

```
01 LBL "AFK" ;Single Key Assignment
02 SF 06
03 STO 03
04 RDN
05 STO 02
06 RDN
07 STO 01
08 GTO 14
09 LBL "KA" ;Additional Key Assignments
10 E
11 STO 07
12 CF 06
13 SF 07
14 LBL 16
15 "CHECKING REG"
16 XEQ 13
17 LBL 14
18 SF 19
19 XEQ "FRE" ;Number of Free Registers (Line 321)
20 ASTO 04
21 RDN
22 STO 06
23 X<> M
24 STO 05
25 R^
26 X=0?
27 GTO 18
28 FC? 06
29 FC?C 07
30 GTO 14
31 70
32 X<Y?
33 GTO 17
34 "REG FREE: "
35 FIX 1
36 ARCL Y
37 XEQ 13
38 TONE 6
39 PSE
40 LBL 17
41 "ASNMT #"
42 FIX 0
43 CF 29
44 ARCL 07
45 ">?"
46 XEQ 13
47 TONE 7
48 STOP
49 STO 03
50 RDN
51 STO 02
52 RDN
53 STO 01
54 CLD
55 LBL 14
56 RCL 03
57 INT
58 X=0?
59 RTN
60 CF 09
61 X<0?
62 SF 09
63 ABS
64 STO 00
65 44
66 -
67 ABS
```

```

68 2
69 X<Y?
70 DSE 00
71 RCL 00
72 10
73 ST/ 00
74 MOD
75 8
76 *
77 ENTER
78 CF 08
79 LASTX
80 FS? 09
81 ST+ Y
82 RCL 00
83 INT
84 X#0?
85 X>Y?
86 GTO 19
87 R^
88 +
89 ST+ Z
90 X<>Y
91 X<=Y?
92 CLX
93 X#0?
94 SF 08
95 +
96 36
97 -
98 X>0?
99 GTO 19
100 FC? 09
101 RCL R
102 FS? 09
103 RCL e
104 FC? 08
105 GTO 14
106 STO M
107 >"*" ;Append 1 asterisk
108 X<> M
109 LBL 14
110 X<> d
111 FS? IND Y
112 GTO 20
113 SF IND Y
114 X<> d
115 FC? 08
116 GTO 14
117 STO M
118 ARCL 05
119 X<> N
120 LBL 14
121 FC? 09
122 STO R
123 FS? 09
124 STO e
125 "\2A\2A\F0" ;Two asterisks, F0 hex
126 FS? 10
127 ARCL 04
128 X<> M
129 STO N
130 3
131 STO 00
132 R^
133 RCL 02
134 RCL 01
135 LBL 06
136 256
137 MOD

```

```
138 LASTX
139 +
140 INT
141 OCT
142 X<> d
143 FS?C 11
144 SF 12
145 FS?C 10
146 SF 11
147 FS?C 09
148 SF 10
149 FS? 07
150 SF 09
151 FS? 06
152 SF 08
153 X<> d
154 STO M
155 CLX
156 X<> N
157 >"*" ;Append 1 asterisk
158 STO N
159 >"*" ;Append 1 asterisk
160 RDN
161 DSE 00
162 GTO 06
163 FS?C 10
164 GTO 14
165 >"***" ;Append 3 asterisks
166 ASTO 04
167 SF 10
168 LBL 14
169 RCL 06
170 RCL 05
171 FC? 19
172 GTO 16
173 X<> c
174 RCL N
175 STO IND Z
176 X<>Y
177 X<> c
178 FS?C 06
179 RTN
180 ISG 07
181 CLX
182 FC? 10
183 ISG 06
184 GTO 17
185 "DONE, NO MORE"
186 SF 07
187 GTO 14
188 LBL 18
189 "NO ROOM"
190 LBL 14
191 XEQ 13
192 TONE 7
193 TONE 83
194 STOP
195 GTO 16
196 LBL 19
197 "NO SUCH KEY"
198 GTO 14
199 LBL 20
200 X<> d
201 "KEY OCCUPIED"
202 LBL 14
203 XEQ 13
204 TONE 83
205 PSE
206 "KEYCODE?"
207 XEQ 13
```

```

208 TONE 7
209 RCL 03
210 STOP
211 STO 03
212 GTO 16
213 LBL 13
214 CLST
215 CF 21
216 AVIEW
217 FS? 55
218 SF 21
219 RTN
220 LBL "CKA" ;Check Key Assignments
221 "\0A\01\69\01" ;0A016901 misprinted as 10016901 in PPC CJ
222 RCL M
223 176
224 XEQ "AEND" ;Address of .END. (Line 288)
225 17
226 -
227 X<Y?
228 RTN
229 E3
230 /
231 +
232 R^
233 STO O
234 ASTO X
235 X<> c
236 .
237 STO R
238 STO e
239 LBL 07
240 STO IND Z
241 ISG Z
242 GTO 07
243 X<>Y
244 STO c
245 RTN
246 LBL "STAX" ;Store Y in location X
247 XEQ 14
248 X<>Y
249 RCL IND L
250 RDN
251 STO IND L
252 GTO 13
253 LBL "RCAX" ;Recall Y from location X
254 XEQ 14
255 RCL IND L
256 LBL 13
257 X<>Y
258 X<> c
259 RDN
260 RTN
261 LBL 14
262 16
263 -
264 STO L
265 RDN
266 LBL "CT16" ;Place Curtain at 016 Decimal
267 XEQ 14
268 ">\01" ;Append 01 hex
269 X<> M
270 STO N
271 ">AB"
272 X<> N
273 X<> c
274 RTN
275 X<> c
276 RTN
277 LBL "GTE" ;Go to .END. Without Packing

