

Ubuntu18.04安装caffe+cuda+cudnn+anaconda

[主要链接](#)

[cuda简介](#)

基本软件的链接

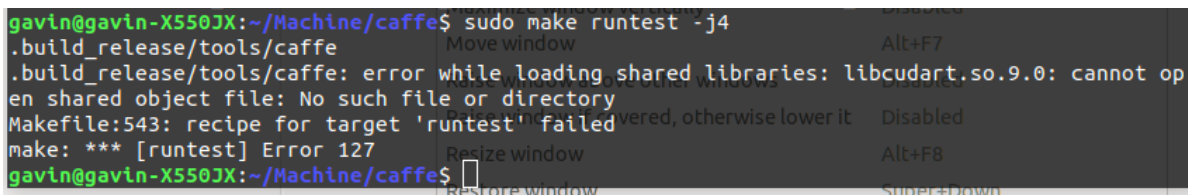
1. [搜狗输入法](#)
2. [Markdown下载](#)
3. [Ubuntu换源](#)
4. [codeblocks的安装](#)
5. [Opencv的下载地址](#)
6. [Deepin Screenshot](#)
7. [网易云音乐](#)

安装出现的问题

1. gcc降版本问题

解决方法：[链接](#)

2. sudo make runtest -j4 编译出现问题

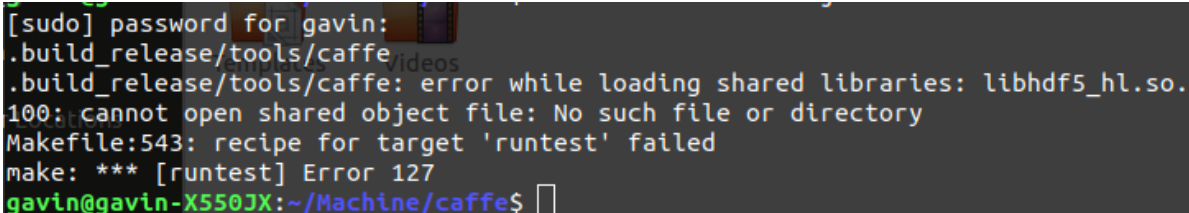


```
gavin@gavin-X550JX:~/Machine/caffe$ sudo make runtest -j4
.build_release/tools/caffe
.build_release/tools/caffe: error while loading shared libraries: libcudart.so.9.0: cannot open shared object file: No such file or directory
Makefile:543: recipe for target 'runtest' failed
make: *** [runtest] Error 127
gavin@gavin-X550JX:~/Machine/caffe$
```

解决方案1:[链接](#)

解决方案2:[链接](#)

3. sudo make runtest -j4 编译出现问题



```
[sudo] password for gavin:
.build_release/tools/caffe
.build_release/tools/caffe: error while loading shared libraries: libhdf5_hl.so.100: cannot open shared object file: No such file or directory
Makefile:543: recipe for target 'runtest' failed
make: *** [runtest] Error 127
gavin@gavin-X550JX:~/Machine/caffe$
```

解决方案1:[链接](#)

修改后: `sudo cp -s /home/gavin/anaconda3/pkg/hdf5-1.10.2-hba1933b_1/lib/libhdf5_hl.so.100 /usr/lib/libhdf5_hl.so.100`

4. sudo make runtest -j4 编译出现问题

```
gavin@gavin-X550JX:~/Machine/caffe$ sudo make runtest -j4
. build_release/tools/caffe
. build_release/tools/caffe: error while loading shared libraries: libcudnn.so.7:
cannot open shared object file: No such file or directory
Makefile:543: recipe for target 'runtest' failed
make: *** [runtest] Error 127
gavin@gavin-X550JX:~/Machine/caffe$
```

解决方案1: [链接](#)

5. import caffe 出现问题

```
su: Authentication failure
gavin@gavin-X550JX:~$ python
Python 3.6.5 |Anaconda, Inc.| (default, Apr 29 2018, 16:14:56)
[GCC 7.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import caffe
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ModuleNotFoundError: No module named 'caffe'
```

解决方案: [链接](#)

6. import caffe 出现问题

```
gavin@gavin-X550JX: ~
File Edit View Search Terminal Help
gavin@gavin-X550JX:~$ python
Python 3.6.5 |Anaconda, Inc.| (default, Apr 29 2018, 16:14:56)
[GCC 7.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import caffe
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "/home/gavin/Machine/caffe/python/caffe/__init__.py", line 1, in <module>
    from .pycaffe import Net, SGDSolver, NesterovSolver, AdaGradSolver, RMSPropS
olver, AdaDeltaSolver, AdamSolver, NCCL, Timer
  File "/home/gavin/Machine/caffe/python/caffe/pycaffe.py", line 13, in <module>
    from ._caffe import Net, SGDSolver, NesterovSolver, AdaGradSolver,
ImportError: /home/gavin/Machine/caffe/python/caffe/_caffe.so: undefined symbol:
_ZN5boost6python6detail11init_moduleER11PyModuleDefPFvve
>>>
```

解决方案:

7. import caffe

```
gavin@gavin-X550JX:~/Machine/caffe$ python
Python 3.6.5 |Anaconda, Inc.| (default, Apr 29 2018, 16:14:56)
[GCC 7.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import caffe
/home/gavin/anaconda3/lib/python3.6/site-packages/matplotlib/font_manager.py:278
: UserWarning: Matplotlib is building the font cache using fc-list. This may tak
e a moment.
'Matplotlib is building the font cache using fc-list. '
>>>
```

