

HP-41C PPC ROM Make Key Assignments by Tom Cadwallader
PPC Calculator Journal Volume 7 Number 10 P19 Dec 1980

```
01 LBL "MKA" ;PPC ROM Make Key Assignments
02 LBL 17
03 SF 03
04 LBL 04
05 CF 00
06 CF 01
07 XEQ 00
08 X<> IND L
09 LBL 03
10 "\F0" ;F0 hex
11 X<> M
12 >"\00" ;Append 1 null
13 X<> N
14 X=0?
15 GTO 01
16 >"-----" ;Append 6 dashes
17 X<> N
18 ISG Z
19 GTO 02
20 STO IND L
21 RDN
22 STO c
23 FC?C 03
24 GTO 18
25 XEQ "PKA" ;PPC ROM Pack Key Assignments (Line 310)
26 GTO 04
27 LBL 02
28 X<> IND Z
29 GTO 03
30 LBL 01
31 RDN
32 STO c
33 CLA
34 SF 02
35 CF 03
36 CF 04
37 LBL 15
38 CF 22
39 ASTO L
40 LBL 19
41 "PRE^POST^KEY"
42 TONE 9
43 PROMPT
44 CLA
45 ARCL L
46 FC? 22
47 GTO 16
48 X<> Z
49 4
50 RDN
51 X=0?
52 X<> T
53 XEQ "D^C" ;PPC ROM Decimal Append Byte to Alpha (Line 166)
54 XEQ "D^C" ;PPC ROM Decimal Append Byte to Alpha (Line 166)
55 36
56 STO a
57 RDN
58 ENTER
59 X<0?
60 SF 00
61 ABS
62 .1
63 *
64 LASTX
65 -
66 INT
67 ST- a
```

```
68 4
69 X=Y?
70 SF 04
71 RDN
72 LASTX
73 FRC
74 X=0?
75 CF 04
76 .1
77 FC?C 04
78 CLX
79 +
80 80
81 *
82 ST- a
83 2
84 *
85 +
86 8
87 FC? 00
88 CLX
89 +
90 X<> a
91 24
92 X<=Y?
93 SF 01
94 FC? 01
95 CLX
96 -
97 FS? 00
98 RCL e
99 FC? 00
100 RCL R
101 ASTO L
102 STO M
103 FS? 01
104 >"\00\00\00" ;Append 3 nulls
105 X<> M
106 X<> d
107 FC? IND Y
108 GTO 05
109 X<> d
110 RCL N
111 FIX 0
112 CF 29
113 " CLR KEY "
114 ARCL T
115 FIX 2
116 SF 29
117 TONE 4
118 PROMPT
119 STO N
120 RDN
121 X<> d
122 LBL 05
123 SF IND Y
124 X<> d
125 STO M
126 >"\00\00\00\00" ;Append 4 nulls
127 FC?C 01
128 >"\00\00\00" ;Append 3 nulls
129 RCL N
130 FS? 00
131 STO e
132 FC?C 00
133 STO R
134 CLA
135 ARCL L
136 RCL a
137 XEQ "D^C" ;PPC ROM Decimal Append Byte to Alpha (Line 166)
```

```
138 FS?C 02
139 GTO 15
140 LBL 16
141 FS? 02
142 GTO 19
143 ASTO X
144 "\F0" ;F0 hex
145 FC?C 22
146 >"\00\00\00" ;Append 3 nulls
147 ARCL X
148 RCL M
149 XEQ 11
150 176
151 R^
152 STO IND Y
153 R^
154 X<> c
155 CLST
156 "R/S TO CONT-"
157 BEEP
158 PROMPT
159 GTO 17
160 LBL 18
161 CF 03
162 CLST
163 " NO ROOM"
164 BEEP
165 PROMPT
166 LBL "D^C" ;PPC ROM Decimal Append Byte to Alpha
167 INT
168 OCT
169 X=0?
170 GTO 06
171 STO O
172 RDN
173 4 E2
174 ST+ O
175 X<> O
176 X<> d
177 FS?C 11
178 SF 12
179 FS?C 10
180 SF 11
181 FS?C 09
182 SF 10
183 FS? 07
184 SF 09
185 FS? 06
186 SF 08
187 SF 03
188 ARCL d
189 STO d
190 >"*" ;Append 2 asterisks
191 CLX
192 STO P
193 X<> O
194 X<> N
195 STO M
196 RDN
197 RTN
198 LBL 06
199 >"\00" ;Append 1 null
200 STO P
201 STO O
202 RDN
203 RTN
204 LBL "CKA" ;PPC ROM Clear Key Assignments
205 LBL 22
206 XEQ 00
207 CLX
```

```

208 LBL 08
209 STO IND Z
210 ISG Z
211 GTO 08
212 RDN
213 STO c
214 CLX
215 STO R
216 STO e
217 BEEP
218 RTN
219 LBL "SAX" ;PPC ROM Store Y in Absolute Location X
220 XEQ 10
221 RDN
222 X<>Y
223 X<> IND L
224 GTO 09
225 LBL "RAX" ;PPC ROM Recall Y from Absolute Location X
226 XEQ 10
227 RDN
228 RCL IND L
229 LBL 09
230 X<>Y
231 X<> c
232 RDN
233 RTN
234 LBL 10
235 16
236 -
237 STO L
238 RDN
239 GTO 11
240 LBL "C16" ;PPC ROM Place Curtain at 16 Decimal
241 XEQ 11
242 RDN
243 RTN
244 LBL 00
245 XEQ "FEA" ;PPC ROM Find .END. (Line 279)
246 193
247 -
248 X<0?
249 GTO 18
250 176
251 +
252 E3
253 /
254 176
255 +
256 ENTER
257 LBL 11
258 XEQ 12
259 "\F0\04\01\69\01" ;F004016901 hex
260 X<> M
261 STO N
262 >"AB"
263 X<> N
264 ENTER
265 X<> c
266 X<>Y
267 RTN
268 LBL "GTE" ;PPC ROM Go to .END. Without Packing
269 XEQ 12
270 X<> d
271 SF 02
272 SF 03
273 X<> d
274 CLA
275 STO M
276 >"AB"
277 X<> N

