

HP-41C Double Integrals Program by Ernest Gibbs  
PPC Calculator Journal Vol 8 No 4 P32 June 1981

```
01 LBL "DI"      ;Double Integrals by Adaptive Quadrature
02 X<>Y
03 STO 08
04 -
05 STO 10
06 X<> Z
07 STO 07
08 -
09 STO 09
10 RCL 11
11 E3
12 /
13 12.011
14 +
15 STO 11
16 .5
17 STO 02
18 STO 03
19 STO 04
20 ENTER
21 XEQ 10
22 STO 05
23 CLA
24 SF 01
25 LBL 00
26 .003
27 STO IND 11
28 FS?C 01
29 GTO 01
30 DSE 11
31 ""           ;F0=null string (NOP)
32 XEQ 08
33 ST- M
34 ISG 11
35 LBL 01
36 XEQ 08
37 ST+ M
38 ISG IND 11
39 GTO 01
40 RCL M
41 ENTER
42 X<> 05
43 -
44 LASTX
45 FC? 00
46 ST/ Y
47 RDN
48 RND
49 X=0?
50 GTO 02
51 .003
52 STO IND 11
53 ISG 11
54 GTO 00
55 DSE 11
56 LBL 02
57 RCL 11
58 E
59 -
60 ISG IND X
61 GTO 00
62 STO 11
63 13
64 X<=Y?
65 GTO 02
66 RCL 05
67 RCL 09
```

```
68 RCL 10
69 *
70 *
71 CLA
72 RTN
73 LBL 08
74 RCL 11
75 INT
76 .011
77 +
78 STO N
79 RCL d
80 STO O
81 E
82 ENTER
83 ENTER
84 LBL 09
85 RCL IND N
86 INT
87 STO d
88 RDN
89 ST+ X
90 FS? 06
91 ST+ Z
92 FS? 07
93 ST+ Y
94 DSE N
95 GTO 09
96 RDN
97 RCL O
98 STO d
99 RDN
100 RCL 11
101 INT
102 E1
103 -
104 2
105 X<>Y
106 Y^X
107 1/X
108 STO 02
109 ST* Z
110 *
111 STO 04
112 X<>Y
113 STO 03
114 LBL 10
115 XEQ 14
116 8
117 *
118 STO N
119 SF 03
120 LBL 11
121 SF 04
122 LBL 12
123 RCL 04
124 RCL 02
125 FC? 03
126 CHS
127 +
128 RCL 03
129 RCL 02
130 FC? 04
131 CHS
132 +
133 XEQ 14
134 ST+ N
135 FS?C 04
136 GTO 12
137 FS?C 03
```

```

138 GTO 11
139 RCL 02
140 X^2
141 3
142 /
143 RCL N
144 *
145 RTN
146 LBL 14
147 RCL 09
148 *
149 RCL 07
150 +
151 STO 00
152 X<>Y
153 RCL 10
154 *
155 RCL 08
156 +
157 STO 01
158 X<>Y
159 XEQ IND 06
160 END

```

```

00F5C000F30044497138413ACE713741392B1B134311121A10
1111403B1A1532333483E0000A3587A801011A101013918BAA
01B200970BF0E000089375960B02E000089275968BB2009075
83CE054176AD009572756E67B3001A101013918B960BB10097
0B032B1B4196F3B1003B111346B30025292A42428785092B68
1A101111409176907E91771B83830A90F668917E759273AC06
9271AC0792729776BA00759077917E752B681B114112715360
329471423471330BE0000E18429176A8030CA8040D2422AD03
54402322AD045440E0000E9276AA04BD00AA03BC0022511343
907642850F2942274030712A4228403171AE86C0000D33

```

245 BYTES

## HP-41C Double Integrals by Ernest Gibbs PPC V8 N4 P32 June 1981

Program Registers Needed: 35

Row 1 (1 - 7)



Row 2 (8 - 14)



Row 3 (15 - 24)



Row 4 (24 - 30)



Row 5 (30 - 36)



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Row 6 (37 - 44)



Row 7 (45 - 51)



Row 8 (52 - 60)



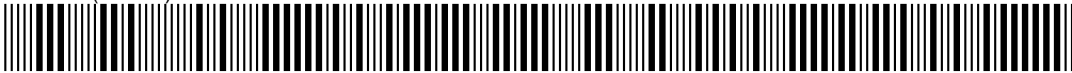
Row 9 (60 - 69)



Row 10 (70 - 78)



Row 11 (79 - 87)



Row 12 (88 - 94)



Row 13 (95 - 103)



Row 14 (104 - 115)



Row 15 (115 - 123)



Row 16 (124 - 133)



Row 17 (133 - 140)



Row 18 (141 - 152)



Row 19 (153 - 160)

