

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

```
01 LBL "MP"      ;Multiple Variable Plotting (1-9) - XROM 20,28
02 SF 08
03 GTO 00
04 LBL "HP"      ;High Resolution Plot - XROM 20,29
05 CF 08
06 LBL 00
07 14
08 +
09 E3
10 /
11 15
12 +
13 STO 11
14 RCL 12
15 FC? 04
16 .123456789
17 STO 12
18 FS? 10
19 GTO 00
20 FS? 07
21 GTO 13
22 LBL 01
23 FRC
24 E1
25 *
26 14
27 +
28 CLA
29 XEQ IND X
30 FRC
31 E3
32 *
33 XROM 29,03 ;ACCOL
34 " "        ;2 spaces
35 ARCL IND 11
36 XROM 29,01 ;ACA
37 XROM 29,10 ;PRBUF
38 RDN
39 ISG 11
40 GTO 01
41 FIX 3
42 "Y: "
43 ARCL 00
44 ">" TO "
45 ARCL 01
46 XROM 29,08 ;PRA
47 "X: "
48 ARCL 08
49 ">" TO "
50 ARCL 09
51 XROM 29,08 ;PRA
52 "\08X="    ;Delta X=
53 ARCL 10
54 XROM 29,08 ;PRA
55 LBL 13
56 XEQ 11
57 LBL 00
58 RCL 02
59 E
60 -
61 RCL 01
62 RCL 00
63 -
64 /
65 STO 03
66 LBL 12
67 RCL d
```

```
68 55
69 XROM 10,49 ;IF (Invert Flag)
70 STO O
71 LBL 24
72 RCL 11
73 FRC
74 15
75 +
76 STO 11
77 RCL 12
78 STO M
79 24
80 STO N
81 FIX 0
82 LBL 02
83 RCL M
84 FRC
85 E1
86 *
87 14
88 +
89 STO M
90 2
91 XEQ IND M
92 FS? 08
93 GTO 00
94 INT
95 RCL X
96 E5
97 /
98 1.007
99 +
100 STO 05
101 RDN
102 Y^X
103 STO 13
104 LASTX
105 RCL 10
106 *
107 STO 07
108 E-3
109 LBL 00
110 FRC
111 STO 06
112 RCL 08
113 STO 14
114 LBL 03
115 RCL 14
116 RCL IND 11
117 SIGN
118 X=0?
119 GTO 00
120 LASTX
121 GTO 09
122 LBL 00
123 RDN
124 XEQ IND L
125 LBL 09
126 RCL 00
127 -
128 RCL 03
129 *
130 E
131 +
132 RND
133 LBL 25
134 RCL 02
135 X<>Y
136 X<=Y?
137 X<=0?
```

138 GTO 00
139 GTO 13
140 LBL 00
141 FS? 05
142 GTO 00
143 X>Y?
144 X<>Y
145 X<=0?
146 E
147 FS? 06
148 CHS
149 GTO 13
150 LBL 00
151 FC? 06
152 GTO 09
153 X<=Y?
154 GTO 00
155 -
156 RCL 02
157 +
158 LBL 00
159 X<0?
160 CHS
161 X=0?
162 E
163 GTO 25
164 LBL 09
165 X<>Y
166 MOD
167 LBL 13
168 RCL 06
169 +
170 STO IND N
171 E
172 ST+ N
173 FS? 08
174 GTO 04
175 RCL 13
176 ST* 06
177 RCL 07
178 ST+ 14
179 RCL 14
180 RCL 09
181 X<Y?
182 GTO 04
183 ISG 05
184 GTO 03
185 LBL 04
186 ISG 11
187 GTO 02
188 E
189 ST- N
190 RCL N
191 E3
192 /
193 24
194 +
195 STO 14
196 STO 13
197 ENTER
198 ISG Y
199 GTO 05
200 GTO 08
201 LBL 05
202 CLX
203 -.977
204 RCL IND Y
205 RCL Z
206 INT
207 ST+ Z

```
208 LBL 06
209 RDN
210 RCL IND Y
211 X<=Y?
212 GTO 00
213 ISG Z
214 LBL 14
215 STO IND Z
216 DSE Z
217 DSE Z
218 GTO 06
219 LBL 00
220 ISG Z
221 LBL 14
222 RDN
223 STO IND Y
224 RDN
225 ISG Y
226 GTO 05
227 CLX
228 STO 06
229 RCL IND 14
230 ISG 14
231 LBL 07
232 ENTER
233 INT
234 RCL IND 14
235 INT
236 X=Y?
237 GTO 00
238 X<>Y
239 XEQ 10
240 RCL 14
241 STO 13
242 RCL IND X
243 GTO 08
244 LBL 00
245 FC? 08
246 GTO 00
247 RCL 14
248 STO 13
249 R^
250 GTO 08
251 LBL 00
252 RCL Z
253 LASTX
254 X=Y?
255 GTO 08
256 FRC
257 ST+ IND 13
258 LASTX
259 LBL 08
260 ISG 14
261 GTO 07
262 RCL IND 13
263 XEQ 10
264 RCL O
265 X<> d
266 STO O
267 XROM 29,10 ;PRBUF
268 FS? 10
269 RTN
270 11
271 FS? 08
272 ST/ X
273 RCL 10
274 *
275 ST+ 08
276 RCL 09
277 RCL 08
```

```
278 X>Y?
279 GTO 11
280 RCL O
281 X<> d
282 STO O
283 FS? 55
284 GTO 12
285 GTO 24
286 LBL 11
287 FS? 09
288 XEQ IND 04
289 FS? 09
290 RTN
291 SF 12
292 "-----" ;6 dashes
293 XROM 29,01 ;ACA
294 XROM 29,01 ;ACA
295 XROM 29,10 ;PRBUF
296 CF 12
297 RTN
298 LBL 10
299 X<=0?
300 RTN
301 ENTER
302 X<> 06
303 -
304 E
305 -
306 XROM 29,23 ;SKPCOL
307 RCL IND 13
308 FRC
309 E3
310 *
311 XROM 29,03 ;ACCOL
312 RTN
313 LBL 15
314 1.127
315 RTN
316 LBL 16
317 2.085
318 RTN
319 LBL 17
320 FS? 08
321 .062
322 FC? 08
323 3.073
324 RTN
325 LBL 18
326 FS? 08
327 .042
328 FC? 08
329 6.065
330 RTN
331 LBL 19
332 .028
333 RTN
334 LBL 20
335 .02
336 RTN
337 LBL 21
338 8 E-3
339 RTN
340 LBL 22
341 RCL 33
342 RTN
343 LBL 23
344 RCL 34
345 END
```