```

```

278 STO b
279 LBL "FEA" ;PPC ROM Find .END.
280 XEQ 12
281 X<> d
282 FS?C 07
283 SF 05
284 FS?C 08
285 SF 06
286 FS?C 09
287 SF 07
288 FS?C 10
289 SF 09
290 FS?C 11
291 SF 10
292 FS?C 12
293 SF 11
294 X<> d
295 DEC
296 RTN
297 LBL 12
298 CLA
299 RCL c
300 X<> M
301 >"\00\00\00\02" ;Append 4 nulls, 02 hex
302 X<> M
303 X<> d
304 CF 00
305 CF 01
306 CF 02
307 CF 03
308 X<> d
309 RTN
310 LBL "PKA" ;PPC ROM Pack Key Assignments
311 XEQ 00
312 CLA
313 CF 03
314 LBL 20
315 FS?C 03
316 GTO 21
317 CLX
318 X<> IND Z
319 SF 25
320 X=0?
321 FS?C 25
322 GTO 21
323 ASTO a
324 CF 01
325 STO M
326 ASHF
327 X<> M
328 X=0?
329 SF 01
330 CLX
331 >"\00" ;Append 1 null
332 STO N
333 >"\00\00" ;Append 2 nulls
334 X<> N
335 >"\00" ;Append 1 null
336 X<> N
337 X=0?
338 GTO 13
339 X<> N
340 ASTO M
341 >"\00" ;Append 1 null
342 STO N
343 >"\00" ;Append 1 null
344 X<> N
345 LBL 13
346 STO N
347 FC?C 01

