

HP-41C Routine Listing of 8K PPC Custom ROM CV
PPC Calculator Journal V8 N2 P3/5 Mar-Apr 1981

```
01 LBL "CV"      ;Curve Fit - XROM 20,08
02 GTO IND 06
03 LBL A         ;Sigma + (Insert Data Pair)
04 LBL 01
05 CF 10
06 LBL 06
07 STO 09
08 X<>Y
09 STO 08
10 SREG 13      ;SigmaREG
11 FC? 10
12 S+           ;Sigma+
13 FS? 10
14 S-           ;Sigma-
15 RDN
16 RCL 08
17 ENTER
18 X>0?
19 LN
20 ST* Z
21 RCL 09
22 X>0?
23 LN
24 ST* Z
25 X<>Y
26 SREG 19      ;SigmaREG
27 FC? 10
28 S+           ;Sigma+
29 FS? 10
30 S-           ;Sigma-
31 R^
32 FS? 10
33 CHS
34 ST+ 12
35 R^
36 FS? 10
37 CHS
38 ST+ 11
39 X<> Z
40 SIGN
41 ST+ L
42 RCL 08
43 RCL 09
44 X<> L
45 RTN
46 RCL 08
47 RCL 09
48 LBL a         ;Sigma - (Remove Data Pair)
49 SF 10
50 GTO 06
51 LBL B         ;Solve Type J
52 LBL 02
53 CF 08
54 CF 09
55 STO 07
56 2
57 X<Y?
58 SF 09
59 /
60 FRC
61 X=0?
62 SF 08
63 8
64 ST+ 07
65 XEQ IND 07
66 RCL 17
67 RCL 13
```

```
68 RCL 15
69 STO 09
70 *
71 RCL 18
72 /
73 -
74 STO 10
75 RCL 14
76 RCL 13
77 X^2
78 RCL 18
79 /
80 -
81 STO Z
82 /
83 STO 08
84 RCL 13
85 *
86 ST- 09
87 X<>Y
88 RCL 16
89 RCL 15
90 X^2
91 RCL 18
92 ST/ 09
93 /
94 -
95 *
96 SQRT
97 ST/ 10
98 XEQ IND 07
99 8
100 ST- 07
101 RCL 10
102 RCL 09
103 FS? 08
104 E^X
105 STO 09
106 RCL 08
107 RTN
108 LBL 10
109 RCL 11
110 X<> 17
111 STO 11
112 LBL 13
113 RCL 21
114 X<> 15
115 STO 21
116 RCL 22
117 X<> 16
118 STO 22
119 LBL 09
120 RTN
121 LBL 11
122 RCL 12
123 X<> 17
124 STO 12
125 LBL 14
126 RCL 19
127 X<> 13
128 STO 19
129 RCL 20
130 X<> 14
131 STO 20
132 RTN
133 LBL 12
134 RCL 23
135 X<> 17
136 STO 23
137 XEQ 14
```

```

138 GTO 13
139 LBL C      ;Predict y given x
140 LBL 03
141 FS? 09
142 LN
143 RCL 08
144 *
145 RCL 09
146 FS? 08
147 LN
148 +
149 FS? 08
150 E^X
151 RTN
152 LBL D      ;Predict x given y
153 LBL 04
154 FS? 08
155 LN
156 RCL 09
157 FS? 08
158 LN
159 -
160 RCL 08
161 /
162 FS? 09
163 E^X
164 RTN
165 LBL e      ;Initialize Curve Fit Program
166 LBL 00
167 11.024
168 XROM 20,43 ;BC (Block Clear)
169 E
170 RTN
171 LBL E      ;Solve Best Type
172 LBL 05
173 .
174 STO 25
175 4
176 STO 07
177 LBL 07
178 RCL 07
179 XEQ B
180 RCL 25
181 RCL 10
182 ABS
183 X<=Y?
184 GTO 15
185 STO 25
186 RCL 07
187 STO 26
188 LBL 15
189 DSE 07
190 GTO 07
191 RCL 26
192 XEQ 02
193 RCL 26
194 END

```

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012BC600F3004356AE06CF6602A90A07397138990DAD0A47AC
0A48752883645094712964509471719913AD0A47AC0A4874AC
0A54920C74AC0A54920BCE717A92742829CE74852829CF7BA8
0AB700CF6703A908A909371244A809436967A808189207AE87
90112D2F3942901243413A2E2D5190124341917143382D4293
097190102F519012950943414252950AAE871893072A000000
0000000029AC08553928850B2BCE113B0E9015CE0F91159016
CE1091160A850C2CCE113C0F9013CE0D91139014CE0E911485
0D9017CE119117E0000EBE00CF6804AC0950284229AC085040
AC085585CF6905AC085029AC0850412843AC095585CF7F0111
111A101214A52B1B85CF6A061A911914370827E0006790192A
6146D0000F911927911ACF0F9707B800901AE00002901AC42A
ODC5

299 BYTES

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Program Registers Needed: 43

Row 1 (1 - 5)



Row 2 (6 - 15)



Row 3 (16 - 26)



Row 4 (26 - 34)



Row 5 (35 - 43)



Row 6 (44 - 51)



Row 7 (52 - 61)



Row 8 (62 - 70)



Row 9 (71 - 81)



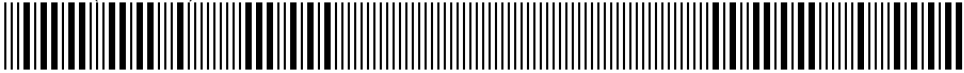
Row 10 (81 - 91)



Row 11 (91 - 100)



Row 12 (100 - 104)



Row 13 (105 - 114)



Row 14 (115 - 123)



Row 15 (123 - 130)



Row 16 (131 - 137)



Row 17 (138 - 146)



Row 18 (147 - 156)



Row 19 (157 - 166)



Row 20 (167 - 172)



Row 21 (173 - 181)



Row 22 (182 - 189)



Row 23 (189 - 194)

