

HP-41C Routine Listing of 8K PPC Custom ROM IF
PPC Calculator Journal V8 N2 P2/5 Mar-Apr 1981

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01 LBL "IF"      ;Invert Flag - XROM 10,49
02 ABS
03 24
04 +
05 STO M
06 8
07 ST/ M
08 MOD
09 RCL d
10 X<> M
11 INT
12 SCI IND X
13 ARCL X
14 X<>Y
15 X<> O
16 X<> N
17 X<> d
18 FC?C IND O
19 SF IND O
20 X<> d
21 STO M
22 RDN
23 12
24 -
25 SCI IND X
26 ARCL X
27 X<> O
28 STO d
29 RDN
30 CLA
31 RTN
32 RTN
33 LBL "CB"      ;Count Bytes - XROM 10,50
34 X<>Y
35 XROM 10,52 ;PD (Program Pointer to Decimal)
36 X<>Y
37 XROM 10,52 ;PD (Program Pointer to Decimal)
38 -
39 RTN
40 LBL "RT"      ;Return Address to Decimal - XROM 10,51
41 STO M
42 >"*****"    ;Append 5 asterisks
43 X<> N
44 XROM 10,55 ;2D (Decode 2 Bytes to Decimal)
45 2
46 /
47 INT
48 LASTX
49 FRC
50 512
51 GTO 14
52 LBL "PD"      ;Program Pointer to Decimal - XROM 10,52
53 XROM 10,55 ;2D (Decode 2 Bytes to Decimal)
54 16
55 XROM 10,54 ;QR (Quotient Remainder)
56 LASTX
57 X^2
58 LBL 14
59 *
60 RCL M
61 +
62 7
63 *
64 +
65 CLA
66 RTN
67 LBL "DP"      ;Decimal to Program Pointer - XROM 10,53
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68 7
69 XROM 10,54 ;QR (Quotient Remainder)
70 X<>Y
71 16
72 ST* Z
73 X^2
74 XROM 10,54 ;QR (Quotient Remainder)
75 X<> Z
76 +
77 CLA
78 XROM 10,11 ;DC (Decimal to Character)
79 XROM 10,11 ;DC (Decimal to Character)
80 RCL M
81 RTN
82 LBL "QR" ;Quotient to Remainder - XROM 10,54
83 X<>Y
84 STO O
85 X<>Y
86 MOD
87 ST- O
88 LASTX
89 ST/ O
90 CLX
91 X<> O
92 X<>Y
93 RTN
94 LBL "2D" ;Decode 2 Bytes to Decimal - XROM 10,55
95 "*" ;1 asterisk
96 X<> M
97 X<> N
98 ASHF
99 >"\00\07\00\60\00\00" ;Append 000700600000 hex
100 X<> M
101 X<> N
102 X<> M
103 >"\00\00\05" ;Append 2 nulls, 05 hex
104 RCL M
105 INT
106 +
107 RCL N
108 *
109 ST+ M
110 X<> N
111 RCL O
112 INT
113 HMS
114 *
115 RCL O
116 +
117 E1
118 ST* M
119 *
120 X<> M
121 RTN
122 LBL "SX" ;Store Y in Absolute Address X - XROM 10,56
123 XEQ 14
124 X<>Y
125 ENTER
126 X<> IND L
127 RDN
128 GTO 13
129 LBL "RX" ;Recall from Absolute Address in X - XROM 10,57
130 XEQ 14
131 RCL IND L
132 LBL 13
133 X<>Y
134 X<> c
135 RDN
136 RTN
137 LBL 14

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138 16
139 -
140 SIGN
141 RDN
142 LBL "OM" ;Open Memory - XROM 10,58
143 XEQ 14
144 "\1F\F0\01\69\01" ;1FF0016901 hex
145 X<> M
146 STO N
147 >"*" ;Append 2 asterisks
148 X<> N
149 CLA
150 X<> c
151 RTN
152 LBL "PA" ;Program Pointer Advance - XROM 10,59
153 X<>Y
154 XROM 10,52 ;PD (Program Pointer to Decimal)
155 X<>Y
156 -
157 XROM 10,53 ;DP (Decimal to Program Pointer)
158 LBL "GE" ;Go to .END. - XROM 10,60
159 SF 25
160 RCL b
161 CLA
162 FC?C 25
163 RTN
164 STO N
165 RDN
166 XEQ 14
167 X<> d
168 SF 05
169 SF 06
170 X<> d
171 STO M
172 CLX
173 X<> N
174 >"*" ;Append 2 asterisks
175 STO M
176 >"*" ;Append 2 asterisks
177 X<> N
178 CLA
179 X<> M
180 RDN
181 LBL "Ab" ;Alpha Store b - XROM 10,61
182 ASTO b
183 LBL 14
184 RCL c
185 STO M
186 >"\00\00\00\00\00" ;Append 5 nulls
187 X<> M
188 X<> d
189 CF 00
190 CF 01
191 CF 02
192 CF 03
193 X<> d
194 RTN
195 LBL "E?" ;.END. Finder - XROM 10,62
196 RCL c
197 XROM 10,55 ;2D (Decode 2 Bytes to Decimal)
198 16
199 MOD
200 LASTX
201 X^2
202 *
203 RCL M
204 +
205 CLA
206 END

