1. Launch EC2 Instance:



2. Copy your hpl-2.3.tar.gz file to the host:

pscp -i C:\[...]\.ssh\CS205-key.ppk C:\[...]\hpl-2.3.tar.gz

ubuntu@ec2-xxx-xxx-xxx-xxx.us-east-2.compute.amazonaws.com:/home/ubuntu/

3. Unzip and rename the directory:

gunzip hpl-2.3.tar.gz; tar -xvf hpl-2.3.tar mv hpl-2.3 hpl

4. Install the following packages:

sudo apt-get update sudo apt-get install make sudo apt-get install libblas-dev liblapack-dev sudo apt-get install libatl<u>as-base-dev</u>

sudo apt-get install libcr-dev mpich mpich-doc

5. Edit the /etc/hosts file:

You will need to add the internal hostname and IP address for your AWS virtual to the /etc/hosts file on the virtual machine. You can find the internal hostname and IP address on the ECS instance manager. The /etc/hosts file is write restricted, so you will need to use sudo. For example,

sudo emacs /etc/hosts

127.0.0.1 localhost

xxx.xxx.xxx ip-xxx-xxx-xxx

The following lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

ff02::3 ip6-allhosts

6. Create Make.UNKNOWN as following:

cd hpl/setup chmod +x make_generic

./make_generic

7. Move Make.UNKNOWN to the top directory and install hpl:

cd.

mv ./setup/Make.UNKNOWN ./Make.UNKNOWN

make arch=UNKNOWN

8. See if it runs!

cd bin/UNKNOWN

9. Use the parameters in HPL.dat to tune the benchmark (More info in the TUNING file... I'll let YOU read!)