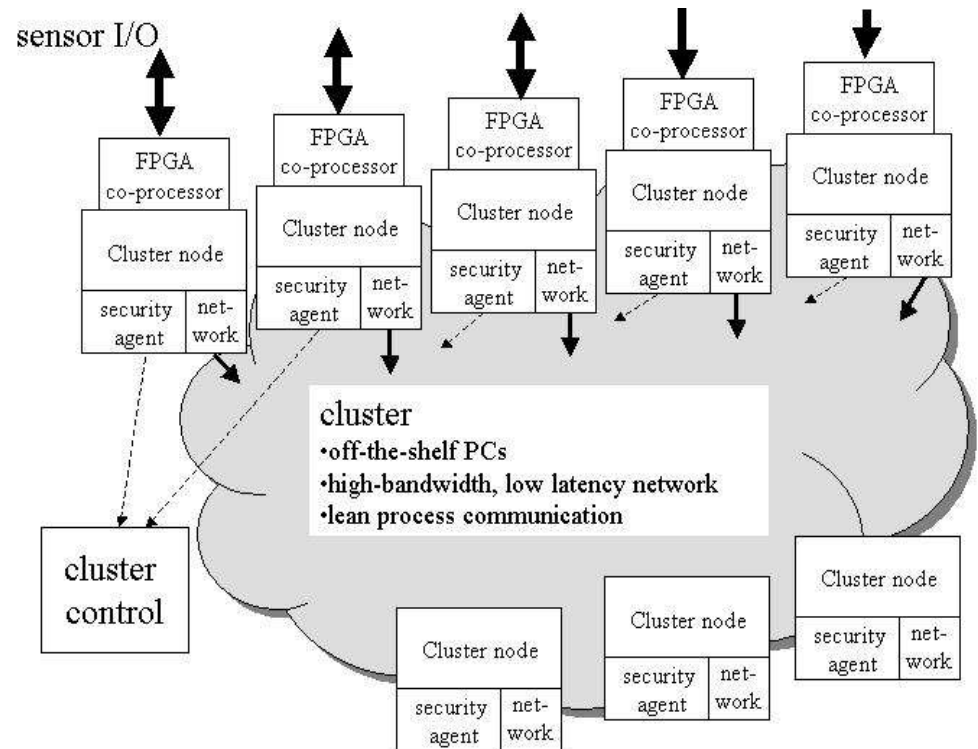# HLT and Computing Model

- HLT as a GRID compute farm
- HLT data model

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HLT as a GRID compute farm

- HLT is a generic high performance cluster

- Commodity processors and network

- More than 500 nodes

- Distributed mass storage system (>TByte)

- Standard OS (LINUX)

- GRID middleware and offline code (ALIROOT framework and applications) can run on all HLT nodes

- Available as a GRID resource outside ALICE running periods

HLT data model

- Main data stream
  - HLT adds information to raw data
  - HLT selects events for permanent archiving
  - HLT modifies/compresses data
- Secondary data stream
  - HLT-ESDs of all (accepted and rejected) online reconstructed events
  - up to 150 MByte/sec (1kHz min. bias)
- Tertiary data stream
  - HLT-ESDs of all accepted events
  - Input to Tag data base
  - about 15 MByte/sec