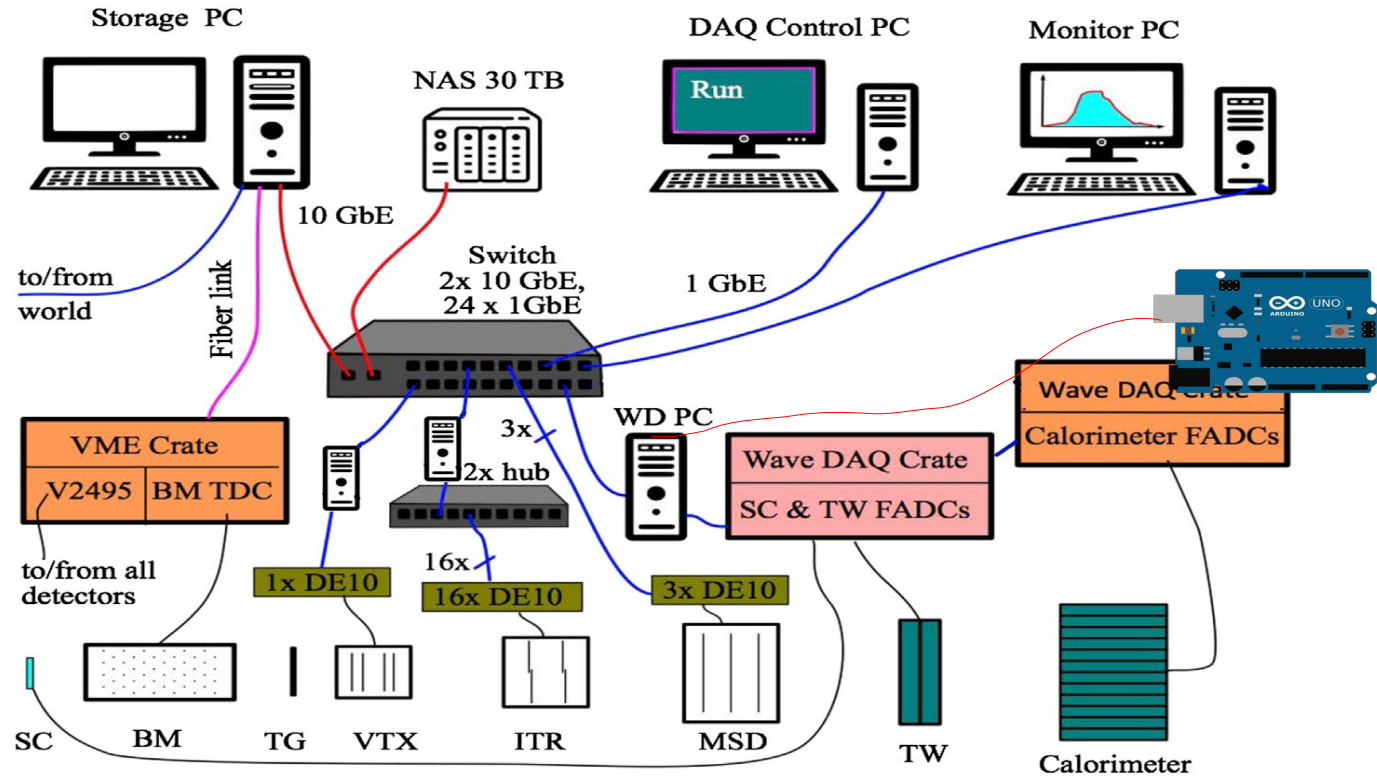


Update on TDAQ status

Riccardo Ridolfi, Giacomo Ubaldi, Mauro Villa

