Status Report Monitoring

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job: monitoring the steering

- the steering controls the data flow the monitoring controls the steering
- problen
- problem: the main code has to be independent of the monitoring code
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- the monitoring should switch off easily

Realisation

- Using the package: Trigger/TrigMonitoring/TrigSteerMonitor containing the class TrigSteerMoni.cxx
- the monitoring code is implemented there
- to loop over the vector <activechains>
- -> Number of accepted chains
- (after prescale and pass through)
- or the number of signatures

shift and expert

- For the shift crew in the control room:
- Lvl2 and EF input and output rate
- 1D Histograms with efficiency of chains
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- For the expert crew:
- 2D Histograms with Signatures or TE
- Number of activated chains
- Event size

Realisation

- For counting the relative number of events we count the number of events accepted from a
- certain chain and detect how often was this chain activated
- That implies: the input and output rate for every chain
- The Efficiency is input / output

raw acceptance





Acceptance after prescale and pass through





Efficiency after pass through (red = activation rate and blue # accepted events)



2d Histogram chain vs. step



More detailed

