

HP-41C Potential Field Distribution PFD by Dave Carlson  
PPC Calculator Journal Volume 9 No 7 Pg 33 Oct-Nov 1982

```
01 LBL "PFD" ;Potential Field Distribution Main Program
02 CLRG
03 SF 27
04 CF 29
05 FIX 0
06 "DEC PLACES?"
07 PROMPT
08 STO 03
09 "GRID SIZE?"
10 PROMPT
11 STO 10
12 X^2
13 STO 02
14 RCL 10
15 2
16 -
17 X^2
18 STO 04
19 STO 06
20 STO 05
21 10
22 +
23 +
24 271
25 X>Y?
26 GTO 00
27 "GRID TOO FINE"
28 AVIEW
29 PSE
30 XEQ "PFD" ;Line 1
31 LBL 00
32 X<>Y
33 STO 00
34 SF 25
35 RCL IND X
36 FS? 25
37 GTO 01
38 1
39 +
40 "SET SIZE "
41 ARCL X
42 PROMPT
43 LBL 01
44 RCL 00
45 RCL 04
46 -
47 .001
48 *
49 11
50 +
51 STO 00
52 1
53 STO 01
54 "MAX NO RUNS?"
55 PROMPT
56 .001
57 *
58 1
59 +
60 STO 07
61 LBL 03
62 "KEY "
63 ARCL 01
64 ">" / " ;Append space, slash, space
65 ARCL 02
66 AVIEW
67 ISG 01
```

```

68 X<> X
69 STOP
70 LBL A
71 STO IND 00
72 ISG 00
73 GTO 03
74 GTO 11
75 LBL B
76 "A"
77 ASTO IND 00
78 ISG 00
79 GTO 03
80 LBL 11
81 "END OF DATA"
82 AVIEW
83 PSE
84 SF 25
85 XEQ "SLV" ;Potential Field Distribution Solve Program
86 FC? 25 ;If error flag has been set
87 "LOAD SLV" ;Request user to load SOLVE
88 AVIEW
89 END

```

```

00DEC000F4005046448AA81BA91D9C00FB44454320504C4143
45533F8E33FA475249442053495A453F8E3A51322A12415134
36351110404012171145B100FD4752494420544F4F2046494E
457E891EF3504644017130A81990F3AC19B2001140F9534554
2053495A45209B738E022024411A10101142111140301131FC
4D4158204E4F2052554E533F8E1A1010114211403704F44B45
59209B01F47F202F209B027E9601CE7384CF6691809600B400
BC00CF67F1419A809600B4000CFB454E44204F462044415441
7E89A8191EF3534C56AD19F84C4F414420534C567EC0000DC8

```

222 BYTES

HP-41C Potential Field Distribution SLV by Dave Carlson  
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```

01 LBL "SLV" ;Potential Field Distribution Solve Program
02 FIX 0
03 CF 29
04 CF 00
05 "RUN "
06 ARCL 07
07 AVIEW
08 RCL 00
09 INT
10 STO 04
11 RCL 02
12 10
13 +
14 RCL 05
15 +
16 .001
17 *
18 ST+ 04
19 RCL 04
20 STO 05
21 STO 08
22 RCL 00
23 RCL 02
24 -
25 STO 00
26 LBL 00
27 SF 25
28 RCL IND 00
29 ISG 00
30 GTO 02
31 GTO 03
32 LBL 02

```

```
33 INT
34 FS? 25
35 GTO 00
36 SF 25
37 1
38 ST- 00
39 RCL IND 00
40 INT
41 FC? 25
42 GTO 04
43 SF 01
44 LASTX
45 STO 09
46 LBL 04
47 SF 25
48 RCL 00
49 RCL 10
50 +
51 RCL IND X
52 INT
53 FC? 25
54 GTO 05
55 SF 02
56 LASTX
57 ST+ 09
58 LBL 05
59 RCL 00
60 1
61 -
62 RCL IND X
63 ST+ 09
64 RCL 00
65 RCL 10
66 -
67 RCL IND X
68 ST+ 09
69 LBL 06
70 0
71 ENTER
72 FS? 01
73 1
74 FS? 02
75 1
76 +
77 2
78 +
79 RCL 09
80 X<>Y
81 /
82 STO IND 00
83 RCL 00
84 STO IND 04
85 ISG 04
86 X<> X
87 CF 01
88 CF 02
89 1
90 ST- 00
91 0
92 STO 09
93 GTO 00
94 LBL 03
95 ISG 07
96 GTO 07
97 GTO 08
98 LBL 07
99 FS? 00
100 GTO 08
101 FIX 0
102 CF 29
```

