

# Columbia CXFS 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 CXFS filesystems (`/nobackup [1-2] [a-i]`) are shared and accessible from cfe2 and Columbia21-24. This allows user jobs to be load-balanced across Columbia's systems without forcing users to move their data to a particular Columbia system.

Users will have a `/nobackup` directory on one of these shared file systems. To find out where your `/nobackup` directory is, log in to the front-end node and type the following shell command:

```
cfe2% ls -d /nobackup[1-2][a-i]/$USER  
/nobackup1f/username/
```

In this example, the user is assigned to `/nobackup1f`.

### Default Quota and Policy on /nobackup

Disk space and inodes quotas are enforced on the CXFS `/nobackup [1-2] [a-i]` filesystems. The default soft and hard limits for inodes are 25,000 and 50,000, respectively. Those for disk space are 200GB and 400GB, respectively. To check your disk space and inodes usage and quotas on your CXFS filesystem, do the following:

```
cfe2% quota -v  
Disk quotas for user username (uid xxxx):  
Filesystem blocks quota limit grace files quota limit grace  
/dev/cxvm/nobackup1f  
1673856 210000000 420000000 10973 25000 50000
```

The NAS quota policy 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 users 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 Columbia disabled.

If you anticipate having a long-term need for higher quota limits, please send a justification via email to [support@nas.nasa.gov](mailto:support@nas.nasa.gov). This will be reviewed by the HECC Deputy Project Manager for approval.

For more information, see also, [Quota Policy on Disk Space and Files](#).

**WARNING:** As the names suggest, these filesystems are not backed up, so any files that are removed *cannot* be restored. Essential data should be stored on Lou1-2 or onto other more permanent storage.

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<http://www.nas.nasa.gov/hecc/support/kb/entry/262/?ajax=1>