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01A3C600F30049466112144091751895754B907ECE75689DF3
9B7371CE77CE76CE7EABF7A8F7CE7E9175751112419DF39B73
CE77917E75878585C008F300434271A2B471A2B44185C002F3
0052549175F67F2A2A2A2ACE76A2B71243687669151112BF
00C204F3005044A2B71116A2B676510F429075401742408785
C603F300445017A2B6711116947151A2B6CE714087A28BA28B
907585C004F3005152719177714B937776957777CE777185C0
03F3003244F12ACE75CE7688F77F000700600000CE75CE76CE
75F47F000005907568409076429275CE769077686C42907740
1B11947542CE7585C608F3005358E0000E7183CEF475BE00C4
02F3005258E0000E90F40E71CE7D75850F1116417A75C403F3
004F4DE0000EF51FF0016901CE759176F37F2A2ACE7687CE7D
85C204F300504171A2B47141A2B5CC01F3004745A819907C87
AB1985917675E0000ECE7EA805A806CE7E917577CE76F37F2A
2A9175F37F2A2ACE7687CE7575C007F30041629A7C0F907D91
75F67F0000000000CE75CE7EA900A901A902A903CE7E85C005
F300453F907DA2B711164B76514290754087CC020978

419 BYTES

Program Registers Needed: 60

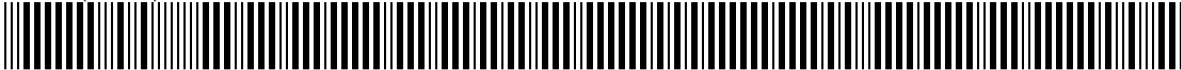
Row 1 (1 - 6)



Row 2 (7 - 14)



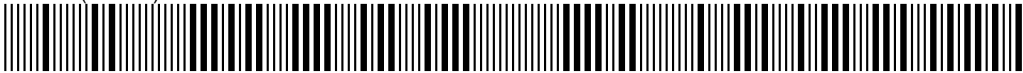
Row 3 (15 - 21)



Row 4 (21 - 28)



Row 5 (29 - 35)



Row 6 (36 - 41)



Row 7 (42 - 46)



Row 8 (47 - 52)



Row 9 (52 - 60)



Row 10 (61 - 68)



Row 11 (69 - 76)



Row 12 (77 - 82)



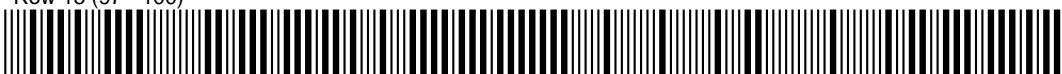
Row 13 (82 - 91)



Row 14 (91 - 96)



Row 15 (97 - 100)



Row 16 (101 - 106)



Row 17 (107 - 115)



Row 18 (115 - 122)



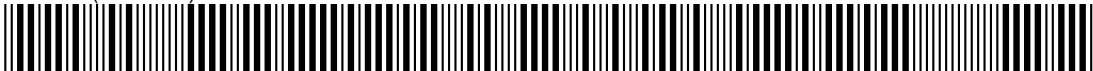
Row 19 (122 - 128)



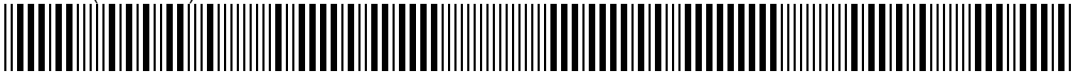
Row 20 (129 - 133)



Row 21 (134 - 142)



Row 22 (142 - 145)



Row 23 (145 - 151)



Row 24 (152 - 157)



Row 25 (158 - 162)



Row 26 (163 - 169)



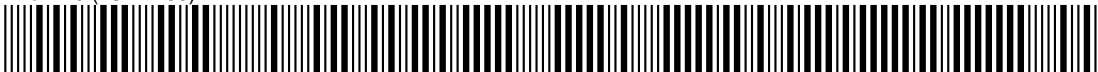
Row 27 (170 - 175)



Row 28 (176 - 181)



Row 29 (181 - 186)



Row 30 (186 - 191)



Row 31 (191 - 196)



Row 32 (196 - 205)



Row 33 (206)

