

Synchronization monitoring procedure

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Update: 2017, Mar 29, 03:02:02 2017

BRIKEN ELOG entry: 207

To launch the processes open 4 terminals:

Terminal 1 (DataSink) type:

```
>ssh aida@d05
>cd /home/aida/DataPackage/DataSink/Linux64
>DataSink -i 3
```

Terminal 2 (SynCheck) type:

```
>ssh aida@d05
>cd /home/aida/SynCheck
>./SynCheck
```

Terminal 3 (BigRIPS Data Relay) type:

```
>ssh aida@d05
>cd /home/aida/ribfts/ribftssender
>./ribftssender_mar17ca debug
(specific for current 40Ca parasitic run because we are not sending a pulse signal
to BigRIPS as trigger but receiving triggers from BigRIPS to create the pulses)
```

Terminal 4 (AIDA Data Relay) type:

```
>npg@aidas1 >DataRelayFilter -n 10.32.0.12 -p 10307 -I 2
"-I 2" selects ID 2 as the one for the AIDA data stream, which must correspond to
the one expected by the DataSink in the d05 PC. The program transmitting the data
from AIDA to the DataSink includes an intermediate filtering step. This selects only
correlation scalars from one module (and possibly ADC values from one channel in
that module).
```

Gasific MainWindow (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)

By default this perform a check on the differences RIBF-BRIKEN and AIDA-BRIKEN.

In case that BRIKEN is not running, the option "SynCheck -M 1" check the differences AIDA-RIBF and BRIKEN-RIBF, while "SynCheck -M 2" checks RIBF-AIDA and BRIKEN-AIDA

To synchronize: In the Gasific MainWindow, DAQ Control tab: Click "Send Sync Pulse" button