**Prerequisites.**

WINDOWS 7-10

AMD APP SDK

Visual Studio 2013

Latest AMD display driver.

**Build and run.**

1. The project solution is in …\apcLibs\aDNN\aLibDNN\aLibDNN.sln
2. Make sure you are on Debug configuration, x64 active solution platform.
3. Setup up aLibDNNDriver project as a “Start up” project.
4. Build the solution.
5. Start application.

**Running from the command line.**

>cd …/apcLibs/aDNN/bin

>SET PATH=..\..\clBlas\bin;%PATH%

>aDNNDriver [application arguments]

**Application arguments.**

-h help.

-ni # of iterations, default=400, max = 430, if -lt==true, it's set to 1.

-li # of per layer iterations, default=1000, if -nt==true, it's set to 1.

-bz # of batches, default=100.

-ic # of input channels, default=3.

-iw input width, default=32.

-ih input height, default=32.

-l per layer timing, default=false.

-n net timing, default=true, it has a priority over the per layer timing, when set it’s false.

-v verify each layer with CPU back-end.

**Samples.**

OpenVX convolution layer binding.

Stand-alone convolution node running with triple buffering.

Following stand-alone nodes:

1. Convolutional 2D,
2. Neuron,
3. Pooling,
4. Normalization LRN,
5. Fully connected,
6. Softmax with cross entropy loss.

A pipeline of 13 nodes with different parameters emulating the cuDNN binding

A Net consisting of 13 nodes emulating the CAFFEE binding.