Instructions for Submitting Jobs on OSACA (CY Cergy Paris University)

Step 1:

Open a terminal and execute the following command, then press Enter:

ssh user@osaka.cyu.fr
(Replace 'user' with your actual username.)

Step 2:

You will be prompted to enter your password. Type your password and press Enter.

Step 3:

You are now logged in to osaka.cyu.fr.

Step 4:

Prepare the following input file named test.inp:

!PBE D4 DEF2-SVP OPT

%maxcore 4000

%pal nprocs 8 end

* xyz 0 1

Ν	-0.83911	0.76325	-0.31843
С	0.61442	0.72014	-0.25075
С	1.01669	-0.56167	0.49740
0	0.20095	-1.36984	0.93753
Н	-1.37884	0.05803	0.17605
Н	1.00414	0.66192	-1.27362
С	1.17285	1.95192	0.45211
Н	0.87124	2.87150	-0.05988
Н	0.81191	2.01288	1.48492
Η	2.26726	1.92903	0.48485
Н	-1.30551	1.57618	-0.71069
0	2.33980	-0.77979	0.66176
Η	3.04559	-0.08055	0.28096
*			

Step 5:

Create the following job submission script and save it as sub.sh:

#\$ -N test
#\$ -l m_mem_free=32G
#\$ -pe openmp 8
#\$ -cwd
This is a comment

module load orca/6.0.1 module load openmpi/5.0.5

/usr/local/orca/6.0.1/orca test.inp > test.out

Step 6:

Ensure that both test.inp and sub.sh are in the same directory. Then submit the job by running the following command:

qsub sub.sh

Step 7:

The job is now submitted to the queue. To check the status of your job, type:

qstat

Step 8:

The output of the calculation will be written to the file test.out.