 7	^ \$DUP \$LAY \$R> \$LAY \$2 \$LAY	2A3E 2360 228A 2524
107 8	^ \$- \$LAY \$+ \$LAY \$>R \$LAY	2A44 275A 22D6 227A
107 9	^ \$- \$LAY \$ERANCH \$LAY 28 LAY	2A4A 275A 202C 0028
107 10	^ \$DUP \$LAY \$LIT \$LAY 0D LAY	2A50 2360 2006 000D
107 11	^ \$C= \$LAY \$OBRANCH \$LAY 0E LAY	2A56 2408 2042 000E
107 12	^ \$LEAVE \$LAY \$DROP \$LAY \$EL \$LAY	2A5C 2268 2338 2536
107 13	^ \$0 \$LAY \$ERANCH \$LAY 09 LAY	2A62 2514 202C 0009
107 14	^ \$DUP \$LAY \$R \$LAY \$C! \$LAY	2A68 2360 2298 23F4
107 15	^ \$0 \$LAY \$R \$LAY \$1+ \$LAY -->	2A6E 2514 2298 26FE
108 0	^ \$C! \$LAY \$EMIT \$LAY \$(LOOP) \$LAY	2A74 23F4 243C 205A
108 1	^ FFAA LAY \$DROP \$LAY \$;	2A7A FFAA 2338 2256
108 2	LAY:HEADER QUERY	2A80 85 51 55 45 52 D9
108 2	LAY:HEADER QUERY	2A86 2A11 2506
108 3	> \$QUERY ^ \$TIB \$LAY \$@ \$LAY \$LIT \$LAY	2A8A 2562 239C 2006
108 4	^ 50 LAY \$EXPECT \$LAY \$0 \$LAY	2A90 0050 2A1A 2514
108 5	^ \$IN \$LAY \$! \$LAY \$;	2A96 25B6 23C2 2256
108 6	LAY:HEADER X	2A9C 01-08 C/ 30
108 6	LAY:HEADER X	2A9E 2A80 2506
108 7	> \$X ^ C180 68HERE @ 6 - ! (FIX UP NULL DUMMY WORD)	2AA2
108 8	^ \$BLK \$LAY \$@ \$LAY \$OBRANCH \$LAY	2AA2 25AC 239C 2042
108 9	^ 2A LAY \$1 \$LAY \$BLK \$LAY	2AAB 002A 251C 25AC
108 10	^ \$+! \$LAY \$0 \$LAY \$IN \$LAY	2AAE 2372 2514 25B6
108 11	^ \$! \$LAY \$BLK \$LAY \$@ \$LAY	2AB4 23C2 25AC 239C
108 12	^ \$B/SCR \$LAY \$1 \$LAY \$- \$LAY \$AND \$LAY	2ABA 26EA 251C 275A 21EA
108 13	^ \$0= \$LAY \$OBRANCH \$LAY 8 LAY	2AC2 22A8 2042 0008
108 14	^ \$?EXEC \$LAY \$R> \$LAY \$DROP \$LAY	2AC8 288E 228A 2338
108 15	^ \$BRANCH \$LAY 6 LAY \$R> \$LAY -->	2ACE 202C 0006 228A
109 0	^ \$DROP \$LAY \$;	2AD4 2338 2256
109 1	LAY:HEADER ERASE	2AD8 85 45 52 41 53 C5
109 1	LAY:HEADER ERASE	2ADE 2A9C 2506
109 2	> \$ERASE ^ \$0 \$LAY \$FILL \$LAY \$;	2AE2 2514 23D8 2256
109 3	LAY:HEADER BLANKS	2AE8 0 86 42 4C 41 4E 4B D3
109 3	LAY:HEADER BLANKS	2AF0 2AD8 2506
109 4	> \$BLANKS ^ \$BL \$LAY \$FILL \$LAY \$;	2AF4 2536 23D8 2256
109 5	LAY:HEADER HOLD	2AFA 0 84 4B 4F 4C C4
109 5	LAY:HEADER HOLD	2B00 2AE9 2506
109 6	> \$HOLD ^ \$LIT \$LAY -1 LAY \$HLD \$LAY	2B04 2006 FFFF 263E
109 7	^ \$+! \$LAY \$HLD \$LAY \$@ \$LAY	2B0A 2372 263E 239C
109 8	^ \$C! \$LAY \$;	2B10 23F4 2256
109 9	LAY:HEADER PAD	2B14 83 50 41 C4
109 9	LAY:HEADER PAD	2B18 2AFB 2506
109 10	> \$PAD ^ \$HERE \$LAY \$LIT \$LAY 44 LAY -->	2B1C 271C 2006 0044
110 0	^ \$+ \$LAY \$;	2B22 22D6 2256

110 1	LAY:HEADER WORD	2E26 0 84 57 4F 52 C4
110 1	LAY:HEADER WORD	2E2C 2B14 2506
110 2	> \$WORD ^ \$BLK \$LAY @\$ \$LAY \$OBRANCH \$LAY	2E30 25AC 239C 2042
110 3	^ 0C LAY \$BLK \$LAY @\$ \$LAY	2E36 000C 25AC 239C
110 4	^ \$BLOCK \$LAY	2E3C 34B6
110 5	^ \$BRANCH \$LAY 06 LAY \$TIB \$LAY	2E3E 202C 0006 2562
110 6	^ @\$ \$LAY \$IN \$LAY @\$ \$LAY	2E44 239C 25B6 239C
110 7	^ \$+ \$LAY \$SWAP \$LAY \$ENCLOSE \$LAY	2E4A 22D6 234A 2140
110 8	^ \$HERE \$LAY \$LIT \$LAY 22 LAY	2E50 271C 2006 0022
110 9	^ \$BLANKS \$LAY \$IN \$LAY \$+! \$LAY	2E56 2AF2 25B6 2372
110 10	^ \$OVER \$LAY \$- \$LAY \$>R \$LAY	2E5C 2322 275A 227A
110 11	^ \$R \$LAY \$HERE \$LAY \$C! \$LAY	2E62 2298 271C 23F4
110 12	^ \$+ \$LAY \$HERE \$LAY \$1+ \$LAY	2E68 22D6 271C 26FE
110 13	^ \$R> \$LAY \$CMOVE \$LAY \$;	2E6E 228A 2188 2256
110 14	LAY:HEADER (NUMBER)	2E74 0 88 2B 4E 55 4D 42 45 52 A9
110 14	LAY:HEADER (NUMBER)	2E7E 2E27 2506
110 15	> \$(NUMBER) ^ \$1+ \$LAY \$DUP \$LAY \$>R \$LAY -->	2E82 26FE 2360 227A
111 0	^ \$C@ \$LAY \$BASE \$LAY @\$ \$LAY	2E88 23AE 260C 239C
111 1	^ \$DIGIT \$LAY \$OBRANCH \$LAY 2C LAY	2E8E 20A2 2042 002C
111 2	^ \$SWAP \$LAY \$BASE \$LAY @\$ \$LAY	2E94 234A 260C 239C
111 3	^ \$U* \$LAY \$DROP \$LAY \$ROT \$LAY	2E9A 21BE 2338 27BC
111 4	^ \$BASE \$LAY @\$ \$LAY \$U* \$LAY	2EA0 260C 239C 21BE
111 5	^ \$D+ \$LAY \$DPL \$LAY @\$ \$LAY	2EA6 22FA 2616 239C
111 6	^ \$1+ \$LAY \$OBRANCH \$LAY 8 LAY	2EAC 26FE 2042 0008
111 7	^ \$1 \$LAY \$DPL \$LAY \$+! \$LAY	2EB2 251C 2616 2372
111 8	^ \$R> \$LAY \$BRANCH \$LAY -3A LAY	2EB8 228A 202C FFC6
111 9	^ \$R> \$LAY \$;	2EBE 228A 2256
111 10	LAY:HEADER NUMBER	2EC2 0 86 4E 55 4D 42 45 D2
111 10	LAY:HEADER NUMBER	2ECA 2E75 2506
111 11	> \$NUMBER ^ \$0 \$LAY \$0 \$LAY \$ROT \$LAY	2ECE 2514 2514 27BC
111 12	^ \$DUP \$LAY \$1+ \$LAY \$C@ \$LAY	2ED4 2360 26FE 23AE
111 13	^ \$LIT \$LAY 2D LAY \$= \$LAY	2EDA 2006 002D 2766
111 14	^ \$DUP \$LAY \$>R \$LAY \$+ \$LAY	2EE0 2360 227A 22D6
111 15	^ \$LIT \$LAY -1 LAY \$DPL \$LAY -->	2EE6 2006 FFFF 2616
112 0	^ \$! \$LAY \$(NUMBER) \$LAY \$DUP \$LAY	2EEC 23C2 2E80 2360
112 1	^ \$C@ \$LAY \$BL \$LAY \$- \$LAY	2EF2 23AE 2536 275A
112 2	^ \$OBRANCH \$LAY 16 LAY \$DUP \$LAY	2EF8 2042 0016 2360
112 3	^ \$C@ \$LAY \$LIT \$LAY 2E LAY	2EFE 23AE 2006 002E
112 4	^ \$- \$LAY \$0 \$LAY \$?ERROR \$LAY	2C04 275A 2514 2B5C
112 5	^ \$0 \$LAY \$BRANCH \$LAY -24 LAY	2C0A 2514 202C FFDC
112 6	^ \$DROP \$LAY \$R> \$LAY \$OBRANCH \$LAY	2C10 2338 228A 2042
112 7	^ 4 LAY \$DMINUS \$LAY \$;	2C16 0004 2310 2256
112 8	LAY:HEADER -FIND	2C1C 85 2D 46 49 4E C4
112 8	LAY:HEADER -FIND	2C22 2E23 2506
112 9	> \$-FIND ^ \$BL \$LAY \$WORD \$LAY \$HERE \$LAY	2C26 2536 2E2E 271C
112 10	^ \$CONTEXT \$LAY @\$ \$LAY @\$ \$LAY	2C2C 25E6 239C 239C
112 11	^ \$(FIND) \$LAY \$DUP \$LAY \$0= \$LAY	2C32 20DE 2360 22A8
112 12	^ \$OBRANCH \$LAY A LAY \$DROP \$LAY	2C38 2042 000A 2338
