**Initial Requirements**

1. To build Tensorflow with GPU-enabled first you need to install CUDA and cuDNN dependencies

(To install these dependencies please refer link <http://www.nvidia.com/object/gpu-accelerated-applications-tensorflow-installation.html>)

* + 1. **CUDA -**
* We have installed cuda-8.0 version (please see below)

$ wget https://developer.nvidia.com/compute/cuda/8.0/Prod2/local\_installers/cuda-repo-rhel7-8-0-local-ga2v2-8.0.61-1.ppc64le-rpm

$ sudo rpm -i cuda-repo-rhel7-8-0-local-ga2v2-8.0.61-1.ppc64le-rpm

$ sudo yum clean all

$ sudo yum install cuda

* + 1. **cuDNN –**
* Once the CUDA Toolkit is installed, download [cuDNN v5.1 Library](https://developer.nvidia.com/cudnn) for Linux (note that you will need to register for the [Accelerated Computing Developer Program](https://developer.nvidia.com/accelerated-computing-developer)). - See more at: <http://www.nvidia.com/object/gpu-accelerated-applications-tensorflow-installation.html>
* Please download cuDNN-v5.1-Library for power8
* We have downloaded cuDNN-5.1 library from link <https://developer.nvidia.com/compute/machine-learning/cudnn/secure/v5.1/prod_20161129/8.0/cudnn-8.0-linux-ppc64le-v5.1-tgz>
* Once downloaded, uncompress the files and copy them into the CUDA Toolkit directory (assumed here to be in /usr/local/cuda/):

$ sudo tar -xvf cudnn-8.0-linux-ppc64le-v5.1.tgz -C /usr/local

1. Also you required three patches to build Tensorflow 1.0.1 on ppc64le using build script.

* We are providing these patches along with the script in patches.zip file
* Please keep these patches on correct location while running the build script, otherwise build will fail

- Suppose your TF build script is copied inside the /home/tf directory, then extract the patches.zip file and put all three patches inside the /home/tf/patches directory.

1. **To install libstdc++-static dependency we need to enable one optional repository i.e. rhel-7-for-power-le-optional-beta-rpms**