cmake(四)CMake项目的二进制目录和源目录



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Make cmake DSL语言 专栏收录该内容

38 篇文章

△摘要 这篇博客介绍了如何管理和修改二进制目录与源代码目录,强调了环境变量的调整以及CMakeLists.txt文件的编辑 在软件构建过程中的重要性。通过实际操作步骤,包括环境修改、CMakeLists更新和测试验证,来阐述最佳实践,帮助开发者 优化项目构建流程。

摘要由CSDN通过智能技术生成

一 二进制目录和源目录

知道'在哪(DIR)'很重要



① 环境修改

```
kiosk@k8s CmakeProjects $ ls
HelloCmake
kiosk@k8s CmakeProjects $ cd HelloCmake/
kiosk@k8s HelloCmake $ ls
build CMakeLists.txt HelloCmake.cpp
kiosk@k8s HelloCmake $ cd build/
kiosk@k8s build $ ls
CMakeCache.txt CMakeFiles
kiosk@k8s build $ rm -fr *
kiosk@k8s build $ vim ../CMakeLists.txt
```

② 修改CMakeLists.txt文件

```
1 # 项目名称
12 message(STATUS ${HelloCmake SOURCE_DIR}) 名称固定
13 message(STATUS ${PROJECT_SOURCE_DIR})
14 add_executable(hello_cmake ${SRC_LIST})
```

kiosk@k8s build \$ rm -fr *
kiosk@k8s_build_\$ vim/CMakeLists.txt 修改文件
kiosk@k8s build \$ cmake3
The C compiler identification is GNU 4.8.5
The CXX compiler identification is GNU 4.8.5
Check for working C compiler: /usr/bin/cc
Check for working C compiler: /usr/bin/cc - works
Detecting C compiler ABI info
Detecting C compiler ABI info - done
Detecting C compile features
Detecting C compile features - done
Check for working CXX compiler: /usr/bin/c++
Check for working CXX compiler: /usr/bin/c++ - works
Detecting CXX compiler ABI info
Detecting CXX compiler ABI info - done
Detecting CXX compile features
Detecting CXX compile features - done
This is no paraments!
This is a status level message!
/var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake/build进制的目录
/var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake/build — 上地の日本
/var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake
/var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake
Configuring done
Generating done
Build f <u>iles</u> have been written to: /var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake/build
kiosk@k8s build \$ ls
CMakeCache.txt CMakeFiles cmake_install.cmake Makefile
kiosk@k8s build \$ pwd https://plog.gestrang/wzl 110
/var/ftp/pub/pub/cmake/test/CmakeProjects/HelloCmake/build

HelloCMake_BINARY_DIR = PROJECT_BINARY_DIR HelloCMake_SOURCE_DIR ■ PROJECT_SOURCE_DIR

PROJECT_BINARY_DIR对应的是执行cmake命令所在的目录,这里是build这个子目录的路径,而PROJECT_SOURCE_DIR则对应源文件的目录,这里是build的上一层目录,即CMakeLists.txt对应的目录

④ 最佳实践

实际使用时,用PROJECT_XXX这个变量比较好,因为这两个 变量<mark>不会因为项目名称的改变而改变</mark>,<project_name>_XXX 这个变量则要随项目名称的改变而更改