112 13	^ \$HERE \$LAY \$LATEST \$LAY \$(FIND) \$LAY	2C3E 271C 27EE 20DE
112 14	^ \$;	2C44 2256
112 15	LAY:HEADER ERROR -->	2C46 85 45 52 52 4F D2
112 15	LAY:HEADER ERROR -->	2C4C 2C1C 2506
113 0	> \$ERROR ^ \$WARNING \$LAY @\$ \$LAY \$0< \$LAY	2C50 257C 239C 22C0
113 1	^ \$OBRANCH \$LAY 4 LAY \$ABORT \$LAY	2C56 2042 0004 2F58
113 2	^ \$HERE \$LAY \$COUNT \$LAY \$TYPE \$LAY	2C5C 271C 2980 2994
113 3	^ \$(,") \$LAY 0320 LAY 203F LAY	2C62 29F6 0320 203F
113 4	^ \$MESSAGE \$LAY	2C68 354E
113 5	^ \$SP! \$LAY \$IN \$LAY @\$ \$LAY	2C6A 2232 25B6 239C
113 6	^ \$BLK \$LAY @\$ \$LAY \$QUIT \$LAY	2C70 25AC 239C 2F26
113 7	^ \$;	2C76 2256

113 8	LAY:HEADER MIN	2C78 83 4D 49 CE
113 8	LAY:HEADER MIN	2C7C 2C46 2506
113 9	> \$MIN ^ \$OVER \$LAY \$OVER \$LAY \$> \$LAY	2C80 2322 2322 277E
113 10	^ \$OBRANCH \$LAY 4 LAY \$SWAP \$LAY	2C86 2042 0004 234A
113 11	^ \$DROP \$LAY \$;	2C8C 2338 2256
113 12	LAY:HEADER ID.	2C90 83 49 44 AE
113 12	LAY:HEADER ID.	2C94 2C78 2506
113 13	> \$ID. ^ \$PAD \$LAY \$LIT \$LAY 20 LAY	2C98 2B1A 2006 0020
113 14	^ \$LIT \$LAY 5F LAY \$FILL \$LAY	2C9E 2006 005F 23DB
113 15	^ \$DUP \$LAY \$PFA \$LAY \$LFA \$LAY -->	2CA4 2360 2B32 27FE
114 0	^ \$OVER \$LAY \$- \$LAY \$PAD \$LAY	2CAA 2322 275A 2B1A
114 1	^ \$SWAP \$LAY \$CHOVE \$LAY \$PAD \$LAY	2CB0 234A 2188 2B1A
114 2	^ \$COUNT \$LAY \$LIT \$LAY 1F LAY	2CB6 2980 2006 001F
114 3	^ \$AND \$LAY \$TYPE \$LAY \$SPACE \$LAY	2CBC 21EA 2994 27A0
114 4	^ \$;	2CC2 2256
114 5	LAY:HEADER CREATE	2CC4 0 86 43 52 45 41 54 C5
114 5	LAY:HEADER CREATE	2CCC 2C90 2506
114 6	> \$CREATE ^ \$DICTLIMIT \$LAY \$@ \$LAY \$HERE \$LAY	2CD0 267C 239C 271C
114 7	^ \$LIT \$LAY 30 LAY \$+ \$LAY \$< \$LAY	2CD6 2006 0030 22D6 2772
114 8	^ \$2 \$LAY \$?ERROR \$LAY \$-FIND \$LAY	2CDE 2524 2B5C 2C24
114 9	^ \$OBRANCH \$LAY 10 LAY	2CE4 2042 0010
114 10	^ \$DROP \$LAY \$NFA \$LAY \$ID. \$LAY	2CE8 2338 2B1C 2C96
114 11	^ \$LIT \$LAY 4 LAY \$MESSAGE \$LAY	2CEE 2006 0004 354E
114 12	^ \$SPACE \$LAY \$HERE \$LAY \$DUP \$LAY \$C@ \$LAY	2CF4 27A0 271C 2360 23AE
114 13	^ \$XOR \$LAY \$1 \$LAY \$AND \$LAY \$0= \$LAY	2CFC 220E 251C 21EA 22AB
114 14	^ \$OBRANCH \$LAY 1C LAY \$HERE \$LAY	2D04 2042 001C 271C
114 15	^ \$DUP \$LAY \$DUP \$LAY \$1+ \$LAY -->	2D0A 2360 2360 26FE
115 0	^ \$OVER \$LAY \$C@ \$LAY \$1+ \$LAY	2D10 2322 23AE 26FE
115 1	^ \$CHOVE \$LAY \$0 \$LAY \$SWAP \$LAY	2D16 2188 2514 234A
115 2	^ \$C! \$LAY \$1 \$LAY \$ALLOT \$LAY	2D1C 23F4 251C 272C
115 3	^ \$HERE \$LAY \$DUP \$LAY	2D22 271C 2360
115 4	^ \$C@ \$LAY \$WIDTH \$LAY \$@ \$LAY	2D26 23AE 256E 239C
115 5	^ \$MIN \$LAY \$1+ \$LAY \$ALLOT \$LAY	2D2C 2C7E 26FE 272C
115 6	^ \$DUP \$LAY \$LIT \$LAY A0 LAY	2D32 2360 2006 00A0
115 7	^ \$TOGGLE \$LAY \$HERE \$LAY \$1 \$LAY	2D38 238A 271C 251C
115 8	^ \$- \$LAY \$LIT \$LAY 80 LAY	2D3E 275A 2006 0080
115 9	^ \$TOGGLE \$LAY \$LATEST \$LAY \$, \$LAY	2D44 238A 27EE 2738
115 10	^ \$CURRENT \$LAY \$@ \$LAY \$! \$LAY	2D4A 25F4 239C 23C2
115 11	^ \$HERE \$LAY \$2+ \$LAY \$, \$LAY	2D50 271C 270C 2738
115 12	^ \$;	2D56 2256
116 0	LAY:HEADER : IMMED	2D58 C1 BA
116 0	LAY:HEADER : IMMED	2D5A 2CC5 2506
116 1	> \$! ^ \$?EXEC \$LAY \$!CSP \$LAY \$CURRENT \$LAY	2D5E 288E 2B48 25F4
116 2	^ \$@ \$LAY \$CONTEXT \$LAY \$! \$LAY	2D64 239C 25E6 23C2
116 3	^ \$CREATE \$LAY \$] \$LAY \$LIT \$LAY	2D6A 2CCE 2916 2006
116 4	^ -2 LAY \$DP \$LAY \$+! \$LAY	2D70 FFFE 2592 2372
116 5	^ \$COMPILE \$LAY \$(NEST) LAY \$;	2D76 28F2 2506 2256
116 6	LAY:HEADER !CODE	2D7C 85 21 43 4F 44 C5
116 6	LAY:HEADER !CODE	2D82 2D58 2506
116 7	> \$!CODE ^ \$CREATE \$LAY \$SMUDGE \$LAY \$LATEST \$LAY	2D86 2CCE 292C 27EE
116 8	^ \$PFA \$LAY \$CFA \$LAY \$! \$LAY	2D8C 2832 280E 23C2
116 9	^ \$, \$LAY \$; -->	2D92 2738 2256
117 0	LAY:HEADER CONSTANT	2D96 0 88 43 4F 4E 53 54 41 4E D4
117 0	LAY:HEADER CONSTANT	2DA0 2D7C 2506
117 1	> \$CONSTANT ^ \$LIT \$LAY \$(CONST) LAY \$!CODE \$LAY	2DA4 2006 248A 2D84
117 2	^ \$;	2DAA 2256
117 3	LAY:HEADER VARIABLE	2DAC 0 88 56 41 52 49 41 42 4C C5
117 3	LAY:HEADER VARIABLE	2DB6 2D97 2506
117 4	> \$VARIABLE ^ \$LIT \$LAY \$(VAR) LAY \$!CODE \$LAY	2DEA 2006 24A6 2D84
117 5	^ \$;	2DC0 2256

117 6	LAY:HEADER USER	2DC2 0 84 55 53 45 D2
117 6	LAY:HEADER USER	2DC8 2DAD 2506
117 7	> \$USER ^ \$LIT \$LAY \$(USER) LAY \$!CODE \$LAY	2DCC 2006 24CE 2D84
117 8	^ \$;	2DD2 2256
117 9	LAY:HEADER <BUILDS	2DD4 87 3C 42 55 49 4C 44 D3
117 9	LAY:HEADER <BUILDS	2DDC 2DC3 2506
117 10	> \$<BUILDS ^ \$0 \$LAY \$CONSTANT \$LAY \$;	2DE0 2514 2DA2 2256
117 11	LAY:HEADER DOES>	2DE6 85 44 4F 45 53 BE
117 11	LAY:HEADER DOES>	2DEC 2DD4 2506
117 12	> \$DOES> ^ \$R> \$LAY \$LATEST \$LAY \$FFA \$LAY	2DF0 228A 27EE 2832
117 13	^ \$! \$LAY \$(;CODE) \$LAY	2DF6 23C2 296A
117 14	> \$DOESCODE ^ IP AR ^ RS -C .W .MOVE	2DFA 3F0C
117 15	^ WP [+ ^ IP AR .W .MOVE -->	2DFC 385D
118 0	^ WP AR ^ CS -C .W .MOVE	2DFE 370D
118 1	NEXT	2E00 3A5C 305D 4ED0
118 2	LAY:HEADER LITERAL IMMED	2E06 C7 4C 49 54 45 52 41 CC
118 2	LAY:HEADER LITERAL IMMED	2E0E 2DE6 2506
118 3	> \$LITERAL ^ \$STATE \$LAY \$@ \$LAY \$0BRANCH \$LAY	2E12 2600 239C 2042
118 4	^ B LAY \$COMPILE \$LAY \$LIT \$LAY	2E18 0008 2BF2 2006
118 5	^ \$, \$LAY \$;	2E1E 2738 2256
118 6	LAY:HEADER DLITERAL IMMED	2E22 0 C8 44 4C 49 54 45 52 41 CC
118 6	LAY:HEADER DLITERAL IMMED	2E2C 2E06 2506
118 7	> \$DLITERAL ^ \$STATE \$LAY \$@ \$LAY \$0BRANCH \$LAY	2E30 2600 239C 2042
