Internship Project Topics

Feature Request for Operators

- 1. Operator Backward FC double differentiation (2nd order)
 - a. Model WGANs
 - b. Issue https://github.com/apache/incubator-mxnet/issues/12529
- 2. Statistical Operators (numpy mean, variance, StD) ON HOLD since no apparent need
 - a. Issue https://github.com/apache/incubator-mxnet/issues/12319
- 3. randint (eric haibin lin)
 - a. Issue https://github.com/apache/incubator-mxnet/issues/11218
- 4. FFT operator extension to 2D arrays
 - a. Issue https://github.com/apache/incubator-mxnet/issues/11279
- 5. SoftmaxCrossEntropyLoss enhancement:
 - a. https://github.com/apache/incubator-mxnet/issues/10799

Deep Engine team (Q3 requirement) (mail from Lin)

- Upsampling
- Hardmax

GPU FP16 -

- 1. InstanceNorm https://github.com/apache/incubator-mxnet/issues/12302
- 2. SyncBatchNorm (Hao working on it) https://github.com/apache/incubator-mxnet/issues/12257

Operators for debugging:

- https://github.com/apache/incubator-mxnet/issues/12623
- https://github.com/apache/incubator-mxnet/issues/9721