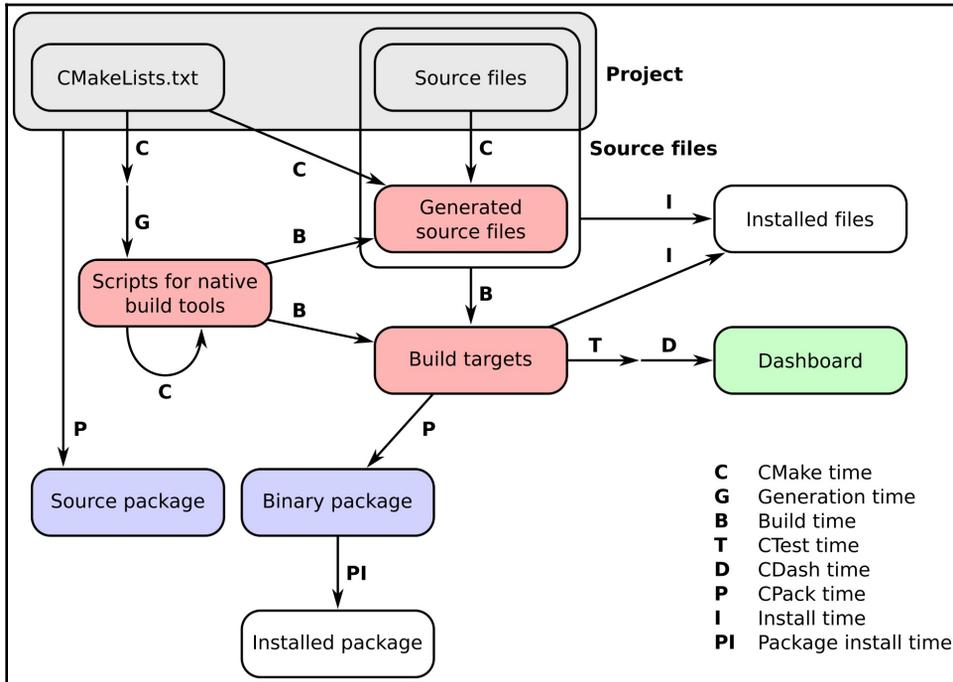
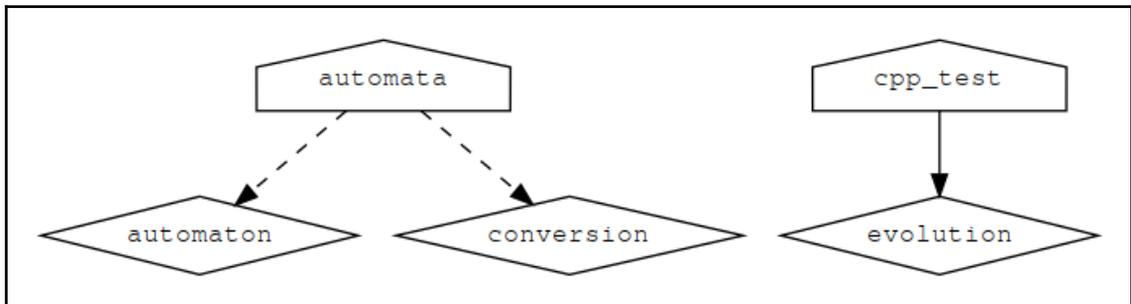
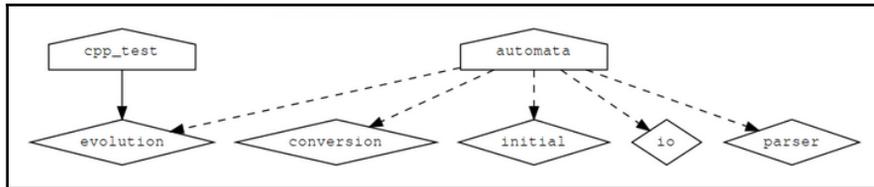