118 8	^ B LAY \$SNAP \$LAY \$LITERAL \$LAY	2E36 0008 234A 2E10
118 9	^ \$LITERAL \$LAY \$;	2E3C 2E10 2256
118 10	LAY:HEADER ?STACK	2E40 0 86 3F 53 54 41 43 CB
118 10	LAY:HEADER ?STACK	2E48 2E23 2506
118 11	> \$?STACK ^ \$S0 \$LAY \$@ \$LAY \$DUP \$LAY	2E4C 254E 239C 2360
118 12	^ \$SP@ \$LAY \$< \$LAY \$1 \$LAY	2E52 2220 2772 251C
118 13	^ \$?ERROR \$LAY \$LIT \$LAY 100 LAY	2E58 285C 2006 0100
118 14	^ \$+ \$LAY \$SP@ \$LAY \$< \$LAY	2E5E 22D6 2220 2772
118 15	^ \$LIT \$LAY 7 LAY \$?ERROR \$LAY -->	2E64 2006 0007 285C
119 0	^ \$;	2E6A 2256
119 1	LAY:HEADER INTERPRET	2E6C 89 49 4E 54 45 52 50 52 45 D4
119 1	LAY:HEADER INTERPRET	2E76 2E41 2506
119 2	> \$INTERPRET ^ \$-FIND \$LAY \$0BRANCH \$LAY 1E LAY	2E7A 2C24 2042 001E
119 3	^ \$STATE \$LAY \$@ \$LAY \$< \$LAY	2E80 2600 239C 2772
119 4	^ \$0BRANCH \$LAY A LAY \$CFA \$LAY	2E86 2042 000A 280E
119 5	^ \$, \$LAY \$ERANCH \$LAY 6 LAY	2E8C 2738 202C 0006
119 6	^ \$CFA \$LAY \$EXECUTE \$LAY \$?STACK \$LAY	2E92 280E 201A 2E4A
119 7	^ \$ERANCH \$LAY 1C LAY \$HERE \$LAY	2E98 202C 001C 271C
119 8	^ \$NUMBER \$LAY \$DPL \$LAY \$@ \$LAY	2E9E 2BCC 2616 239C
119 9	^ \$1+ \$LAY \$0BRANCH \$LAY 8 LAY	2EA4 26FE 2042 0008
119 10	^ \$DLITERAL \$LAY \$ERANCH \$LAY 6 LAY	2EAA 2E2E 202C 0006
119 11	^ \$DROP \$LAY \$LITERAL \$LAY \$?STACK \$LAY	2EB0 2338 2E10 2E4A
119 12	^ \$ERANCH \$LAY -3E LAY \$;	2EB6 202C FFC2 2256
119 13	LAY:HEADER VOCABULARY	2EBC 0 8A 56 4F 43 41 42 55 4C 41 52 D9
119 13	LAY:HEADER VOCABULARY	2EC8 2E6C 2506
119 14	> \$VOCABULARY ^ \$<BUILDS \$LAY \$LIT \$LAY 81A0 LAY	2ECC 2DDE 2006 81A0
119 15	^ \$, \$LAY \$CURRENT \$LAY \$@ \$LAY -->	2ED2 2738 25F4 239C
120 0	^ \$CFA \$LAY \$, \$LAY \$HERE \$LAY	2ED8 280E 2738 271C
120 1	^ \$VOC-LINK \$LAY \$@ \$LAY \$, \$LAY	2EDE 25A2 239C 2738
120 2	^ \$VOC-LINK \$LAY \$! \$LAY \$DOES> \$LAY	2EE4 25A2 23C2 2DEE
120 3	> \$VOCMID ^ \$2+ \$LAY \$CONTEXT \$LAY \$! \$LAY	2EEA 270C 25E6 23C2
120 4	^ \$;	2EF0 2256
120 5	LAYCODEHEADER FORTH IMMED	2EF2 C5 46 4F 52 54 CB
120 5	LAYCODEHEADER FORTH IMMED	2EF8 2EBD
120 6	> \$FORTH ^ -2 6\$HERE +! \$DOESCODE LAY \$VOCMID LAY	2EFA 2DFA 2EEA
120 7	^ 81A0 LAY 0 (COLD REFILLS THIS) LAY 0 LAY	2EFE 81A0 0000 0000

120 8	LAY:HEADER DEFINITIONS	2F04 8B 44 45 46 49 4E 49 54 49 4F 4E D3
120 8	LAY:HEADER DEFINITIONS	2F10 2EF2 2506
120 9	> \$DEFINITIONS ^ \$CONTEXT \$LAY \$@ \$LAY \$CURRENT \$LAY	2F14 25E6 239C 25F4
120 10	^ \$! \$LAY \$;	2F1A 23C2 2256
120 11	LAY:HEADER QUIT	2F1E 0 84 51 55 49 D4
120 11	LAY:HEADER QUIT	2F24 2F04 2506
120 12	> \$QUIT ^ \$0 \$LAY \$ELK \$LAY \$! \$LAY	2F28 2514 25AC 23C2
120 13	^ \$C \$LAY \$RP! \$LAY \$CR \$LAY	2F2E 2908 2244 2488
120 14	^ \$QUERY \$LAY \$INTERPRET \$LAY \$STATE \$LAY	2F34 2A88 2E78 2600
120 15	^ \$@ \$LAY \$0= \$LAY \$0BRANCH \$LAY -->	2F3A 239C 22AB 2042
121 0	^ A LAY \$(,") \$LAY 0520 LAY 2020 LAY	2F40 000A 29F6 0520 2020
121 1	^ 4F4B LAY \$BRANCH \$LAY -1C LAY	2F48 4F4B 202C FFE4
121 2	^ \$;	2F4E 2256
121 3	LAY:HEADER ABORT	2F50 85 41 42 4F 52 D4
121 3	LAY:HEADER ABORT	2F56 2F1F 2506
121 4	> \$ABORT ^ \$SP! \$LAY \$DECIMAL \$LAY \$CR \$LAY	2F5A 2232 2954 2488
121 5	^ \$(,") \$LAY 1536 LAY 3830 LAY	2F60 29F6 1536 3830
121 6	^ 3030 LAY 2066 LAY 6967 LAY	2F66 3030 2066 6967
121 7	^ 2D46 LAY 4F52 LAY 5448 LAY	2F6C 2D46 4F52 5448
121 8	^ 2056 LAY 332E LAY 3320 LAY	2F72 2056 332E 3320
121 9	^ (68000 fig-FORTH V3.3)	2F78
121 10	^ \$FORTH \$LAY \$DEFINITIONS \$LAY \$DRO \$LAY	2F78 2EFA 2F12 3702
121 11	^ \$QUIT \$LAY \$;	2F7E 2F26 2256
122 0	LAY:HEADER ; IMMED	2F82 C1 8B
122 0	LAY:HEADER ; IMMED	2F84 2F50 2506
122 1	^ \$?CSP \$LAY \$COMPILE \$LAY \$;S \$LAY	2F88 28BA 28F2 2256
122 2	^ \$SMUDGE \$LAY \$C \$LAY \$;	2F8E 292C 2908 2256
122 5	LAY:HEADER ; IMMED	2F94 0 C2 2E A2
122 5	LAY:HEADER ; IMMED	2F98 2F82 2506
122 6	> \$," ^ \$LIT \$LAY 22 LAY \$STATE \$LAY	2F9C 2006 0022 2600
122 7	^ \$@ \$LAY \$0BRANCH \$LAY 1A LAY	2FA2 239C 2042 001A
122 8	^ \$COMPILE \$LAY \$(,") \$LAY \$WORD \$LAY	2FAB 28F2 29F6 282E
122 9	^ \$HERE \$LAY \$CB \$LAY \$2+ \$LAY	2FAE 271C 23AE 270C
122 10	^ \$LIT \$LAY FFFE LAY \$AND \$LAY	2FB4 2006 FFFE 21EA
122 11	^ \$ALLOT \$LAY \$BRANCH \$LAY 0A LAY	2FBA 272C 202C 000A
122 12	^ \$WORD \$LAY \$HERE \$LAY \$COUNT \$LAY	2FC0 282E 271C 2980
122 13	^ \$TYPE \$LAY \$;	2FC6 2994 2256
122 14	LAY:HEADER (IMMED	2FCA C1 AB
122 14	LAY:HEADER (IMMED	2FCC 2F95 2506
122 15	> \$(^ \$LIT \$LAY 29 LAY \$WORD \$LAY \$; -->	2FD0 2006 0029 282E 2256
123 0	LAY:HEADER IMMEDIATE	2FD8 89 49 4D 4D 45 44 49 41 54 C5
123 0	LAY:HEADER IMMEDIATE	2FE2 2FCA 2506
123 1	> \$IMMEDIATE ^ \$LATEST \$LAY \$LIT \$LAY 40 LAY	2FE6 27EE 2006 0040
123 2	^ \$TOGGLE \$LAY \$;	2FEC 238A 2256
123 3	LAY:HEADER [COMPILE] IMMED	2FF0 C9 5B 43 4F 4D 50 49 4C 45 D0
123 3	LAY:HEADER [COMPILE] IMMED	2FFA 2FD8 2506
123 4	> \$[COMPILE] ^ \$-FIND \$LAY \$0= \$LAY \$0 \$LAY	2FFE 2C24 22AB 2514
123 5	^ \$?ERROR \$LAY \$DROP \$LAY \$CFA \$LAY	3004 285C 2338 280E
123 6	^ \$, \$LAY \$;	300A 2738 2256
123 7	LAY:HEADER ' IMMED	300E C1 A7
123 7	LAY:HEADER ' IMMED	3010 2FF0 2506
123 8	> \$' ^ \$-FIND \$LAY \$0= \$LAY \$0 \$LAY	3014 2C24 22AB 2514
123 9	^ \$?ERROR \$LAY \$DROP \$LAY \$LITERAL \$LAY	301A 285C 2338 2E10
123 10	^ \$;	3020 2256

Note: Change "V3.3" to "V1.0" by changing 33 byte at 2F74 to 31 and 33 byte at 2F76 to 30.