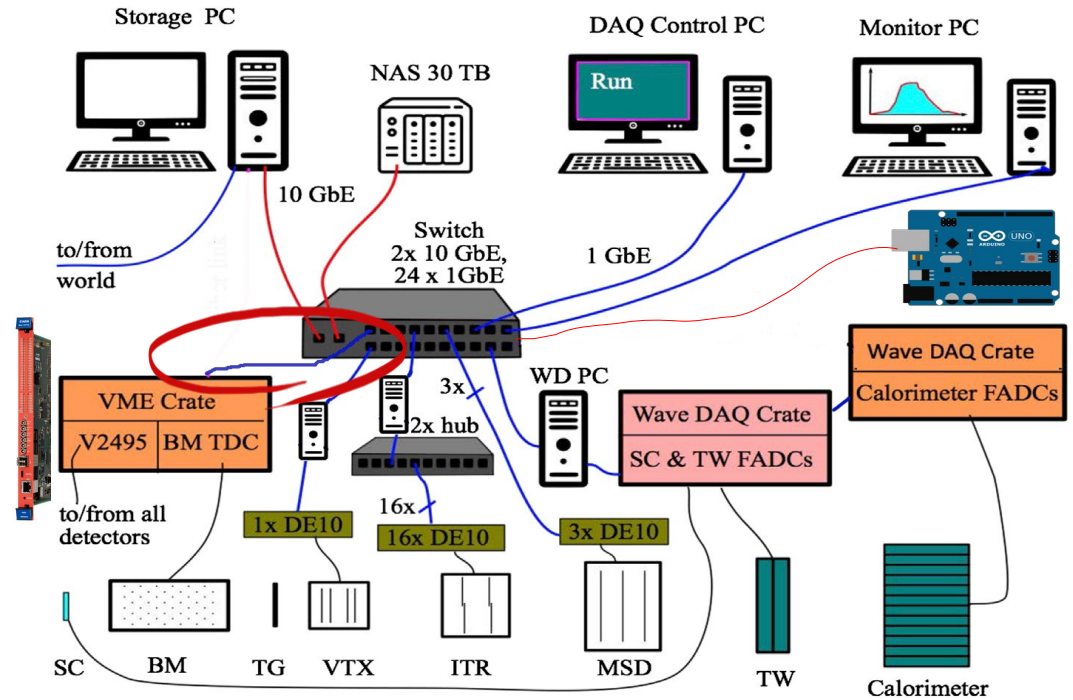
TDAQ infrastructure update for 2023
IT integration
Migration of data and analysis to Tier1

