

CMake Study

Li Bin

CMake Study

Li Bin

Dedication

CMake, more than just a buildsystem...

Table of Contents

1. What is CMake?	1
2. CMake:Build Software	2

List of Examples

2.1. build example. 2

Chapter 1. What is CMake?

- Cross platform buildsystem.
- Creates Makefiles (e.g. GNU, Borland, MS)
- supports C++,C,Java,Fortran
- simple script language
- Used by e.g. KDE 4, Chicken Schema, libgphoto

Chapter 2. CMake:Build Software

- supports executables, static and shared libraries.
- care for platform specific issues.

Example 2.1. build example.

```
set(foo_srcs a.c b.c) set variable
add_library(foo SHARED ${foo_srcs}) ❶
add_executable(hello main.c) ❷
target_link_libraries(hello foo)
install(TARGETS foo DESTINATION lib)
```

- ❶ a test.
❷ test1.

```
#include "stdio.h"
```

```
int main(int argc, char **argv) {
    printf("%.20f - %.20f = %.20f", 44763578.0f, 44763574.0f, 44763578.0f - 44763574.0f)
}
```