

HP-41C Complex Numbers Program by Carter P. Buck
PPC Calculator Journal V9 No 7 Pg 9 Oct-Nov 1982
Including corrections NOP V10N1P4 by Per Mildner

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01 LBL "K+"      ;Complex Addition
02 LBL A
03 XEQ 15
04 LBL 01
05 XEQ 17
06 ST+ Z
07 RDN
08 ST+ Z
09 GTO 14
10 LBL "K-"      ;Complex Subtraction
11 LBL B
12 XEQ 15
13 LBL 02
14 XEQ 17
15 ST- Z
16 RDN
17 ST- Z
18 LBL 14
19 RDN
20 GTO 18
21 LBL "Ka"      ;Complex Product over Sum
22 LBL a
23 CF 09
24 GTO 14
25 LBL "Kb"      ;Complex Product over Difference
26 LBL b
27 SF 09
28 LBL 14
29 XEQ 15
30 XEQ 14
31 XEQ 14
32 FC? 09
33 XEQ 01
34 FS?C 09
35 XEQ 02
36 XEQ 14
37 LBL 14
38 R^
39 R^
40 GTO 05
41 LBL "K*"      ;Complex Multiplication
42 LBL C
43 XEQ 15
44 LBL 03
45 XEQ 19
46 ST* Z
47 RDN
48 ST+ Z
49 GTO 14
50 LBL "K/"      ;Complex Division
51 LBL D
52 XEQ 15
53 LBL 04
54 XEQ 19
55 ST/ Z
56 RDN
57 ST- Z
58 LBL 14
59 RDN
60 FS? 04
61 RTN
62 GTO 20
63 LBL "+-"      ;Complex Sum and Difference
64 LBL e
65 SF 09
66 XEQ 15
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67 XEQ 17
68 XEQ 14
69 LBL 14
70 R^
71 STO L
72 X<> Z
73 ST- Z
74 ST+ L
75 X<> L
76 FS?C 09
77 RTN
78 GTO 18
79 LBL "/K" ;Complex Inverse
80 LBL E
81 XEQ 16
82 LBL 05
83 FC? 04
84 R-P
85 1/X
86 X<>Y
87 CHS
88 X<>Y
89 FC? 04
90 P-R
91 RTN
92 LBL "Cc" ;Complex Square Root
93 LBL c
94 XEQ 16
95 FC? 04
96 R-P
97 X<>Y
98 SIGN
99 RDN
100 2
101 ST/ L
102 X<> L
103 X<>Y
104 SQRT
105 GTO 14
106 LBL "cC" ;Complex Square
107 LBL d
108 XEQ 16
109 FC? 04
110 R-P
111 X^2
112 X<>Y
113 ST+ X
114 X<>Y
115 GTO 14
116 LBL "KS" ;Complex Parallel to Series
117 LBL I
118 XEQ 16
119 FS? 04
120 P-R
121 X<>Y
122 1/X
123 X<>Y
124 1/X
125 R-P
126 1/X
127 LBL 14
128 FC? 04
129 P-R
130 RTN
131 LBL "KP" ;Complex Series to Parallel
132 LBL J
133 XEQ 16
134 FC? 04
135 R-P
136 1/X

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137 P-R
138 X<>Y
139 1/X
140 X<>Y
141 1/X
142 FS? 04
143 R-P
144 RTN
145 LBL 15
146 SF 10
147 GTO 14
148 LBL 16
149 CF 10
150 LBL 14
151 FC? 03
152 CF 10
153 FC? 03
154 RTN
155 FS? 04
156 GTO 14
157 FS?C 10
158 XEQ 13
159 LBL 13
160 "J=?"
161 PROMPT
162 "I=?"
163 PROMPT
164 CLA
165 RTN
166 LBL 14
167 FS?C 10
168 XEQ 14
169 LBL 14
170 "\0D=?" ;0D=Angle Sign
171 PROMPT
172 "R=?"
173 PROMPT
174 CLA
175 RTN
176 LBL 17
177 FC? 04
178 RTN
179 LBL "-R" ;Complex Stack to Rectangular
180 LBL 20
181 R^
182 R^
183 P-R
184 R^
185 R^
186 P-R
187 RTN
188 LBL 18
189 FC? 04
190 RTN
191 GTO 14
192 LBL 19
193 FS? 04
194 RTN
195 LBL "-P" ;Complex Stack to Polar
196 LBL 14
197 R^
198 R^
199 R-P
200 R^
201 R^
202 R-P
203 END

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019AC000F3004B2BCF66E0000F02E000119271759271BF00C0
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71927371BF00C000F3004B53CF6EE00010AC044E716071604F
600FAD044E85C000F3004B50CF6FE00010AD044F604E716071
60AC044F85CF0FA80ABF00CF10A90A0FAD03A90AAD0385AC04
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0E0FF30D3D3F8EF3523D3F8E8785CF11AD0485C000F3002D52
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410 BYTES

HP-41C Complex Numbers by Carter P. Buck PPC V9 N7 P9 Oct-Nov 1982

Program Registers Needed: 59

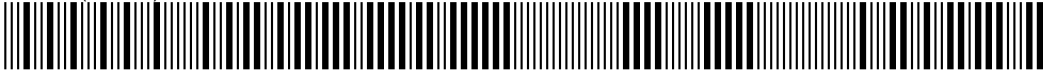
Row 1 (1 - 5)



Row 2 (5 - 10)



Row 3 (10 - 15)



Row 4 (16 - 21)



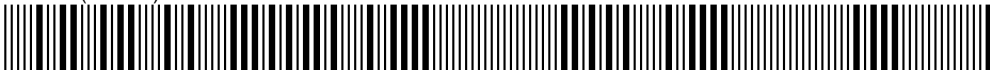
Row 5 (21 - 25)



Row 6 (26 - 31)



Row 7 (31 - 36)



Row 8 (36 - 42)



Row 9 (42 - 48)



Row 10 (49 - 52)



Row 11 (53 - 60)



Row 12 (61 - 65)



Row 13 (65 - 71)



Row 14 (71 - 78)



Row 15 (78 - 81)



Row 16 (82 - 92)



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Row 17 (92 - 96)



Row 18 (97 - 106)



Row 19 (106 - 110)



Row 20 (111 - 116)



Row 21 (117 - 125)



Row 22 (126 - 132)



Row 23 (132 - 141)



Row 24 (142 - 149)



Row 25 (149 - 156)



Row 26 (157 - 162)



Row 27 (162 - 170)



Row 28 (170 - 176)



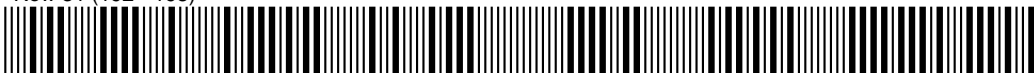
Row 29 (177 - 182)



Row 30 (183 - 192)



Row 31 (192 - 198)



Row 32 (199 - 203)

