

HP-41C Routine Listing of 8K PPC Custom ROM CA
PPC Calculator Journal V8 N2 P4/5 Mar-Apr 1981

```
01 LBL "CA"      ;Complex Arithmetic - XROM 20,23
02 GTO IND 06
03 LBL A         ;Complex Addition
04 LBL 01
05 XEQ 16
06 LBL 00
07 XEQ 13
08 ST+ Z
09 X<> T
10 +
11 X<>Y
12 GTO 10
13 LBL B         ;Complex Subtraction
14 LBL 02
15 XEQ 16
16 X<>Y
17 CHS
18 X<>Y
19 CHS
20 GTO 00
21 LBL C         ;Complex Multiplication
22 LBL 03
23 XEQ 16
24 LBL 17
25 XEQ 13
26 STO M
27 X<> T
28 ST* M
29 X<>Y
30 *
31 X<>Y
32 LASTX
33 X<>Y
34 ST* T
35 *
36 RCL M
37 +
38 R^
39 RCL Z
40 -
41 GTO 10
42 LBL D         ;Complex Division
43 LBL 04
44 XEQ 16
45 STO Z
46 X^2
47 RCL Y
48 X^2
49 +
50 ST/ Z
51 /
52 CHS
53 X<>Y
54 GTO 17
55 LBL E         ;Complex LN(Z)
56 LBL 05
57 XEQ 16
58 R-P
59 LN
60 GTO 10
61 LBL 06        ;Initialize Complex Stack
62 9.009
63 STO 09
64 RTN
65 LBL 07
66 2
67 RCL Z
```

```

68 ST+ X
69 E^X-1
70 +
71 LASTX
72 R^
73 CHS
74 E^X
75 ST* Z
76 *
77 2
78 ST/ Z
79 /
80 RTN
81 LBL H      ;Complex SIN(Z)
82 LBL 08
83 XEQ 16
84 XEQ 07
85 R^
86 COS
87 *
88 X<>Y
89 R^
90 SIN
91 *
92 GTO 10
93 LBL I      ;Complex COS(Z)
94 LBL 09
95 XEQ 16
96 XEQ 07
97 R^
98 SIN
99 *
100 CHS
101 X<>Y
102 R^
103 COS
104 *
105 GTO 10
106 LBL a      ;Complex Xc<>Yc
107 LBL 11
108 XEQ 13
109 XEQ 13
110 R^
111 R^
112 XEQ 10
113 R^
114 R^
115 GTO 10
116 LBL b      ;Complex Yc^Xc
117 LBL 12
118 XEQ 11
119 XEQ 05
120 XEQ 03
121 LBL e      ;Complex e^Z
122 LBL 15
123 XEQ 16
124 E^X
125 P-R
126 GTO 10
127 LBL 16
128 SF 10
129 LBL c      ;Complex POP
130 LBL 13
131 RCL IND 09
132 FS? 10
133 STO 08
134 DSE 09
135 RCL IND 09
136 FS?C 10
137 STO 07

```

```

138 X<>Y
139 DSE 09
140 RTN
141 ISG 09
142 "" ;F0=null string (NOP)
143 ISG 09
144 "" ;F0=null string (NOP)
145 RTN
146 LBL d ;Complex LAST Z
147 LBL 14
148 RCL 07
149 RCL 08
150 LBL J ;Complex PUSH
151 LBL 10
152 X<>Y
153 ISG 09
154 "" ;F0=null string (NOP)
155 STO IND 09
156 X<>Y
157 ISG 09
158 "" ;F0=null string (NOP)
159 STO IND 09
160 END

```

```

0108C600F3004341AE06CF6602E0001001E0000D9271CE7040
71BB00CF6703E0001071547154B100CF6804E00010CF11E000
0D9175CE709475714271767194704290754074907141BB00CF
6905E00010917151907251409571435471D00011CF6A06E000
104F50BB0007191A1010193985081290719273584076745455
9471421295714385CF6D09E00010E00007745A4271745942BB
00CF6E0AE00010E000077459425471745A42BB00CF7B0CE000
0DE0000D7474E0000A7474BB00CF7C0DE0000BE00005E00003
CF7FCF0FE00010554EBB00CF10A80ACF7D0E9089AC0A389709
9089AA0A37719709859609F09609F085CF7E0F2728CF6F0B71
9609F09189719609F091890000C4252DF5

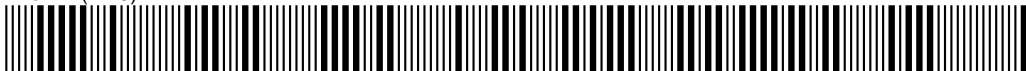
```

264 BYTES

HP-41C PPC ROM CA Group PPC V8 N2 Page 4/5 Mar-Apr 1981

Program Registers Needed: 38

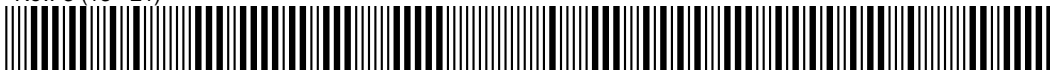
Row 1 (1 - 5)



Row 2 (5 - 12)



Row 3 (13 - 21)



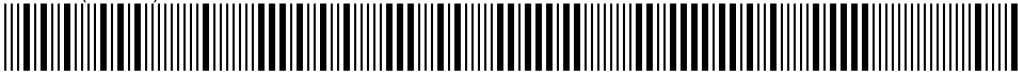
Row 4 (21 - 27)



Row 5 (27 - 36)



Row 6 (37 - 44)



Row 7 (45 - 54)



Row 8 (54 - 61)



Row 9 (62 - 68)



Row 10 (69 - 79)



Row 11 (80 - 87)



Row 12 (88 - 96)



Row 13 (96 - 106)



Row 14 (106 - 112)



Row 15 (113 - 119)



Row 16 (120 - 126)



Row 17 (126 - 133)



Row 18 (134 - 141)



Row 19 (142 - 151)



Row 20 (152 - 159)



Row 21 (160)

