

FEST & Online Brunel

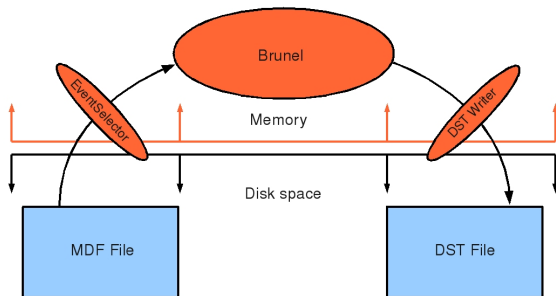
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FEST & Online Brunel

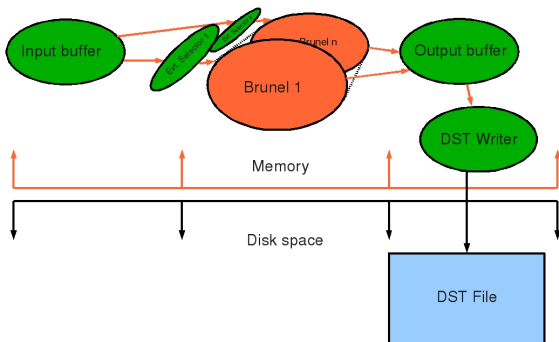


- Standard Brunel
- Brunel in Online environment
- BrunelOnline & Monitoring
- Example plots from monitoring
- To do (list...)



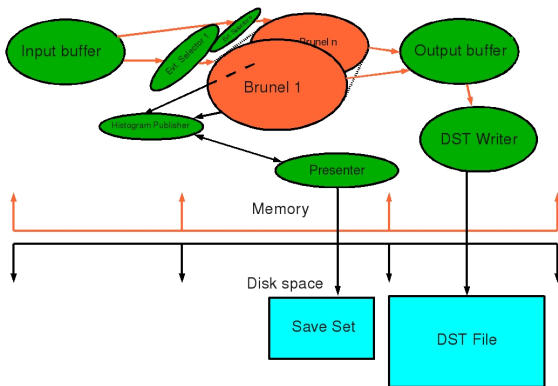
- ▶ Read event from MDF file
- ▶ Process event
- ▶ write TES to disk-file
- ▶ write histograms to file.
- ▶ reconstruction sequence
- ▶ monitoring sequence
- ▶ store event on TES
- ▶ store histograms





- ▶ events put into buffer by DAQ
- ▶ use online event selector
- ▶ standard reco & monitoring sequence
- ▶ use online dst writer





- ▶ publish histograms
- ▶ for each BrunelOnline process
- ▶ present them...
- ▶ save histos in saveset



FEST I

- ▶ problems with OT en(de)coding
- ▶ online reconstruction seemed to work...
- ▶ no histograms filled...
- ▶ no time left for monitoring

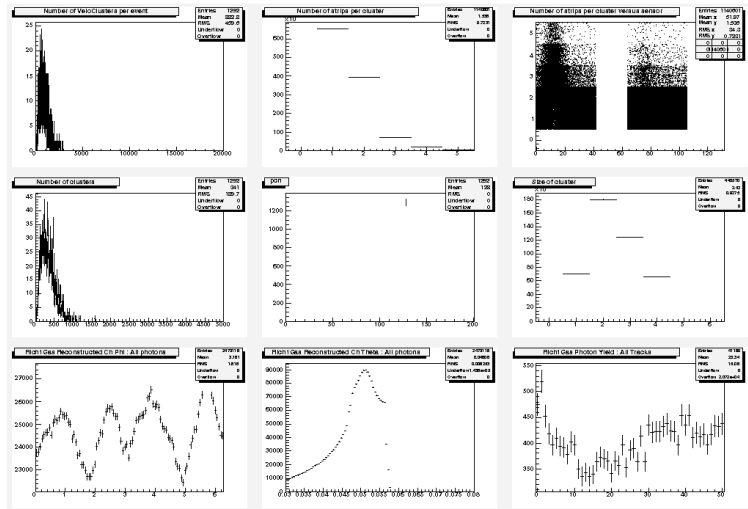
FEST II

- ▶ OT en(de)coding problems solved
- ▶ issues with BrunelOnline:
 - ▶ do not write histo-file
 - ▶ prepend "UpdateAndReset" to Brunel as TopAlgorithm
 - ▶ occasional crashes of Brunel
 - ▶ caused by publishing histograms (small bug, solved)
- ▶ first (reco monitoring) histograms produced by BrunelOnline!
- ▶ Still, publishing was not stable (See talk by van Herwijnen)