# Chapter 5: Configure-time and Build-time Operations

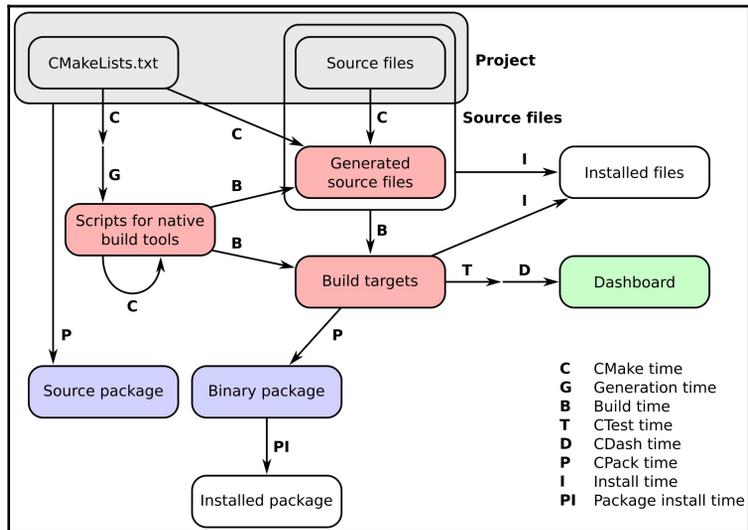


# Chapter 7: Structuring Projects

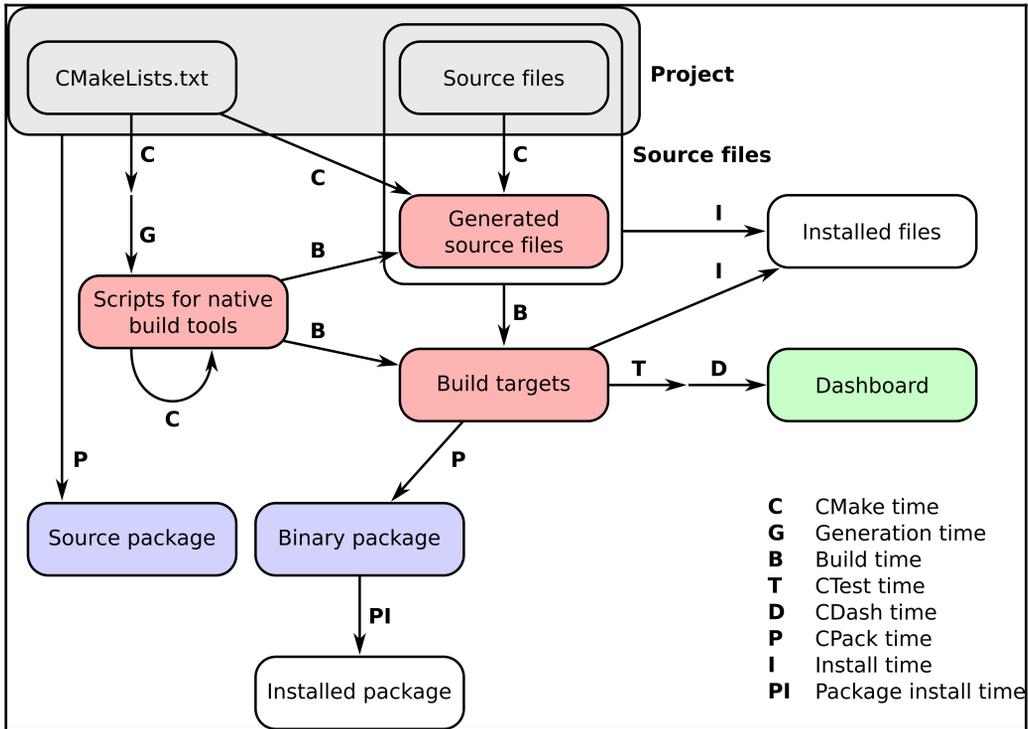
```
-- This is a normal message
-- This is a red
-- This is a bold red
-- This is a green
-- This is bold
-- Configuring done
-- Generating done
-- Build files have been written to: /home/roberto/Workspace/robertodr/cmake-cookbook/chapter-07/recipe-02/example/build
```