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0254C600F3004D50A808B100C601F3004850A908011114401B
13431115403B2CAD041A1112131415161718193CAC0AB100AC
07BE0002691B114211144087AEF3691B1342A743F220209B8B
A741A74A75960BB2009C03F3593A209B00F57F20544F209B01
A748F3583A209B08F57F20544F209B09A748F308583D9B0AA7
480EE0000B01221B4121204143330D907E1515A2B19177CF18
2B691115403B2C9175121491769C00039075691B1142111440
917512AEF5AC08B1006890731B1543111A101017403575533D
762A42371B1C13016936283E042E908B7A67B10076BA000175
AEF40A204123421B406ECF192271467BB100BE0001AC05B100
45717B1BAC0654BE0001AD06BA0046B100412240016654671B
D000190A714B0E264091F61B9276AC08B5002D940627920E2E
2944B5009605B40005960BB3001B937690761B13431214403E
3D839672B600B90006771C1A19171790F29071689271077590
F246B10096710F91F197719771B7000196710F7591F2759672
B6007736908E960E088368908E6878B10071E0000A2E3D90F3
B90001AD08B1002E3D74B9000190717678B90069928D760996
0EB800908DE0000A9077CE7E9177A74AAC0A851111AC089573
2A429208292845BC009077CE7E9177AC37BD00D000180CAC09
AE84AC0985A80CF62D2D2D2D2DA741A741A74AA90C850B7B
8583CE06411B41A757908D691B1342A74385CF0F111A111217
85CF10121A10181585CF11AC081A101612AD08131A10171385
CF12AC081A101412AD08161A10161585CF131A10121885CF14
1A101285CF15181B1C1385CF16902185CF179022C45309B5

596 BYTES

Program Registers Needed: 86

Row 1 (1 - 4)



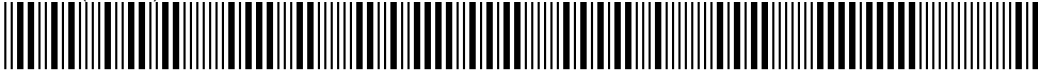
Row 2 (4 - 11)



Row 3 (11 - 16)



Row 4 (16 - 22)



Row 5 (23 - 31)



Row 6 (32 - 38)



Row 7 (39 - 44)



Row 8 (44 - 47)



Row 9 (48 - 52)



Row 10 (52 - 58)



Row 11 (59 - 69)



Row 12 (69 - 78)



Row 13 (78 - 85)



Row 14 (86 - 93)



Row 15 (94 - 100)



Row 16 (101 - 111)



Row 17 (112 - 121)



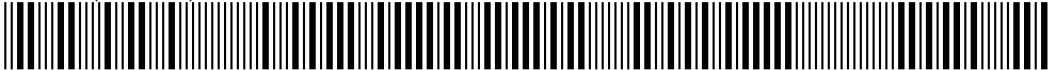
Row 18 (122 - 133)



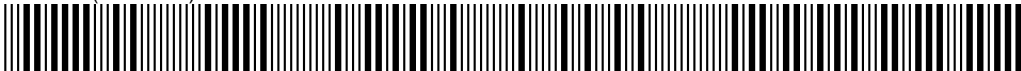
Row 19 (133 - 142)



Row 20 (142 - 151)



Row 21 (152 - 162)



Row 22 (163 - 172)



Row 23 (172 - 180)



Row 24 (181 - 188)



Row 25 (189 - 197)



Row 26 (198 - 203)



Row 27 (204 - 212)



Row 28 (212 - 219)



Row 29 (220 - 228)



Row 30 (229 - 237)



Row 31 (238 - 245)



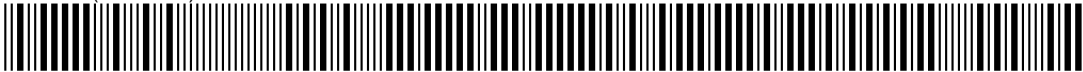
Row 32 (246 - 255)



Row 33 (255 - 263)



Row 34 (263 - 269)



Row 35 (270 - 278)



Row 36 (279 - 285)



Row 37 (285 - 292)



Row 38 (292 - 296)



Row 39 (296 - 306)



Row 40 (307 - 314)



Row 41 (314 - 319)



Row 42 (319 - 323)



Row 43 (323 - 329)



Row 44 (329 - 334)



Row 45 (334 - 340)



Row 46 (340 - 345)

