

Wikiprint Book

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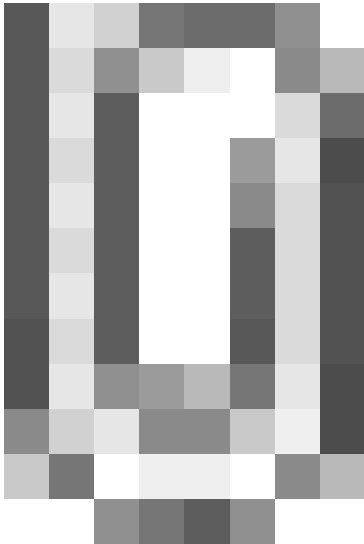
Working at IDRIS

1. IDRIS presentation

See: <http://www.idris.fr/>

News : On 1/7/2014 file server gaya is read only and ergon is the new file server. More information here : <http://www.idris.fr/ergon/>

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 platform.

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

- Avoid messages displayed when connecting on Ada and Ergon. Make sure that the command `rsh ergon 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. Make sure that the command `ssh ergon pwd` returns a unique line with the HOME of ERGON on ADA.

```
ryyy999@ada: ssh ergon pwd
/arch/home/rech/yyy/ryyy999
ryyy999@ada: date > a ; rcp a ergon:
```

- Transfers Ada/Ergon must be done with `mfgget/mfput`.
- Until december 2014, files stored on gaya and precedently published by dods are visible here : <http://dods.idris.fr/gaya/>
For dods access, use the command `mfdods` on Ergon. This creates the link (24h after the first time) visible here: <http://dods.idris.fr>

```
# Export a file:
ryyy999@ergon: mfdods mon_fichier -d pub/ryyy999/my_dir

# Once the access activated, you must do the following to destroy a file:
ryyy999@ada: mfdods -r /u/DODS/pub/ryyy999/my_dir/my_file
```

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

4. Accounting

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

```
p1ab999@ada:~> cpt
```

5. Things to know about file systems

5.1. 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.html> or directly from an authorized IP : <https://extranet.idris.fr/>.

5.2. Quotas

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

```
# Quota HOME
ryyy999@ada: quota_u

# Quota WORKDIR
ryyy999@ada: quota_u -w

# Quota ERGON
ryyy999@ergon: quota_u
```

6. 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.

7. Simulation outputs

Final simulation outputs are stored on Ergon in \$ARCHIVE/IGCM_OUT directories.

The IDRIS's dods server is accessible from: <http://dods.idris.fr>. Until end of december 2014, use <http://dods.idris.fr/gaya> for old Gaya files.

Since June 2014, thredds server are also available and will replace dods server early 2015:

- <http://prodn.idris.fr/thredds>, click on IDRISPUBFS, click on your login or directly :
<http://prodn.idris.fr/thredds/catalog/IDRISPUBFS/YOURLLOGIN/catalog.htm> and ATM (or an other component) for Analyse files (TS or SE) or ATLAS and MONITORING.

8. About Password

At IDRIS, password have to be changed one time per year. The command to change your password is `passwd` . You receive a mail 2 weeks before password expiration.

9. The IDRIS's machines

- [Ada](#) for computing part
- [Adapp](#) for post-processing part