# Chapter 10: Writing an Installer



# Chapter 11: Packaging Projects



# Chapter 12: Building Documentation

The screenshot shows a web browser window with the address bar containing the file path: `file:///home/bast/tmp/cmake-cookbook/chapter-12/recipe-01/cxx-example/build/_build/html/class_message.h`. The page title is "recipe-01". The main content area is titled "Message Class Reference" and includes a search bar, navigation links for "Public Member Functions", "Private Member Functions", and "Private Attributes", and "Friends | List of all members". The class description states "Forwards string to screen. More...". The code snippet shows `#include <Message.hpp>`. Under "Public Member Functions", two constructors are listed: `Message (const std::string &m)` and `Message (const char *m)`. The footer indicates the page was generated by **doxygen** 1.8.14.

The screenshot shows a web browser window with the address bar containing the file path: `file:///home/bast/tmp/cmake-cookbook/chapter-12/recipe-02/cxx-example/build/sphinx_html/index.html`. The page title is "Welcome to recipe-02's documentation!". The main content area features a "Quick search" box with a "Go" button. Below the search box, the text "Welcome to recipe-02's documentation!" is displayed in a large font, followed by "Indices and tables". A list of links is provided: 

- [Index](#)
- [Module Index](#)
- [Search Page](#)

The footer contains the copyright information: "©2018, Radovan Bast, Roberto Di Remigio. | Powered by [Sphinx 1.7.8](#) & [Alabaster 0.7.11](#) | [Page source](#)".

Activities **Opera** Wed Aug 29, 19:20

Menu recipe-01: Message Welcome to recipe- Messaging classes +

file:///home/bast/tmp/cmake-cookbook/chapter-12/recipe-03/cxx-example/build/html/code-reference/messag

Add your first bookmark by using the heart in the address bar or [Import bookmarks now](#)

Quick search

Go

# Messaging classes

## Message

*class* **Message**  
Forwards string to screen.

