# Getting Started with PENTRAN Tools

On **mc2 AND aun** nodes:

In your `~/.bash_profile`, append the following line

```
source /gpfs/lb/sets/cahrens/bash_profile
```

This will provide the tuned setting for using PENTRAN and related tools


General guidelines

On Ubuntu Linux terminal,

Log into bluem with '-Y' for X11 tunneling:

- ssh -Y username@bluem

Also, when logging into either 'mc2' or 'aun' (also allow tunneling):

- ssh -Y mc2


Things to know about the bluem cluster:

http://hpc.mines.edu/bluem/description.html

bluem consists of 2 partitions

1. mc2 - IBM Blue Gene Q - 512 nodes x 16 CPUs per node = 8,192 cores
   a. 1GB per CPU

   b. <u>We will be running PENTRAN on the mc2 (BGQ) cluster</u>

2. aun - iDataplex (intel) - 144 x 16 CPUs per node = 2,304 cores
   a. 4GB per CPU
   b. PENMSH needs to use aun because DISLIN graphics support is intel-based