

HP-41C Routine Listing of 8K PPC Custom ROM LB
PPC Calculator Journal V8 N2 P1/5 Mar-Apr 1981

```
01 LBL 00
02 STOP
03 GTO "++" ;Buffer to be added by user
04 LBL "LB" ;Load Bytes - XROM 10,22
05 FS? 50
06 GTO 00
07 "DEC/HEX INPT"
08 XROM 10,07 ;VA (View Alpha)
09 CF 08
10 GTO 13
11 LBL "L-" ;Load Half of LB - XROM 10,23
12 CLA
13 XROM 10,07 ;VA (View Alpha)
14 CF 08
15 RCL a
16 STO M
17 RCL b
18 FS? 08
19 GTO 14
20 STO N
21 SF 08
22 LBL 13
23 12
24 XROM 10,30 ;VS (Verify Size)
25 FC?C 25
26 PROMPT
27 CLST
28 STO 06
29 SIGN
30 ENTER
31 ENTER
32 R^
33 GTO "++" ;Buffer to be added by user
34 LBL 00
35 RCL b
36 FC? 08
37 GTO 14
38 CLD
39 X<> M
40 STO a
41 X<> N
42 X<> b
43 LBL 14
44 XROM 10,51 ;RT (Return Address to Decimal)
45 117
46 X<>Y
47 -
48 7
49 XROM 10,54 ;QR (Quotient Remainder)
50 ST- Z
51 X<>Y
52 CHS
53 STO 09
54 X<> Z
55 LASTX
56 XROM 10,54 ;QR (Quotient Remainder)
57 1.001
58 ST* 09
59 ST+ Y
60 FRC
61 ST* T
62 X<>Y
63 R^
64 +
65 *
66 X<>Y
67 X<=0?
```

```
68 GTO 10
69 ST+ 09
70 7
71 *
72 +
73 STO 07
74 XROM 10,58 ;OM (Open Memory)
75 X<> c
76 STO 10
77 CLST
78 LBL 06
79 STO 11
80 CLA
81 LBL 07
82 ASTO 08
83 X<>Y
84 ISG 06
85 LBL 15
86 SF 09
87 FS? 08
88 RTN
89 CF 22
90 CF 23
91 FIX 0
92 CF 29
93 "#"
94 ARCL 06
95 >" OF "
96 ARCL 07
97 >"?"
98 XROM 10,07 ;VA (View Alpha)
99 TONE 87
100 STOP
101 FS? 48
102 GTO 14
103 FC? 22
104 GTO 19
105 GTO 08
106 LBL 14
107 FC? 23
108 GTO 19
109 XROM 10,25 ;XD (Hex to Decimal)
110 LBL 08
111 X<0?
112 GTO 03
113 ENTER
114 CLA
115 ARCL 08
116 XROM 10,11 ;DC (Decimal to Character)
117 RCL 06
118 X<=0?
119 GTO 10
120 7
121 MOD
122 X#0?
123 GTO 07
124 X<>Y
125 RCL 09
126 RCL 10
127 X<> c
128 RCL M
129 STO IND Z
130 X<>Y
131 X<> c
132 R^
133 RCL 08
134 DSE 09
135 GTO 06
136 ISG 09
137 LBL 20
```

```
138 CF 09
139 CLX
140 X<>Y
141 RCL 07
142 FRC
143 E3
144 *
145 AOFF
146 FIX 0
147 "SST, DEL 00"
148 ARCL X
149 FIX 3
150 XROM 10,07 ;VA (View Alpha)
151 BEEP
152 GTO 00
153 LBL 01
154 RCL 06
155 X>0?
156 GTO 09
157 LBL 10
158 "SST, MORE +'S"
159 XROM 10,07 ;VA (View Alpha)
160 TONE 83
161 GTO 00
162 LBL 03
163 "*CORRECTION*"
164 XROM 10,07 ;VA (View Alpha)
165 TONE 6
166 FC? 09
167 GTO 01
168 DSE 06
169 GTO 14
170 ISG 06
171 GTO 10
172 LBL 14
173 RCL 06
174 7
175 MOD
176 X=0?
177 ISG 09
178 GTO 14
179 RCL 11
180 X=Y?
181 GTO 13
182 STO 08
183 RDN
184 STO 11
185 GTO 09
186 LBL 13
187 TONE 54
188 6
189 ST- 06
190 R^
191 GTO 15
192 LBL 14
193 CLA
194 ARCL 08
195 ARCL 10
196 CLX
197 X<> N
198 STO M
199 ASTO 08
200 LBL 09
201 RDN
202 GTO 15
203 LBL "-B" ;Store Part of LB - XROM 10,24
204 FC? 08
205 GTO 15
206 FS? 09
207 GTO 08
```

```

208 LBL 19
209 RCL 06
210 X<=0?
211 GTO 10
212 CHS
213 ISG X
214 7
215 MOD
216 X=0?
217 GTO 14
218 CLA
219 ARCL 08
220 LBL 11
221 >"\00"      ;Append 1 null
222 DSE X
223 GTO 11
224 X<> M
225 LBL 14
226 RCL 09
227 X<>Y
228 RCL 10
229 X<> c
230 X<>Y
231 LBL 12
232 STO IND Z
233 CLX
234 DSE Z
235 GTO 12
236 RDN
237 X<> c
238 RDN
239 GTO 20
240 LBL "XD"      ;Hex to Decimal - XROM 10,25
241 >"\00\08"    ;Append 1 null, 08 hex
242 RCL M
243 E2
244 XROM 10,54 ;QR (Quotient Remainder)
245 29
246 ST- Z
247 -
248 .9
249 ST* Z
250 *
251 INT
252 X<>Y
253 INT
254 16
255 *
256 +
257 END

