

3. Typical HTCondor Commands

HTCondor has been configured on the local LSST cluster, and can be used to submit jobs to local resources, or to remote (XSEDE) systems.

There are several commands to be aware of, outlined below:

condor_q

The "condor_q" command shows which jobs are in the queue. When specified without arguments, it shows only jobs submitted from the machine on which the command was executed.

Here's an example, run on the machine "lsst-dev":

```
$ condor_q

-- Schedd: lsst-dev.ncsa.illinois.edu : <141.142.225.160:37253>

ID   OWNER      SUBMITTED  RUN_TIME ST PRI SIZE CMD
7092.0  srp        8/21 09:04 0+03:40:23 R 0 0.3 condor_dagman
7094.0  srp        8/21 09:05 0+00:43:04 I 0 97.7 matrix.sh visit=88
7095.0  srp        8/21 09:05 0+00:42:54 I 0 97.7 matrix.sh visit=88
7096.0  srp        8/21 09:05 0+00:42:54 I 0 97.7 matrix.sh visit=88

4 jobs; 0 completed, 0 removed, 3 idle, 1 running, 0 held, 0 suspended

$
```

condor_rm

You can use condor_rm to remove jobs from the queue. If you want to remove job 7096, run:

```
$ condor_rm 7096

Cluster 7096 has been marked for removal.

$ condor_q

-- Submitter: lsst-dev.ncsa.illinois.edu : <141.142.225.160:37253> : lsst-dev.ncsa.illinois.edu

ID   OWNER      SUBMITTED  RUN_TIME ST PRI SIZE CMD
7092.0  srp        8/21 09:04 0+03:48:26 R 0 0.3 condor_dagman
7094.0  srp        8/21 09:05 0+00:43:04 I 0 97.7 matrix.sh visit=88
7095.0  srp        8/21 09:05 0+00:42:54 I 0 97.7 matrix.sh visit=88
```

```
3 jobs; 0 completed, 0 removed, 2 idle, 1 running, 0 held, 0 suspended
```

Usually the "condor_rm" command doesn't instantaneously remove the job from the queue; it may take several seconds for it to be removed.

To remove all the jobs you submitted, use the "-all" option:

```
$ condor_rm -all
All jobs marked for removal.
-bash-4.1$ condor_q

-- Submitter: lsst-dev.ncsa.illinois.edu : <141.142.225.160:37253> : lsst-dev.ncsa.illinois.edu

ID   OWNER      SUBMITTED  RUN_TIME ST PRI SIZE CMD

0 jobs; 0 completed, 0 removed, 0 idle, 0 running, 0 held, 0 suspended
$
```

condor_status

The "condor_status" command shows the status of machines in your Condor pool.

```
$ condor_status

Name           OpSys  Arch  State  Activity LoadAv Mem  ActvtyTime

slot1@lsst-run1.nc LINUX  X86_64 Unclaimed Idle  0.000 1916 0+23:05:16
slot2@lsst-run1.nc LINUX  X86_64 Unclaimed Idle  0.000 1916 0+23:05:19
slot1@lsst-run2.nc LINUX  X86_64 Unclaimed Idle  0.000 1916 11+01:31:35
slot2@lsst-run2.nc LINUX  X86_64 Unclaimed Idle  0.000 1916 11+01:31:58

Total Owner Claimed Unclaimed Matched Preempting Backfill

X86_64/LINUX  4  0  0  4  0  0  0

Total  4  0  0  4  0  0  0
```

Further details on Condor, and other commands are available from the [<http://research.cs.wisc.edu/condor/manual/> Condor Manual].

