[illegible]

Slurm

[illegible]

[illegible]	[illegible]
`squeue --me` ([illegible] `squeue -u $USER`)	[illegible]
`scontrol show job JOBID`	[illegible]
`sacct`	[illegible]
`sacct -j JOBID -l`	[illegible] CPU [illegible]
`tail -f slurm-JOBID.out`	[illegible] Slurm [illegible] `bpeek` [illegible]
`scancel JOBID`	[illegible]
`scancel -u $USER`	[illegible]
`scontrol top JOBID`	[illegible]
`scontrol hold JOBID`	[illegible]
`scontrol release JOBID`	[illegible]

[illegible]

`squeue` [illegible] `sacct` [illegible]

[illegible] ([illegible])	[illegible]
PENDING (PD)	[illegible]

□□ (□□)	□□
CONFIGURING (CF)	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□
RUNNING (R)	□□□□□□□□□□□□□□□
COMPLETING (CG)	□□□□□□□□□□□□□□□□□□□□□□□
COMPLETED (CD)	□□□□□ 0 □□□□□□□□□□□□□□□□□
FAILED (F)	□□□□□□□□□□□□□□□□□□□□□□□□□□□
CANCELLED (CA)	□□□□□□□□□□□□□□□□□ `scancel` □□□□
TIMEOUT (TO)	□□□□□□□□□□□□□□□□□ (`-t`)□□□□□□□□□□
OUT_OF_MEMORY (OOM)	□□□□□□□□□□□□□□□□□□□□□□□□ OOM Killer □□□
SUSPENDED (S)	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□
NODE_FAIL (NF)	□□□□□□□□□□□□□□□□□□□□□□□□□□□
UNKNOWN (UN)	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□ `scancel` □□□□□

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□ LSF □□□□□□ `bwait` □□□□ Slurm □□ □□□ **Shell** □□□□□ **`while`** □□□ **`squeue`** □□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□

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□□□□□□□ (`--wait`)

□□ `-W, --wait` □□□

```
sbatch -W job.slurm
```

□□□□□□□□□□□ `job.slurm` □□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□ (`--dependency`)

□□□□□□□□ B □□□□□ A □□□□□□□□□□□□□□□ B □□□□□□□□□□□□□□□□

```
# □□□□□□□ A □□□□□ JOBID □ 10001
sbatch --dependency=afterok:10001 job_B.slurm
```

□□ B □□□□□□□ `Dependency` □□□□□□ `PENDING` □□□□□□ A □□□□□□□ B □□□□□□□□□□□□□□□

□□□□□□□□□□□□ (□□□□□□)

□□□□□□□□□□□□ Shell □□□□□□□□□□ □□□□□□□□□□□ □□□□□ JOBID `10001` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `--wait` □

```
sbatch -W --dependency=afterany:10001 --wrap="exit 0"
```

□□□□ Shell □□□□□□□□ `10001` □□□□□□□□□□□□□□□□□□□□□□□□□□□□ Shell □□□□□□□□□□□□□□□□ `bwait` □□□□□□□□□□□□

LSF

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□□	□□
`bjobs`	□□□□□□□□□□
`bjobs -l JOBID`	□□□□□□□□□□□□
`bhist`	□□□□□□□□□□□□
`bhist -l JOBID`	□□□□□□□□□□□□□□
`bpeek JOBID`	□□□□□□□□□□□ stdout/stderr
`bkill JOBID`	□□□□□□
`btop JOBID`	□□□□□□□□
`bbot JOBID`	□□□□□□□□

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`bjobs` □□□□□□□□□□□□□□□

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PEND	□□□□□□□□□□□□□□□□□□□□□□□□
PROV	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ sbatchd□□□□□□□ PROV□□□
PSUSP	□□□□□□□□□□□□□□□□□□□□□□□□ LSF□□□□□□□□
RUN	□□□□□□□□□□
USUSP	□□□□□□□□□□□□□□□□□□□□□□□□ LSF□□□□□□□□
SSUSP	□□□ LSF□□□
DONE	□□□□□ 0□□□
EXIT	□□□□□□□□□□□
UNKWN	□□□□□□□□□□□□□□□□□□□□□□□□ UNKWN □□□□□□□ □□□□□□□□□□□□□□□□□□□□□□ ① □□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□ □□□□□□□□□□□□□□□□ ② □□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□ □□□□□□□□□□
WAIT	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
ZOMBI	①□ sbatchd□□□□□□□□□□□□□□□□□□□□□□□□ `bkill` □□□ □□□□□□□□ UNKWN□ ② □□□□□□□□□□□□□□□□□□□□□□ LSF □□□□□□□□□□□□□□□□□□□□ ID□□□□□□□□□□□□□ ③□□ □□□□□□□□□ LSF□□□□ ZOMBI□□□ ZOMBI □□□□□□□□□□□ □□□□□□□□ EXIT□ □□ MultiCluster □□□□□□□□□□□□□□□□□□ □□□ ZOMBI□□□□□□□□□□□□□□ ZOMBI □□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□ ZOMBI □□□□□□□□□□□□□□□□□□□□

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```
bwait -w "wait_condition" [-t timeout]
```

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- `-w wait_condition` □□□□□□□□□□□□□□□□□□ `bsub -w` □□□□□□□□
- `-t timeout` □□□□□□□□□□□□□ 1-525600□□□□□□□□□

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