

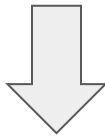
Scaling Out My Computing

Your Research

Describe your research in one sentence:

Your Computing Needs

What is a typical computation for you? (e.g. simulations, data analyses, software, etc.)



What do you need to run **one** computation?

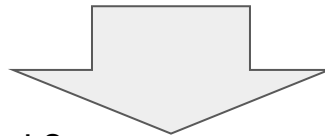
Time	
Cores	
How much memory?	
How much data?	
Anything else?	

How many times do I need to run a typical computation?

Are there multiple steps involved?

Yes

No



Which of the above is a major bottleneck?

Where Does Your Work Fit?

High Throughput Computing

- Tasks are independent of each other
- One computer (node) / task
- 1-20 cores/ task
- GPUs

High Performance Computing

- Tasks need to communicate with each other
- Multi-computer (MPI)
- Multi-core (20+ cores/task)
- Few, but large tasks