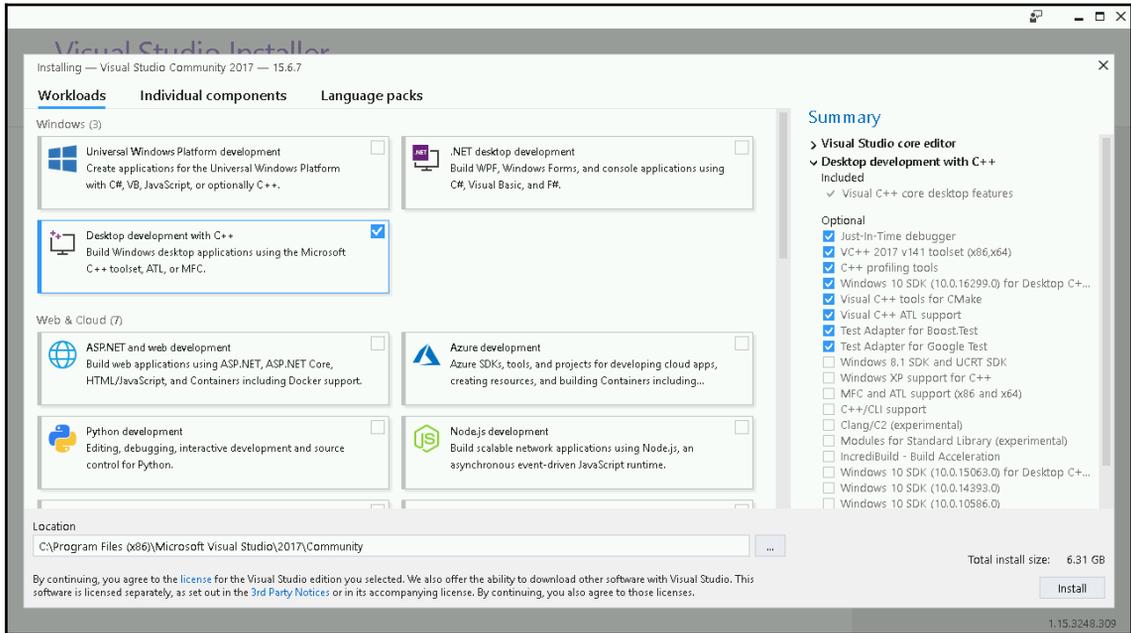
**Author**  
Roberto Di Remigio

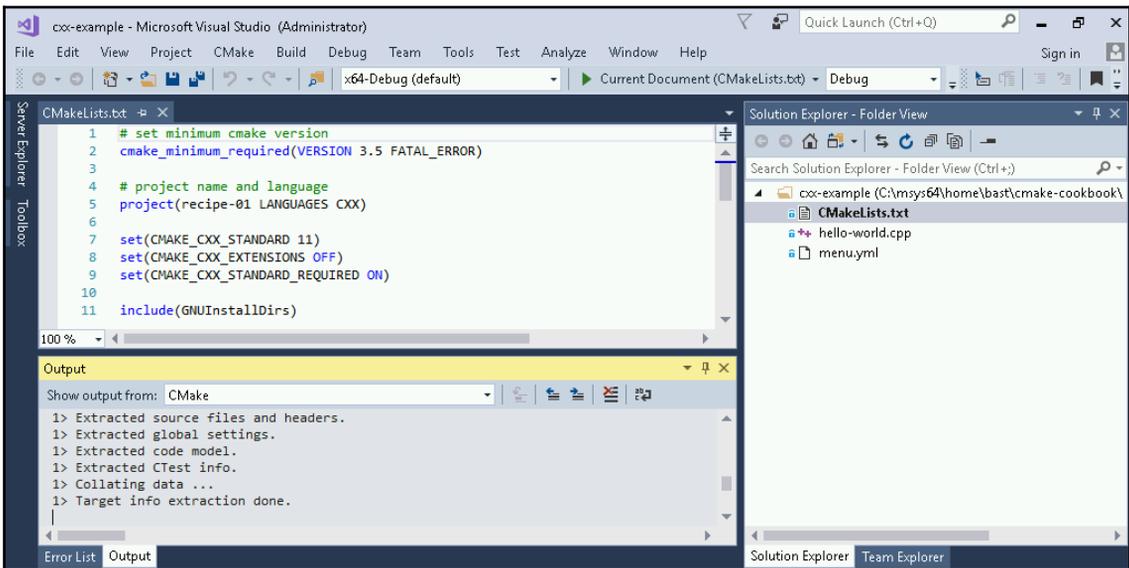
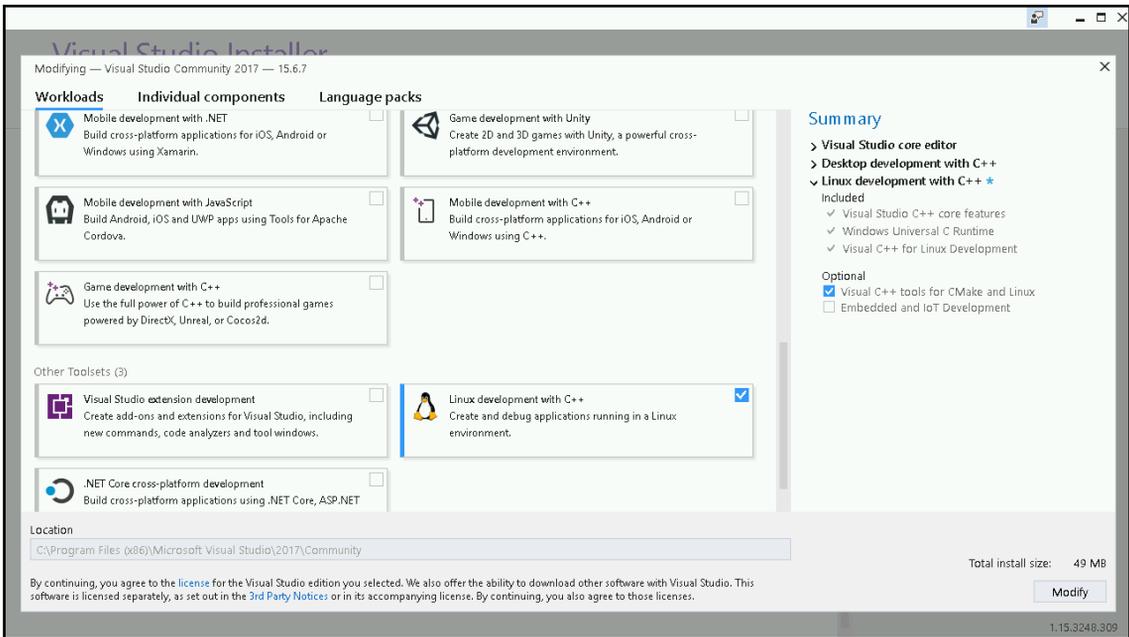
**Date**  
2018

