

Feb 12, 18 12:08

params_test_gcc_x86.txt

Page 1/2

```

1  int h(int hp1, int hp2, int hp3, int hp4, int hp5) {
2      int h1;
3
4      hp1++;
5      h1 = hp2 + 3;
6      hp2 = hp3 + hp4;
7      return hp1 + hp2 + hp3 + hp4 + hp5 + h1;
8  }
9
10 int g(int gp1, int gp2, int gp3) {
11     int g1, g2;
12     return gp1 + gp2 + gp3 + g1 + g2;
13 }
14
15 void f(int fp1, int fp2, int fp3) {
16     int f1, f2, f3;
17
18     f1 = g(fp1, f1, f2);
19     f2 = h(fp2, fp3, f1, f2, f3);
20 }
21
22 void main() {
23     int m1, m2, m3;
24     f(m1, m2, m3);
25 }
26
27
28
29
30
31
32
33
34     .file      "test2.c"
35     .text
36
37 .globl _h
38 _h:
39     pushl    %ebp
40     movl     %esp, %ebp
41     subl     $16, %esp
42     addl     $1, 8(%ebp)
43     movl     12(%ebp), %eax
44     addl     $3, %eax
45     movl     %eax, -4(%ebp)
46     movl     20(%ebp), %eax
47     movl     16(%ebp), %edx
48     leal     (%edx,%eax), %eax
49     movl     %eax, 12(%ebp)
50     movl     12(%ebp), %eax
51     movl     8(%ebp), %edx
52     leal     (%edx,%eax), %eax
53     addl     16(%ebp), %eax
54     addl     20(%ebp), %eax
55     addl     24(%ebp), %eax
56     addl     -4(%ebp), %eax
57     leave
58     ret
59
60 .globl _g
61 _g:
62     pushl    %ebp
63     movl     %esp, %ebp
64     subl     $16, %esp
65     movl     12(%ebp), %eax
66     movl     8(%ebp), %edx
67     leal     (%edx,%eax), %eax
68     addl     16(%ebp), %eax
69     addl     -4(%ebp), %eax
70     addl     -8(%ebp), %eax
71     leave
72     ret
73 .globl _f

```

Feb 12, 18 12:08

params_test_gcc_x86.txt

Page 2/2

```

74     .def      _f;      .scl      2;      .type      32;      .endef
75 _f:
76     pushl     %ebp
77     movl      %esp, %ebp
78     subl      $36, %esp
79     movl      -8(%ebp), %eax
80     movl      %eax, 8(%esp)
81     movl      -4(%ebp), %eax
82     movl      %eax, 4(%esp)
83     movl      8(%ebp), %eax
84     movl      %eax, (%esp)
85     call      _g
86     movl      %eax, -4(%ebp)
87     movl      -12(%ebp), %eax
88     movl      %eax, 16(%esp)
89     movl      -8(%ebp), %eax
90     movl      %eax, 12(%esp)
91     movl      -4(%ebp), %eax
92     movl      %eax, 8(%esp)
93     movl      16(%ebp), %eax
94     movl      %eax, 4(%esp)
95     movl      12(%ebp), %eax
96     movl      %eax, (%esp)
97     call      _h
98     movl      %eax, -8(%ebp)
99     leave
100    ret
101
102 .globl __main;
103 __main:
104     .def      __main;      .scl      2;      .type      32;      .endef
105
106     pushl     %ebp
107     movl      %esp, %ebp
108     andl      $-16, %esp
109     subl      $32, %esp
110     call      __main
111     movl      20(%esp), %eax
112     movl      %eax, 8(%esp)
113     movl      24(%esp), %eax
114     movl      %eax, 4(%esp)
115     movl      28(%esp), %eax
116     movl      %eax, (%esp)
117     call      _f
118     leave
119     ret

```