123 11	LAY:HEADER	FORGET	3022 0 86 46 4F 52 47 45 D4
123 11	LAY:HEADER	FORGET	302A 300E 2506
123 12	> \$FORGET	^ \$CURRENT \$LAY @\$ \$LAY \$CONTEXT \$LAY	302E 25F4 239C 25E6
123 13		^ @\$ \$LAY \$- \$LAY \$LIT \$LAY 18 LAY	303A 239C 275A 2006 0018
123 14		^ \$?ERROR \$LAY \$' \$LAY \$DUP \$LAY	303C 285C 3012 2360
123 15		^ \$FENCE \$LAY @\$ \$LAY \$< \$LAY -->	3042 2588 239C 2772
124 0		^ \$LIT \$LAY 15 LAY \$?ERROR \$LAY	3048 2006 0015 285C
124 1		^ \$DUP \$LAY \$NFA \$LAY \$DF \$LAY	304E 2360 281C 2592
124 2		^ \$! \$LAY \$LFA \$LAY @\$ \$LAY	305A 23C2 27FE 239C
124 3		^ \$CURRENT \$LAY @\$ \$LAY \$! \$LAY \$;	305A 25F4 239C 23C2 2256
124 4	LAY:HEADER	BACK	3062 0 84 42 41 43 C8
124 4	LAY:HEADER	BACK	3068 3023 2506
124 5	> \$BACK	^ \$HERE \$LAY \$- \$LAY \$, \$LAY \$;	306C 271C 275A 2738 2256
124 6	LAY:HEADER	BEGIN IMMED	307A C5 42 45 47 49 CE
124 6	LAY:HEADER	BEGIN IMMED	307A 3063 2506
124 7		^ \$?COMP \$LAY \$HERE \$LAY \$1 \$LAY \$;	307E 2876 271C 251C 2256
124 8	LAY:HEADER	ENDIF IMMED	3086 C5 45 4E 44 49 C6
124 8	LAY:HEADER	ENDIF IMMED	308C 3074 2506
124 9	> \$ENDIF	^ \$?COMP \$LAY \$2 \$LAY	3090 2876 2524
124 10		^ \$?PAIRS \$LAY \$HERE \$LAY \$OVER \$LAY	309A 28A6 271C 2322
124 11		^ \$- \$LAY \$SWAP \$LAY \$! \$LAY \$;	309A 275A 234A 23C2 2256
124 12	LAY:HEADER	THEN IMMED	30A2 0 C4 54 48 45 CE
124 12	LAY:HEADER	THEN IMMED	30A8 3086 2506
124 13		^ \$ENDIF \$LAY \$;	30AC 308E 2256
124 14	LAY:HEADER	DO IMMED	30B0 0 C2 44 CF
124 14	LAY:HEADER	DO IMMED	30B4 30A3 2506
124 15		^ \$COMPILE \$LAY \$(DO) \$LAY \$HERE \$LAY -->	30B8 28F2 2090 271C
125 0		^ \$3 \$LAY \$;	30BE 252C 2256
125 1	LAY:HEADER	LOOP IMMED	30C2 0 C4 4C 4F 4F D0
125 1	LAY:HEADER	LOOP IMMED	30CB 30B1 2506
125 2		^ \$3 \$LAY \$?PAIRS \$LAY	30CC 252C 28A6
125 3		^ \$COMPILE \$LAY \$(LOOP) \$LAY \$BACK \$LAY	30D0 28F2 205A 306A
125 4		^ \$;	30D6 2256
125 5	LAY:HEADER	+LOOP IMMED	30D8 C5 2B 4C 4F 4F D0
125 5	LAY:HEADER	+LOOP IMMED	30DE 30C3 2506
125 6		^ \$3 \$LAY \$?PAIRS \$LAY	30E2 252C 28A6
125 7		^ \$COMPILE \$LAY \$(+LOOP) \$LAY \$BACK \$LAY	30E6 28F2 2080 306A
125 8		^ \$;	30EC 2256
125 9	LAY:HEADER	UNTIL IMMED	30EE C5 55 4E 54 49 CC
125 9	LAY:HEADER	UNTIL IMMED	30F4 30D8 2506
125 10	> \$UNTIL	^ \$1 \$LAY \$?PAIRS \$LAY	30F8 251C 28A6
125 11		^ \$COMPILE \$LAY \$0BRANCH \$LAY \$BACK \$LAY	30FC 28F2 2042 306A
125 12		^ \$;	3102 2256
125 13	LAY:HEADER	END IMMED	3104 C3 45 4E C4
125 13	LAY:HEADER	END IMMED	3108 30EE 2506
125 14		^ \$UNTIL \$LAY \$;	310C 30F6 2256
126 0	LAY:HEADER	AGAIN IMMED	3110 C5 41 47 41 49 CE
126 0	LAY:HEADER	AGAIN IMMED	3116 3104 2506
126 1	> \$AGAIN	^ \$1 \$LAY \$?PAIRS \$LAY \$COMPILE \$LAY	311A 251C 28A6 28F2
126 2		^ \$BRANCH \$LAY \$BACK \$LAY \$;	3120 202C 306A 2256
126 3	LAY:HEADER	REPEAT IMMED	3126 0 C6 52 45 50 45 41 D4
126 3	LAY:HEADER	REPEAT IMMED	312E 3110 2506
126 4		^ \$>R \$LAY \$>R \$LAY \$AGAIN \$LAY	3132 227A 227A 3118
126 5		^ \$R> \$LAY \$R> \$LAY \$2 \$LAY	3138 228A 228A 2524
126 6		^ \$- \$LAY \$ENDIF \$LAY \$;	313E 275A 308E 2256
126 7	LAY:HEADER	IF IMMED	3144 0 C2 49 C6
126 7	LAY:HEADER	IF IMMED	3148 3127 2506
126 8	> \$IF	^ \$COMPILE \$LAY \$0BRANCH \$LAY \$HERE \$LAY	314C 28F2 2042 271C
126 9		^ \$0 \$LAY \$, \$LAY \$2 \$LAY \$;	3152 2514 2738 2524 2256

126 10	LAY:HEADER	ELSE IMMED	315A 0C4 45 4C 53 C5
126 10	LAY:HEADER	ELSE IMMED	3160 3145 2506
126 11		^ \$2 \$LAY \$?PAIRS \$LAY \$COMPILE \$LAY	3164 2524 28A6 28F2
126 12		^ \$BRANCH \$LAY \$HERE \$LAY \$0 \$LAY	316A 202C 271C 2514
126 13		^ \$, \$LAY \$SNAP \$LAY \$2 \$LAY	3170 273B 234A 2524
126 14		^ \$ENDIF \$LAY \$2 \$LAY \$;	3176 308E 2524 2256
127 0	LAY:HEADER	WHILE IMMED	317C C5 57 48 49 4C C5
127 0	LAY:HEADER	WHILE IMMED	3182 315B 2506
127 1		^ \$IF \$LAY \$2+ \$LAY \$;	3186 314A 270C 2256
127 2	LAY:HEADER	+-	318C 0 82 2B AD
127 2	LAY:HEADER	+-	3190 317C 2506
127 3	> \$+-	^ \$0< \$LAY \$0BRANCH \$LAY 4 LAY	3194 22C0 2042 0004
127 4		^ \$MINUS \$LAY \$;	319A 22EA 2256
127 5	LAY:HEADER	D+-	319E 83 44 2B AD
127 5	LAY:HEADER	D+-	31A2 318D 2506
127 6	> \$D+-	^ \$0< \$LAY \$0BRANCH \$LAY 4 LAY	31A6 22C0 2042 0004
127 7		^ \$DMINUS \$LAY \$;	31AC 2310 2256
127 8	LAY:HEADER	ABS	31B0 83 41 42 D3
127 8	LAY:HEADER	ABS	31B4 319E 2506
127 9	> \$ABS	^ \$DUP \$LAY \$+- \$LAY \$;	31B8 2360 3192 2256
127 10	LAY:HEADER	DABS	31BE 0 84 44 41 42 D3
127 10	LAY:HEADER	DABS	31C4 31E0 2506
127 11	> \$DABS	^ \$DUP \$LAY \$D+- \$LAY \$;	31C8 2360 31A4 2256
127 12	LAY:HEADER	MAX	31CE 83 4D 41 D8
127 12	LAY:HEADER	MAX	31D2 31EF 2506
127 13	> \$MAX	^ \$OVER \$LAY \$OVER \$LAY \$< \$LAY	31D6 2322 2322 2772
127 14		^ \$0BRANCH \$LAY 4 LAY \$SNAP \$LAY	31DC 2042 0004 234A
127 15		^ \$DROP \$LAY \$; -->	31E2 2338 2256
128 0	LAY:HEADER	M*	31E6 0 82 4D AA
128 0	LAY:HEADER	M*	31EA 31CE 2506
128 1	> \$M*	^ \$OVER \$LAY \$OVER \$LAY \$XOR \$LAY	31EE 2322 2322 220E
128 2		^ \$>R \$LAY \$AES \$LAY \$SNAP \$LAY	31F4 227A 31B6 234A
128 3		^ \$AES \$LAY \$U* \$LAY \$R> \$LAY	31FA 31B6 21BE 228A
128 4		^ \$D+- \$LAY \$;	3200 31A4 2256
128 5	LAY:HEADER	M/	3204 0 82 4D AF
128 5	LAY:HEADER	M/	3208 31E7 2506
128 6	> \$M/	^ \$OVER \$LAY \$>R \$LAY \$>R \$LAY	320C 2322 227A 227A
128 7		^ \$DABS \$LAY \$R \$LAY \$AES \$LAY	3212 31C6 2298 31B6
128 8		^ \$U/ \$LAY \$R> \$LAY \$R \$LAY	3218 21D2 228A 2298
128 9		^ \$XOR \$LAY \$+- \$LAY \$SNAP \$LAY	321E 220E 3192 234A
128 10		^ \$R> \$LAY \$+- \$LAY \$SNAP \$LAY \$;	3224 228A 3192 234A 2256
128 11	LAY:HEADER	*	322C 81 AA
128 11	LAY:HEADER	*	322E 3205 2506
128 12	> \$*	^ \$U* \$LAY \$DROP \$LAY \$;	3232 21BE 2338 2256
128 13	LAY:HEADER	/MOD	3238 0 84 2F 4D 4F C4
128 13	LAY:HEADER	/MOD	323E 322C 2506
128 14	> \$/MOD	^ \$>R \$LAY \$S->D \$LAY \$R> \$LAY	3242 227A 241E 228A
128 15		^ \$M/ \$LAY \$; -->	3248 320A 2256
129 0	LAY:HEADER	/	324C 81 AF
129 0	LAY:HEADER	/	324E 3239 2506
129 1	> \$/	^ \$/MOD \$LAY \$SNAP \$LAY \$DROP \$LAY \$;	3252 3240 234A 2338 2256
129 2	LAY:HEADER	MOD	325A 83 4D 4F C4
129 2	LAY:HEADER	MOD	325E 324C 2506
129 3	> \$MOD	^ \$/MOD \$LAY \$DROP \$LAY \$;	3262 3240 2338 2256