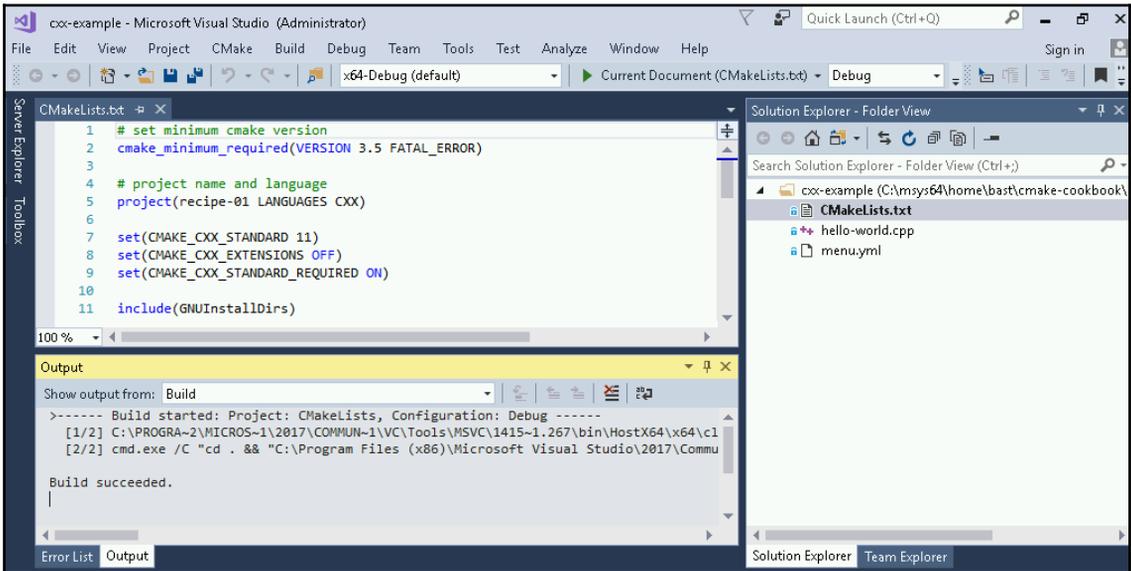
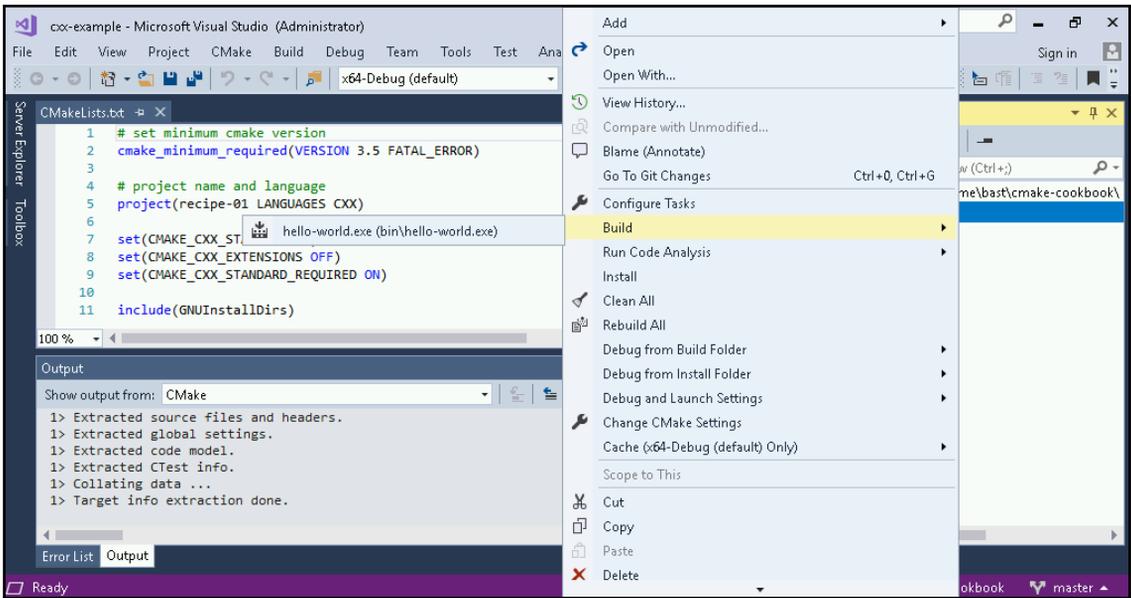
**Public Functions**

