Directories and filesystems

The Cirrus filesystems are based on the Lustre shared filesystem which is mounted in the compute nodes and in the submission/login nodes. Lustre is mostly suited to the storage of large/huge files.

Summary

CNCA-Lisbon cluster

Name[1]	Purpose	Availability	Quota [2]	TimeLimit [3]	Backup
/home/unixgrp/user	User default home	always	20GB/user	none	no
/data/unixgrp	Group data large data files [4].	always	100GB/group	temporary (will be deleted after 6 months)[4]	no
/exper-sw/unixgrp	Install software for groups	on request	20GB/group	permanent	no

CNCA-Vila Real cluster

Name[1]	Purpose	Availability	Quota [2]	TimeLimit [3]	Backup
/home/unixgrp/user	User default home	always	200GB/user	none	no
/scratch/unixgrp/user	User working directory	always	10TB/group	none	no

[1] Each user belongs to a Unix group: **unixgrp** - determined by the project they are attached to
[2] Increases to these quotas will be considered on a case-by-case basis.
[3] Time limit defines time after which a file is erased on the file system since its most recent access time, as defined by the file access timestamp.
[4] This folder has read+write permission to all users belong same group

> ***NOTE:*** To know your unix group id type the command: **id**

Filesystems

/home

- Intended to be used for source code, executables and immutable data (input files etc), NOT large data sets.
- Globally accessible from all nodes within a system.
- Quotas apply. To know your actual quota limit:

```
lfs quota -uh username /home/unixgrp/username


Disk quotas for usr username (uid XXXXXX):
     Filesystem           used   quota  limit grace  files   quota   limit   grace
  /home/unixgrp/username  11.6G  20G   20G     -      1395    10400  10400    -
```

> ***NOTE:*** if your used >=quota users are not allowed to write

/data

- Each project has a directory with pathname /data/unixgrp on each compute node. Users connected to the project have rwx permissions in that directory and so may create their own files in those areas.
- Globally accessible from all nodes within a system.
- Quotas apply. To know your actual quota limite:

```
lfs quota -uh username /data/unixgrp


Disk quotas for usr username (uid XXXXXX):
     Filesystem    used   quota  limit   grace   files    quota    limit   grace
  /data/unixgrp/  219.6G  300G   300G     -      81395    1102400  102400    -
```

> ***NOTE:*** There are also limits on the number of files (files) that can be owned by a group (project) on /data.

/exper-sw

- Intended to be used for software, shared by group
- Globally accessible from all nodes within a system.
- Permissions to use based on request

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