129 4	LAY:HEADER	*/MOD	3268 85 2A 2F 4D 4F C4
129 4	LAY:HEADER	*/MOD	326E 325A 2506
129 5	> \$*/MOD	^ \$>R \$LAY \$M* \$LAY \$R> \$LAY	3272 227A 31EC 228A
129 6		^ \$M/ \$LAY \$;	3278 320A 2256

129 7	LAY:HEADER	*/	327C 0 82 2A AF
129 7	LAY:HEADER	*/	3280 3268 2506
129 8	> */	^ \$*/MOD \$LAY \$SWAP \$LAY \$DROP \$LAY \$;	3284 3270 234A 2338 2256
129 9	LAY:HEADER	M/MOD	328C 85 4D 7F 4D 4F C4
129 9	LAY:HEADER	M/MOD	3292 327D 2506
129 10	> \$M/MOD	^ \$>R \$LAY \$0 \$LAY \$R \$LAY	3296 227A 2514 2298
129 11		^ \$U/ \$LAY \$R> \$LAY \$SWAP \$LAY	329C 21D2 228A 234A
129 12		^ \$>R \$LAY \$U/ \$LAY \$R> \$LAY \$;	32A2 227A 21D2 228A 2256
130 0	LAY:HEADER	SFACES	32AA 0 86 53 50 41 43 45 D3
130 0	LAY:HEADER	SFACES	32E2 328C 2506
130 1	> \$SFACES	^ \$0 \$LAY \$MAX \$LAY \$-DUP \$LAY	32E6 2514 31D4 27B0
130 2		^ \$0BRANCH \$LAY C LAY \$0 \$LAY	32EC 2042 000C 2514
130 3		^ \$(DO) \$LAY \$SPACE \$LAY \$(LOOP) \$LAY	32C2 2090 27A0 205A
130 4		^ -4 LAY \$;	32C8 FFFF 2256
130 5	LAY:HEADER	<#	32CC 0 82 3C A3
130 5	LAY:HEADER	<#	32D0 32AB 2506
130 6	> <#	^ \$PAD \$LAY \$HLD \$LAY \$! \$LAY \$;	32D4 2B1A 263E 23C2 2256
130 7	LAY:HEADER	#>	32DC 0 82 23 BE
130 7	LAY:HEADER	#>	32E0 32CD 2506
130 8	> #>	^ \$DROP \$LAY \$DROP \$LAY \$HLD \$LAY	32E4 2338 2338 263E
130 9		^ \$@ \$LAY \$PAD \$LAY \$OVER \$LAY	32EA 239C 2B1A 2322
130 10		^ \$- \$LAY \$;	32F0 275A 2256
130 11	LAY:HEADER	SIGN	32F4 0 84 53 49 47 CE
130 11	LAY:HEADER	SIGN	32FA 32DD 2506
130 12	> \$SIGN	^ \$ROT \$LAY \$0< \$LAY \$0BRANCH \$LAY	32FE 278C 22C0 2042
130 13		^ B LAY \$LIT \$LAY 2D LAY	3304 0008 2006 002D
130 14		^ \$HOLD \$LAY \$;	330A 2B02 2256
131 0	LAY:HEADER	#	330E 81 A3
131 0	LAY:HEADER	#	3310 32F5 2506
131 1	> #	^ \$BASE \$LAY \$@ \$LAY \$M/MOD \$LAY	3314 260C 239C 3294
131 2		^ \$ROT \$LAY \$LIT \$LAY 9 LAY	331A 278C 2006 0009
131 3		^ \$OVER \$LAY \$< \$LAY \$0BRANCH \$LAY	3320 2322 2772 2042
131 4		^ B LAY \$LIT \$LAY 7 LAY \$+ \$LAY	3326 0008 2006 0007 22D6
131 5		^ \$LIT \$LAY 30 LAY \$+ \$LAY	332E 2006 0030 22D6
131 6		^ \$HOLD \$LAY \$;	3334 2B02 2256
131 7	LAY:HEADER	#S	3338 0 82 23 D3
131 7	LAY:HEADER	#S	333C 330E 2506
131 8	> #S	^ # \$LAY \$OVER \$LAY \$OVER \$LAY	3340 3312 2322 2322
131 9		^ \$OR \$LAY \$0= \$LAY \$0BRANCH \$LAY	3346 21FC 22AB 2042
131 10		^ -C LAY \$;	334C FFF4 2256
131 11	LAY:HEADER	D,R	3350 83 44 2E D2
131 11	LAY:HEADER	D,R	3354 3339 2506
131 12	> \$D,R	^ \$>R \$LAY \$SWAP \$LAY \$OVER \$LAY	3358 227A 234A 2322
131 13		^ \$DABS \$LAY \$<# \$LAY #S \$LAY	335E 31C6 32D2 333E
131 14		^ \$SIGN \$LAY #> \$LAY \$R> \$LAY	3364 32FC 32E2 228A
131 15		^ \$OVER \$LAY \$- \$LAY \$SFACES \$LAY -->	336A 2322 275A 32B4
132 0		^ \$TYPE \$LAY \$;	3370 2994 2256
132 1	LAY:HEADER	D.	3374 0 82 44 AE
132 1	LAY:HEADER	D.	3378 3350 2506
132 2	> \$D.	^ \$0 \$LAY \$D,R \$LAY \$SPACE \$LAY \$;	337C 2514 3356 27A0 2256
132 3	LAY:HEADER	,R	3384 0 82 2E D2
132 3	LAY:HEADER	,R	3388 3375 2506
132 4	> \$,R	^ \$>R \$LAY \$S->D \$LAY \$R> \$LAY	338C 227A 241E 228A
132 5		^ \$D,R \$LAY \$;	3392 3356 2256
132 6	LAY:HEADER	,	3396 81 AE
132 6	LAY:HEADER	,	3398 3385 2506
132 7	> \$,	^ \$S->D \$LAY \$D, \$LAY \$;	339C 241E 337A 2256
132 8	LAY:HEADER	?	33A2 81 BF
132 8	LAY:HEADER	?	33A4 3396 2506
132 9	> \$?	^ \$@ \$LAY \$, \$LAY \$;	33AB 239C 339A 2256

133 0	LAY:HEADER	VLIST	33AE 85 56 4C 49 53 D4	
133 0	LAY:HEADER	VLIST	33B4 33A2 2506	
133 1	^ \$LIT \$LAY	80 LAY \$OUT \$LAY \$! \$LAY	33B8 2006 0080 25C0 23C2	
133 2	^ \$CONTEXT \$LAY	\$@ \$LAY \$@ \$LAY \$OUT \$LAY	33C0 25E6 239C 239C 25C0	
133 3	^ @\$ \$LAY	\$C/L \$LAY \$> \$LAY \$0BRANCH \$LAY	33C6 239C 26F4 277E 2042	
133 4	^ C LAY	\$CR \$LAY \$LIT \$LAY E LAY	33D0 000C 2488 2006 000E	
133 5	^ \$OUT \$LAY	\$! \$LAY \$DUP \$LAY \$ID, \$LAY	33D8 25C0 23C2 2360 2C96	
133 6	^ \$SPACE \$LAY	\$SPACE \$LAY \$FFA \$LAY \$LFA \$LAY	33E0 27A0 27A0 2832 27FE	
133 7	^ @\$ \$LAY	\$DUP \$LAY \$0= \$LAY \$?TERMINAL \$LAY	33E8 239C 2360 22AB 2472	
133 8	^ \$OR \$LAY	\$0BRANCH \$LAY -2E LAY \$DROP \$LAY	33F0 21FC 2042 FFD2 2338	
133 9	^ \$;		33F8 2256	
134 0	LAY:HEADER	+BUF	33FA 0 84 2E 42 55 C6	
134 0	LAY:HEADER	+BUF	3400 33AE 2506	
134 1	> \$+BUF	^ \$E/BUF \$LAY	\$LIT \$LAY 4 LAY	3404 26DE 2006 0004
134 2		^ \$+ \$LAY	\$+ \$LAY \$DUP \$LAY	340A 22D6 22D6 2360
134 3		^ \$LIMIT \$LAY	\$= \$LAY \$0BRANCH \$LAY	3410 2656 2766 2042
134 4		^ 6 LAY	\$DROP \$LAY \$FIRST \$LAY	3416 0006 2338 264A
134 5		^ \$DUP \$LAY	\$PREV \$LAY @\$ \$LAY	341C 2360 266C 239C
134 6		^ \$- \$LAY	\$;	3422 275A 2256
134 7	LAY:HEADER	UPDATE	3426 0 86 55 50 44 41 54 C5	
134 7	LAY:HEADER	UPDATE	342E 33FB 2506	
134 8	> \$UPDATE	^ \$PREV \$LAY	\$@ \$LAY @\$ \$LAY	3432 266C 239C 239C
134 9		^ \$LIT \$LAY	8000 LAY \$OR \$LAY	3438 2006 8000 21FC
134 10		^ \$PREV \$LAY	\$@ \$LAY \$! \$LAY \$;	343E 266C 239C 23C2 2256
134 11	LAY:HEADER	EMPTY-BUFFERS	3446 BD 45 4D 50 54 59 2D 42 55 46 46	
134 11	LAY:HEADER	EMPTY-BUFFERS	3454 3427 2506 45 52 D3	
134 12	> \$EMPTY-BUFFERS	^ \$FIRST \$LAY	\$LIMIT \$LAY \$OVER \$LAY	3458 264A 2656 2322
134 13		^ \$- \$LAY	\$ERASE \$LAY \$;	345E 275A 2AE0 2256
135 0	LAY:HEADER	BUFFER	3464 0 86 42 55 46 46 45 D2	
135 0	LAY:HEADER	BUFFER	346C 3446 2506	
135 1	> \$EUFFER	^ \$USE \$LAY	\$@ \$LAY \$DUP \$LAY	3470 2660 239C 2360
135 2		^ \$>R \$LAY	\$+BUF \$LAY \$0BRANCH \$LAY	3476 227A 3402 2042
135 3		^ -4 LAY	\$USE \$LAY \$! \$LAY	347C FFFC 2660 23C2
135 4		^ \$R \$LAY	\$@ \$LAY \$0< \$LAY	3482 2298 239C 22C0
135 5		^ \$0BRANCH \$LAY	14 LAY \$R \$LAY	3488 2042 0014 2298
135 6		^ \$2+ \$LAY	\$R \$LAY @\$ \$LAY	348E 270C 2298 239C
135 7		^ \$LIT \$LAY	7FFF LAY \$AND \$LAY	3494 2006 7FFF 21EA
135 8		^ \$0 \$LAY	\$R/W \$LAY \$R \$LAY	349A 2514 36CE 2298
135 9		^ \$! \$LAY	\$R \$LAY \$PREV \$LAY	34A0 23C2 2298 266C
135 10		^ \$! \$LAY	\$R> \$LAY \$2+ \$LAY \$;	34A6 23C2 228A 270C 2256
135 11	LAY:HEADER	BLOCK	34AE 85 42 4C 4F 43 CB	
135 11	LAY:HEADER	BLOCK	34B4 3465 2506	
135 12	> \$BLOCK	^ \$OFFSET \$LAY	\$@ \$LAY \$+ \$LAY	34B8 25D8 239C 22D6
