

Output environment variables in SLURM

The SLURM controller will set the following variables in the environment of the batch script.

[Documentation for output environment variables in slurm](#)

Most used are:

Variable	
SLURM_ARRAY_JOB_ID	Job array's master job ID number.
SLURM_JOB_ID	The ID of the job allocation.
SLURM_JOBID	New version for the ID of the job allocation
SLURM_JOB_DEPENDENCY	Set to value of the --dependency option
SLURM_JOB_NAME	Name of the job.
SLURM_JOB_NODELIST	List of nodes allocated to the job
SLURM_JOB_NUM_NODES	Total number of nodes in the job's resource allocation
SLURM_JOB_PARTITION	Name of the partition in which the job is running
SLURM_NODELIST	List of nodes allocated to the job
SLURM_SUBMIT_DIR	The directory from which sbatch was invoked

Script to show slurm variables

With the following script you can show the variables numbered in the previous section:

```
#!/bin/bash
#SBATCH -J GNUParallel -o %x-%J.out
#SBATCH --time=00:10:00
#SBATCH --mem-per-cpu=2G
#SBATCH -n 16
#SBATCH -c 4
```

```
#SBATCH --ntasks-per-node=8
#SBATCH --constraint=<node architecture> # sandy, ilk (icelake)... architecture

date
echo "SUBMITTED ON: $SLURM_SUBMIT_HOST IP: $SLURM_LAUNCH_NODE_IPADDR DIR:
$SLURM_SUBMIT_DIR NODES ALLOCATED: $SLURM_JOB_NODELIST"
echo "RUNNING ON: $(hostname) $SLURMD_NODENAME"
echo "JOB_ID: $SLURM_JOB_ID ARRAY_JOB_ID: $SLURM_ARRAY_JOB_ID"
echo "STEP: $SLURM_STEP_ID NODEID: $SLURM_NODEID LOCALID: $SLURM_LOCALID PROCID:
$SLURM_PROCID"
echo "ARRAY_TASK_COUNT: $SLURM_ARRAY_TASK_COUNT ARRAY_TASK_ID:
$SLURM_ARRAY_TASK_ID ARRAY_TASK_MAX: $SLURM_ARRAY_TASK_MAX ARRAY_TASK_MIN:
$SLURM_ARRAY_TASK_MIN ARRAY_STEPSIZE: $SLURM_ARRAY_TASK_STEP"
echo "Args: $*"
sleep 10
```