····· Reason ·····

Slurm ····· PENDING····· Reason·····Reason ·····
·····Reason ·····

·····

JOBID ·····PARTITION ····· SNAP ·····Rea
son·····

```
set -euo pipefail
: "${JOBID:?····ID··12345·12345_7}"
: "${PARTITION:?·····}" "${SNAP:?·····}"
[[ "$JOBID" =~ ^[0-9]+(_[0-9]+)?$ ]] || exit 2
test ! -e "$SNAP" && test ! -L "$SNAP" || exit 2
mkdir -p "$(dirname "$SNAP")"; mkdir "$SNAP"
date -Is > "$SNAP/time.txt"
scontrol --version > "$SNAP/slurm-version.txt"
squeue -j "$JOBID" -h -o '%i|%T|%r|%P|%C|%m|%l' > "$SNAP/queue.txt"
scontrol show job "$JOBID" > "$SNAP/job.txt"
scontrol show partition "$PARTITION" > "$SNAP/partition.txt"
if squeue --start -j "$JOBID" > "$SNAP/start-estimate.txt" 2> "$SNAP/start-estimate.err"; then
  printf '%s\n' query_ok > "$SNAP/start-query.status"
else
  printf '%s\n' unavailable > "$SNAP/start-query.status"
fi
if sprio -j "$JOBID" > "$SNAP/priority.txt" 2> "$SNAP/priority.err"; then
  printf '%s\n' query_ok > "$SNAP/priority-query.status"
else
  printf '%s\n' unavailable > "$SNAP/priority-query.status"
fi
```

·· PARTITION·····CPU·····GPU/·····QOS····· Slurm ···
····· task ID·····

·· Reason | ··· | ···

Resources | ·····CPU·GPU····· | ·····

Priority | ····· | ·····

Dependency | ····ID····· | ·····

AssocGrp / QOSMax | ·····QOS·· | ·····

BadConstraints / ···· | ·····GPU····· | ·····

·····

····· GPU·····
····· GPU·····
···

····· CPU ····· CPU ·····
····· JobID·····

·····

squeue --start ·····
··sprio ·····

····· ID····· JobID·····
·····

·····

·····Reason····· Priority ·· Resources·····
····· JobID···/QOS·····
·····

·····
····· Slurm ·····

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SchedMD··Reason····· https://slurm.schedmd.com/job_reason_codes.html

SchedMD··squeue····· https://slurm.schedmd.com/squeue.html

SchedMD··sprio····· https://slurm.schedmd.com/sprio.html

SchedMD··scontrol····· https://slurm.schedmd.com/scontrol.html