135 13		^ \$>R \$LAY	\$PREV \$LAY @\$ \$LAY	34BE 227A 266C 239C
135 14		^ \$DUP \$LAY	\$@ \$LAY \$R \$LAY	34C4 2360 239C 2298
135 15		^ \$- \$LAY	\$DUP \$LAY \$+ \$LAY -->	34CA 275A 2360 22D6
136 0		^ \$0BRANCH \$LAY	34 LAY \$+BUF \$LAY	34D0 2042 0034 3402
136 1		^ \$0= \$LAY	\$0BRANCH \$LAY 14 LAY	34D6 22AB 2042 0014
136 2		^ \$DROP \$LAY	\$R \$LAY \$EUFFER \$LAY	34DC 2338 2298 346E
136 3		^ \$DUP \$LAY	\$R \$LAY \$1 \$LAY	34E2 2360 2298 251C
136 4		^ \$R/W \$LAY	\$2 \$LAY \$- \$LAY	34E8 36CE 2524 275A
136 5		^ \$DUP \$LAY	\$@ \$LAY \$R \$LAY	34EE 2360 239C 2298
136 6		^ \$- \$LAY	\$DUP \$LAY \$+ \$LAY	34F4 275A 2360 22D6
136 7		^ \$0= \$LAY	\$0BRANCH \$LAY -2A LAY	34FA 22AB 2042 FFD6
136 8		^ \$DUP \$LAY	\$PREV \$LAY \$! \$LAY	3500 2360 266C 23C2
136 9		^ \$R> \$LAY	\$DROP \$LAY \$2+ \$LAY \$;	3506 228A 2338 270C 2256

136 10	LAY:HEADER	(LINE)	350E 0 86 28 4C 49 4E 45 A9
136 10	LAY:HEADER	(LINE)	3516 34AE 2506
136 11	> \$(LINE)	^ \$>R \$LAY \$C/L \$LAY \$E/BUF \$LAY	351A 227A 26F4 26DE
136 12		^ \$*/MOD \$LAY \$R> \$LAY \$E/SCR \$LAY	3520 3270 228A 26EA
136 13		^ \$* \$LAY \$+ \$LAY \$BLOCK \$LAY	3526 3230 22D6 3486
136 14		^ \$+ \$LAY \$C/L \$LAY \$;	352C 22D6 26F4 2256
137 0	LAY:HEADER	.LINE	3532 85 2E 4C 49 4E C5
137 0	LAY:HEADER	.LINE	3538 350F 2506
137 1	> \$.LINE	^ \$(LINE) \$LAY \$-TRAILING \$LAY \$TYPE \$LAY	353C 3518 29C2 2994
137 2		^ \$;	3542 2256
137 3	LAY:HEADER	MESSAGE	3544 87 4D 45 53 53 41 47 C5
137 3	LAY:HEADER	MESSAGE	354C 3532 2506
137 4	> \$MESSAGE	^ \$WARNING \$LAY \$@ \$LAY \$OBRANCH \$LAY	3550 257C 239C 2042
137 5		^ 1C LAY \$-DUP \$LAY \$OBRANCH \$LAY	3556 001C 2780 2042
137 6		^ 12 LAY \$LIT \$LAY 4 LAY	355C 0012 2006 0004
137 7		^ \$OFFSET \$LAY \$@ \$LAY \$E/SCR \$LAY	3562 25D8 239C 26EA
137 8		^ \$/ \$LAY \$- \$LAY \$.LINE \$LAY	3568 3250 275A 353A
137 9		^ \$ERANCH \$LAY C LAY \$(,") \$LAY	356E 202C 000C 29F6
137 10		^ 054D LAY 5347 LAY 2023 LAY (MSG #)	3574 054D 5347 2023
137 11		^ \$. \$LAY \$;	357A 339A 2256
137 12	LAY:HEADER	LOAD	357E 0 84 4C 4F 41 C4
137 12	LAY:HEADER	LOAD	3584 3544 2506
137 13	> \$LOAD	^ \$BLK \$LAY \$@ \$LAY \$>R \$LAY	3588 25AC 239C 227A
137 14		^ \$IN \$LAY \$@ \$LAY \$>R \$LAY	358E 25B6 239C 227A
137 15		^ \$0 \$LAY \$IN \$LAY \$! \$LAY -->	3594 2514 25B6 23C2
138 0		^ \$E/SCR \$LAY \$* \$LAY \$BLK \$LAY	359A 26EA 3230 25AC
138 1		^ \$! \$LAY \$INTERPRET \$LAY \$R> \$LAY	35A0 23C2 2E78 228A
138 2		^ \$IN \$LAY \$! \$LAY \$R> \$LAY	35A6 25B6 23C2 228A
138 3		^ \$BLK \$LAY \$! \$LAY \$;	35AC 25AC 23C2 2256
138 4	LAY:HEADER	--> IMMED	35B2 83 2D 2D BE
138 4	LAY:HEADER	--> IMMED	35B6 357F 2506
138 5	> \$-->	^ \$?LOADING \$LAY \$0 \$LAY \$IN \$LAY	35BA 28D8 2514 25B6
138 6		^ \$! \$LAY \$E/SCR \$LAY \$BLK \$LAY	35C0 23C2 26EA 25AC
138 7		^ \$@ \$LAY \$OVER \$LAY \$MOD \$LAY	35C6 239C 2322 3260
138 8		^ \$- \$LAY \$BLK \$LAY \$+! \$LAY \$;	35CC 275A 25AC 2372 2256
138 9	LAY:HEADER	LIST	35D4 0 84 4C 49 53 D4
138 9	LAY:HEADER	LIST	35DA 35B2 2506
138 10	> \$LIST	^ \$DECIMAL \$LAY \$CR \$LAY \$DUP \$LAY	35DE 2954 2488 2360
138 11		^ \$SCR \$LAY \$! \$LAY \$(,") \$LAY	35E4 25CA 23C2 29F6
138 12		^ 0553 LAY 4352 LAY 2023 LAY (SCR #)	35EA 0553 4352 2023
138 13		^ \$. \$LAY \$LIT \$LAY 10 LAY	35F0 339A 2006 0010
138 14		^ \$0 \$LAY \$(DO) \$LAY \$CR \$LAY	35F6 2514 2090 2488
138 15		^ \$R \$LAY \$3 \$LAY -->	35FC 2298 252C
139 0		^ \$.R \$LAY \$SPACE \$LAY \$R \$LAY	3600 338A 27A0 2298
139 1		^ \$SCR \$LAY \$@ \$LAY \$.LINE \$LAY	3606 25CA 239C 353A
139 2		^ \$(LOOP) \$LAY -14 LAY \$CR \$LAY \$;	360C 205A FFEC 2488 2256
139 3	LAY:HEADER	INDEX	3614 85 49 4E 44 45 DB
139 3	LAY:HEADER	INDEX	361A 35D5 2506
139 4	> \$INDEX	^ \$CR \$LAY \$1+ \$LAY \$SWAP \$LAY	361E 2488 26FE 234A
139 5		^ \$(DO) \$LAY \$CR \$LAY \$R \$LAY	3624 2090 2488 2298
139 6		^ \$3 \$LAY \$.R \$LAY	362A 252C 338A
139 7		^ \$SPACE \$LAY \$0 \$LAY \$R \$LAY	362E 27A0 2514 2298
139 8		^ \$.LINE \$LAY \$?TERMINAL \$LAY \$OBRANCH \$LAY	3634 353A 2472 2042
139 9		^ 4 LAY \$LEAVE \$LAY \$(LOOP) \$LAY	363A 0004 2268 205A
139 10		^ -1A LAY \$;	3640 FFE6 2256

140 0	LAYCODEHEADER	COLD		3644 0 84 43 4F 4C C4
140 0	LAYCODEHEADER	COLD		364A 3614 364E
140 1	> \$COLDSTART	^ \$COLDUSER IMM ^ 0 AR ,W ,MOVE (BOOTLIST)		364E 307C 3696
140 2		^ 0 C ^ \$FORTH 4 + ABSD ,W ,MOVE (TOPNFA SET)		3652 31D0 2F00
140 3		^ 4 0 &C ^ US AR ,W ,MOVE (SET USER PTR REG)		3656 3C68 0004
140 4		^ US AR ^ 1 AR ,W ,MOVE (WORKCOPY OF USER PTR)		365A 324E
140 5		^ 0A IMM ^ 0 DR ,W ,MOVE (MOVE ELEVEN BOOTUPS)		365C 303C 000A
140 6	> \$FILLUSER	^ 0 [+ ^ 1 [+ ,W ,MOVE (ONE AT A TIME)		3660 32D8
140 7		^ ,F, 0 \$FILLUSER *+ ,DECC (UNTIL DONE,)		3662 51C8 FFFC
140 8		^ 1E IMM ^ 1 AR ,W ,ADD (POINT TO BYTE US + 34)		3666 D2FC 001E
140 9		^ D IMM ^ 0 DR ,W ,MOVE (MOVE 14 MORE BOOTUPS)		366A 303C 000D
140 10	> \$FILLMORE	^ 0 [+ ^ 1 [+ ,W ,MOVE (ONE AT A TIME)		366E 32D8
140 11		^ ,F, 0 \$FILLMORE *+ ,DECC (UNTIL DONE,)		3670 51C8 FFFC
140 12		^ 36 US &C ^ 0 DR ,W ,MOVE (GET LIMIT)		3674 302E 0036
140 13		^ 34 US &C ^ 0 AR ,W ,MOVE (GET FIRST)		3678 306E 0034
140 14		^ 0 AR ^ 0 DR ,W ,SUB (CALC BUFF AREA BYTES)		367C 9048
141 0		^ 1 IMM ^ 0 DR ,W ,SUBQ (LOOP PREDECREMENT)		367E 5340
141 1	> \$MTEBUFFS	^ 0 IMM ^ 0 [+ ,B ,MOVE (FILL AREA WITH 00)		3680 10FC 0000
141 2		^ ,F, 0 \$MTEBUFFS *+ ,DECC (UNTIL DONE)		3684 51C8 FFFA
141 3		^ \$GOFORTH *+ ,BRA		3688 6004
141 4	> \$HARMSTART	^ \$COLDUSER 4 + ABSD ^ US AR ,W ,MOVE (SET US)		368A 3C78 369A
141 5	> \$GOFORTH	^ \$ABORT IMM ^ IP AR ,W ,MOVE (SET IP REG)		368E 387C 2F5A
141 6		^ \$RP! ABSD ,JMP (JUMP TO RP! CODE)		3692 4EFB 2246
141 7	> \$COLDUSER	^ (INITIAL TOP FORTH NFA CHANGES AS SYS EXPANDS)		3696 36FC
141 9		^ 007F LAY (BKSPKEY DEPENDS ON KEYBOARD)		3698 007F
141 10		^ 1A00 LAY (USER PAGE CAN BE MOVED)		369A 1A00
141 11		^ 19FE LAY (COMPUTATION STACK CAN BE MOVED)		369C 19FE
141 12		^ 18FE LAY (RETURN STACK CAN BE MOVED)		369E 18FE
141 13		^ 1820 LAY (TIB CAN BE MOVED)		36A0 1820
141 14		^ 001F LAY (WIDTH NOT LIKELY TO BE CHANGED)		36A2 001F
