

Hulk presentation

Hulk is a powerful machine destined to the researchers of the XLIM-SIC Laboratory of University of Poitiers. It used for doing big calcul mainly for interactive visualisation of data via opengl distant(virtualgl).

1 Hulk Characteristics

- 46 processors Xeon E5 4650 (in total 368 processors)
- 1.427 To of RAM
- 20 To of stockage scratch

The different compasants are interconnected via a bus Numalink6. Hulk has also two NVIDIA(kepler K20) cards for the visualisation and GPGPU calcul.

2 Usage and connection

The codes must be submitted via an PBS script format. SFTP and Filezilla are two possilities of connection for to put or get files on Hulk server. SSH is the connection mode used for doing calcul on the server.

- Host :hulk.sp2mi.univ-poitiers.fr
- IP : 194.167.50.23
- Port : 86

2.1 connexion to hulk via SFTP

The command line alowing to connect on the server is :
sftp votre_login_de_compte_mail_univ@hulk.sp2mi.univ-poitiers.fr -P 86
cd and ls are used for navigation and moving on the server.
get and put are used for to get or put files on the server.

2.2 connexion to hulk via FileZilla

- Host :hulk.sp2mi.univ-poitiers.fr
- User ID : votre_login_de_compte_mail_univ
- Port : 86
- Password : which created on Hulk
- Port : 86

2.3 connexion to hulk via SSH

The ssh connexion is started by the following command line:

```
ssh votre_login_de_compte_mail_univ@hulk.sp2mi.univ-poitiers.fr -P 86
```

After, for start the computation, all scripts must be submitted via PBS.

2.4 Where write your data on Hulk

All big data (images, videos, results of calcul...) must be dropped in the “scratch” of your principal directory on Hulk

It's necessary to indicate the path of this directory in your code for generating your results files which usually require a big memory space.

If you need to transfer a file, you must archive your results directory by the following command line:

```
tar cvfz mon_archive.tgz mon_dossier_de_resultats/
```

You can remove the option “z” for to speed up the archive process but it will take up more memory space because the archive is not compressed.

```
tar cvf mon_archive.tgz mon_dossier_de_resultats/
```