# 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
   1. 1GB per CPU
   2. We will be running PENTRAN on the mc2 (BGQ) cluster
2. aun - iDataplex (intel) - 144 x 16 CPUs per node = 2,304 cores
   1. 4GB per CPU
   2. PENMSH needs to use aun because DISLIN graphics support is intel-based