

Running on Vesta

Logging in

- `ssh -Y (username)@vesta.alcf.anl.gov`
- Type personal PIN number and number shown on CRYPTOCARD plus return.

Directory structure and file space

- Home directory is `/home/(username)` — Store important files here
- **myquota** — Checks available disk space in home (50 GB max.)
- Projects directory is `/projects/(project name)` — Run jobs from these directories
- **myprojectquotas** — Checks available disk space in projects (500 GB max.)

Running jobs

- Cobalt scheduler manages jobs submission
- **qstat** — Lists all jobs in the queue
- <http://status.alcf.anl.gov/vesta/activity> web site shows status of machine
- **qsub** (Cobalt script) — Submits Cobalt script file to scheduler
- Request cores in groups of 32 (no more than one group of 32 during the labs!!!)
- Time limit: 2 hours
- Three output files from scheduler:
 - `(job prefix).cobaltlog`
 - `(job prefix).output`
 - `(job prefix).error`
- **qdel** (job ID number) — Deletes submitted job by ID number