

HP-41C Least Squares Regression Data Entry by Jim Cook  
PPC Calculator Journal Volume 10 Number 2 P16 Mar 1983  
Requires PPC ROM, HP-IL module and optional HP printer

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01 LBL "CF8E" ;Least Squares Regression Data Entry
02 "INPUT"
03 AVIEW      ;Remind which program is running
04 .017
05 XROM 20,43 ;BC - PPC ROM Block Clear
06 FC? 55
07 GTO 14
08 SF 21
09 CF 14
10 CF 23
11 "PRINT?"
12 AON
13 PROMPT      ;If printer plugged in, should it print?
14 AOFF
15 FS?C 23
16 CF 21
17 FS? 21
18 SF 14
19 LBL 14
20 "# PTS?"
21 PROMPT      ;Enter number of data points
22 18
23 +
24 XROM 10,30 ;VS - PPC ROM Verify Size
25 FC?C 25
26 PROMPT
27 "FIX X?"
28 PROMPT      ;Enter display format for X
29 STO 17
30 "FIX Y?"
31 PROMPT      ;Enter display format for Y
32 STO 16
33 "X MIN?"
34 PROMPT      ;Enter first X value
35 STO 14
36 "DELTA?"
37 PROMPT      ;Enter interval size
38 STO 15
39 LBL 00
40 18
41 ENTER
42 E
43 "Y DATA"
44 PROMPT      ;Enter Y value
45 LBL 01
46 STO IND Z
47 FIX 0
48 "Y"         ;Letter Y
49 ARCL Y
50 ">="        ;Append equal sign
51 FIX IND 16
52 ARCL X
53 RDN
54 STO 12
55 STO 13
56 E
57 ST- 13
58 ST+ Z
59 +
60 PROMPT
61 GTO 01
62 LBL C       ;Correct an entry
63 CF 21
64 2
65 ST- Z
66 17
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67 R^
68 X=Y?
69 GTO 00
70 "DELETED"
71 AVIEW      ;Entry has been deleted
72 PSE
73 "LAST Y="
74 ARCL IND X
75 R^
76 E
77 ST+ Z
78 -
79 STO 12
80 PROMPT      ;Enter the correct value
81 GTO 01
82 LBL B      ;Compute weighting coefficients
83 RCL 13
84 8
85 X>Y?
86 RDN
87 STO 09
88 FC? 14
89 GTO 04
90 SF 21
91 "--X--"
92 XROM 29,08 ;PRA
93 ADV
94 RCL 12
95 RCL 14
96 FIX IND 17
97 LBL 02
98 CLA
99 ARCL X
100 AVIEW
101 ADV
102 RCL 15
103 +
104 DSE Y
105 GTO 02
106 "--Y--"
107 XROM 29,08 ;PRA
108 ADV
109 SF 01
110 XEQ 03
111 LBL 04
112 55
113 FS? 55
114 XROM 10,49 ;IF - PPC ROM Invert Flag
115 CLA
116 XEQ 12
117 STO M
118 LBL 05
119 RCL IND M
120 ST+ 00
121 E
122 STO 10
123 .
124 STO 11
125 LBL 06
126 RCL 13
127 RCL N
128 2
129 *
130 -
131 R^
132 2
133 *
134 E
135 +
136 *

```

137 RCL 10  
138 \*  
139 R^  
140 RCL 13  
141 +  
142 E  
143 +  
144 R^  
145 \*  
146 RCL 11  
147 \*  
148 -  
149 R^  
150 E  
151 +  
152 RCL 13  
153 R^  
154 -  
155 LASTX  
156 RDN  
157 \*  
158 /  
159 X<> 10  
160 STO 11  
161 RDN  
162 E  
163 +  
164 RCL 10  
165 RCL IND M  
166 \*  
167 ST+ IND Y  
168 RCL 09  
169 RCL Z  
170 X<Y?  
171 GTO 06  
172 E  
173 ST+ N  
174 ISG M  
175 GTO 05  
176 RCL 12  
177 ST/ 00  
178 E  
179 STO 10  
180 LBL 07  
181 SIGN  
182 RCL 13  
183 LASTX  
184 -  
185 STO 11  
186 E  
187 LBL 08  
188 RCL 12  
189 LASTX  
190 +  
191 ST\* Y  
192 RDN  
193 DSE L  
194 GTO 08  
195 RCL 12  
196 \*  
197 RCL 10  
198 SIGN  
199 LBL 09  
200 RCL 11  
201 LASTX  
202 +  
203 ST\* Y  
204 RDN  
205 DSE L  
206 GTO 09