```

```
348 >"\00\00\00" ;Append 3 nulls
349 X<> N
350 CLA
351 STO M
352 ASTO X
353 CLA
354 ARCL a
355 ARCL X
356 SF 03
357 ISG Z
358 CF 03
359 CLX
360 RCL N
361 X=0?
362 GTO 20
363 ASTO X
364 ASHF
365 ASTO a
366 "\F0" ;F0 hex
367 ARCL X
368 CLX
369 X<> M
370 STO IND T
371 ARCL a
372 ISG T
373 GTO 20
374 RTN
375 LBL 21
376 X<> M
377 "\F0" ;F0 hex
378 X<> M
379 >"^" ;Append 1 up-arrow
380 X<> N
381 >"^^^^^^" ;Append 6 up-arrows
382 X<> N
383 X<> IND L
384 SIGN
385 X#0?
386 GTO 14
387 CLX
388 LASTX
389 "\F0" ;F0 hex
390 X<> M
391 >"^" ;Append 1 up-arrow
392 X<> N
393 >"^^^^^^" ;Append 6 up-arrows
394 X<> N
395 STO IND T
396 LBL 14
397 RDN
398 STO c
399 RDN
400 INT
401 176
402 -
403 X=0?
404 GTO 22
405 RDN
406 INT
407 175
408 -
409 BEEP
410 END
```

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0370C000F4004D4B41CF11A80305A900A901E00000CEF404F1
F0CE75F27F00CE7667B200F77F2D2D2D2D2DCE769671B300
91F475917DAB03D000121EF3504B41B50003CEF1B400027591
7D87A802A903A904CF0FA9169A74CF13FC5052455E504F5354
5E4B45599F098E879B74AD16D00010CE71147567CE701EF344
5E431EF3445E431316917B758366A800611A1142764168937B
1478A80475766967A9041A11AB047740181042937B12424018
AD007740CE7B121446A801AD017741AC00907FAD00907A9A74
9175AC01F47F000000CE75CE7EADF2B600CE7E90769C00A91D
F920434C52204B4559209B709C02A81D9F048E917675CE7E06
A8F2CE7E9175F57F00000000AB01F47F0000009076AC00917F
AB00917A879B74907B1EF3445E43AA02D0000FCF10AC02D000
139A73F1F0AB16F47F0000009B739075E0000B1117167491F2
74CE7D73FC522F5320544F20434F4E542D868ED00011CF12A9
0373F8204E4F20524F4F4D868EC000F400445E43686F67B700
917775141B129277CE77CE7EAA0BA80CAA0AA80BAA09A80AAC
07A809AC06A808A8039B7E917EF37F2A2A779178CE77CE7691
75758507F27F00917891777585C000F400434B41CF16E00000
770991F19671B90075917D77917A917F8685C000F400534158
E0000A7571CEF4BA00C000F400524158E0000A7590F40A71CE
7D75850B111641917475BC00C000F400433136E0000B758501
1EF34645411119134166D00012111716401B13431117164083
0CE0000CF5F004016901CE759176F37F4142CE7683CE7D7185
C000F400475445E0000CCE7EA802A803CE7E879175F37F4142
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09A807AA0AA809AA0BA80AAA0CA80BCE7E5F850D87907DCE75
F67F0000000002CE75CE7EA900A901A902A903CE7E85C000F4
00504B41E0000087A903CF14AA03D0001577CEF1A81967AA19
D000159A7BA901917588CE7567A80177F27F009176F37F0000
CE76F27F00CE7667BE00CE769A75F27F009176F27F00CE760E
9176AB01F47F000000CE768791759A73879B7B9B73A8039671
A90377907667D000149A73889A7BF1F09B7377CE7591F09B7B
9670D0001485CF15CE75F1F0CE75F27F5ECE76F77F5E5E5E
5E5ECE76CEF47A63BF007776F1F0CE75F27F5ECE76F77F5E5E
5E5E5E5ECE7691F00F75917D75681117164167D00016756811
17154186C0000D11

880 BYTES

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Program Registers Needed: 126

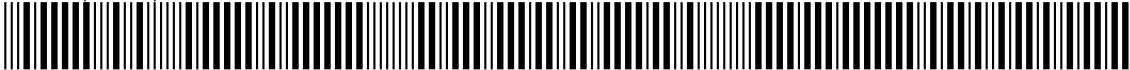
Row 1 (1 - 5)



Row 2 (5 - 11)



Row 3 (12 - 16)



Row 4 (16 - 22)



Row 5 (22 - 26)



Row 6 (27 - 35)



Row 7 (35 - 41)



