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# Instructions how to use data monitoring SW in the counting root.

## Tool choice

There are several software tools you can use.

1. **Monitor.** This is the old good Monitor that has been used since long. It has been designed to be lightweight and fast. Because of that, reconstruction algorithms are simplified (compared to the OfflineSW) or completely missing. Hence reconstruction results (track fits for instance) may not be reliable. The Monitor is a good choice for low level (VFAT) investigations, but it is *not recommended* for real data quality monitoring (use DQM instead).
2. **Automatic monitoring.** This is just a script that runs the Monitor in background whenever a new raw-data file appears. Thus it can display a set of standard plots for the latest file without human intervention. *This is now obsolete by the Automatic DQM, use it instead.*
3. **TotemDQM.** This is the real data quality monitor. It is based on the OfflineSW, hence all results will be *consistent* with subsequent analyses. It might be a bit slower than the Monitor. It is a good choice if you wish to check the quality of your data. It has an improved GUI, therefore work with TotemDQM should be more comfortable than with Monitor (it can open several windows on several screens, analyze multiple files simultaneously and much more).
4. **Automatic DQM.** A script that runs TotemDQM in background whenever a new raw-data file is saved. It can produce a number of standard plots (according to layouts saved from the TotemDQM).

## Instructions for Monitor

Type these commands:

1. `ssh rp@TOTEM-CR-08` (if not already there)
2. `cd Monitor/`
3. `bash --rcfile environment_CR`
4. `monitor/bin/monitor`

For help on usage see Monitor user's manual.

## Instructions for Automatic monitoring

Type these commands:

1. `ssh rp@TOTEM-CR-08` (if not already there)
2. `cd Monitor/`
3. `bash --rcfile environment_CR`
4. `gv actual_snapshot.eps &`
5. `./periodicMonitor`

Make sure that `gv` will watch the file - click on `State` in the menu and check the `Watch file` option.

The set of plots is shared with Monitor. To change it, open the Monitor and change the layout.

## Instructions for

Type these commands:

1. `ssh rp@TOTEM-CR-08` (if not already there)
2. `ce` (this loads the right environment settings)
3. `runTotemDQM`

Then start with File/Open. For usage instructions see TotemDQM user's manual. Note that there is a number of standard plots sets prepared for you. To use the click on `View/New tab from...` and select the set you wish.

NB: I'd advice you to close the application and run it again before opening a new run/file. There is a bug somewhere...

## Instructions for Automatic

Type these commands:

1. `ssh rp@TOTEM-CR-08` (if not already there)
2. `ce` (this loads the right environment settings)
3. `periodicDQM`

It will first process the current file and then *it will automatically open the graphical viewer (gv)*. In fact, it will open several windows - one window per one selected layout. You can use the TotemDQM to create a layout, save it onto a file and then configure the Automatic DQM to use it. The relevant configuration file is `config/periodic_dqm_rp.py`.

-- JanKaspar - 12-Oct-2010

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