```

```

278 XEQ 14
279 X<> d
280 SF 01
281 X<> d
282 STO M
283 CLX
284 STO N
285 >"\00\00" ;Append 2 nulls
286 X<> N
287 STO b
288 LBL "AEND" ;Address of .END.
289 XEQ 14
290 X<> d
291 FS?C 07
292 SF 05
293 FS?C 08
294 SF 06
295 FS?C 09
296 SF 07
297 FS?C 10
298 SF 09
299 FS?C 11
300 SF 10
301 FS?C 12
302 SF 11
303 X<> d
304 DEC
305 RTN
306 LBL 14
307 RCL c
308 STO M
309 >"\00\00\00\00" ;Append 4 nulls
310 X<> N
311 >"\02" ;Append 02 hex
312 X<> M
313 X<> d
314 CF 00
315 CF 01
316 CF 02
317 CF 03
318 X<> d
319 STO N
320 RTN
321 LBL "FRE" ;Number of Free Registers
322 XEQ "NAR" ;Number of Assignment Registers (Line 332)
323 RCL Y
324 FRC
325 E3
326 *
327 175
328 -
329 X<>Y
330 -
331 RTN
332 LBL "NAR" ;Number of Assignment Registers
333 "\1F\F0\01\69\01" ;1FF0016901 hex
334 RCL M
335 XEQ "AEND" ;Address of .END. (Line 288)
336 17
337 -
338 E3
339 /
340 177
341 +
342 X<>Y
343 X<> N
344 STO M
345 >"\10\2A" ;Append 10 hex, asterisk
346 X<> N
347 >"\00\00\2A\2A\F0" ;Append 2 nulls, 2 asterisks, F0 hex

```

```

348 X<> c
349 SIGN
350 CLX
351 ENTER
352 DSE Z
353 GTO 14
354 RCL b
355 RDN
356 X<> IND Z
357 X=Y?
358 GTO 14
359 X<> M
360 >"\10" ;Append 10 hex
361 STO N
362 ARCL X
363 RDN
364 RCL N
365 X<> IND Z
366 R^
367 ISG T
368 STO b
369 RDN
370 LBL 14
371 X<> M
372 ARCL X
373 X<> N
374 SF 10
375 X=Y?
376 DSE Z
377 CF 10
378 LASTX
379 X<> c
380 STO M
381 R^
382 ENTER
383 INT
384 175
385 -
386 .5
387 FC? 10
388 SIGN
389 -
390 RTN
391 LBL "PKA" ;Pack Key Assignments
392 CF 21
393 "WORKING"
394 AVIEW
395 STO 00
396 XEQ "AEND" ;Address of .END. (Line 288)
397 174983
398 +
399 E3
400 /
401 176.5
402 "\1F\F0\01\69\01\00\10" ;1FF00169010010 hex
403 .
404 RCL M
405 FIX 8
406 CF 09
407 CF 10
408 GTO 10
409 LBL 08
410 X<> c
411 X<>Y
412 X<> IND T
413 X<>Y
414 X<> c
415 X<>Y
416 CLA
417 ARCL O

```

```

418 STO M
419 SIGN
420 X#0?
421 GTO 14
422 >"*****" ;Append 4 asterisks
423 ASHF
424 X<> N
425 X=0?
426 SF 09
427 X<> L
428 FC? 09
429 STO M
430 X<> M
431 ASHF
432 X<> M
433 FC? 09
434 >"\F0" ;Append F0 hex
435 FC? 09
436 X=0?
437 GTO 13
438 RDN
439 RCL M
440 STO N
441 ARCL Y
442 LBL 09
443 X<> N
444 X<>Y
445 X<> c
446 X<>Y
447 X<> IND Z
448 X<>Y
449 X<> c
450 ISG Z
451 LBL 10
452 ISG T
453 GTO 08
454 X<>Y
455 LBL 14
456 CLA
457 FC? 10
458 GTO 14
459 ENTER
460 R^
461 INT
462 R^
463 R^
464 LBL 11
465 X<> M
466 FS?C 10
467 GTO 12
468 SF 10
469 "\2A\2A\F0" ;2 asterisks, F0 hex
470 X<> M
471 X<> N
472 ASTO 00
473 X<>Y
474 GTO 10
475 LBL 12
476 ARCL 00
477 X<> M
478 STO N
479 >"****" ;Append 3 asterisks
480 GTO 09
481 LBL 13
482 FS?C 09
483 X#0?
484 GTO 11
485 X<>Y
486 GTO 11
487 LBL 14

