

## **Wikiprint Book**

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## Working at IDRIS

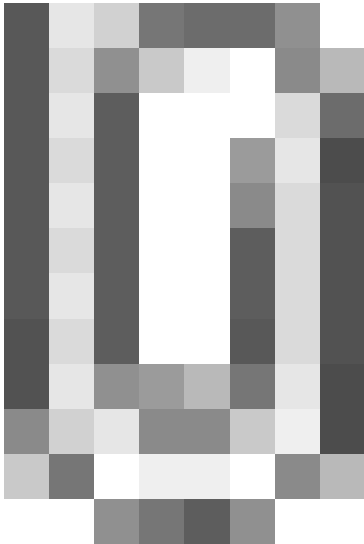
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### 1. IDRIS presentation

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