

```
01 LBL "COMPILE" ;Alpha Variable Compiler
02 "START REG.?"
03 PROMPT
04 STO 00
05 LBL R
06 AON
07 "VAR. NAME?"
08 STOP
09 AOFF
10 FC?C 23
11 GTO 07
12 ASTO 01
13 "LENGTH?"
14 PROMPT
15 -1
16 X<>Y
17 ST+ Y
18 RCL 00
19 STO T
20 +
21 STO 02
22 STO 03
23 1
24 -
25 E3
26 /
27 *
28 X#0?
29 X<> L
30 +
31 STO 00
32 XEQ "VAR" ;Variable Name (Line 42)
33 GTO R
34 LBL 07
35 "SIZE >="
36 RCL d
37 FIX 0
38 ARCL 00
39 STO d
40 PROMPT
41 LBL "Q"
42 LBL "VAR" ;Variable Name
43 CF 01
44 RCL 00
45 FRC
46 X#0?
47 SF 01
48 RCL 01
49 STO M
50 CLX
51 78
52 SF 25
53 LBL 00
54 1
55 -
56 "&00" ;Append 1 null
57 RCL M
58 X<> 00
59 X<> 00
60 +
61 FS? 25
62 GTO 00
63 CLX
64 E4
65 /
66 1
67 +
```

```
68 X<> d
69 SF 00
70 SF 01
71 CF 07
72 SF 16
73 X<> d
74 X<> M
75 >"ABCD"
76 STO M
77 >"ABC"
78 X<> N
79 STO 01
80 FS? 01
81 STO 02
82 >"DEF"
83 RCL 00
84 FS? 01
85 GTO 01
86 INT
87 X#0?
88 GTO 01
89 RCL N
90 STO M
91 >"\10\00\00" ;Append 10 hex and 2 nulls
92 GTO 02
93 LBL 01
94 E3
95 /
96 SF 02
97 XEQ 03
98 CF 02
99 RCL N
100 STO M
101 FC? 01
102 GTO 02
103 >"\1A" ;Append 1A hex
104 X<> M
105 STO 01
106 RDN
107 XEQ 03
108 XEQ 03
109 RCL N
110 STO M
111 LBL 02
112 >"\85" ;Append 85 hex
113 RCL M
114 STO 00
115 2
116 FS?C 01
117 3
118 GTO "CU" ;Curtain Update (Line 148)
119 LBL 03
120 3
121 STO 00
122 RDN
123 LBL 04
124 10
125 *
126 ENTER
127 STO L
128 X=0?
129 GTO 06
130 FRC
131 -
132 FC? 02
133 GTO 05
134 X=0?
135 GTO 06
136 CF 02
137 LBL 05
```

```
138 X<> d
139 SF 03
140 X<> d
141 LBL 06
142 STO M
143 >"A"
144 X<> L
145 DSE 00
146 GTO 04
147 RTN
148 LBL "CU" ;Curtain Update
149 STO L
150 CLX
151 RCL c
152 STO M
153 >"\00\00\00\00" ;Append 4 nulls
154 X<> M
155 X<> d
156 STO O
157 CLX
158 11
159 STO M
160 LBL 11
161 CLX
162 LASTX
163 INT
164 X=0?
165 GTO 14
166 2
167 /
168 RCL M
169 X<>Y
170 FRC
171 X=0?
172 GTO 13
173 LBL 12
174 FC?C IND Y
175 SF IND Y
176 FC? IND Y
177 CHS
178 X>0?
179 GTO 13
180 FC? IND Y
181 CHS
182 DSE Y
183 GTO 12
184 LBL 13
185 RDN
186 DSE M
187 GTO 11
188 LBL 14
189 X<> O
190 X<> d
191 STO M
192 >"ABC"
193 X<> N
194 STO c
195 RDN
196 END
```

018EC000F800434F4D50494C45FB5354415254205245472E3F  
8E30CF7A8CFA5641522E204E414D453F848BAB17B8009A01F7  
4C454E4754483F8E1C1171927220917040323311411B134342  
63CE7440301EF3564152D0007A08F753495A45203E3D907E9C  
009B00917E8EC000F20051C000F400564152A901206963A801  
219175771718A819011141F27F009075CE00CE0040AC19B100  
771B14431140CE7EA800A801A907A810CE7ECE75F57F414243  
449175F47F414243CE7631AC0132F47F44454620AC01B20068  
63B20090769175F47F100000B300021B1343A802E00003A902  
90769175AD01B300F27F1ACE753175E00003E0000390769175  
03F27F8590753012AA01131DF2435504133075051110428391  
7467B7006941AD02B60067B700A90206CE7EA803CE7E079175  
F27F41CE749700B50085C000F3004355917477907D9175F57F  
00000000CE75CE7E917777111191750C77766867BF00124390  
75716967BE000DABF2A8F2ADF25464BE00ADF2549772BD000E  
759775BC000FCE77CE7E9175F47F414243CE76917D75C0000D  
6A

398 BYTES

# HP-41C Alpha Var. Compiler by Botkin & Jarett PPC V7 N6 P42 Jul/Aug 1980

Program Registers Needed: 57

Row 1 (1 - 2)



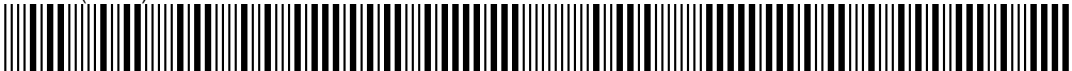
Row 2 (2 - 5)



Row 3 (5 - 7)



Row 4 (8 - 13)



Row 5 (13 - 20)



Row 6 (21 - 31)



Row 7 (32 - 35)



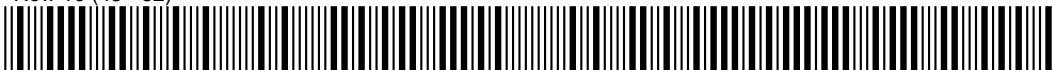
Row 8 (35 - 40)



Row 9 (41 - 43)



Row 10 (43 - 52)



Row 11 (52 - 59)



Row 12 (60 - 68)



Row 13 (69 - 75)



Row 14 (75 - 78)



Row 15 (78 - 84)



Row 16 (85 - 91)



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Row 17 (91 - 97)



Row 18 (98 - 103)



Row 19 (104 - 110)



Row 20 (110 - 118)



Row 21 (118 - 127)



Row 22 (127 - 135)



Row 23 (136 - 143)



Row 24 (143 - 148)



Row 25 (148 - 153)



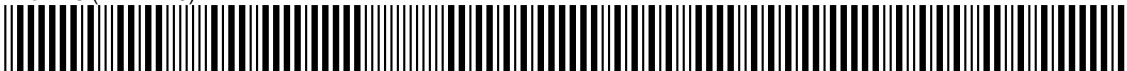
Row 26 (153 - 159)



Row 27 (160 - 170)



Row 28 (171 - 179)



Row 29 (179 - 187)



Row 30 (187 - 192)



Row 31 (193 - 196)

