


How to pass parameters to the gtest

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How can I pass parameter to my test suites?

```
gtest --number-of-input=5
```

I have the following main gtest code. And `--number-of-input=5` should be passed to `InitGoogleTest()`.

```
#include <iostream>
#include <gtest/gtest.h>

int main(int argc, char **argv) {
    std::cout << "Running main() from gtest_main.cc\n";
    ::testing::GTEST_FLAG(output) = "xml:hello.xml";
    testing::InitGoogleTest(&argc, argv);

    return RUN_ALL_TESTS();
}
```

I don't know how to pass my parameter to the test suites/cases as follows?

```
class TestTwo : public QuickTest {
protected:
    virtual void SetUp() {
        QuickTest::SetUp();
        square = new Square(10);
        circle = new Circle(10);
    }

    virtual void TearDown() {
        delete square;
        delete circle;
        QuickTest::TearDown();
    }

    Square* square;
    Circle* circle;
};

// Now, let's write tests using the QueueTest fixture.

// Tests the default constructor.
TEST_F(TestOne, DefaultConstructor) {
    EXPECT_EQ(100.0, square->area());
}
TEST_F(TestOne, DefaultDestructor) {
    EXPECT_EQ(1,1);
}
TEST_F(TestOne, VHDL_EMIT_Passthrough) {
    EXPECT_EQ(1,1);
}
TEST_F(TestOne, VHDL_BUILD_Passthrough) {
    EXPECT_EQ(1,1);
}
```

Added

I modified the main method to show the `argv[i]` after `InitGoogleTest()`.

```
int main(int argc, char **argv) {
    std::cout << "Running main() from gtest_main.cc\n";
    ::testing::GTEST_FLAG(output) = "xml:hello.xml";
    testing::InitGoogleTest(&argc, argv);

    for (int i = 0; i < argc; i++) {
        cout << i << ":" << argv[i] << endl;
    }
}
```

This is the arguments given to the gtest: `./s --number-of-input=5 --gtest_filter=Test_Cases1*`.

This is the results:

```
Running main() from gtest_main.cc
0:./s
1:--number-of-input=5
Note: Google Test filter = Test_Cases1*
[=====] Running 0 tests from 0 test cases.
[=====] 0 tests from 0 test cases ran. (0 ms total)
[ PASSED ] 0 tests.
```

[c++](#) [unit-testing](#) [googletest](#)

edited May 23 '17 at 12:25



Community ♦

1 1

asked Jan 27 '11 at 16:12

[prosseek](#)

56.5k 137 417 708

1 Answer

Google Test only recognizes its own command-line options. Each time it finds one, it removes it from `argv` and updates `argc` accordingly, so after `InitGoogleTest` returns, anything left over in `argv` is available for you to process yourself. Use your favorite command-line-parsing technique, store the results in some global variable, and refer to it during your tests.

If a command-line options *looks like* a Google Test option but really isn't, then the program will print its help message and exit without running any tests. Google Test options start with `gtest_`.

answered Jan 27 '11 at 18:15

[Rob Kennedy](#)

141k 15 220 391

So what do you do with the left overs to accesss them from inside a `TEST()`? – [David Doria](#) Feb 5 '16 at 19:35

@David, I think the final sentence of my first paragraph answers exactly that. – [Rob Kennedy](#) Feb 5 '16 at 22:17