

# Columbia Home Filesystems

## Category: Columbia

### Columbia Phase Out:

As of Feb. 8, 2013, the Columbia21 node has been taken offline as part of the Columbia phase out process. Columbia22-24 are still available. If your script requires a specific node, please make the appropriate changes in order to ensure the success of your job.

Columbia's home filesystem (`/u/username`) is NFS-mounted on the Columbia front-end (cfe2) and compute nodes (Columbia21-24).

Once a user is granted an account on Columbia, the home directory is set up automatically during his/her first login.

### Quota and Policy

Disk space quota limits are enforced on the home filesystem. By default, the soft limit is 4 GB and the hard limit is 5 GB. There are no inode limits on the home filesystem.

To check your quota and usage on your home filesystem, do:

```
%quota -v
Disk quotas for user username (uid xxxx):
  Filesystem  blocks    quota   limit   grace   files   quota   limit   grace
  ch-rg1:/home6    4888  4000000 5000000         294         0         0
```

The quota policy for NAS states that if you exceed the soft quota, an email will be sent to inform you of your current usage and how much of your grace period remains. It is expected that a user will occasionally exceed their soft limit as needed; however after 14 days, users who are still over their soft limit will have their batch queue access to Pleiades disabled. If you believe that you have a long-term need for higher quota limits, you should send an email justification to [support@nas.nasa.gov](mailto:support@nas.nasa.gov). This will be reviewed by the HECC Deputy Project Manager, Bill Thigpen, for approval.

The quota policy for NAS can be found [here](#).

**WARNING:** If you receive the following error when logging into Columbia:

```
/usr/X11R6/bin/xauth:  error in locking authority file
/u/username/.Xauthority
```

you won't be able to run X applications. This error is most likely caused by your home filesystem quota being exceeded and you will have to decrease your disk usage to eliminate this error.

## **Backup Policy**

Files on the home filesystem are backed up daily.

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<http://www.nas.nasa.gov/hecc/support/kb/entry/261/?ajax=1>