

APPENDIX

Synchronization monitoring procedure

In Desktop 2

To launch the processes for monitoring the synchronization between BigRIPS, AIDA and BRIKEN DACQs open 4 terminals:

Terminal 1 (DataSink) type:

```
>ssh aida@d05 (pwd: aida)
>cd /home/aida/DataPackage/DataSink/Linux64
>./DataSink -i 3
```

Terminal 2 (SynCheck) type:

```
>ssh -X aida@d05
>cd /home/aida/SynCheck
>./SynCheck
(opens a ROOT canvas with two 1D histograms and two 2D histograms)
```

Terminal 3 (BigRIPS Data Relay) type:

```
>ssh aida@d05
>cd /home/aida/ribfts/ribftssender
>./ribftssender_mar17ca debug
```

Terminal 4 (AIDA Data Relay) type:

```
>ssh npg@aidas1 (pwd: nuclear)
>DataRelayFilter -n 10.32.0.12 -p 10307 -I 2
```

In Desktop 1:

Gasific Main Window (Briken Data Relay):

- In the DAQ Control tab: Click "Start Sync Monitoring" button.
- In the pop up window set server ip and port (ip:10.32.0.12, port:10305)

To synchronize (reset all three TimeStamps):

- In the DAQ Control tab: Click "Send Sync Pulse" button

WARNING: **DO NOT PRESS Send Sync Pulse in the middle of a run**, or in general unless there is a reason for that (ask an expert)

In the ROOT panel you should see a one channel peak around 0 in the lower 1D histograms and 1 pixel peak around 0:0 in the upper 2D histograms (you might need to expand the histogram in order to see it)