I cannot find a functional caffe1 android android/interface. No documentation to how to integrate caffe with android

Found a page describing integration of caffe2 with android, but hiai tools cannot convert caffe2.

Cannot support caffe2 with hiai tools

Is it possible to work with caffe2

We would like to compare the performance between caffe running under native android device vs running under hiai foundation base Huawei device. We were able to run caffe under hiai foundation based Huawei.

Cannot optimize accuracy using caffe model converted to HiAi, the accuracy is very low

Table: (all are mobilenet\_v2 and converted to HiAi .om models)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Caffe Model | | Tensorflow Model | |
|  | Tested | Expected from URL | Tested | Expected from URL |
| Accuracy | 40.38% | 71.90% | 72.59% | 70.80% |
| Processing time | 3.69ms | N/A | 3.38ms | 6.9ms |

Caffe model came from opensource: <https://github.com/shicai/MobileNet-Caffe>

Converted the model as listed in the documentation using the HiAi OMG tool to produce the caffe.om model.

Used the resulting model in a HiAi enabled application for image inferencing using 104 images as testing

End result: 40.38%

Expected: 71.90%

Tensorflow model came from opensource: <https://www.tensorflow.org/lite/guide/hosted_models>

Converted the model as listed in the documentation using the HiAi OMG tool to produce the tensorflow.om model.

Used the resulting model in a HiAi enabled application for image inferencing using 104 images as testing

End result: 72.59%

Expected: 70.80%

I have 2 questions:

Why is the converted caffe model so inaccurate?

Is there a way to run caffe2 model with HiAi foundation?