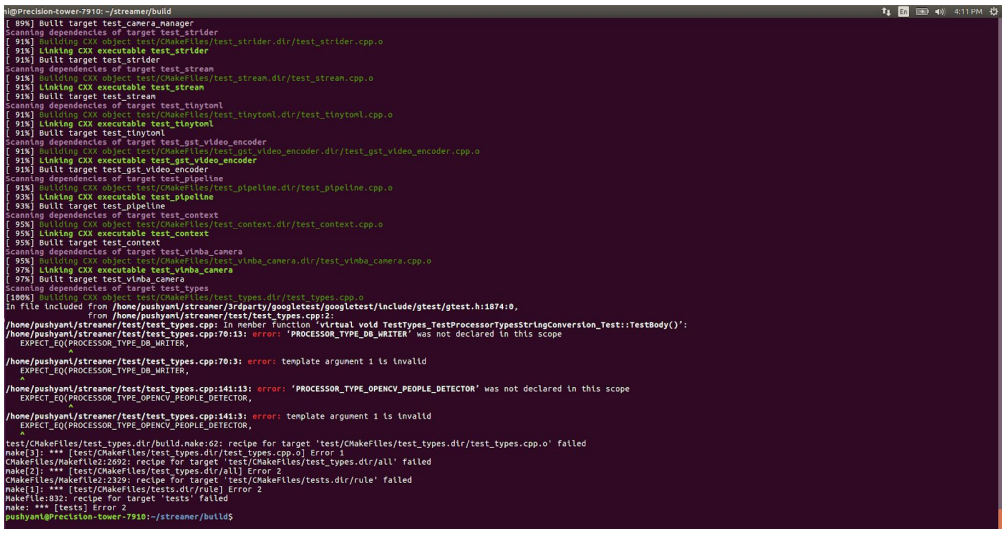
Streamer Installation Issues

Installing Intel Caffe:

We used this https://software.intel.com/en-us/articles/deep-learning-training-and-testing-on-a-single-node-intel-xeon-scalable-processor-system as our installation guide. We were originally unable to get past the **source /opt/intel/mlsl_2017.1.016/intel64/bin/mlslvars.sh** command on the UP board due to dependency issues with gstreamer. Then we tried another installation guide: https://github.com/intel/caffe and https://software.intel.com/articles/training-and-deploying-deep-learning-networks-with-caffe-optimized-for-intel-architecture?utm_source=ISTV&utm_medium=Video&utm_campaign=ISTV_2017#Installation. Here we could not get past the **source ~/.bashrc** command. We eventually tried to use the build_intelcaffe.sh and docker files to build it, which happened successfully, but both ended up having *distribute* folders with only *bin* and *lib*, both of which were empty.

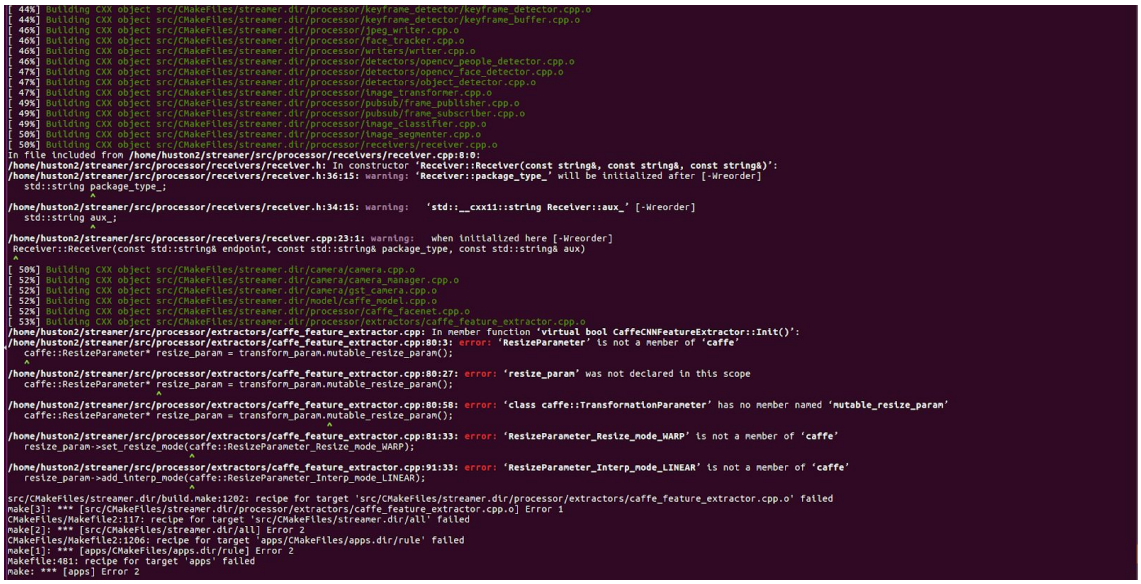
Installing Streamer:

In installing Streamer we first ran into an issue with the **cmake** due our OpenCV version which we fixed by changing line 28 of the *CMakeLists.txt* file to **find_package(OpenCV 4.0 REQUIRED)**. After that, **make** ran fine, but **make tests** run into this issue:



This we fixed by simply commenting the lines out. After this, **make test** runs fine.