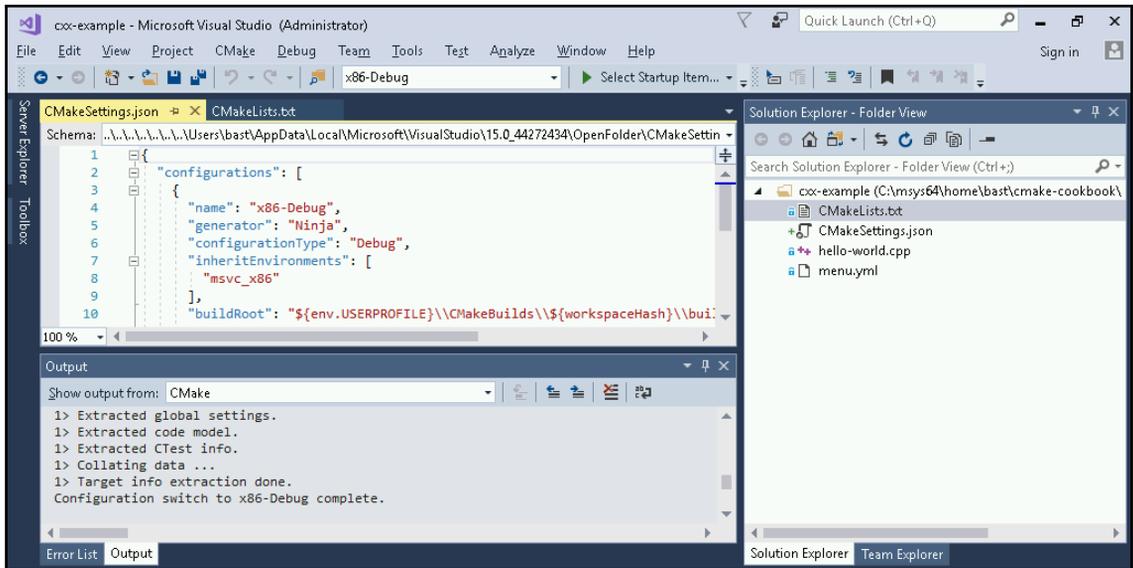
**Message**(*const* std::string &*m*)  
Constructor from a string.

