

Job Submission
salloc - Obtain a job allocation.
sbatch - Submit a batch script for later execution.
srun - Obtain a job allocation (as needed) and execute an application.

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	Job array specification. (sbatch command only)	Account to be charged for resources used.	Initiate job after specified time.	Cluster(s) to run the job. (sbatch command only)	Required node features.	Number of CPUs required per task.	Defer job until specified jobs reach specified state.	File in which to store job error messages.	Specific host names to exclude from job allocation.	Allocated nodes can not be shared with other jobs/users.	Export identified environment variables.	Generic resources required per node.	File from which to read job input data.	Job name.	Prepend task ID to output. (srun command only)	License resources required for entire job.
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and de la companie	array= <indexes> (e.g. "array=1-10")</indexes>	account= <name></name>	begin= <time> (e.g. "begin=18:00:00")</time>	clusters= <name></name>	constraint= <features></features>	cpus-per-task= <count></count>	dependency= <state:jobid></state:jobid>	error= <filename></filename>	exclude= <names></names>	exclusive[=user]	export= <name[=value]></name[=value]>	gres= <name[:count]></name[:count]>	input= <name></name>	job-name= <name></name>	label	licenses= <name[:count]></name[:count]>

mem= <mb></mb>	Memory required per node.	
mem-per-cpu= <mb></mb>	Memory required per allocated CPU.	
-N <minnodes[-maxnodes]></minnodes[-maxnodes]>	Node count required for the job.	
-n <count></count>	Number of tasks to be launched.	
nodelist= <names></names>	Specific host names to include in job allocation.	
output= <name></name>	File in which to store job output.	
partition= <names></names>	Partition/queue in which to run the job.	
qos= <name></name>	Quality Of Service.	
signal=[B:] <num>[@time]</num>	Signal job when approaching time limit.	
time= <time></time>	Wall clock time limit.	
wrap= <command_string></command_string>	Wrap specified command in a simple "sh" shell. (sbatch command only)	

Accounting sacct - Display accounting data.



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Output delimited by "
Commands: add <entity> <specs> create <entity> <specs></specs></entity></specs></entity>
delete < <i>ENTITY></i> where < <i>SPECS></i>
list <entity> [<specs>]</specs></entity>
modify <entity> where <specs></specs></entity>

Entities:

account	Account associated with job.
cluster	ClusterName parameter in the slurm.conf.
sob	Quality of Service.
user	User name in system.

Job Management sbeast - Transfer file to a job's compute nodes.

sbcast [options] SOURCE DESTINATION

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force	Replace previously existing file.
preserve	Preserve modification times, access times, and access permissions.

scancel - Signal jobs, job arrays, and/or job steps.

account= <name></name>	Operate only on jobs charging the specified account.
name= <name></name>	Operate only on jobs with specified name.
partition= <names></names>	Operate only on jobs in the specified partition/queue.
dos= <name></name>	Operate only on jobs using the specified quality of service.

Operate only on jobs using the specified reservation.	Operate only on jobs in the specified state.	Operate only on jobs from the specified user.	Operate only on jobs using the specified compute nodes.
Operate on specified re	Operate on state.	Operate only o specified user.	Operate on specified or
-reservation= <name> Operate only on jobs using the specified reservation.</name>	state= <names></names>	user= <name></name>	nodelist= <names></names>

squeue - View information about jobs.

account= <name></name>	View only jobs with specified accounts.
clusters= <name></name>	View jobs on specified clusters.
format= <spec> (e.g. "-format=%i %j")</spec>	Output format to display. Specify fields, size, order, etc.
jobs <job_id_list></job_id_list>	Comma separated list of job IDs to display.
name= <name></name>	View only jobs with specified names.
partition= <names></names>	View only jobs in specified partitions.
priority	Sort jobs by priority.
qos= <name></name>	View only jobs with specified Qualities Of Service.
	Report the expected start time and resources to be allocated for pending jobs in order of increasing start time.
state= <names></names>	View only jobs with specified states.
users= <names></names>	View only jobs for specified users.
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sinfo - View information about nodes and partitions.

Display information about all partitions.	If set, only report state information for non-responding (dead) nodes.	
all	dead	

format= <spec></spec>	Output format to display.
iterate= <seconds></seconds>	Print the state at specified interval.
long	Print more detailed information.
Node	Print information in a node-oriented format.
partition= <names></names>	View only specified partitions.
reservation	Display information about advanced reservations.
-R	Display reasons nodes are in the down, drained, fail or failing state.
state= <names></names>	View only nodes specified states.

scontrol - Used view and modify configuration and state. Also see the **sview** graphical user interface version.

details	Make sl	pow c	Make show command print more details.	nore details.
oneliner	Print in:	forma	Print information on one line.	
Commands:				
create SPECIFICATION	IFICATI	NO	Create a new partition or	artition or
delete SPECIFICATION	IFICATI	NO	Delete the entry with the specified SPECIFICATION	y with the CIFICATION
reconfigure			All Slurm daemons w the configuration file.	All Slurm daemons will re-read the configuration file.
requeue JOB_LIST	LIST		Requeue a running, s completed batch job.	Requeue a running, suspended or completed batch job.
show ENTITY ID	Y ID		Display the state of the sentity with the specified identification	Display the state of the specified entity with the specified identification
update SPECIFICATION	TFICAT	NOI	Update job, step, node, pa or reservation configuration the supplied specification.	Update job, step, node, partition, or reservation configuration per the supplied specification.

Environment Variables

Set to the job ID if part of job array.	
SLURM_ARRAY_JOB_ID	

SLURM_ARRAY_TASK_ID	Set to the task ID if part of a job array.
SLURM_CLUSTER_NAME	Name of the cluster executing the job.
SLURM_CPUS_PER_TASK	Number of CPUs requested per task.
SLURM_JOB_ACCOUNT	Account name.
SLURM_JOB_ID	Job ID.
SLURM_JOB_NAME	Job Name.
SLURM_JOB_NODELIST	Names of nodes allocated to job.
SLURM_JOB_NUM_NODES	Number of nodes allocated to job.
SLURM_JOB_PARTITION	Partition/queue running the job.
SLURM_JOB_UID	User ID of the job's owner.
SLURM_JOB_USER	User name of the job's owner.
SLURM_RESTART_COUNT	Number of times job has restarted.
SLURM_PROCID	Task ID (MPI rank).
SLURM_STEP_ID	Job step ID.
SLURM_STEP_NUM_TASKS	Task count (number of MPI ranks).

Daemons

Executes on cluster's "head" node to manage workload.	Executes on each compute node to locally manage resources.	Manages database of resources limits, licenses, and archives accounting records.
slurmctld	slurmd	slurmdbd

