

Job Accounting Utilities

Category: Running Jobs with PBS

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.

The job accounting utilities `acct_ytd` and `acct_query` can be used to obtain resource usage and charging information about your account, the accounts of other users on your project, and the project as a whole. Daily usage totals for each account are available for the current operational period.

`acct_ytd`

The `acct_ytd` command provides a year-to-date summary of accounting information for groups to which a user belongs. It will normally be accurate as of midnight the previous night, when accounting was last run.

A number of parameters can be used, but the simplest way is to type `acct_ytd` on a host without any parameters. This produces a line of output for each project you have access to on that host.

```
%acct_ytd
```

You can also specify the host group and/or a specific GID (for example, a0800):

```
%acct_ytd -cpleiades a0800 %acct_ytd -ccolumbia a0800
```

To find the allocations and usages of all your GIDs on all hosts, use the `-call` flag.

```
%acct_ytd -call
```

See **man acct_ytd** on Pleiades and Columbia for more information.

`acct_query`

The `acct_query` command searches and displays process-level billing records. This means that while totals over a period or for each day in a period are possible, you can also obtain detailed billing records for each process run in a period.

For example, to see all the SBU usage, beginning June 1, 2010, ending July 1, 2010, for all projects and on all hosts by user zsmith:

```
%acct_query -b06/01/10 -e07/01/10 -pall -call -uzsmith
```

To see the current SBU usage for the operational year 2010 (defined as May 1, 2010 to May 1, 2011 for most mission directorates) for all projects and on all hosts by user zsmith:

```
%acct_query -y10 -pall -call -uzsmith
```

Eligible hostnames include:

- columbia21
- columbia22
- columbia23
- columbia24
- pbs1
- pleiades (for Harpertown nodes)
- pleiades_N (for Nehalem nodes)
- pleiades_W (for Westmere nodes)
- pleiades_S (for Sandy Bridge nodes)

See **man acct_query** on Pleiades and Columbia for more information.

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