

Common Instrumentation Discussion - Example TLU

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Idea

- EUDET has to be realized on a short timescale
- Still, maybe developments will be used on a longer timescale than foreseen now
- How can we profit within EUDET without duplication work?
- Trigger logic unit (TLU) of JRA1 as an example



JRA1 - Trigger Logic Unit

- Simple Handshake via Trigger/Busy/Reset on RJ45 LVDS lines (or TTL-Lemo)
- Timestamp and event-number via USB

- Eventnumber via advanced data handshake on RJ45 available



Discussion

- Starting questions:
- Is TLU useful for others?
 - Unmodified as is?
 - Needs adaptation, but can become general?
- Can this principal be applied to other hardware aspects as well?
- Should we try to also agree on ‘common’ technologies in software for DAQ?
 - If so, what and how? (Analysis tools, interprocess communication?) -> Taskforce?