Ongoing activity for HIT2022



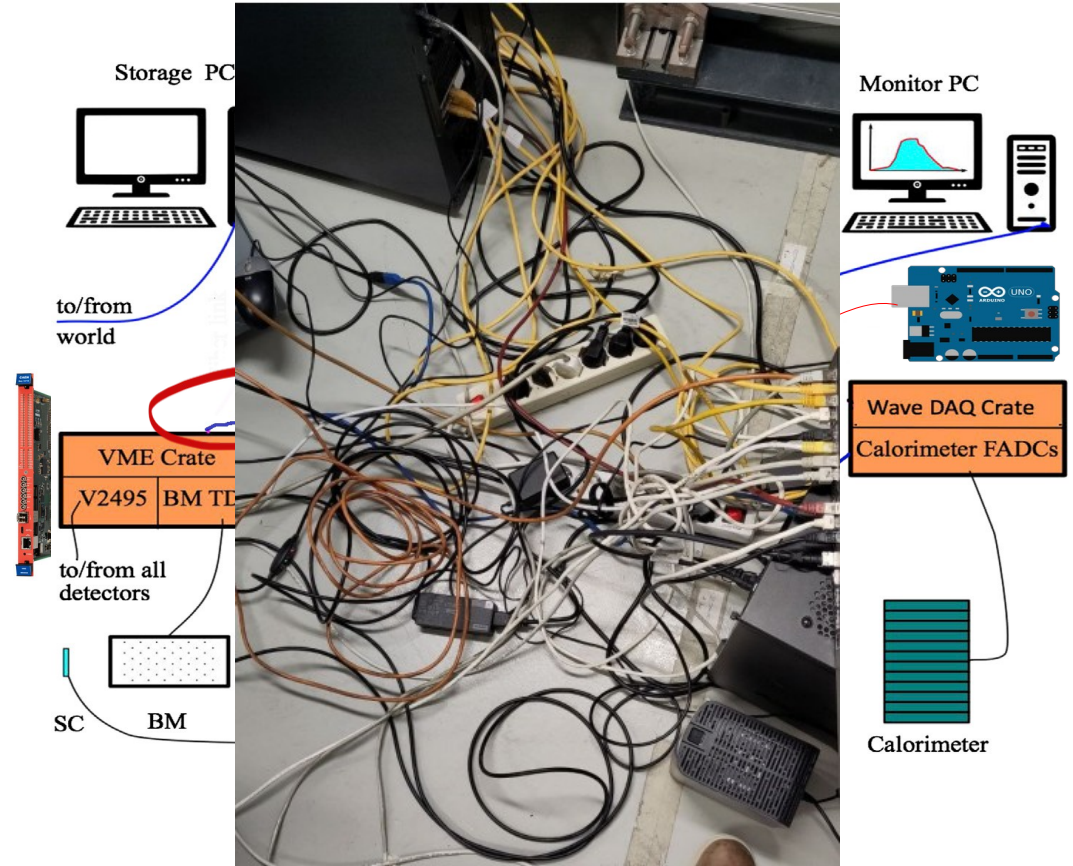
Infrastructure update for 2023

- **new bridge** for connection between VME crate and Storage PC, Ethernet instead of direct link
- no need for delicate kernel drivers, **TCP more reliable**
- no more needed to keep PC close to the VME crate
- we bought a **new Storage PC** to have a spare
- the **new TDAQ** version soon available



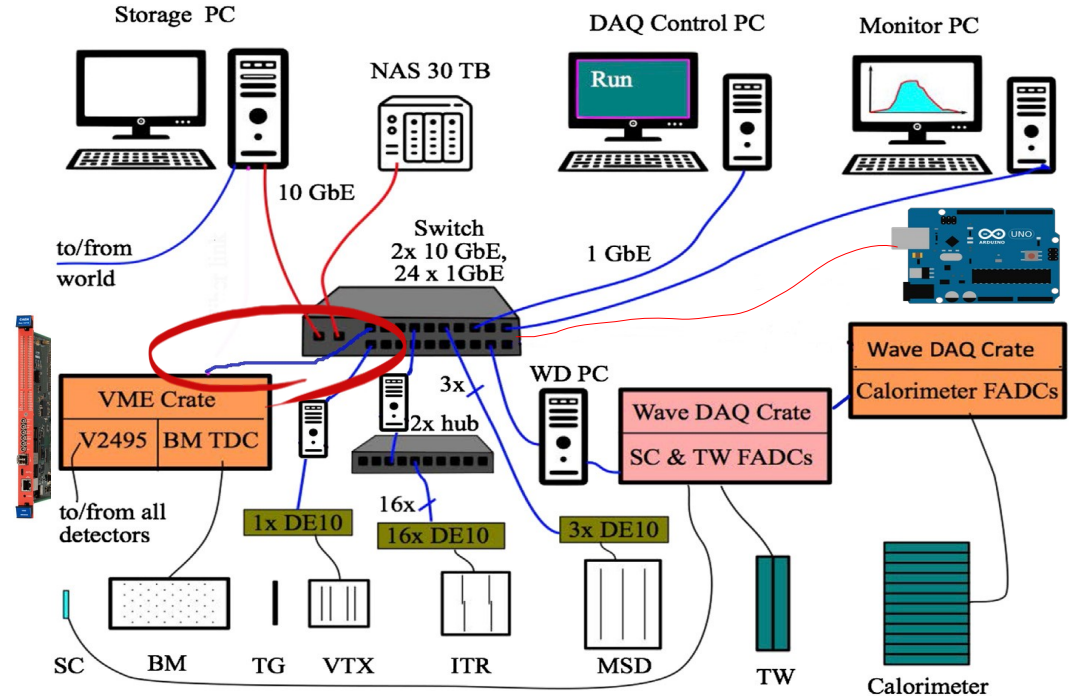
Infrastructure update for 2023

- **new bridge** for connection between VME crate and Storage PC, Ethernet instead of direct link
- no need for delicate kernel drivers, **TCP more reliable**
- no more needed to keep PC close to the VME crate
- we bought a **new Storage PC** to have a spare
- the **new TDAQ version** soon available