解决方案:

8. 显存问题

```

File Edit View Search Terminal Help
}
I0319 11:18:31.962991 14430 layer_factory.hpp:77] Creating layer mnist
F0319 11:18:31.963063 14430 db_lmdb.hpp:15] Check failed: mdb_status == 0 (2 vs.
0) No such file or directory
*** Check failure stack trace: ***
@ 0x7fdced3e60cd google::LogMessage::Fail()
@ 0x7fdced3e7f33 google::LogMessage::SendToLog()
@ 0x7fdced3e5c28 google::LogMessage::Flush()
@ 0x7fdced3e8999 google::LogMessageFatal::~LogMessageFatal()
@ 0x7fdcedbb2880 caffe::db::LMDB::Open()
@ 0x7fdcedb0c3af caffe::DataLayer<>::DataLayer()
@ 0x7fdcedb0c542 caffe::Creator_DataLayer<>()
@ 0x7fdcedb0bb29 caffe::Net<>::Init()
@ 0x7fdcedb0de53e caffe::Net<>::Net()
@ 0x7fdcedbc16d5 caffe::Solver<>::InitTrainNet()
@ 0x7fdcedbc2ba5 caffe::Solver<>::Init()
@ 0x7fdcedbc2ebf caffe::Solver<>::Solver()
@ 0x7fdceda11c91 caffe::Creator_SGDSolver<>()
@ 0x555b55257058 train()
@ 0x555b55253cf0 main
@ 0x7fdcec1e6b97 libc_start_main
@ 0x555b5525464a _start
Aborted (core dumped)
gavin@gavin-X550JX:~/Machine/caffe$

```

解决方案：[链接](#)

- 测试网络

[链接](#)

```

I0319 12:06:53.748276 16571 caffe.cpp:304] Batch 35, loss = 0.140433
I0319 12:06:53.780966 16571 caffe.cpp:304] Batch 36, accuracy = 1
I0319 12:06:53.781074 16571 caffe.cpp:304] Batch 36, loss = 0.00396757
I0319 12:06:53.813673 16571 caffe.cpp:304] Batch 37, accuracy = 0.98
I0319 12:06:53.813791 16571 caffe.cpp:304] Batch 37, loss = 0.0381075
I0319 12:06:53.848047 16571 caffe.cpp:304] Batch 38, accuracy = 1
I0319 12:06:53.848166 16571 caffe.cpp:304] Batch 38, loss = 0.0158747
I0319 12:06:53.881183 16571 caffe.cpp:304] Batch 39, accuracy = 0.98
I0319 12:06:53.881307 16571 caffe.cpp:304] Batch 39, loss = 0.0489041
I0319 12:06:53.916306 16571 caffe.cpp:304] Batch 40, accuracy = 0.98
I0319 12:06:53.916415 16571 caffe.cpp:304] Batch 40, loss = 0.0401237
I0319 12:06:53.949463 16571 caffe.cpp:304] Batch 41, accuracy = 0.98
I0319 12:06:53.949578 16571 caffe.cpp:304] Batch 41, loss = 0.0537366
I0319 12:06:53.985255 16571 caffe.cpp:304] Batch 42, accuracy = 1
I0319 12:06:53.985368 16571 caffe.cpp:304] Batch 42, loss = 0.0389257
I0319 12:06:54.019116 16571 caffe.cpp:304] Batch 43, accuracy = 0.99
I0319 12:06:54.019237 16571 caffe.cpp:304] Batch 43, loss = 0.016208
I0319 12:06:54.052184 16571 caffe.cpp:304] Batch 44, accuracy = 0.99
I0319 12:06:54.052307 16571 caffe.cpp:304] Batch 44, loss = 0.0381282
I0319 12:06:54.085978 16571 caffe.cpp:304] Batch 45, accuracy = 0.99
I0319 12:06:54.086102 16571 caffe.cpp:304] Batch 45, loss = 0.0306271
I0319 12:06:54.121176 16571 caffe.cpp:304] Batch 46, accuracy = 1
I0319 12:06:54.121292 16571 caffe.cpp:304] Batch 46, loss = 0.0110604
I0319 12:06:54.156205 16571 caffe.cpp:304] Batch 47, accuracy = 1
I0319 12:06:54.156319 16571 caffe.cpp:304] Batch 47, loss = 0.00743864
I0319 12:06:54.191968 16571 caffe.cpp:304] Batch 48, accuracy = 0.97
I0319 12:06:54.192086 16571 caffe.cpp:304] Batch 48, loss = 0.0676722
I0319 12:06:54.227325 16571 caffe.cpp:304] Batch 49, accuracy = 1
I0319 12:06:54.227447 16571 caffe.cpp:304] Batch 49, loss = 0.0130438
I0319 12:06:54.227494 16571 caffe.cpp:309] Loss: 0.0419432
I0319 12:06:54.227540 16571 caffe.cpp:321] accuracy = 0.987
I0319 12:06:54.227591 16571 caffe.cpp:321] loss = 0.0419432 (* 1 = 0.0419432 loss)
gavin@gavin-X550JX:~/Machine/caffe$

```

- 附录(常见问题网上解决方案)

[链接 1](#)

[链接 2](#)