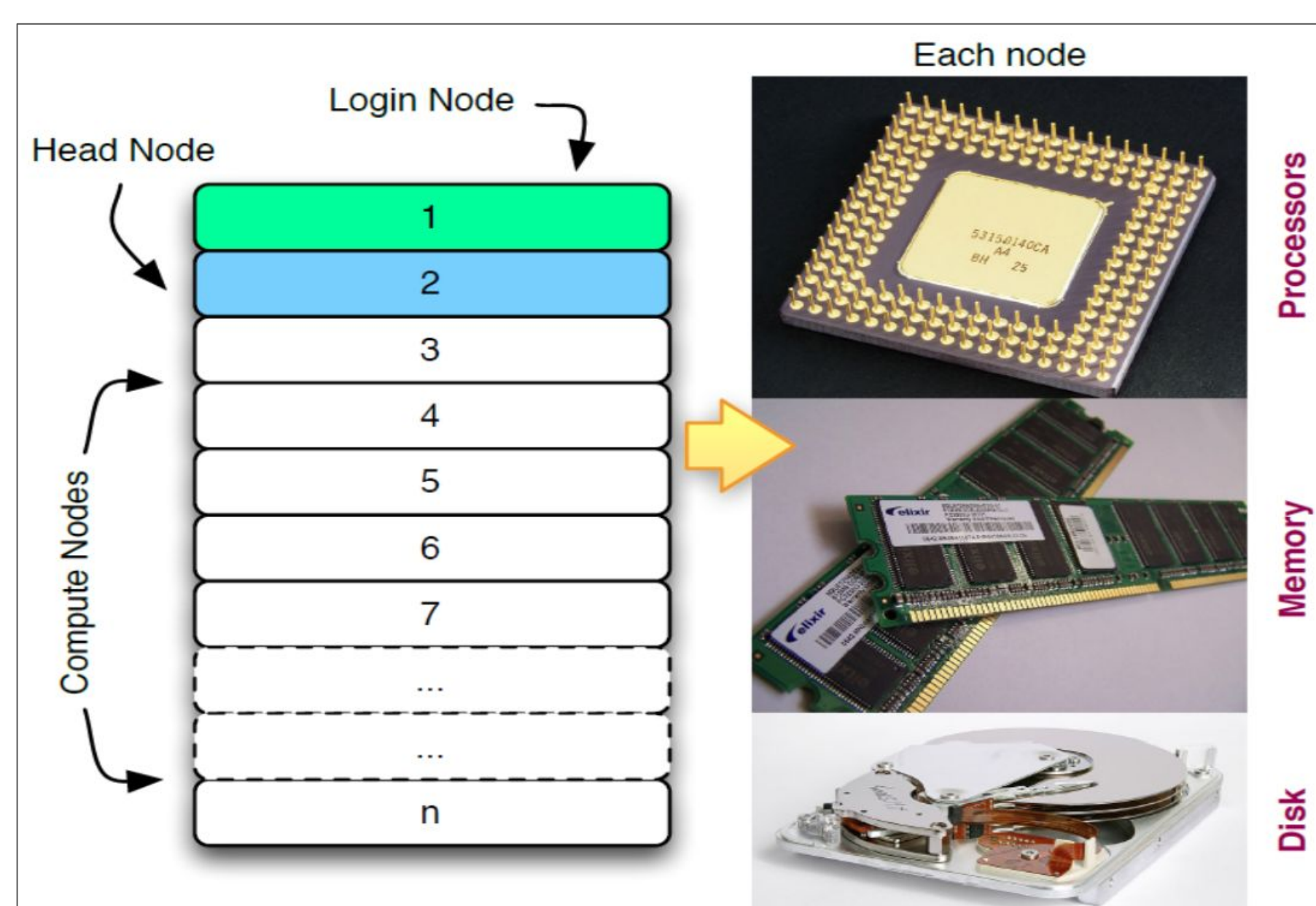# Unix for HPC

🕐 2 days   🛠 No Prerequisites   📍 At your campus   💲 No cost to members


```
1  #!/bin/bash
2  # Request resources
3  # * 10 minutes wall time to run
4  #PBS -l walltime=00:10:00
5  # * 1 node, 1 processor
6  # * 100 megabytes physical memory allocated t
7  #PBS -l select=1:ncpus=1:mem=100mb
8  # Specify a project code (for accounting)
9  #PBS -P a40
10 # Set email address
11 #PBS -M nobody@intersect.org.au
12 # Send an email when jobs
13 # begins (b), gets aborted (a)
14 # and ends (e)
15 #PBS -m abe
16 # Move to directory job was submitted in
17 cd $PBS_O_WORKDIR
18 # Specify the job to be done
19 date
20 sleep 60
21 date
```

📅 **Day 1**

Get a solid grounding in the
Unix command line

📅 **Day 2**

Transfer data to a supercomputer
Write and run scripts to analyse data
Learn how to apply for ongoing access

Why do this course?

Is your computer's limited power throttling your research ambitions? Are your analysis scripts pushing your laptop's processor to its limits? Is your software crashing because you've run out of memory? Would you like to unleash to power of the Unix command line to automate your analysis and then apply those skills to run your analysis on supercomputers that you can access for free?

High-Performance Computing (HPC) allows you to accomplish your analysis faster by using many parallel CPUs and huge amounts of memory simultaneously. This 2-day course will introduce you to the Unix environment and show you how to transfer your data onto, and run software on HPC infrastructure.

You'll learn how to:

- Use the the Unix command line to work with HPC
- Get your data onto a supercomputer
- Run analysis on a supercomputer using batch jobs
- Access the facilities available to you as a researcher

Even if you're not ready to use HPC yet, the course makes a great primer for anyone wanting to start using GNU/Linux and other Unix-like systems

The Intersect approach to training

At Intersect, we work closely with our member universities to develop and deliver training that targets the day-to-day software and technology problems that researchers face. We deliver hands-on courses in a relaxed setting with knowledgeable, helpful trainers who are themselves researchers and who know how researchers work.

For more information visit
Learn.intersect.org.au

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