# Chapter 13: Alternative Generators and Cross-compilation

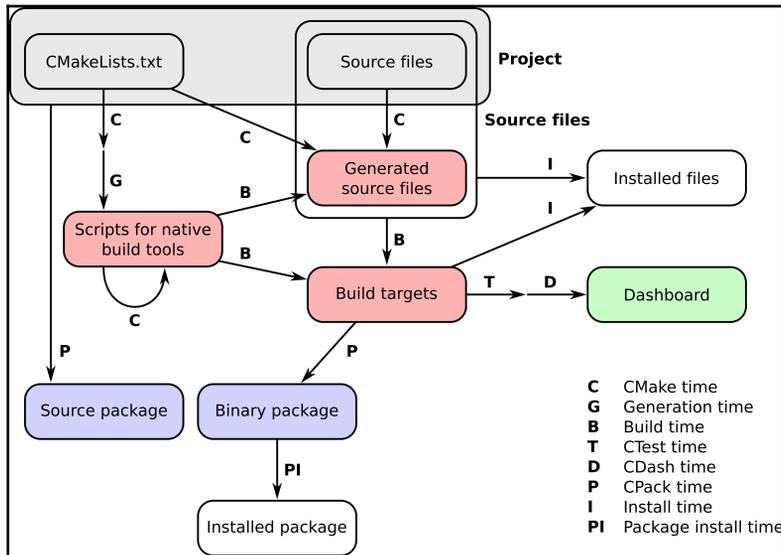








# Chapter 14: Testing Dashboards



Browser address bar: <https://my.cdash.org/index.php?project=cmake-cookbook>

Navigation: Login All Dashboards Plans & Pricing Support Sunday, April 08 2018 11:03:25 EDT

**Cmake-Cookbook**

Dashboard Calendar Previous Current Project

No file changed as of Sunday, April 08 2018 - 01:00 EDT

Experimental

Site	Build Name	Update		Configure		Build		Test			Build Time
		Files	Error	Warn	Error	Warn	Not Run	Fail	Pass		
larry	Linux-c++		0	0	0	0	0	0	0	2	13 minutes ago

Testing started on 2018-04-08 14:49:51

Site Name:larry  
Build Name:Linux-c++  
Total time:0s  
OS Name:Linux  
OS Platform:x86\_64  
OS Release:4.15.13-1-ARCH  
OS Version:#1 SMP PREEMPT Sun Mar 25 11:27:57 UTC 2018  
Compiler Name:/usr/bin/c++  
Compiler Version:7.3.1

2 tests passed.

Name	Status	Time	Summary
test_long	Passed	0s	Stable
test_short	Passed	0s	Stable

[Download Table as CSV File](#)

The screenshot shows the Cdash web interface for a project named 'cmake-cookbook'. The top navigation bar includes 'Login', 'All Dashboards', 'Plans & Pricing', and 'Support'. The main header displays 'Cmake-Cookbook' with sub-headers for 'Dashboard', 'Calendar', 'Previous', 'Current', and 'Project'. Below the header, a message states 'No file changed as of Sunday, April 08 2018 - 01:00 EDT'. The 'Experimental' section contains a table with columns for 'Update', 'Configure', 'Build', and 'Test'. The 'Configure' sub-table shows 0 errors and 0 warnings. The 'Build' sub-table shows 0 errors and 0 warnings. The 'Test' sub-table shows 0 failures and 2 passes. Below this, the 'Coverage' section shows a table with columns for 'Site', 'Build Name', 'Percentage', 'LOC Tested', 'LOC Untested', and 'Date'. The 'Coverage' table shows 66.67% coverage for the 'larry' site. The bottom part of the screenshot shows a 'Coverage Summary' table and a 'Coverage Legend' with three categories: 'Satisfactory coverage' (green), 'Unsatisfactory coverage' (orange), and 'Dangerously low coverage' (red).