```
103 "RUN "  
104 ARCL 07  
105 AVIEW  
106 RCL 07  
107 RCL 10  
108 2  
109 /  
110 -  
111 X>0?  
112 SF 03  
113 RCL 08  
114 STO 05  
115 LBL 09  
116 RCL IND 05  
117 X=0?  
118 GTO 14  
119 FS? 03  
120 XEQ 12  
121 1  
122 -  
123 RCL IND X  
124 STO 09  
125 RDN  
126 2  
127 +  
128 RCL IND X  
129 ST+ 09  
130 RDN  
131 1  
132 -  
133 RCL 10  
134 +  
135 RCL IND X  
136 ST+ 09  
137 RDN  
138 RCL 10  
139 2  
140 *  
141 -  
142 RCL IND X  
143 RCL 09  
144 +  
145 4  
146 /  
147 X<>Y  
148 RCL 10  
149 +  
150 X<>Y  
151 STO IND Y  
152 FS?C 03  
153 XEQ 13  
154 ISG 05  
155 GTO 09  
156 GTO 03  
157 LBL 14  
158 RCL 08  
159 STO 05  
160 GTO 03  
161 LBL 12  
162 RCL IND X  
163 STO 01  
164 RDN  
165 RTN  
166 LBL 13  
167 ENTER  
168 RCL 01  
169 -  
170 RCL 03  
171 10^X  
172 *
```

```

173 INT
174 ABS
175 X=0?
176 SF 00
177 RTN
178 LBL 08
179 RCL 08
180 STO 05
181 LBL 11
182 FIX 0
183 RCL IND 05
184 X=0?
185 GTO 10
186 STO 04
187 10
188 -
189 "PT"
190 ARCL X
191 >=" " ;Append equal sign
192 FS? 00
193 >"\28" ;Append left parenthesis
194 FIX IND 03
195 ARCL IND 04
196 FS? 00
197 >"\29" ;Append right parenthesis
198 AVIEW
199 FC? 21
200 STOP
201 ISG 05
202 GTO 11
203 LBL 10
204 "FINISHED"
205 AVIEW
206 CF 00
207 STOP
208 LBL C
209 .001
210 ST+ 07
211 GTO 07
212 END

```

```

014FC000F400534C569C00A91DA900F452554E209B077E2068
342211104025401A1010114292042435382022413001A81990
809600B300B4000368AC19B100A819119300908068AD19B500
A801763905A819202A4090F368AD19B600A802769209062011
4190F39209202A4190F39209071083AC0111AC021140124029
714391802091849604CE73A901A9021193001039B100049607
B800B90008AC00B9009C00A91DF452554E209B077E272A1243
4164A80328350A908567BF00AC03E0000C114190F339751240
90F392097511412A4090F39209752A12424190F32940144371
2A407191F2AA03E0000D9605BA00B4000F2835B4000D90F331
75850E832141235742686167A800850928350C9C00908567BB
0034111041F250549B73F27F3DAC00F27F289C839B84AC00F2
7F297EAD15849605BC000BF846494E49534845447EA90084CF
681A1010119207B800C0000DDB

```

335 BYTES

# HP-41C Potential Field Dist. PFD by Dave Carlson PPC V9 N7 P33 Oct-Nov 1982

Program Registers Needed: 32

Row 1 (1 - 5)



Row 2 (5 - 6)



Row 3 (7 - 9)



Row 4 (10 - 21)



Row 5 (22 - 27)



Row 6 (27 - 30)



Row 7 (30 - 37)



Row 8 (37 - 40)



Row 9 (41 - 49)



Row 10 (49 - 54)



Row 11 (54 - 59)



Row 12 (60 - 64)



Row 13 (64 - 71)



Row 14 (72 - 78)



Row 15 (78 - 81)



Row 16 (81 - 86)



# HP-41C Potential Field Dist. PFD by Dave Carlson PPC V9 N7 P33 Oct-Nov 1982

Row 17 (86 - 89)



Row 18 ( 89 )



# HP-41C Potential Field Dist. SLV by Dave Carlson PPC V9 N7 P33 Oct-Nov 1982

Program Registers Needed: 48

Row 1 (1 - 4)



Row 2 (5 - 12)



Row 3 (12 - 20)



Row 4 (21 - 30)



Row 5 (30 - 38)



Row 6 (38 - 46)



Row 7 (47 - 55)



Row 8 (55 - 64)



Row 9 (65 - 74)



Row 10 (74 - 84)



Row 11 (85 - 92)



Row 12 (93 - 100)



# HP-41C Potential Field Dist. SLV by Dave Carlson PPC V9 N7 P33 Oct-Nov 1982

Row 13 (100 - 105)



Row 14 (106 - 116)



Row 15 (117 - 124)



Row 16 (125 - 135)



Row 17 (135 - 145)



Row 18 (146 - 154)



Row 19 (154 - 162)



Row 20 (163 - 175)



Row 21 (176 - 185)



Row 22 (185 - 191)



Row 23 (192 - 197)



Row 24 (197 - 204)



Row 25 (204 - 209)



Row 26 (209 - 212)

