

# Coverage Report

Created: 2020-06-11 09:23

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Filename	Function Coverage	Line Coverage	Region Coverage	Branch Coverage
<a href="#">scratch/aphipps/llvmtest/cov/demo/demo.c</a>	100.00% (1/1)	96.36% (53/55)	85.71% (24/28)	73.33% (22/30)
<b>Totals</b>	<b>100.00% (1/1)</b>	<b>96.36% (53/55)</b>	<b>85.71% (24/28)</b>	<b>73.33% (22/30)</b>

Generated by llvm-cov -- llvm version 11.0.0git

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/scratch/aphipps/llvmtest/cov/demo/demo.c		
Line	Count	Source ( <a href="#">jump to first uncovered line</a> )
1		
2		#include <stdio.h>
3		#include <stdlib.h>
4		
5		#ifdef __clang__
6		extern void __llvm_profile_write_file(void);
7		#endif
8		
9	2	#define BRANCH_MACRO(x, y) (x == y)
10		
11		int main(int argc, char *argv[])
12	3	{
13	3	if (argc == 1)
		Branch (13:9): [True: 1, False: 2]
14	1	{
15	1	#ifdef __clang__
16	1	__llvm_profile_write_file();
17	1	#endif
18	1	return 0;
19	1	}
20	2	
21	2	int arg1 = atoi(argv[1]);
22	2	int arg2 = atoi(argv[2]);
23	2	int cnt = atoi(argv[3]);
24	2	
25	2	int x = arg2 == 0    arg1 == 0;
		Branch (25:13): [True: 0, False: 2]
		Branch (25:26): [True: 1, False: 1]
26	2	
27	2	printf("Hello, World! %u\n", x);
28	2	
29	2	int i;
30	22	for (i = 0; i < cnt; i++)
		Branch (30:17): [True: 20, False: 2]
31	20	{

```

32 20     if (arg1 == 0 || arg2 == 2 || arg2 == 34)
    Branch (32:13): [True: 10, False: 10]
    Branch (32:26): [True: 10, False: 0]
    Branch (32:39): [True: 0, False: 0]
33 20     {
34 20         printf("Hello from the loop!\n");
35 20     }
36 20 }
37 2
38 2     if ((arg1 == 3) && 1)
    Branch (38:9): [True: 0, False: 2]
    Branch (38:24): [Folded - Ignored]
39 0     printf("This never executes\n");
40 2
41 2     if (BRANCH_MACRO(arg1, arg1))
    Line  Count  Source
     9      2  #define BRANCH_MACRO(x, y) (x == y)
    Branch (9:28): [True: 2, False: 0]
42 2     printf("This executes on a macro expansion\n");
43 2
44 2     // Explicit Default Case
45 2     switch (arg2) {
46 1         case 1: printf("Case 1\n");
    Branch (46:7): [True: 1, False: 1]
47 1             break;
48 1         case 2: printf("Case 2\n");
    Branch (48:7): [True: 1, False: 1]
49 1             break;
50 0         default: break;
    Branch (50:7): [True: 0, False: 2]
51 2     }
52 2
53 2     // Implicit Default Case
54 2     switch (arg2) {
    Branch (54:13): [True: 0, False: 2]
55 1         case 1: printf("Case 1\n");
    Branch (55:7): [True: 1, False: 1]
56 1             break;
57 1         case 2: printf("Case 2\n");
    Branch (57:7): [True: 1, False: 1]
58 1             break;

```

```
59     2     }
60     2
61     2  #ifdef __clang__
62     2     __llvm_profile_write_file();
63     2  #endif
64     2
65     2     return 0;
66     2 }
```