INTI Quick Reference

Connect to INTI

```
$ ssh [-X] mylogin@inti.ocre.cea.fr
```

Get general help

```
$ machine.info
```

Available/reserved partitions for this VI-HPS:

- **“haswell” = bi-sockets, Haswell-E processors E5-2698 v3, 16 cores per socket, 2 threads per core. Main partition for this VI-HPS**
- “knl” = single socket, Knights landing processor Phi 7250 @1,4 Ghz, 68 cores, 4 threads per core. Use it if you want to test your application on a KNL processor with presented tools
- “sandy” = Sandy Bridge nodes. A dedicated partition is reserved for VI-HPS participants in case of failure on “haswell”

Print cluster usage (partitions…)

```
$ ccc_mpinfo
```

MpC: memory/core (MB), CpN: core/node, SpN: socket (NUMA node)/node, CpS: core/socket, TpC: thread/core (always prints 1)

Print available modules

```
$ module avail
$ module avail mpi #filter to MPI modules
```

Print loaded modules

```
$ module list
```

Load/unload modules

```
$ module load/unload intel/16.0.3.210
```

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Interactive session (open a shell on a compute node)

```
$ ccc_mprun -s -p haswell
```

Run a command

```
$ ccc_mprun -p haswell -x -n 8 -c 4 ./bt.C8
```

-x: request exclusive usage of allocated nodes
-n: number of tasks to run
-c: number of cores per task

Submit a job

```
$ ccc_msub <jobscript>
```

Review your pending/running jobs

```
$ ccc_mpp -u mylogin
```

Cancel/kill a job

```
$ ccc_mdel <job ID, as given by ccc_mpp>
```

Misc.:

- **do not execute mpirun** on a login node (use ccc_mprun)
- sinfo, scancel, squeue can be used too
- for outputs and intermediate results, prefer $CCCSCRATCHDIR