

Working on the Jean Zay machine

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1. Introduction

- On-line users manual: <http://www.idris.fr/eng/jean-zay>
- Jean-Zay computing nodes: the nodes of CPU partition have 40 cores each.
 - Intel Cascade Lake nodes for regular computation
 - Partition name: **cpu_p1**
 - CPUs: 2x20-cores Intel Cascade Lake 6248 @2.5GHz
 - Cores/Node: 40
 - Nodes: 1 528
 - Total cores: 61120
 - RAM/Node: 192GB
 - RAM/Core: 4.8GB
- Jean-Zay post-processing nodes : xlarge are free and useful for post-processing operations.
 - Fat nodes for computation requiring a lot of shared memory
 - Partition name: **prepost**
 - CPUs: 4x12-cores Intel Skylake 6132@3.2GHz
 - GPUs: 1x Nvidia V100
 - Cores/Node: 48
 - Nodes: 4
 - Total cores: 192
 - RAM/Node: 3TB
 - RAM/Core: 15.6GB

2. Job manager commands

- `sbatch job ->` submit a job
- `scancel ID ->` kill the job with the specified ID number
- `sacct -u login -S YYYY-MM-DD ->` display all jobs submitted by login, add `-f` to see full job name
- `squeue ->` display all jobs submitted on the machine.
- `squeue -u $(whoami) ->`display your jobs.