算法/slam第一次作业

任务一

已安装linux双系统

Ubuntu20.04

任务二了解Linux文件系统

/ 根目录

/下树结构

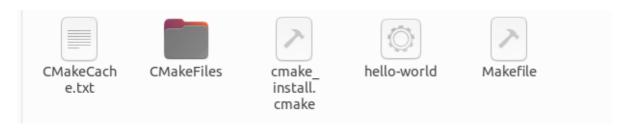
任务三 Linux命令

最常用的命令位于 /bin or /user/bin 目录下



mkdir touch

任务四 CMake简单实践



```
zero@zero: ~/vscode/src/build

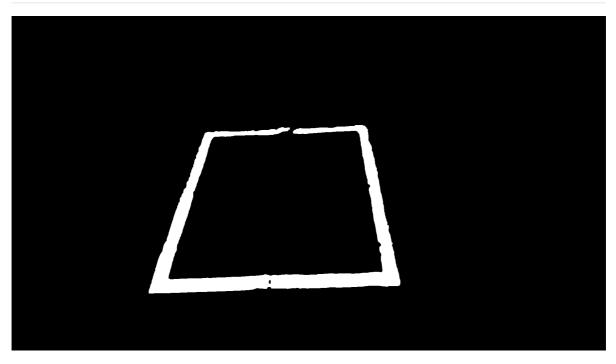
    The C compiler identification is GNU 9.4.0

   The CXX compiler identification is GNU 9.4.0
-- 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
-- Configuring done
-- Generating done
-- Build files have been written to: /home/zero/vscode/src/build
zero@zero:~/vscode/src/build$ ls
zero@zero:~/vscode/src/build$ make
Scanning dependencies of target hello-world
[ 50%] Building CXX object CMakeFiles/hello-world.dir/helloworld.cpp.o
[100%] Linking CXX executable hello-world
[100%] Built target hello-world
zero@zero:~/vscode/src/build$ ls
CMakeCache.txt CMakeFiles cmake_install.cmake hello-world Makefile
zero@zero:~/vscode/src/build$ ./hello-world
hello,world!
zero@zero:~/vscode/src/build$
```

任务五 编译安装OpenCV

配置OpenCV 4.2.0

任务六 CMake实践



报错及其处理

1.opencv4头文件问题

[opencv4] ——fatal error: opencv2/opencv.hpp: No such file or directory #include < opencv2/opencv.hpp>

经查看, 文件真实路径为

1 /usr/include/opencv4/opencv2/opencv.hpp

解决方案:将opencv2 cp 一份到 include文件夹中

2.opencv版本冲突问题

因为本机装载了两个版本的opency,文件相互链接,导致库函数调用出错,出现<mark>疑似内存泄漏</mark>的问题

解决方案: 重装opencv 现用版本4.2.0

```
zero@zero:~/opencv_t/segment/build$ ./segment
Original Image Size: [1920 x 1080]
terminate called after throwing an instance of 'cv::Exception'
what(): OpenCV(4.8.0-dev) /home/zero/opencv_build/opencv/modules/core/src/alloc.cpp:73: error: (-
4:Insufficient memory) Failed to allocate 137593004379936 bytes in function 'OutOfMemoryError'
已放弃(核心已转储)
zero@zero:~/opencv_t/segment/build$
```

3.图片导入路径出错,无法载入图片

源文件路径与本机图片所在路径不同, 导致图片无法载入, 进而报错

解决方法: 进入main.cpp中, 修改读取图片的路径即可