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DIP tools

The TOTEM DIP tools comprise

- 3 DIP clients
  - BPMClient for relevant BPM data
  - BLMClient for relevant BLM data
  - RPClient for RP positions
- a program (logXMLtoROOT) to convert XML logs into ROOT files
- and a script runDipBrowser to run DIP browser.

The source code can be found in the TOTEM SVN repository, in trunk/online/dip. Before compiling or running the programs, you should set up the environment by

bash --rcfile environment

If you aren't sure which machine to run the tools on, try cmsusr0.cern.ch.

Run the clients with --help option to see the list of options.
Instructions how to run the loggers at IP5

Here's an example for RPs (Gennaro's account):

1. Log on to cmsusr0.
2. cd /cmsnfshome0/nfshome0/gennaro/Software/dip/
3. bash --rcfile environment
4. ./StartLogging. This will start all three clients - BPM, BLM and RP. Watch out for error messages. The loggers will stop automatically after 24h. If you need to stop them sooner, do ./StopLogging.

The log files grow fast, hence make sure there is enough disk space!

DNS servers

According to Fernando, these servers might be available:

1. cms-cent-dcs-17.cern.ch
2. cms-cent-dcs-18.cern.ch

The first one is set as default, any other server can be set by --dns option (run a logger with --help for more information).
Some links related to DIP

- LHC DIP published data
- DIP specification
- DIP tutorial
- PVSS introduction

-- JanKaspar - 11-Mar-2010