

Urblauna

Kesako?

Urblauna (Romanche), or Lagopède Alpin in French, is a bird known for its changing plumage which functions as a very effective camouflage. More information is available at

<https://www.vogelwarte.ch/fr/oiseaux/les-oiseaux-de-suisse/lagopede-alpin>

It's also the name of our new sensitive data compute cluster which will replace the Jura cluster.

Information on how to connect to Urblauna can be [found here](#).

Information on the Jura to Urblauna migration can be [found here](#)

The differences between Jura and Urblauna are [described here](#)

Hardware

Compute

The cluster is composed of 18 compute nodes of which two have GPUs. All have the same 24 core processor.

Number of nodes	Memory	CPU	GPU
16	1024 GB	2 x AMD Epyc3 7443	-
2	1024 GB	2 x AMD Epyc3 7443	2 x NVIDIA A100



The GPUs are partitioned to create 4 GPUs on each machine with 20GB of memory per GPU

Storage

The storage is based on IBM Spectrum Scale / Lenovo DSS and provides 1PB of space in the /data filesystem.

Whilst reliable this space is not backed up and all important data should also be stored on /archive

The Curnagl /work filesystem is visible in read-only mode on Urblauna and can be used to install software on an internet connected system before using it on Urblauna.

Filesystem mount point	**Description**
/users	Urblauna home directory
/scratch	Urblauna scratch space (automatic cleanup)
/data	Urblauna data space (no backup)
/archive	Secure data space with backup (login node access only)
/work	Curnagl data space (read only)
/jura_home	Jura home directories (read only, login node only)
/jura_data	Jura data space (read only, login node only)

Software

For information on the DCSR software stack see the following link:

<https://wiki.unil.ch/ci/books/high-performance-computing-hpc/page/dcsr-software-stack>

Slurm partitions

On Urblauna there are two partitions - "urblauna" and "interactive"

```
$ sinfo
```

```
PARTITION AVAIL TIMELIMIT NODES STATE NODELIST
urblauna* up 3-00:00:00 17 idle sna[002-016],snagpu[001-002]
interactive up 8:00:00 4 idle sna[015-016],snagpu[001-002]
```

There is no separate GPU partition so to use a GPU simply request

```
#SBATCH --gres=gpu:1
```

To launch an interactive session you can use `Sinteractive` as on Curnagl

Révision #17

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