

# Directories and filesystems

The INCD 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.

- For more specific information regarding the Lustre deployment at INCD please see the [lustre section](#)

## Summary

### INCD-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

### ISEC-Coimbra cluster

Name[1]	Purpose	Availability	Quota [2]	TimeLimit [3]	Backup
/home/	User default home	always		none	no

### INCD-Minho cluster

Name[1]	Purpose	Availability	Quota [2]	TimeLimit [3]	Backup
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/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. Please read our [Disk Quota Policy](#) 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. Please read our [Disk Quota Policy](#) To know your actual quota limite:

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

Disk quotas for user 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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