

# Archiving Data in Compute Systems

## Category: Archiving Data

### Lou2 Note:

This article is currently being edited to reflect the changes to Lou2 which take effect on December 6, 2012. A finalized version will be posted soon.

## Archiving Data under Pleiades or Columbia Home Filesystems

Users' data under the home filesystem of any NAS HECC system (such as Pleiades or Columbia) are automatically backed up *daily* under script control.

If you lost important data under a home filesystem and need to have it restored, please send a request to NAS Help Desk and provide the following:

- System name
- Your username
- The directory and/or file name(s) that you wish to restore
- The date the data was last touched

Please note that disk space quota limits are imposed on the Pleiades and Columbia home filesystems. If you are over your disk space quota limits, reduce your usage by deleting unneeded files, copying important files to your home filesystem on Lou, or to storage space at your local site and then removing them from Pleiades or Columbia.

## Archiving Data under Pleiades or Columbia /nobackup File Systems

Data under any /nobackup filesystem of any NAS HECC system (such as Pleiades /nobackupp[1-6], or Columbia /nobackup[21-24], /nobackup[1-2][a-j], etc.) are not backed up by NAS. Users are responsible to do their own backups.

Please note that disk space and inode quota limits are imposed on the Pleiades Lustre filesystems /nobackupp[1-6] and Columbia CXFS filesystems /nobackup1[a-h] and /nobackup2[a-j]. If you are over the soft quota limits, reduce the usage by removing some files and/or archive any important data to your home filesystem on Lou, or to the storage space at your local site.

In addition, when the overall usage of a /nobackup filesystem is near its capacity, files can be deleted by system administrators. Normally, the few top users are sent emails and asked to clean up their disk space.

See [Policy on Disk Space Quotas of home and /nobackup File Systems for Pleiades/Columbia](#) for more information.

## What File Transfer Commands to Use

Note that the Pleiades /nobackup filesystems (for example, /nobackup[1-6]) are mounted on Lou2. As a result, you can log into Lou2 and copy the files from /nobackup to your home directory on Lou. It is recommended that the [shiftc](#) command be used for this, which will automatically utilize the highest performing local file transport.

For Lou1, you need to do a network transfer with **shiftc**, **scp**, or **bbftp**.

If you need to initiate the transfer from Columbia or Pleiades, then we also recommend using **shiftc**. If you need to encrypt the data, even within the HECC enclave, then use the **shiftc --encrypt** option. Disk-to-disk copying from Pleiades Lustre file systems to Mass Storage may be implemented in the near future.

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<http://www.nas.nasa.gov/hecc/support/kb/entry/245/?ajax=1>