Machine documentation:

login, submission of jobs, job script, copy and transfer files, etc.

https://www.bsc.es/user-support/mn4.php

https://www.bsc.es/user-support/power.php

Submission queues:

Use queues for execution.

bsc queues (command)

#MN4:

nct00008@login1:~> bsc queues

QUEUE NAME	MAX TIME	MAX PROC
debug	02:00:00	768
interactive	02:00:00	4
training	2-00:00:00	768

The maximum number of jobs per user in any queue is 366.

#P9:

[nct00008@p9login1 ~]\$ bsc queues

QUEUE NAME	MAX TIME	MAX PROC
debug	02:00:00	640
training	1-00:00:00	1280
interactive	02:00:00	16

The maximum number of jobs per user in any queue is 366.

Software available:

Use module avail to know which you have, por instance:

module avail gcc

module avail intel

module avail openmpi

module avail cuda

module load cuda/10.2

Specific software AI related:

two software stacks:

- 1) module purge && module load gcc/6.4.0 cuda/9.1 openmpi/3.0.0 atlas/3.10.3 scalapack/2.0.2 fftw/3.3.7 szip/2.1.1 ffmpeg/4.0.2 opencv/3.4.1 cudnn/7.1.3 python/3.6.5_ML
- 2) module purge && module load gcc/8.3.0 cuda/10.2 cudnn/7.6.4 nccl/2.4.8 tensorrt/6.0.1 openmpi/4.0.1 atlas/3.10.3 scalapack/2.0.2 fftw/3.3.8 szip/2.1.1 ffmpeg/4.2.1 opencv/4.1.1 python/3.7.4 ML

> pip3 show keras

Name: Keras
Version: 2.4.0

Summary: Deep Learning for humans

Home-page: https://github.com/keras-team/keras

Author: Francois Chollet

Author-email: francois.chollet@gmail.com

License: MIT

Location: /qpfs/apps/POWER9/PYTHON/3.7.4 ML/lib/python3.7/site-packages

Requires: pyyaml, h5py, numpy, scipy, tensorflow-gpudirect

Required-by: seqeval

You have storage space at:

/gpfs/projects/nct0[0-1]/<username>
/gpfs/scratch/nct0[0-1]/<username>

Any machine problem:

support@bsc.es with cc djimenez@ac.upc.edu