**Linux-X86 ubuntu 16.04**

* **clone code**

|  |
| --- |
| **$(..): git clone https://github.com/Tencent/ncnn** |

* **build code**

CPU version

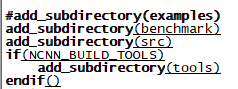
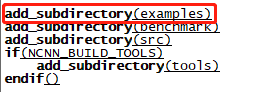
|  |
| --- |
| **$: cd ncnn**  **$: mkdir build**  **$: cd build**  **$(build): cmake ..**  **$(build): make -j12** |

GPU version

|  |
| --- |
| **$(..): wget https://sdk.lunarg.com/sdk/download/1.1.92.1/linux/vulkansdk-linux-x86\_64-1.1.92.1.tar.gz?Human=true -O vulkansdk-linux-x86\_64-1.1.92.1.tar.gz**  **$(..): tar -xf vulkansdk-linux-x86\_64-1.1.92.1.tar.gz**  **$(..): export VULKAN\_SDK=`pwd`/1.1.92.1/x86\_64**  **$: cd ncnn**  **$: mkdir build**  **$: cd build**  **$(build): cmake -DNCNN\_VULKAN=ON ..**  **$(build): make -j12** |

* **examples**

|  |
| --- |
| **$: vim CMakeLists.txt** |

🡺

|  |
| --- |
| **$: cd build**  **$(build): cmake -DNCNN\_VULKAN=ON ..**  **$(build): make -j12**  **$(build): cd examples**  **$(build/examples): cp ../../examples/squeezenet\_v1.1.param ./**  **$(build/examples): cp ../../examples/squeezenet\_v1.1.bin ./**  **$(build/examples): ./squeezenet <your\_image\_path>** |

* **add your model**

准备好你得模型得deploy.prototxt和model.caffemodel文件

ncnn只认识新版的prototxt和caffemodel文件

|  |
| --- |
| **$(caffe):./build\_release/tools/upgrade\_net\_proto\_text [老prototxt] [新prototxt]**  **$(caffe):./build\_release/tools/upgrade\_net\_proto\_binary [老caffemodel] [新caffemodel]** |

deploy.prototxt的input的dim改成1

|  |
| --- |
| layer {  name: "data"  type: "Input"  top: "data"  input\_param { shape: { dim: 1 dim: 3 dim: 227 dim: 227 } }  } |

caffe文件转换称ncnn识别的

|  |
| --- |
| **$:./build/tools/caffe/caffe2ncnn deploy.prototxt model.caffemodel test.param test.bin** |

在examples文件夹下按照其他的模型cpp文件添加test.cpp

C:\Users\yangn\AppData\Local\Temp\1570592357(1).png主要修改的包括input文件和输出的解析等

以及如果要测速度的话也要在这儿添加代码

修改examples下的CMakeLists.txt,添加

|  |
| --- |
| **add\_executable(test test.cpp)**  **target\_link\_libraries(test ${NCNN\_EXAMPLE\_LINK\_LIBRARIES})** |

在编译就OK

* **speed**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **CPU** | | **GPU** | |
| **ncnn** | **original** | **ncnn** | **original** |
| **围裙的算法** | **12.5fps** |  |  |  |

**树莓派(只纪录差异部分)**