Working at IDRIS

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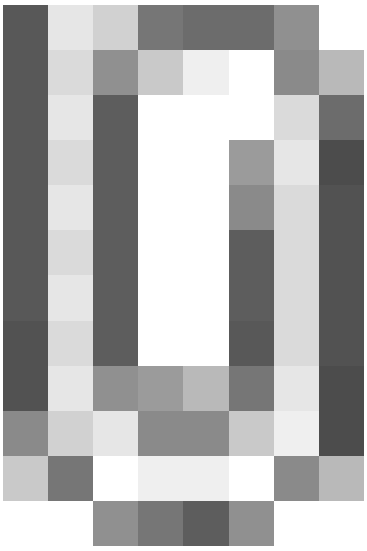
1. IDRIS users' manual

See: ■http://www.idris.fr/

2. IDRIS's machines and file systems



3. How to install your environment at IDRIS

- Find more information about IDRIS on ■http://www.idris.fr/
- ■Scripts environment at IDRIS
- The Ada machine at IDRIS can be used for our configurations. **It supports the model execution and post processing.**
- Note: the software ■the Tina software installed at IDRIS gives access to hourly, daily and weekly backups of your $HOME files.

It is important to take the time to install a comfortable and efficient environment.

- We recommend to follow the example of the rpsl035 login's environment which is in bash. See the ~rpsl035/.bash_login file

```
ryyy999@ada: cat ~/.bash_login
#-------------------------------------------------------
# PLATFORM ENVIRONMENT
#-------------------------------------------------------
source ~rpsl035/.bash_login
```

- Enter here the path of the compiling tools fcm and the rebuild tool used to reconstruct files from a parallel model:

```
export PATH=/smphome/rech/psl/rpsl035/FCM/bin:$PATH
```

- Load here the modules giving access to libraries and post processing tools needed on our Home.

```
module load netcdf
module load ferret/6.72
module load nco
module load cdo
```

- Avoid messages displayed when connecting on Ada and Gaya. Make sure that the command rsh gaya pwd returns a unique line with the HOME on Ada. Make sure the copy of a file using rcp works properly in the two directions.

```
ryyy999@ada: rsh gaya pwd
/cache2/ryyy999
```

```
ryyy999@ada: date > a ; rcp a gaya:
```

- Transfers Ada/Gaya must be done with mfget/mfput.
  For dods access, use the command mfdods on Gaya. This creates the link (24h after the first time) visible here: ■http://dods.idris.fr

```
# Export a file:
ryyy999@gaya: mfdods mon_fichier -d /cache[n]/DODS/pub/rlab001/rep_1

# Once the access activated, you must do the following to destroy a file:
ryyy999@ada: mfdods -r /cache[n]/DODS/pub/rlab001/rep_1/mon_fichier
```

- To give access to the WORKDIR of Ada to all (755 or drwxr-xr-x), you must contact the IDRIS' assistance for the level /workgpfs/rech/grp.

3.1. System requirements

To know the computing time used by your group (updated once a day):

```
rces452@ada338:~> cpt
```

4. Things to know about file systems

4.1. WORKDIR

- The $WORKDIR Ada is large but it is not saved.
- The $WORKDIR Ada can be extended (20 To for the group for example). The project investigator can ask an extension on the IDRIS's extranet. See: ■http://www.idris.fr/extranet/index.html.

4.2. Quotas

To check the used space and the size of the HOME, WORKDIR and GAYA:

```
# Quota HOME
ryyy999@ada: quota_u

# Quota WORKDIR
ryyy999@ada: quota_u -w

# Quota GAYA
ryyy999@gaya: quota_u
```

5. End-of-job messages

To receive the end-of-job messages sent by the job itself (e.g. end of simulation, errors,...) you must specify your address in the $HOME/.forward file.

6. Simulation outputs

Simulation outputs are stored on Gaya:IGCM_OUT.

The IDRIS's dods server is accessible from: ■http://www.idris.fr

7. The IDRIS's machines

- Ada
- Adapp