142 0		^ 0001 LAY (WARNING after DISC IS IMPLEMENTED)		36A4 0001
142 1		^ (COLD FENCE IS USUALLY 1ST FREE BYTE)		36A6 370C
142 3		^ (DP IS USUALLY ALSO 1ST FREE BYTE)		36AB 370C
142 5		^ (VOC-LINK SHOULD NOT BE CHANGED)		36AA 2F02
142 7		^ 1000 LAY (FIRST CAN BE MOVED -DISC BUFF STUFF)		36AC 1000
142 8		^ 1820 LAY (LIMIT CAN BE MOVED -DISC BUFF STUFF)		36AE 1820
142 9		^ 1000 LAY (USE CAN BE MOVED - DISC BUFF STUFF)		36B0 1000
142 10		^ 1000 LAY (PREV CAN BE MOVED - DISC BUFF STUFF)		36B2 1000
142 11		^ 4800 LAY (DICTLIMIT CAN BE MOVED)		36B4 4800
142 12		^ 000B LAY (BKSPMIT COULD NEED CHANGE FOR I/O)		36B6 000B
142 13		^ 1C00 LAY (ADDRESS OF EMIT CODE SUBROUTINE)		36B8 1C00
142 14		^ 1D18 LAY (ADDRESS OF KEY CODE SUBROUTINE)		36BA 1D18
143 0		^ 1D26 LAY (ADDRESS OF ?TERMINAL CODE SUBROUTINE)		36BC 1D26
143 1		^ 1D3A LAY (ADDRESS OF CR CODE SUBROUTINE)		36BE 1D3A
143 2		^ 1E00 LAY (ADDRESS OF R/W CODE SUBROUTINE)		36C0 1E00
143 3		^ 0100 LAY (BYTES/BUFFER = B/BUF)		36C2 0100
143 4		^ 0004 LAY (BUFFERS/SCREEN = B/SCR)		36C4 0004
143 5		^ 0040 LAY (#CHAR/LINE = C/L)		36C6 0040
143 6	LAYCODEHEADER	R/W		36C8 B3 52 2F D7
143 6	LAYCODEHEADER	R/W		36CC 3645 36D0
143 7	> \$R/W	^ 48 US &C ^ 0 AR ,W ,MOVE (R/W SUB ADDRESS)		36D0 306E 0048
143 8		^ 0 C ,JSR		36D4 4E90
143 9		NEXT		36D6 3A5C 305D 4ED0
143 10	LAYCONSTANT	ORIGIN > \$ORIGIN \$COLDUSER C - LAY		36DC 0 B6 4F 52 49 47 49 CE
143 10	LAYCONSTANT	ORIGIN > \$ORIGIN \$COLDUSER C - LAY		36E4 36C8 24BA 368A
143 11	LAY:HEADER	+ORIGIN		36EA 87 2B 4F 52 49 47 49 CE
143 11	LAY:HEADER	+ORIGIN		36F2 36DD 2506
143 12	> \$+ORIGIN	^ \$ORIGIN \$LAY \$+ \$LAY \$;		36F6 36E6 22D6 2256
143 13	LAY:HEADER	DR0		36FC B3 44 52 B0
143 13	LAY:HEADER	DR0		3700 36EA 2506
143 14	> \$DR0	^ \$0 \$LAY \$OFFSET \$LAY \$! \$LAY \$;		3704 2514 25D8 23C2 2256

2000		83	4C	49	D4	00	00	20	08	37	1C	3A	5C	30	5D	4E	D0
2010		87	45	58	45	43	55	54	C5	20	00	20	1C	3A	5B	30	5D
2020		4E	D0	00	86	42	52	41	4E	43	C8	20	10	20	2E	30	14
2030		D8	C0	3A	5C	30	5D	4E	D0	87	30	42	52	41	4E	43	C8
2040		20	23	20	44	4A	5B	67	E6	54	4C	3A	5C	30	5D	4E	D0
2050		00	86	28	4C	4F	4F	50	A9	20	38	20	5C	52	57	30	2F
2060		00	02	B0	57	62	06	54	4C	58	4F	60	04	30	14	D8	C0
2070		3A	5C	30	5D	4E	D0	87	28	2E	4C	4F	4F	50	A9	20	51
2080		20	82	30	1B	D1	57	60	D6	00	84	28	44	4F	A9	20	76
2090		20	92	2F	1B	3A	5C	30	5D	4E	D0	85	44	49	47	49	D4
20A0		20	89	20	A4	32	1B	30	13	04	40	00	30	65	1C	0C	40
20B0		00	09	6F	0A	0C	40	00	11	6D	10	04	40	00	07	B0	41
20C0		6C	08	36	80	37	3C	00	01	60	04	36	BC	00	00	3A	5C
20D0		30	5D	4E	D0	00	86	28	46	49	4E	44	A9	20	9A	20	E0
20E0		70	01	7A	07	32	5B	30	53	34	48	12	19	18	01	36	04
20F0		02	43	00	1F	D6	49	52	43	02	43	FF	FE	1C	1A	BD	04
2100		02	04	00	3F	66	1E	14	1A	0E	82	1C	19	BD	02	E1	22
2110		66	12	64	F2	58	43	36	83	02	41	00	FF	37	01	37	3C
2120		00	01	60	0C	34	43	32	52	3C	09	66	BC	36	BC	00	00
2130		3A	5C	30	5D	4E	D0	87	45	4E	43	4C	4F	53	C5	20	D5
2140		21	42	30	1B	30	53	42	81	60	02	52	41	B0	30	10	00
2150		67	F8	37	01	B0	30	10	00	67	1A	0C	30	00	00	10	00
2160		67	04	52	41	60	EE	B2	53	66	06	52	41	37	01	60	08
2170		37	01	60	04	37	01	52	41	37	01	3A	5C	30	5D	4E	D0
2180		85	43	4D	4F	56	C5	21	36	21	8A	20	7C	00	00	00	00
2190		22	48	30	1B	32	5B	30	5B	B2	C8	6E	0A	60	02	12	D8
21A0		51	C8	FF	FC	60	0C	D0	C0	D2	C0	60	02	13	20	51	C8
21B0		FF	FC	3A	5C	30	5D	4E	D0	00	82	55	AA	21	80	21	C0
21C0		30	1B	C0	DB	27	00	3A	5C	30	5D	4E	D0	00	82	55	AF
21D0		21	B9	21	D4	32	1B	20	13	80	C1	48	40	26	80	3A	5C
21E0		30	5D	4E	D0	83	41	4E	C4	21	CD	21	EC	30	1B	C1	53
21F0		3A	5C	30	5D	4E	D0	00	82	4F	D2	21	E4	21	FE	30	1B
2200		81	53	3A	5C	30	5D	4E	D0	83	58	4F	D2	21	F7	22	10
2210		30	1B	B1	53	3A	5C	30	5D	4E	D0	83	53	50	C0	22	08
2220		22	22	30	0B	37	00	3A	5C	30	5D	4E	D0	83	53	50	A1
2230		22	1A	22	34	36	6E	00	06	3A	5C	30	5D	4E	D0	83	52
2240		50	A1	22	2C	22	46	3E	6E	00	08	3A	5C	30	5D	4E	D0
2250		00	82	3B	D3	22	3E	22	58	38	5F	3A	5C	30	5D	4E	D0
2260		85	4C	45	41	56	C5	22	51	22	6A	3F	57	00	02	3A	5C
2270		30	5D	4E	D0	00	82	3E	D2	22	60	22	7C	3F	1B	3A	5C
2280		30	5D	4E	D0	00	82	52	BE	22	75	22	8C	37	1F	3A	5C
2290		30	5D	4E	D0	81	D2	22	85	22	9A	37	17	3A	5C	30	5D
22A0		4E	D0	00	82	30	BD	22	94	22	AA	4A	53	57	EB	00	01
22B0		02	53	00	01	3A	5C	30	5D	4E	D0	00	82	30	BC	22	A3
22C0		22	C2	4A	53	5B	EB	00	01	02	53	00	01	3A	5C	30	5D
22D0		4E	D0	81	AB	22	BB	22	D8	30	1B	D1	53	3A	5C	30	5D
22E0		4E	D0	85	4D	49	4E	55	D3	22	D2	22	EC	44	53	3A	5C
22F0		30	5D	4E	D0	00	82	44	AB	22	E2	22	FC	20	1B	D1	93
2300		3A	5C	30	5D	4E	D0	00	86	44	4D	49	4E	55	D3	22	F5
2310		23	12	44	93	3A	5C	30	5D	4E	D0	00	84	4F	56	45	D2
2320		23	07	23	24	30	2B	00	02	37	00	3A	5C	30	5D	4E	D0
2330		00	84	44	52	4F	D0	23	1B	23	3A	54	4B	3A	5C	30	5D
2340		4E	D0	00	84	53	57	41	D0	23	31	23	4C	30	1B	32	13
2350		36	80	37	01	3A	5C	30	5D	4E	D0	83	44	55	D0	23	43
2360		23	62	30	13	37	00	3A	5C	30	5D	4E	D0	00	82	2B	A1
2370		23	5A	23	74	30	5B	30	1B	D1	50	3A	5C	30	5D	4E	D0
2380		00	86	54	4F	47	47	4C	C5	23	6D	23	8C	30	1B	30	5B
2390		B1	10	3A	5C	30	5D	4E	D0	81	C0	23	81	23	9E	30	53
23A0		36	90	3A	5C	30	5D	4E	D0	00	82	43	C0	23	98	23	B0
23B0		30	5B	17	10	17	3C	00	00	3A	5C	30	5D	4E	D0	81	A1
23C0		23	A9	23	C4	30	5B	10	DB	10	9B	3A	5C	30	5D	4E	D0
23D0		00	84	46	49	4C	CC	23	BE	23	DA	30	1B	32	1B	30	5B
23E0		60	02	10	C0	51	C9	FF	FC	3A	5C	30	5D	4E	D0	00	82
23F0		43	A1	23	D1	23	F6	30	5B	52	4B	10	9B	3A	5C	30	5D

2400		4E	D0	00	82	43	BD	23	EF	25	06	27	5A	20	06	00	FF
2410		21	EA	22	A8	22	56	00	84	53	2D	3E	C4	24	03	24	20
2420		4A	53	6B	06	37	3C	00	00	60	04	37	3C	FF	FF	3A	5C
2430		30	5D	4E	D0	00	84	45	4D	49	D4	24	17	24	3E	30	1E
2440		52	6E	00	1A	30	6E	00	40	4E	90	3A	5C	30	5D	4E	D0
2450		83	4B	45	D9	24	35	24	58	30	6E	00	42	4E	90	37	00
2460		3A	5C	30	5D	4E	D0	89	3F	54	45	52	4D	49	4E	41	CC
2470		24	50	24	74	30	6E	00	44	4E	90	37	00	3A	5C	30	5D
2480		4E	D0	00	82	43	D2	24	66	24	8A	3D	7C	00	00	00	1A
2490		30	6E	00	46	4E	90	3A	5C	30	5D	4E	D0	85	28	56	41
24A0		52	A9	24	83	24	A6	37	0D	3A	5C	30	5D	4E	D0	87	28
24B0		43	4F	4E	53	54	A9	24	9C	24	BA	37	15	3A	5C	30	5D
24C0		4E	D0	00	86	28	55	53	45	52	A9	24	AE	24	CE	30	15