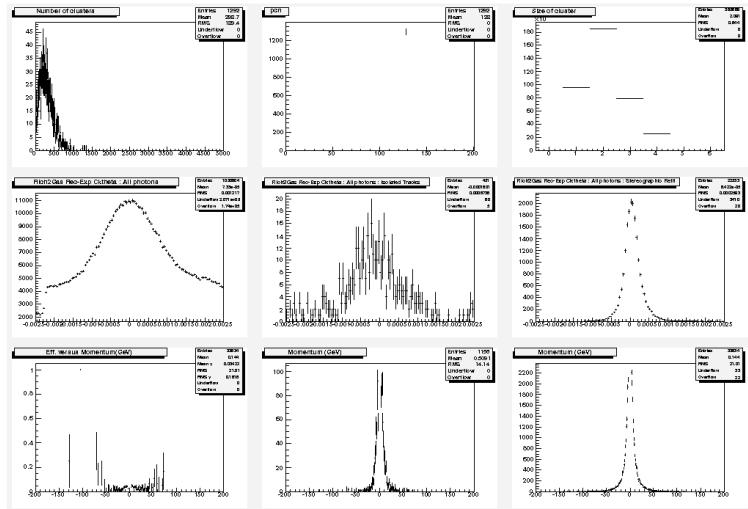
Some Example Plots...

VeLo. TT & RICH1



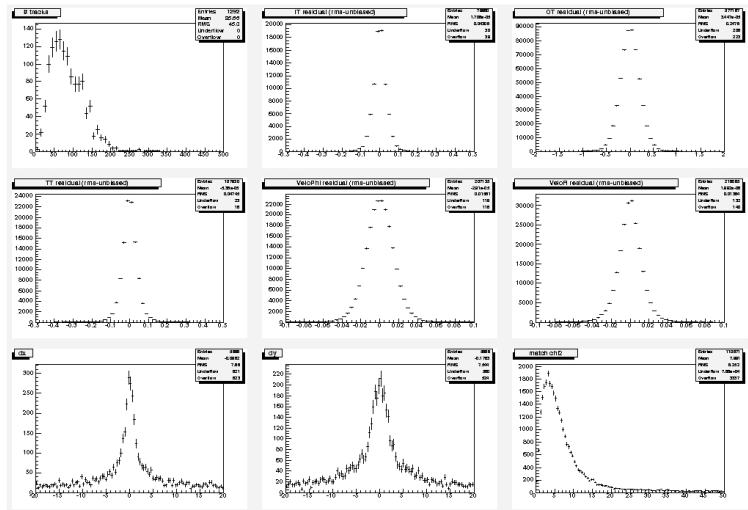
Some Example Plots...

IT, RICH2 & MUON



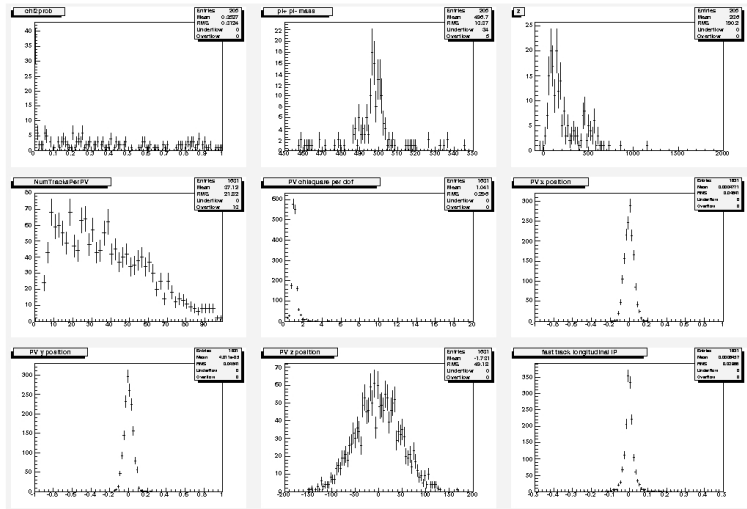
Some Example Plots...

Tracking, Det residuals & Velo-T matching



Some Example Plots...

V0-& PV-monitoring



To do list

- ▶ Histogram Adder for Online monitoring
- ▶ develop algorithms to set warning signals
- ▶ select histograms to be used for analyses
- ▶ select histo's for presenter
- ▶ do we have all that we want?