

Introduction

- Debugging Tests
 - Exporting to an IDE
 - Running a test while debugging
- Building Tests
 - Test structure
 - Build output
- Running Tests
 - Starting, stopping, results
- Writing Tests
 - Structure of a test



Covered in Documentation

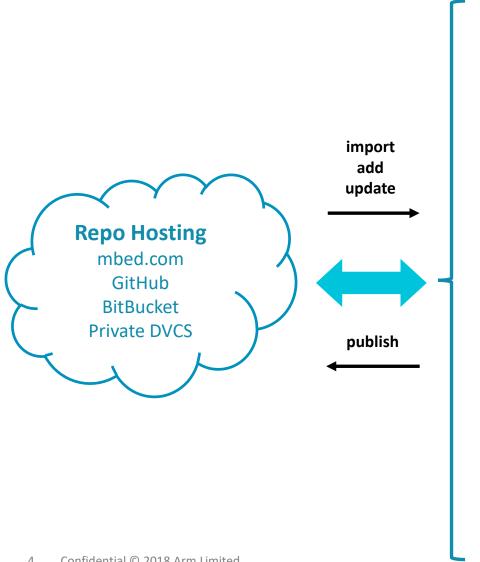
https://os.mbed.com/docs/latest/tools/testing.html



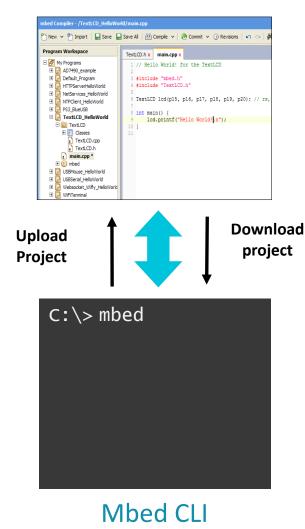
Debugging Tests



Development Environments



Mbed Online IDE



Supported IDEs











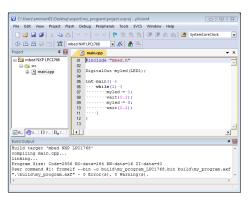
export

sync





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Exporting a test to an IDE

1. Check supported IDEs for the target

```
mbed export -S | grep "Platform\|<target name>"
```

2. Locate the path to the test

```
mbed test --compile-list -n <test name>
```

3. Copy the test's source code from its test directory to your project's root.

* Using grep optional



Exporting a test app (Continued)

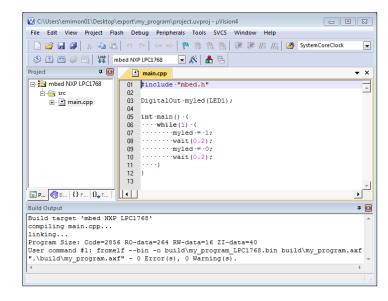
4. Export (a.k.a. generate project files)

mbed export -i <IDE name>



Running the test app

- 1. Open your IDE
- 2. Build the project
- 3. Flash it onto your target via your debugger
- 4. Bring the target out of reset, and run the program



The target waits for the test tools to send a synch string over the serial port.



Starting the test

Take note of the device's serial port

mbedls

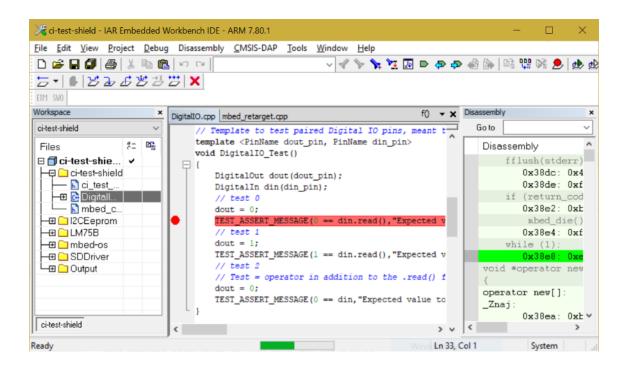
Kick off the test

mbedhtrun --skip-flashing --skip-reset -p <serial port>:9600



Debugging

Set breakpoints in the code, etc.





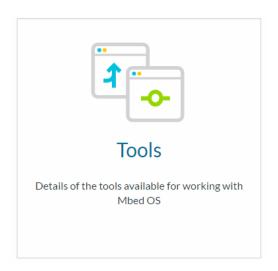
Debugging

View test output

```
[1522183928.79][CONN][RXD] >>> Running case #4: 'Digital I/O on DIO_4/DIO_5'...
[1522183928.85][CONN][INF] found KV pair in stream: {{__testcase_start;Digital I/O on...
[1522183928.90][CONN][INF] found KV pair in stream: {{__testcase_finish;Digital I/O on...
[1522183928.96][CONN][RXD] >>> 'Digital I/O on DIO_4/DIO_5': 1 passed, 0 failed
```



Documentation



Testing Applications
https://os.mbed.com/docs/latest/tools/testing-applications.html



Questions?

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Thank You! Danke! Merci! 谢谢! ありがとう! **Gracias!** Kiitos! 감사합니다 धन्यवाद