24D0		D0	4E	37	00	3A	5C	30	5D	4E	D0	00	8E	28	55	53	45
24E0		52	43	4F	4E	53	54	41	4E	54	A9	24	C3	24	EE	30	55
24F0		D0	CE	37	10	3A	5C	30	5D	4E	D0	00	86	28	4E	45	53
2500		54	A9	24	DB	25	06	3F	0C	38	4D	3A	5C	30	5D	4E	D0
2510		81	B0	24	FB	24	BA	00	00	81	B1	25	10	24	BA	00	01
2520		81	B2	25	18	24	BA	00	02	81	B3	25	20	24	BA	00	03
2530		00	82	42	CC	25	28	24	BA	00	20	87	42	4B	53	50	4B
2540		45	D9	25	31	24	CE	00	02	00	82	53	B0	25	3A	24	CE
2550		00	06	00	82	52	B0	25	49	24	CE	00	08	83	54	49	C2
2560		25	53	24	CE	00	0A	85	57	49	44	54	C8	25	5C	24	CE
2570		00	0C	87	57	41	52	4E	49	4E	C7	25	66	24	CE	00	0E
2580		85	46	45	4E	43	C5	25	72	24	CE	00	10	00	82	44	D0
2590		25	80	24	CE	00	12	00	88	56	4F	43	2D	4C	49	4E	CE
25A0		25	8D	24	CE	00	14	83	42	4C	CB	25	97	24	CE	00	16
25B0		00	82	49	CE	25	A6	24	CE	00	18	83	4F	55	D4	25	B1
25C0		24	CE	00	1A	83	53	43	D2	25	BA	24	CE	00	1C	00	86
25D0		4F	46	46	53	45	D4	25	C4	24	CE	00	1E	87	43	4F	4E
25E0		54	45	58	D4	25	CF	24	CE	00	20	87	43	55	52	52	45
25F0		4E	D4	25	DC	24	CE	00	22	85	53	54	41	54	C5	25	EA
2600		24	CE	00	24	00	84	42	41	53	C5	25	F8	24	CE	00	26
2610		83	44	50	CC	26	05	24	CE	00	28	83	46	4C	C4	26	10
2620		24	CE	00	2A	83	43	53	D0	26	1A	24	CE	00	2C	00	82
2630		52	A3	26	24	24	CE	00	2E	83	48	4C	C4	26	2F	24	CE
2640		00	30	85	46	49	52	53	D4	26	38	24	EE	00	34	85	4C
2650		49	4D	49	D4	26	42	24	EE	00	36	83	55	53	C5	26	4E
2660		24	CE	00	38	00	84	50	52	45	D6	26	5A	24	CE	00	3A
2670		89	44	49	43	54	4C	49	4D	49	D4	26	65	24	CE	00	3C
2680		00	88	42	4B	53	50	45	4D	49	D4	26	70	24	CE	00	3E
2690		87	45	4D	49	54	53	55	C2	26	81	24	CE	00	40	00	86
26A0		4B	45	59	53	55	C2	26	90	24	CE	00	42	00	88	3F	54
26B0		45	52	4D	53	55	C2	26	9F	24	CE	00	44	85	43	52	53
26C0		55	C2	26	AD	24	CE	00	46	00	86	52	2F	57	53	55	C2
26D0		26	BC	24	CE	00	48	85	42	2F	42	55	C6	26	C9	24	EE
26E0		00	4A	85	42	2F	53	43	D2	26	D6	24	EE	00	4C	83	43
26F0		2F	CC	26	E2	24	EE	00	4E	00	32	31	AB	26	EE	25	06
2700		25	1C	27	D6	22	56	00	82	32	AB	26	F9	25	06	25	24
2710		22	D6	22	56	00	84	48	45	52	C5	27	07	25	06	25	92
2720		23	9C	22	56	85	41	4C	4C	4F	D4	27	15	25	06	25	92
2730		23	72	22	56	81	AC	27	24	25	06	27	1C	23	C2	25	24
2740		27	2C	22	56	00	82	43	AC	27	34	25	06	27	1C	23	F4
2750		25	1C	27	2C	22	56	81	AD	27	45	25	06	22	EA	22	D6
2760		22	56	81	BD	27	56	25	06	27	5A	22	A8	22	56	81	BC
2770		27	62	25	06	27	5A	22	C0	22	56	81	BE	27	6E	25	06
2780		23	4A	27	72	22	56	83	52	4F	D4	27	7A	25	06	22	7A
2790		23	4A	22	8A	23	4A	22	56	85	53	50	41	43	C5	27	86
27A0		25	06	25	36	24	3C	22	56	00	84	2D	44	55	D0	27	98
27B0		25	06	23	60	20	42	00	04	23	60	22	56	00	88	54	52
27C0		41	56	45	52	53	C5	27	A9	25	06	23	4A	23	22	22	D6
27D0		20	06	00	7F	23	22	23	AE	27	72	20	42	FF	F0	23	4A
27E0		23	38	22	56	00	86	4C	41	54	45	53	D4	27	BD	25	06
27F0		25	F4	23	9C	23	9C	22	56	83	4C	46	C1	27	E5	25	06

2800		20	06	00	04	27	5A	22	56	83	43	46	C1	27	F8	25	06
2810		25	24	27	5A	22	56	83	4E	46	C1	28	08	25	06	20	06
2820		00	05	27	5A	20	06	FF	FF	27	C8	22	56	83	50	46	C1
2830		28	16	25	06	25	1C	27	C8	20	06	00	05	22	D6	22	56
2840		00	84	21	43	53	D0	28	2C	25	06	22	20	26	2A	23	C2
2850		22	56	00	86	3F	45	52	52	4F	D2	28	41	25	06	23	4A
2860		20	42	00	08	2C	4E	20	2C	00	04	23	38	22	56	85	3F
2870		43	4F	4D	D0	28	53	25	06	26	00	23	9C	22	A8	20	06
2880		00	11	28	5C	22	56	85	3F	45	58	45	C3	28	6E	25	06
2890		26	00	23	9C	20	06	00	12	28	5C	22	56	00	86	3F	50
28A0		41	49	52	D3	28	86	25	06	27	5A	20	06	00	13	28	5C
28B0		22	56	00	84	3F	43	53	D0	28	9D	25	06	22	20	26	2A
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29D0		25	1C	27	5A	23	AE	25	36	27	5A	20	42	00	08	22	68
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34A0		23	C2	22	98	26	6C	23	C2	22	8A	27	0C	22	56	85	42
34B0		4C	4F	43	CB	34	65	25	06	25	D8	23	9C	22	D6	22	7A
34C0		26	6C	23	9C	23	60	23	9C	22	98	27	5A	23	60	22	D6
34D0		20	42	00	34	34	02	22	A8	20	42	00	14	23	38	22	98
34E0		34	6E	23	60	22	98	25	1C	36	CE	25	24	27	5A	23	60
34F0		23	9C	22	98	27	5A	23	60	22	D6	22	A8	20	42	FF	D6
3500		23	60	26	6C	23	C2	22	8A	23	38	27	0C	22	56	00	86
3510		28	4C	49	4E	45	A9	34	AE	25	06	22	7A	26	F4	26	DE
3520		32	70	22	8A	26	EA	32	30	22	D6	34	B6	22	D6	26	F4
3530		22	56	85	2E	4C	49	4E	C5	35	0F	25	06	35	18	29	C2
3540		29	94	22	56	87	4D	45	53	53	41	47	C5	35	32	25	06
3550		25	7C	23	9C	20	42	00	1C	27	B0	20	42	00	12	20	06
3560		00	04	25	D8	23	9C	26	EA	32	50	27	5A	35	3A	20	2C
3570		00	0C	29	F6	05	4D	53	47	20	23	33	9A	22	56	00	84
3580		4C	4F	41	C4	35	44	25	06	25	AC	23	9C	22	7A	25	B6
3590		23	9C	22	7A	25	14	25	B6	23	C2	26	EA	32	30	25	AC
35A0		23	C2	2E	78	22	8A	25	B6	23	C2	22	8A	25	AC	23	C2
35B0		22	56	C3	2D	2D	BE	35	7F	25	06	28	D8	25	14	25	B6
35C0		23	C2	26	EA	25	AC	23	9C	23	22	32	60	27	5A	25	AC
35D0		23	72	22	56	00	84	4C	49	53	D4	35	B2	25	06	29	54
35E0		24	88	23	60	25	CA	23	C2	29	F6	05	53	43	52	20	23
35F0		33	9A	20	06	00	10	25	14	20	90	24	88	22	98	25	2C
3600		33	8A	27	A0	22	98	25	CA	23	9C	35	3A	20	5A	FF	EC
3610		24	88	22	56	85	49	4E	44	45	D8	35	D5	25	06	24	88
3620		26	FE	23	4A	20	90	24	88	22	98	25	2C	33	8A	27	A0
3630		25	14	22	98	35	3A	24	72	20	42	00	04	22	68	20	5A
3640		FF	E6	22	56	00	84	43	4F	4C	C4	36	14	36	4E	30	7C
3650		36	96	31	D0	2F	00	3C	68	00	04	32	4E	30	3C	00	0A
3660		32	D8	51	C8	FF	FC	D2	FC	00	1E	30	3C	00	0D	32	D8
3670		51	C8	FF	FC	30	2E	00	36	30	6E	00	34	90	48	53	40
3680		10	FC	00	00	51	C8	FF	FA	60	04	3C	78	36	9A	38	7C
3690		2F	5A	4E	F8	22	46	36	FC	00	7F	1A	00	19	FE	1B	FE
36A0		18	20	00	1F	00	01	37	0C	37	0C	2F	02	10	00	18	20
36B0		10	00	10	00	48	00	00	08	1C	00	1D	18	1D	26	1D	3A
36C0		1E	00	01	00	00	04	00	40	83	52	2F	D7	36	45	36	D0
36D0		30	6E	00	48	4E	90	3A	5C	30	5D	4E	D0	00	86	4F	52
36E0		49	47	49	CE	36	C8	24	BA	36	8A	87	2B	4F	52	49	47
36F0		49	CE	36	DD	25	06	36	E6	22	D6	22	56	83	44	52	B0
3700		36	EA	25	06	25	14	25	D8	23	C2	22	56	00	00	00	00
3710		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3720		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3730		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3740		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3750		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00



