On the cluster you can launch simulations using OAR batch scheduler. Basic commands are :

- **oarsub -I** : submit an interactive job.
- **oarsub -S ./myOARscript** : submit a job using an oar script. (See below some scripts exemples).
- **oarstat** : shows jobs that are currently running or waiting on the cluster.
- **oarsub -C JOB_ID** : logon a node where is running a specific job. **JOB_ID can be obtained using oarstat or a monitoring softaware such as monika or drawgantt.**
- **oardel JOB_ID** : delete a specific job.
- **oarsub -q queue** : submit a job on a specific priority queue. (Check priority queue list on cluster policy web page)
- **oarsub -r "year-month-day hour:min:sec"**: make a ressource reservation at a specific date.

OAR options to launch scripts:

- **-n job_name** : ajouter add a name to your job.
- **-l ressources** : specificy ressources needed. Exemple to compute on a complete node during 24 hours: **-l nodes=1,walltime=24:00:00**
- **-p "ressource_name":** ask for specific ressorces.
- **-O output** : specify the name of output file. Exemple : **-O output.%jobid %.out**.
- **-E error** : specify the name of error file. Exemple : **-E error.%jobid%.out**.
- Here is the link of official OAR documentation.

OAR scripts exemples :

Cluster usage (2 nodes (n20,n21) during 1 hour) : MyFirstScript.sh

```
#!/bin/bash

#OAR -l nodes=2,walltime=01:00:00

#OAR -p "host='n20' AND host='n21'"

#OAR -O 2nodes.%jobid%.out

#OAR -E 2nodes.%jobid%.out

python job.py
```

Usage: oarsub -S ./MyFirstScript.sh