```

488 176.5
489 ST- T
490 FIX 1
491 ARCL T
492 >" REG USED"
493 CLST
494 AVIEW
495 BEEP
496 FS? 55
497 SF 21
498 RTN
499 END

042BC000F40041464BA8063375327531BF00C000F3004B411B
37A906A807CF10FC434845434B494E4720524547E0000D0FA8
131EF34652459A047536CE75357467D00012AD06AB07BF0017
1044D00011FA52454720465245453A209C019B72E0000D9F06
89CF11F741534E4D5420239C00A91D9B07F27F3FE0000D9F07
8433753275317F0F23686785A90966A8096130141441611244
970020111095004B184283A90876AC09927220686345D00013
7440927171467763A8084013164164D00013AD09907AAC0990
7FAD08BF009175F27F2ACE750FCE7EACF2D00014A8F2CE7EAD
08BF0091759B05CE760FAD09917AAC09917FF32A2AF0AC0A9B
04CE7591761330742221071215164B7640686FCE7EAA0BA80C
AA0AA80BAA09A80AAC07A809AC06A808CE7E917577CE76F27F
2A9176F27F2A759700B700AA0ABF00F47F2A2A2A9A04A80A0F
2625AD13D00010CE7D907691F171CE7DAA0685960777AD0A96
06D00011FD444F4E452C204E4F204D4F5245A807BF00CF12F7
4E4F20524F4F4D0FE0000D9F079F5384D00010CF13FB4E4F20
53554348204B4559BF00CF14CE7EFC4B4559204F4343555049
45440FE0000D9F5389F84B4559434F44453FE0000D9F072384
33D000100E73A9157EAC37A81585C000F400434B41F40A0169
0190751117161EF441454E4411174144851B1343407491779A
73CE7D1A917A917F0891F19671B80071917D85C000F5005354
4158E0000E7190F47591F4BE00C000F50052434158E0000E90
F40E71CE7D75850F111641917475C000F50043543136E0000E
F27F01CE759176F37F4142CE76CE7D85CE7D85C000F4004754
45E0000ECE7EA801CE7E9175779176F37F0000CE76917CC000
F50041454E44E0000ECE7EAA07A805AA08A806AA09A807AA0A
A809AA0BA80AAA0CA80BCE7E5F850F907D9175F57F00000000
CE76F27F02CE75CE7EA900A901A902A903CE7E917685C000F4
004652451EF34E41529072691B134211171541714185C000F4
004E4152F51FF001690190751EF441454E441117411B134311
17174071CE769175F37F102ACE76F67F00002A2AF0CE7D7A77
839771BF00907C75CEF178BF00CE75F27F1091769B73759076
CEF1749670917C750FCE759B73CE76A80A789771A90A76CE7D
9175748368111715411A15AD0A7A4185C000F400504B41A915
F7574F524B494E477E301EF441454E44111714191813401B13
431117161A15F71FF001690100101A90759C08A909A90ABB00
09CE7D71CEF071CE7D71879B7791757A63BF00F57F2A2A2A2A
88CE7667A809CE74AD099175CE7588CE75AD09F27FF0AD0967
BE0075907591769B720ACE7671CE7D71CEF171CE7D96710B96
70B900710F87AD0ABF0083746874740CCE75AA0ABD00A80AF3
2A2AF0CE75CE769A0071BB000D9B00CE759176F47F2A2A2ABA
000EAA0963BC0071BC000F1117161A1593709C019B70FA7F20
5245472055534544737E86AC37A81585C0000D55

1067 BYTES

HP-41C PPC ROM Routines 2 by PPC ROM Authors PPC V7 N7 P18 Sept 1980

Program Registers Needed: 153

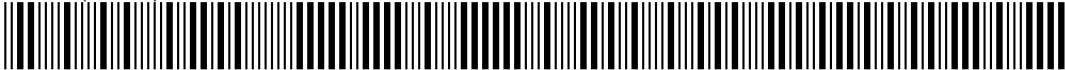
Row 1 (1 - 6)