```

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```
01EB01841DF22B2BC401F3004C42AC32B100FC4445432F4845
5820494E5054A287A908BE00C204F3004C2D87A287A908907B
9175907CAC08BF009176A8080E1112A29EAB198E73367A8383
741DF22B2B01907CAD08BF007FCE75917BCE76CE7C0FA2B311
1117714117A2B69371715439CE7176A2B6111A101011940992
7269947071744042717BD0000A920917424037A2BACE7D3A73
073B87089A08719606CF0FA809AC0885A916A9179C00A91DF1
239B06F57F204F46209B07F27F3FA2879F5784AC30BF00AD16
D00013B9000FAD17D00013A2990966B40083879B08A28B267B
BB00174B63B80071292ACE7D907591F171CE7D74289709B700
9609CF14A909777127691B13428B9C00FB5353542C2044454C
2030309B739C03A28786D00000022664BA000BFD5353542C20
4D4F5245202B2753A2879F53D0000004FC2A434F5252454354
494F4E2AA2879F06AD09B2009706BF009606BB000F26174B67
9609BF002B78BE0038753BBA000E9F3616930674D0000F0F87
9B089B0A77CE7691759A080A75D0000FC832F3002D42AD08D0
000FAC09D00008CF13267BD0000A549673174B67BF00879B08
0CF27F009773BC00CE750F29712ACE7D710D91F1779771BD00
75CE7D75D00014C609F3005844F37F000890751B12A2B61219
9371411A1994714268716811164240CA0409BE
```

491 BYTES

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Program Registers Needed: 71

Row 1 (1 - 5)



Row 2 (5 - 7)



Row 3 (7 - 11)



Row 4 (11 - 17)



Row 5 (18 - 24)



Row 6 (25 - 33)



Row 7 (34 - 41)



Row 8 (41 - 49)



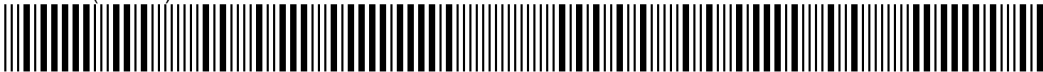
Row 9 (49 - 57)



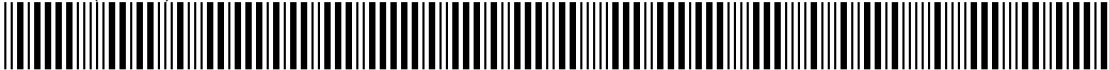
Row 10 (57 - 64)



Row 11 (65 - 74)



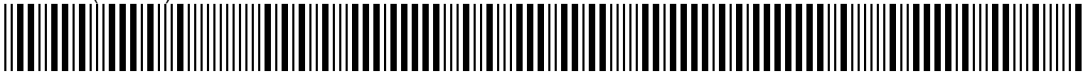
Row 12 (74 - 84)



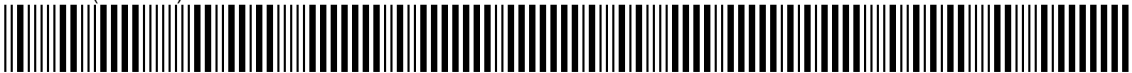
Row 13 (84 - 91)



Row 14 (91 - 95)



Row 15 (96 - 102)



Row 16 (102 - 108)



Row 17 (108 - 116)



Row 18 (117 - 127)



Row 19 (127 - 135)



Row 20 (135 - 143)



Row 21 (144 - 147)



Row 22 (147 - 152)



Row 23 (153 - 158)



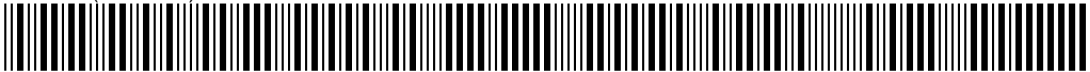
Row 24 (158 - 161)



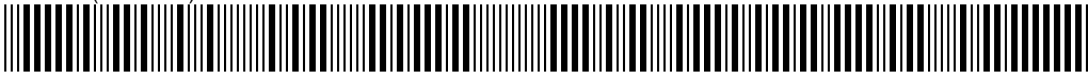
Row 25 (161 - 163)



Row 26 (163 - 169)



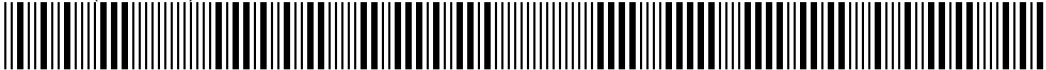
Row 27 (169 - 178)



Row 28 (178 - 187)



Row 29 (188 - 195)



Row 30 (196 - 203)



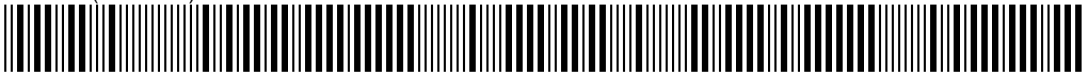
Row 31 (203 - 207)



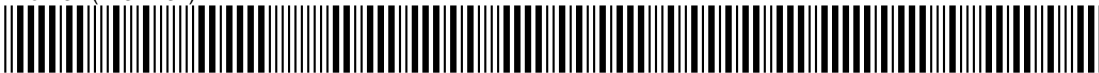
Row 32 (207 - 214)



Row 33 (215 - 222)



Row 34 (223 - 232)



Row 35 (232 - 239)



Row 36 (240 - 243)



Row 37 (243 - 250)



Row 38 (251 - 257)

