

The InfiniBand based Event Builder implementation for the LHCb upgrade

- The upgraded LHCb detector for Run 3 foresees a trigger-less acquisition:
 - 40 MHz of acquisition rate
 - 32 Tb/s of resulting aggregated bandwidth
- A 100 Gb/s LAN interconnect is required
- This talk covers:
 - Requirements and design of the event building for Run 3
 - A possible Event Builder implementation based on InfiniBand interconnect
 - Preliminary results running on HPC clusters

