Submitting jobs to Bridges

- As described in the Bridges user guide under “Running Jobs”, you can submit a job to the cluster using a batch script
- Bridges uses the SLURM (Simple Linux Utility for Resource Management) scheduler
- A batch job consists of
  - a line that describes the shell, e.g. `!#/bin/bash’
  - SLURM directives that describe job properties, starting with `#SBATCH’
    - many directives can be command-line arguments, but it is generally better to save job properties into the job script
    - other schedulers will have different directives
  - executable commands, details of which will depend on the shell
  - optionally, comments after `#’

- SLURM has its own commands (https://slurm.schedmd.com/quickstart.html)
- Let's try two simple ones
  - sinfo - information about the Bridges partitions. We want "RM-small" for our first job. Shorter jobs can be squeezed in between longer jobs.
  - squeue - lists jobs currently on the queue