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# DIP tools

The TOTEM DIP tools comprise

- 3 DIP clients
  - ◆ `BPMClient` for relevant BPM data
  - ◆ `BLMClient` for relevant BLM data
  - ◆ `RPCClient` 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

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