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Using CRAB to Submit Jobs on a PBS Cluster

Prerequisites

- CRAB version higher or equal to 2.7.0;
- The pbs_python module installed (how to install this module here);

Running

- In the crab.cfg configuration file, you have just to put under the [CRAB] section:

```
scheduler = pbs
use_server = 0
```

- In the [PBS] section of crab.cfg, use the following optional parameters:

- ◆ queue = pbs_queue_to_use,
putting default you use the default queue in your local PBS config
- ◆ resources = resource_1 = value, resource_2 = value, etc
- ◆ A concrete example (for a particular local batch queue) is:

```
[PBS]
queue=prod
resources=cput=12:00:00,walltime=12:00:00,vmem=4gb,mem=1gb
```

Both wrapper stdout/stderr and job script output files are placed in your crab_*/res directory by default

More info

If the job output (stdout etc.) does not go to the directory that you specified with the ui_working_dir parameter in your crab.cfg, then adding the following lines to your .login file *may* help (or equivalent if you use bash). (This works for some sites, but may not work on all):

```
# If this is a PBD job, the PBS_JOBCOOKIE variable determines where the output goes, whereas the
if ( $?PBS_JOBID && $?TMPDIR ) then
  setenv PBS_JOBCOOKIE $TMPDIR
endif
```

additional information in these HN threads

- <https://hypernews.cern.ch/HyperNews/CMS/get/crabDevelopment/742.html> (about using dCache for writing)
- <https://hypernews.cern.ch/HyperNews/CMS/get/crabFeedback/3685/1/1/1.html> (about defining job work directory)

-- MarcoCalloni - 13-Oct-2009

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