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SLURM Useful Commands

Man pages exist for all SLURM commands and API functions. The command option `-help` also provides a brief summary of options. Note that the command options are all case insensitive.

Submission

sbatch	is used to submit a job script for later execution. The script will typically contain one or more <code>srun</code> commands to launch parallel tasks.
salloc	is used to allocate resources for a job in real time. Typically this is used to allocate resources and spawn a shell. The shell is then used to execute <code>srun</code> commands to launch parallel tasks.
srun	is used to submit a job for execution or initiate job steps in real time. <code>srun</code> has a wide variety of options to specify resource requirements, including: minimum and maximum node count, processor count, specific nodes to use or not use, and specific node characteristics (so much memory, disk space, certain required features, etc.). A job can contain multiple job steps executing sequentially or in parallel on independent or shared nodes within the job's node allocation.
scancel	is used to cancel a pending or running job or job step. It can also be used to send an arbitrary signal to all processes associated with a running job or job step.

Reporting

sinfo	reports the state of partitions and nodes managed by SLURM. It has a wide variety of filtering, sorting, and formatting options.
squeue	reports the state of jobs or job steps. It has a wide variety of filtering, sorting, and formatting options. By default, it reports the running jobs in priority order and then the pending jobs in priority order.
scontrol	uses to view job's state. eg. <code>scontrol show job <job#id></code>
sstat	displays various status information of a running job/step.
sview	is a graphical user interface to get and update state information for jobs, partitions, and nodes managed by SLURM.
sprio	views the factors that comprise a job's scheduling priority

Additionaln information

More information on batch systems can be found on the Internet. We recommend visiting the following pages (keep in mind that some information may not apply to the ICI-SC environment):

- [SLURM example job scripts @ Leibniz-Rechenzentrum Support Page](#)
- [SLURM Quick Start User Guide](#)
- [SLURM Commands](#) and a [pdf cheatsheet](#).

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