

# Checking memory usage of a batch job using qsh.pl and "cat /proc/meminfo"

## Category: Memory Usage on Pleiades

A Perl script called `qsh.pl` (available under `/u/scicon/tools/bin`) was provided by NAS staff member Bob Hood. This script "ssh's" into all the nodes used by a PBS job and runs a command that you supply.

### Syntax:

```
pfel% qsh.pl pbs_jobid your_command
```

One good use of this script is to check the amount of free memory in the nodes of your PBS job.

### Example:

```
pfel% qsh.pl 30329 "cat /proc/meminfo"

running "cat /proc/meminfo" on:  r56i2n14 r56i2n15
r56i2n14 :
  MemTotal:      8079728 kB
  MemFree:       857936 kB
  Buffers:       0 kB
  Cached:        3775472 kB
...
r56i2n15 :
  MemTotal:      8079728 kB
  MemFree:       5840920 kB
  Buffers:       0 kB
  Cached:        784280 kB
...
```

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Computing at NAS -> Best Practices -> Memory Usage on Pleiades -> Checking memory usage of a batch job using qsh.pl and "cat /proc/meminfo"

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