

# Interactive Sessions

Slurm allow interactive sessions into the workernodes, using ssh, but within a valid job allocation, normal ssh are disabled. The interactive session can be created on the scope of normal partitions but those jobs will have the same priority as a regular job.

There is a limitation of 1 job and 1 task per node on partitions **hpc** and **gpu**, we would like to encourage users to close sessions as soon as possible to give all a good chance to use the resources.

“ The *FCT* grant users should use the partition *fct* instead in the examples bellow.

## Starting srun Session

The most simple way to start an interactive session is:

```
[user@cirrus01 ~]$ srun -p hpc --job-name "my_interactive" --pty bash -i
srun: job 72791 queued and waiting for resources
srun: job 72791 has been allocated resources
[user@hpc059 ~]$
```

You will have an ssh session on a worker node were other users are running jobs or interactive sessions as well, try not bother them with unsolicited interactions, and exit the session when you are finished.

“ The *FCT* call users should target the *partition fct* and the *QOS* associate to the user, e.g. "***srun -p fct -q cpcaXXXX2020 ...***", where *XXXX* is the call ID.

The **srun** command have the same restrictions as a normal *job* and will be aborted or refused to run when the system limits are axceeded. If you run the **squeue** you will see your interactive job listed as any other job:

```
[user@hpc059 ~]$ squeue
JOBID PARTITION  NAME  USER ST  TIME  NODES NODELIST(REASON)
```

# Starting salloc Session

The **salloc** is setup to behave like the **srun** command, for example:

```
[user@cirrus01 ~]$ salloc -p hpc --job-name "my_interactive"
salloc: Pending job allocation 72818
salloc: job 72818 queued and waiting for resources
salloc: job 72818 has been allocated resources
salloc: Granted job allocation 72818
salloc: Waiting for resource configuration
salloc: Nodes hpc059 are ready for job
[user@hpc059 ~]$
```

“ Once again the *FCT* call users should target the *partition* **fct** and the *QOS* associate to the user

Revision #9

Created 14 October 2020 19:02:21 by João Paulo Martins

Updated 12 August 2021 16:33:38 by João Paulo Martins