

# Streamlining PBS Job File Transfers from Pleiades to Lou

## Category: Effective Use of PBS

Some users prefer to streamline the storage of files (created during a job run) to Lou, within a PBS job. Since Pleiades compute nodes do not have network access to the Lou storage nodes, or other nodes outside of Pleiades, all file transfers to Lou within a PBS job must first go through one of the front-ends (pfe[20-27], or bridge[1-4]).

Here is an example of what you can add to your PBS script to accomplish this:

1. **ssh** to a bridge node (for example, bridge2) and create a directory on lou[1,2] where the files are to be copied.

```
ssh -q bridge2 "ssh -q lou mkdir -p $SAVDIR"
```

Here, \$SAVDIR is assumed to have been defined earlier in the PBS script. Note the use of **-q** for quiet-mode, and double quotes so that shell variables are expanded prior to the **ssh** command being issued.

2. Use **scp** via a bridge node to transfer the files.

```
ssh -q bridge2 "scp -q $RUNDIR/* lou:$SAVDIR"
```

Here, \$RUNDIR is assumed to have been defined earlier in the PBS script.

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