```

207 RCL 10
208 2
209 *
210 E
211 +
212 *
213 X<>Y
214 /
215 ST* IND 10
216 RCL 09
217 RCL 10
218 E
219 +
220 STO 10
221 X<=Y?
222 GTO 07
223 LBL 10
224 BEEP
225 "RDY 4 CF8P?"
226 PROMPT      ;Last item has been entered
227 LBL a      ;Review data after entry
228 CF 21
229 LBL 03
230 XEQ 12
231 FIX IND 16
232 LBL 11
233 CLA
234 ARCL IND X
235 AVIEW
236 ADV
237 FC? 01
238 STOP
239 ISG X
240 GTO 11
241 FS?C 01
242 RTN
243 GTO 10
244 LBL b      ;Correct erroneous data during review
245 STO IND Y
246 CLA
247 ARCL X
248 AVIEW
249 PSE
250 RDN
251 ISG X
252 GTO 11
253 LBL 12
254 RCL 13
255 18
256 +
257 LASTX
258 X<>Y
259 E3
260 /
261 +
262 END

```

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01C0C000F50043463845F5494E5055547E1A101117A52BAD37  
BF00A815A90EA917F65052494E543F8C8E8BAA17A915AC15A8  
0E0FF623205054533F8E111840A29EAB198EF646495820583F  
8E9111F646495820593F8E9110F658204D494E3F8E3EF64445  
4C54413F8E3F011118831BF65920444154418E0291F19C00F1  
599B72F27F3D9C909B73753C3D1B930D9271408EB200CF68A9  
1512937111177478B100F744454C455445447E89F74C415354  
20593D9BF3741B9271413C8EB200CF672D18457539AD0EB500  
A815F52D2D582D2DA7488F2C2E9C9103879B737E8F2F409772  
B300F52D2D592D2DA7488FA801E00003051515AC37A2B187E0  
000C91750690F592001B3A1A3B072D90761242417412421B40  
422A42742D401B4074422B4241741B402D744176754243CE0A  
3B751B402A90F54292F229907144B7001B92769675B6002C95  
001B3A087A2D76413B1B092C76409472759774B9002C422A7A  
0A2B76409472759774BA002A12421B40427143948A292A1B40  
3A46B8000B86FB524459203420434638503F8ECF7BA91504E0  
000C9C900C879BF37E8FAD01849673BC00AA0185BB00CF7C91  
F2879B737E89759673BC000D2D11184076711B134340C0000D  
B7

448 BYTES

## HP-41C Least Squares Deg. 8 Data Entry by Jim Cook PPC V10 N2 P16 Mar 1983

Program Registers Needed: 64

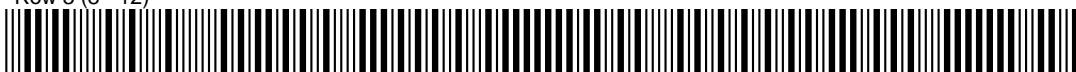
Row 1 (1 - 2)



Row 2 (2 - 8)



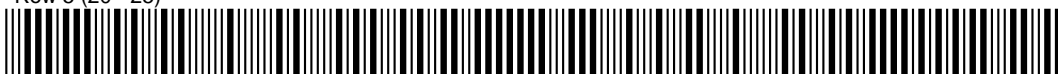
Row 3 (8 - 12)



Row 4 (13 - 20)



Row 5 (20 - 25)



Row 6 (26 - 30)



Row 7 (30 - 33)

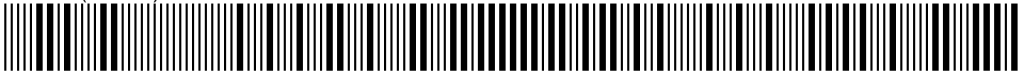


Row 8 (33 - 38)



# HP-41C Least Squares Deg. 8 Data Entry by Jim Cook PPC V10 N2 P16 Mar 1983

Row 9 (39 - 44)



Row 10 (45 - 51)



Row 11 (51 - 60)



Row 12 (61 - 68)



Row 13 (69 - 73)



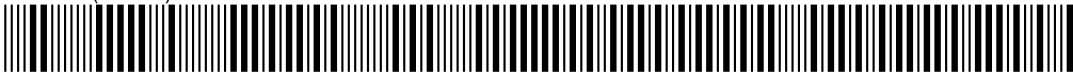
Row 14 (73 - 77)



Row 15 (78 - 88)



Row 16 (88 - 92)



Row 17 (93 - 103)



Row 18 (104 - 108)



Row 19 (109 - 115)



Row 20 (116 - 123)



Row 21 (124 - 135)



Row 22 (136 - 148)



Row 23 (149 - 160)



Row 24 (161 - 170)



Row 25 (171 - 178)



# HP-41C Least Squares Deg. 8 Data Entry by Jim Cook PPC V10 N2 P16 Mar 1983

Row 26 (179 - 191)



Row 27 (191 - 201)



Row 28 (202 - 211)



Row 29 (212 - 222)



Row 30 (223 - 225)



Row 31 (225 - 232)



Row 32 (233 - 241)



Row 33 (241 - 249)



Row 34 (250 - 259)



Row 35 (259 - 262)

