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Example of makefile

makefile

ubuntu

linux

example

Hi,

8+1

I am trying to create a makefile for a program which use openCV, but I can't create one. One thing that could help me is an example of a makefile you are using which you know work, so that I could take as a reference for writing my own makefile. Could you publish one please ? I am using ubuntu 12.04

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asked Jun 4 '13

asqz

24 1 3 8

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1

I have found another old Makefile, which I used with an old OpenCV-version. However, I don't know if OpenCV's pkg-files have been fixed again.

answered Jun 4 '13

Guanta

5082 14 48

```
CC=g++
#CFLAGS+=-g
CFLAGS+=`pkg-config --cflags opencv`
LDFLAGS+=`pkg-config --libs opencv`

PROG=opencvtest
OBSJ=$(PROG).o

.PHONY: all clean
$(PROG): $(OBSJ)
    $(CC) -o $(PROG) $(OBSJ) $(LDFLAGS)

%.o: %.cpp
    $(CC) -c $(CFLAGS) $<

all: $(PROG)

clean:
    rm -f $(OBSJ) $(PROG)
```

Here the correct flags (i.e. -I -L) are handled by pkgconfig, i.e. also that you need to set the `PKG_CONFIG_PATH` to the folder which contains the `opencv.pc`-file.

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link

1

This is my typical CMakeLists.txt for testing code, which also includes several commented lines for Qt and OpenMP, which you can uncomment if needed. Since this is a CMakeLists.txt you need cmake to create the actual Makefile, e.g. via "`ccmake .`" (where `.` refers to the current location).

answered Jun 4 '13

Guanta

5082 14 48

```
project(Test)
cmake_minimum_required(VERSION 2.8)

set(CMAKE_MODULE_PATH "${CMAKE_SOURCE_DIR}/cmake")
```

```
include_directories(${CMAKE_CURRENT_SOURCE_DIR})

# if you want to have Qt4-support uncomment this
# find_package(Qt4 REQUIRED)
# if(QT_FOUND)
#   ## activate XML component
#   set(QT_USE_QTXML TRUE)
#   include(${QT_USE_FILE})
#   add_definitions(${QT_DEFINITIONS})
#   include_directories(${CMAKE_CURRENT_BINARY_DIR} ${QT_INCLUDE_DIR})
# endif(QT_FOUND)

find_package( OpenCV REQUIRED )
if( OpenCV_FOUND )
list( APPEND ThirdParty_LIBS ${OpenCV_LIBS} )
include_directories( ${OpenCV_INCLUDE_DIRS} )
endif( OpenCV_FOUND )

# uncomment this for OpenMP support
# FIND_PACKAGE(OpenMP REQUIRED)
# if(OPENMP_FOUND)
#   set(CMAKE_C_FLAGS "${CMAKE_C_FLAGS} ${OpenMP_C_FLAGS}")
#   set(CMAKE_CXX_FLAGS "${CMAKE_CXX_FLAGS} ${OpenMP_CXX_FLAGS}")
#   set(CMAKE_EXE_LINKER_FLAGS "${CMAKE_EXE_LINKER_FLAGS} ${OpenMP_EXE_LINKER_FLAGS}")
# endif()

# uncomment this for c++11 support
# set(CMAKE_CXX_FLAGS "${CMAKE_CXX_FLAGS} -std=c++11")

set(${PROJECT_NAME}_SRC main.cpp test1.cpp test2.cpp)
set(${PROJECT_NAME}_HDR test1.h test2.h)
# currently we don't have any forms-uncomment if you have qt-forms
# set(${PROJECT_NAME}_FORMS mainwindow.ui)

# also no moc from headers needed (uncomment if qt used)
# QT4_WRAP_CPP(${PROJECT_NAME}_HDR_MOC ${${PROJECT_NAME}_HDR})
# no forms
# QT4_WRAP_UI(${PROJECT_NAME}_FORMS_HDR ${${PROJECT_NAME}_FORMS})

# use this line if you have used Qt instead the next line
# add_executable(${PROJECT_NAME} ${${PROJECT_NAME}_SRC} ${${PROJECT_NAME}_HDR_MOC} ${${PROJECT_NAME}_FORMS_HDR} )
add_executable(${PROJECT_NAME} ${${PROJECT_NAME}_SRC} ${${PROJECT_NAME}_HDR})
target_link_libraries(${PROJECT_NAME} ${OpenCV_LIBS})
```

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0

Thanks for all your answers, but I am not using CMake. Here is the makefile I created :

answered Jun 7 '13

 asqz
24 ● 1 ● 3 ● 8

updated Jun 7 '13

#####LIBRAIRIES

LIBS_ffmpeg = -lm -lz -lpthread -lavformat -lavcodec -lavutil

LIBS_opencv = -lopencv_core -lopencv_highgui -lopencv_imgproc -lopencv_video -lopencv_objdetect

LIBS_autres = -lpthread -ldl -lm

LIBS = \$(LIBS_autres) \$(LIBS_ffmpeg) \$(LIBS_opencv)

#####CONSTANTES

CXXFLAGS = -O2 -g -Wall -fmessage-length=0 -D__STDC_CONSTANT_MACROS OBJS = test.o

FluxVideo.o TARGET = test

#####REGLES

\$(TARGET): \$(OBJS) \$(CXX) -o \$(TARGET) \$(OBJS) \$(LIBS)

```
%o: %.cpp $(CXX) -o $@ -c $< $(CXXFLAGS) $(LIBS)
```

```
all: $(TARGET)
```

```
clean: rm -f $(OBJS) $(TARGET)
```

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