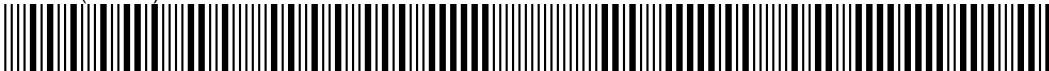
Row 2 (7 - 12)



Row 3 (13 - 15)



Row 4 (15 - 19)



Row 5 (19 - 27)



Row 6 (27 - 33)



Row 7 (34 - 35)



Row 8 (36 - 41)



Row 9 (41 - 45)



Row 10 (45 - 54)



Row 11 (55 - 65)



Row 12 (65 - 74)



Row 13 (75 - 84)



Row 14 (85 - 94)



Row 15 (94 - 101)

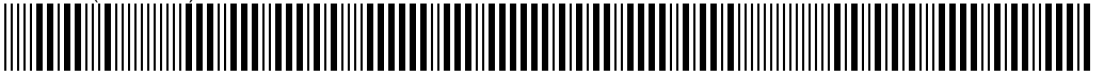


Row 16 (102 - 107)



HP-41C PPC ROM Routines 2 by PPC ROM Authors PPC V7 N7 P18 Sept 1980

Row 17 (108 - 114)



Row 18 (114 - 121)



Row 19 (121 - 126)



Row 20 (127 - 136)



Row 21 (136 - 144)



Row 22 (145 - 151)



Row 23 (151 - 157)



Row 24 (158 - 164)



Row 25 (164 - 170)



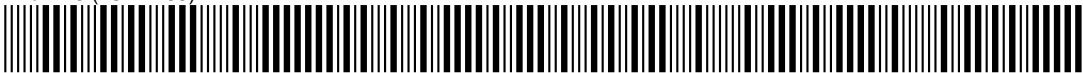
Row 26 (171 - 177)



Row 27 (177 - 184)



Row 28 (184 - 185)



Row 29 (185 - 189)



Row 30 (189 - 195)



Row 31 (195 - 197)



Row 32 (197 - 201)



Row 33 (201 - 203)



HP-41C PPC ROM Routines 2 by PPC ROM Authors PPC V7 N7 P18 Sept 1980

Row 34 (204 - 207)



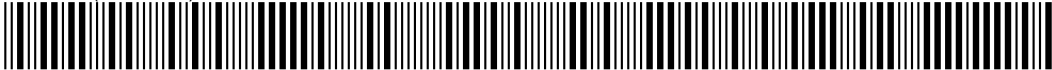
Row 35 (207 - 215)



Row 36 (215 - 220)



Row 37 (220 - 224)



Row 38 (224 - 231)



Row 39 (232 - 239)



Row 40 (240 - 246)



Row 41 (246 - 251)



Row 42 (251 - 254)



Row 43 (254 - 263)



Row 44 (264 - 267)



Row 45 (267 - 272)



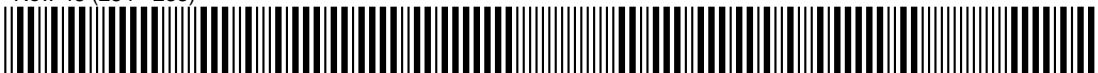
Row 46 (272 - 277)



Row 47 (277 - 283)



Row 48 (284 - 288)



Row 49 (288 - 292)



Row 50 (292 - 298)



HP-41C PPC ROM Routines 2 by PPC ROM Authors PPC V7 N7 P18 Sept 1980

Row 51 (299 - 306)



Row 52 (307 - 311)



Row 53 (311 - 317)



Row 54 (317 - 321)



Row 55 (322 - 327)



Row 56 (327 - 333)



Row 57 (333 - 335)



Row 58 (336 - 343)



Row 59 (344 - 347)



Row 60 (347 - 354)



Row 61 (355 - 361)



Row 62 (362 - 369)



Row 63 (370 - 377)



Row 64 (377 - 385)



Row 65 (386 - 391)



Row 66 (391 - 395)



Row 67 (396 - 398)

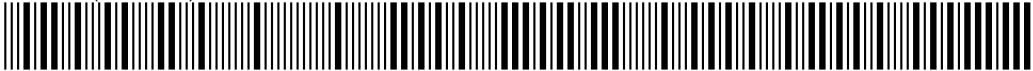


HP-41C PPC ROM Routines 2 by PPC ROM Authors PPC V7 N7 P18 Sept 1980

Row 68 (399 - 402)



Row 69 (402 - 408)



Row 70 (408 - 417)



Row 71 (417 - 422)



Row 72 (423 - 430)



Row 73 (430 - 437)



Row 74 (437 - 445)



Row 75 (445 - 453)



Row 76 (453 - 463)



Row 77 (464 - 469)



Row 78 (470 - 477)



Row 79 (477 - 482)



Row 80 (483 - 489)



Row 81 (489 - 492)



Row 82 (492 - 499)



Row 83 (499)