Row 8 (41 - 42)



Row 9 (43 - 50)



Row 10 (51 - 54)



Row 11 (55 - 63)



Row 12 (64 - 74)



Row 13 (75 - 82)



Row 14 (83 - 92)



Row 15 (93 - 100)



Row 16 (100 - 105)



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Row 17 (105 - 111)



Row 18 (112 - 114)



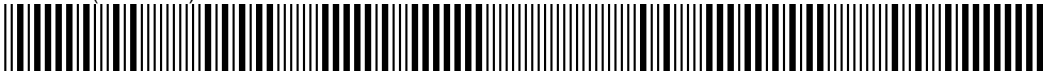
Row 19 (114 - 121)



Row 20 (122 - 126)



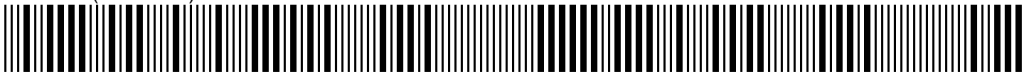
Row 21 (127 - 131)



Row 22 (132 - 137)



Row 23 (137 - 142)



Row 24 (143 - 147)



Row 25 (148 - 154)



Row 26 (154 - 156)



Row 27 (156 - 163)



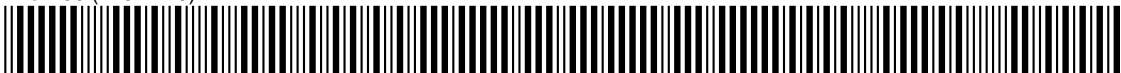
Row 28 (163 - 166)



Row 29 (166 - 173)



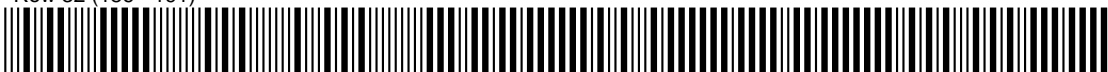
Row 30 (173 - 179)



Row 31 (179 - 185)



Row 32 (186 - 191)



Row 33 (192 - 199)

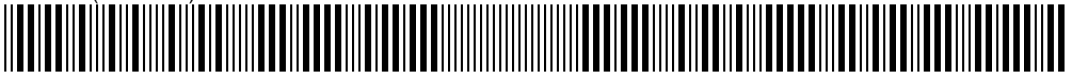


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Row 34 (199 - 204)



Row 35 (204 - 211)



Row 36 (211 - 219)



Row 37 (219 - 224)



Row 38 (224 - 228)



Row 39 (228 - 237)



Row 40 (238 - 241)



Row 41 (242 - 248)



Row 42 (249 - 254)



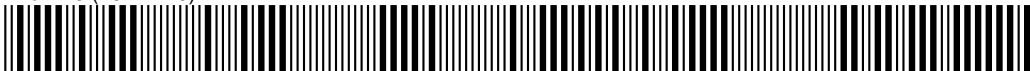
Row 43 (255 - 260)



Row 44 (260 - 266)



Row 45 (267 - 270)



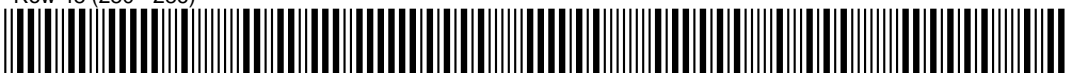
Row 46 (271 - 276)



Row 47 (277 - 280)



Row 48 (280 - 286)



Row 49 (287 - 293)



Row 50 (293 - 301)



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Row 51 (301 - 305)



Row 52 (306 - 310)



Row 53 (310 - 316)



Row 54 (316 - 323)



Row 55 (323 - 331)



Row 56 (331 - 335)



Row 57 (336 - 342)



Row 58 (342 - 348)



Row 59 (348 - 354)



Row 60 (355 - 362)



Row 61 (362 - 369)



Row 62 (369 - 375)



Row 63 (376 - 381)



Row 64 (381 - 386)



Row 65 (386 - 393)



Row 66 (393 - 397)



Row 67 (398 - 405)



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Row 68 (406 - 410)