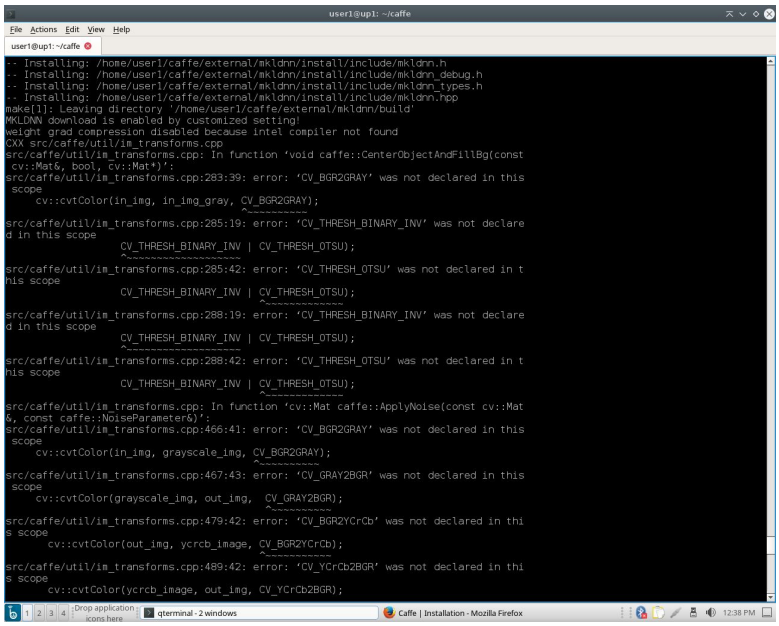
After this, we attempted to run some examples and ran **make apps** (*following the **cmake** command for step 3 on 'Run basic image classification*), which ran into this issue:



Tried to fix using -DUSE_SSD=OFF but the error still happened.
Without the **cmake** command for step 3, running just **make apps**, we found that the file *apps/classifiers/classifier.cpp* had to be fixed on lines 112 - 115 by #define'ing CV_AA and CV_FONT_HERSHEY_PLAIN outside the function (which we set as 1 and 2 respectively, and then swapped out in their place in the function calls). This successfully built apps.

We then tried to use the Dockerfile (with lines 299, 302, and 303 commented out). And ran into:

Also ran into a different issue (attempting to resolve what was ran to cause it):



Streamer Py errors:

Even after setting the cmake argument to build with python support, as seen:

```
amolj@Precision-tower-7910:~/streamer$ cmake -DCMAKE_BUILD_TYPE=Release -DBACKEND=cpu -DTEST_ON=yes -D USE_PYTHON=yes ..
```

And seeing the corresponding option respected in the cmake summary:

```
-- ****************** streamer Configuration Summary ******************
-- General:
--   Version           :
--   Git               :   704fe98-dirty
--   System            :   Linux
--   On Tegra          :   No
--   Compiler          :   /usr/bin/c++ (ver. 5.4.0)
--   Release CXX flags :   -O3 -DNDEBUG
--   Debug CXX flags   :   -g
--   Build type        :   Release
--
-- Options:
--   BACKEND           :   cpu
--
--   USE_CAFFE         :   No
--   USE_TENSORFLOW    :   No
--   USE_PTGRAY        :   No
--   USE_VIMBA         :   No
--   USE_RPC           :   No
--   USE_FRCNN         :   No
--   USE_STRUCK        :   No
--   USE_NCS           :   No
--   USE_VDMS          :   No
--   USE_SSD           :   No
--   USE_ISAAC         :   No
--   USE_PYTHON        :   Yes
--
```

Every single python program fails to find the streamer module:

It’s a similar problem with the programs in the python folder, as they end up complaining about missing modules:

```
amolj@Precision-tower-7910:~/streamer/examples/python$ ls
streamerpy_classifier1.py  streamerpy_classifier3.py  streamerpy_detector2.py  streamerpy_opencv1.py  streamerpy_opencv3.py    streamerpy_
streamerpy_classifier2.py  streamerpy_detector1.py    streamerpy_detector3.py  streamerpy_opencv2.py  streamerpy_pipeline1.py  streamerpy_
amolj@Precision-tower-7910:~/streamer/examples/python$ python2 streamerpy_classifier1.py
Traceback (most recent call last):
  File "streamerpy_classifier1.py", line 3, in <module>
    import streamerpy
ImportError: No module named streamerpy
amolj@Precision-tower-7910:~/streamer/examples/python$ python streamerpy_classifier1.py
Traceback (most recent call last):
  File "streamerpy_classifier1.py", line 3, in <module>
    import streamerpy
ImportError: No module named streamerpy
amolj@Precision-tower-7910:~/streamer/examples/python$ python streamerpy_opencv1.py
Traceback (most recent call last):
  File "streamerpy_opencv1.py", line 3, in <module>
    import streamerpy
ImportError: No module named streamerpy
amolj@Precision-tower-7910:~/streamer/examples/python$ python2 streamerpy_opencv1.py
Traceback (most recent call last):
  File "streamerpy_opencv1.py", line 3, in <module>
    import streamerpy
ImportError: No module named streamerpy
amolj@Precision-tower-7910:~/streamer/examples/python$
```

```
amolj@Precision-tower-7910:~/streamer/python$ ls
__init__.py  requirements.txt  streamer  streamer
amolj@Precision-tower-7910:~/streamer/python$ pyt
Traceback (most recent call last):
  File "streamer_example.py", line 2, in <module>
    import streamer.camera
  File "/home/amolj/streamer/python/streamer/camer
    import core
  File "/home/amolj/streamer/python/streamer/core
    import requests
ImportError: No module named requests
amolj@Precision-tower-7910:~/streamer/python$
```