

## Working at IDRIS

---

### Table of Content

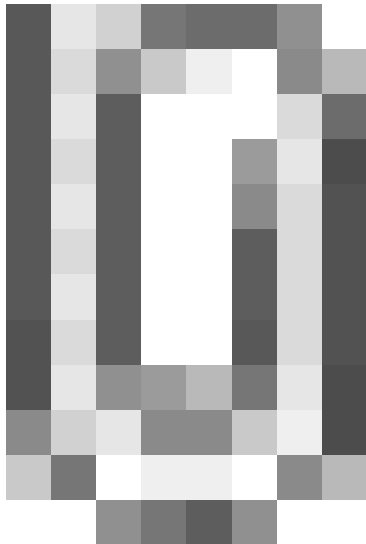
<b>Working at IDRIS</b>	<b>1</b>
<b>1. IDRIS presentation</b>	<b>2</b>
<b>2. IDRIS's machines and file systems</b>	<b>2</b>
<b>3. How to install your environment at IDRIS</b>	<b>2</b>
3.1. System requirements	3
<b>4. Things to know about file systems</b>	<b>3</b>
4.1. WORKDIR	3
4.2. Quotas	3
<b>5. End-of-job messages</b>	<b>3</b>
<b>6. Simulation outputs</b>	<b>3</b>
<b>7. The IDRIS's machines</b>	<b>3</b>

## 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 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. 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.
- dods files not tested on Ergon. (July 2014)

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 /workgpf/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 ERGON:

```

# Quota HOME
ryyy999@ada: quota_u

# Quota WORKDIR
ryyy999@ada: quota_u -w

# Quota ERGON
ryyy999@ergon: 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 Ergon:IGCM\_OUT.

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

## 7. The IDRIS's machines

- [Ada](#)

- [Adapp](#)