This screenshot provides a detailed view of the coverage summary and directory listing. The 'Coverage Summary' table shows: Total Coverage: 66.67%, Tested lines: 14, Untested lines: 7, Files Covered: 3 of 3, Files Satisfactorily Covered: 3, and Files Unsatisfactorily Covered: 0. The 'Coverage Legend' defines three levels: Satisfactory coverage (green), Unsatisfactory coverage (orange), and Dangerously low coverage (red). Below the summary, there is a filter bar showing 'Directories (2) | No Executable Code (0) | Zero (0) | Low (0) | Medium (0) | Satisfactory (3) | Complete (0) | All (3)'. The 'Show Filters' button is visible. The main table lists directories with columns for 'Directory', 'Status', 'Percentage', 'Lines not covered', and 'Priority'. The 'src' directory is shown with a 'Satisfactory' status and 50.00% coverage, with 5/10 lines not covered. The 'tests' directory is shown with a 'Satisfactory' status and 81.82% coverage, with 2/11 lines not covered. The table is paginated, showing 'Showing 1 to 2 of 2 entries' and navigation buttons for 'First', 'Previous', '1', 'Next', and 'Last'.

Coverage File: ./src/sum\_integers.cpp

```

1 | #include "sum_integers.hpp"
2 |
3 | #include <vector>
4 |
5 | 2 | int sum_integers(const std::vector<int> integers) {
6 | 2 |     auto sum = 0;
7 | 1007 |     for (auto i : integers) {
8 | 1005 |         sum += i;
9 |     }
10 | 2 |     return sum;
11 | }
12 |
13 | 0 | int sum_integers_unused(const std::vector<int> integers) {
14 | 0 |     auto sum = 0;
15 | 0 |     for (auto i : integers) {
16 | 0 |         sum += i;
17 |     }
18 | 0 |     return sum;
19 | }
20 | }

```

Browser address bar: <https://my.cdash.org/index.php?project=cmake-cookbook>

Navigation: Login All Dashboards Plans & Pricing Support Sunday, April 08 2018 11:44:01 EDT

**Cmake-Cookbook**

Dashboard Calendar Previous Current Project

No file changed as of Sunday, April 08 2018 - 01:00 EDT

**Experimental**

Site	Build Name	Update	Configure		Build		Test			Build Time
		Files	Error	Warn	Error	Warn	Not Run	Fail	Pass	
localhost	Linux-x86_64		0	0	0	0	0	2 <sup>**</sup>	0	2 minutes ago

**Dynamic Analysis**

Site	Build Name	Checker	Defect Count	Date
localhost	Linux-x86_64	AddressSanitizer	2	2 minutes ago

**Dynamic analysis started on 2018-04-08 15:41:20**

Site Name: localhost  
 Build Name: Linux-x86\_64

Name	Status	Direct leak	heap-use-after-free	Labels
leaky	Failed	1		
use_after_free	Failed		1	

Cmake-Cookbook										
Experimental		Update	Configure		Build		Test			
Site	Build Name	Files	Error	Warn	Error	Warn	Not Run	Fail	Pass	Build Time
localhost	Linux-x86_64		0	0	0	0	0	1 1	0	just now

Dynamic Analysis				
Site	Build Name	Checker	Defect Count	Date
localhost	Linux-x86_64	ThreadSanitizer	2	just now

**Dynamic analysis started on 2018-04-08 15:44:35**

**Site Name:** localhost  
**Build Name:** Linux-x86\_64

Name	Status	data race	Labels
example	Failed	2	