Infrastructure update for 2023

- **new bridge** for connection between VME crate and Storage PC, Ethernet instead of direct link
- no need for delicate kernel drivers, **TCP more reliable**
- no more needed to keep PC close to the VME crate
- we bought a **new Storage PC** to have a spare
- the **new TDAQ** version soon available



Inner Tracker (IT) integration

- first session for IT integration held from 2 to 4 November 2022 → **automation of start-stop sequence**, observed known problems on synchronization with general DAQ
- IT inside acquisition@CNAO2022 for some runs (one sensor), no good data available
- **second session** held from 10 to 12 May 2023 → tested one board (4 sensors), **long runs are synchronized** after update of the firmware made by Eleuterio
- **slow control** implementation **ongoing**
- a test with more boards is foreseen as soon as possible

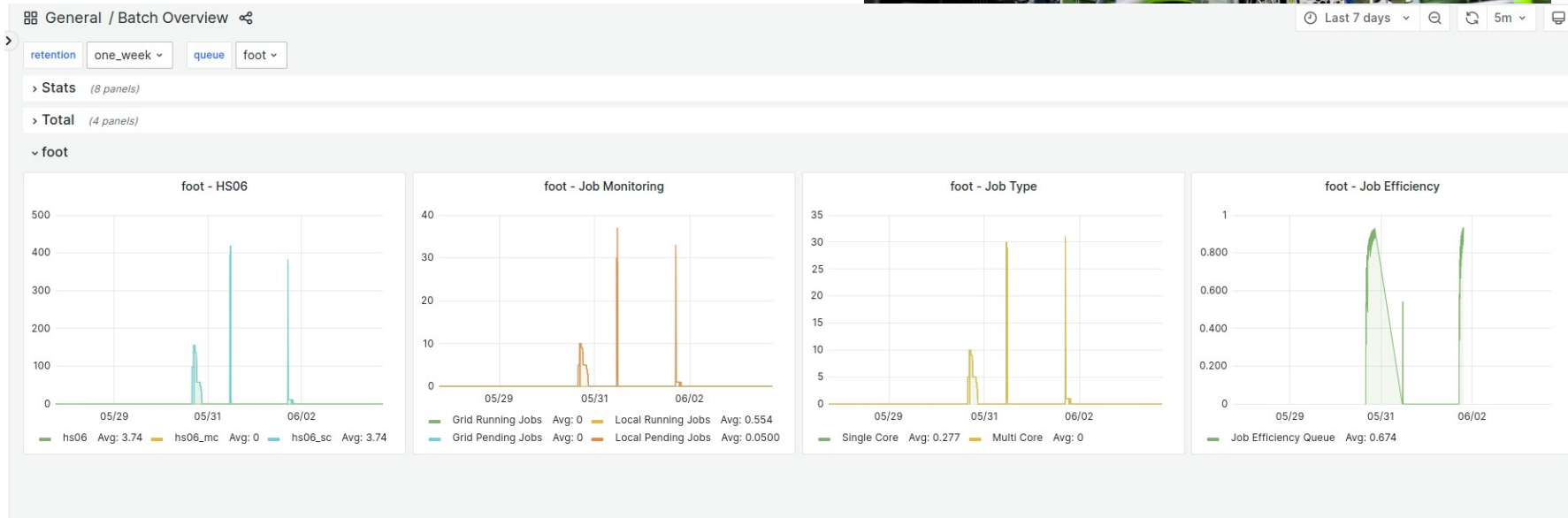
Migration to Tier1

- from HIT2022 we started to transfer data in real-time in Tier1 (more than 100TB available)
- this triggered also a migration of processing and analysis: ROOT was installed (thanks Tino) and a useful guide to use Tier1 computing resources is available in the [FOOT Twiki](#) (thanks Roberto Z)
- a detailed Tier1 guide is available [here](#)



Migration to Tier1

- from HIT2022 we started to transfer data in real-time in Tier1 (almost 100TB available)



Grafana Tier1

Conclusions

Ongoing TDAQ development in last months in view of 2023 data takings

IT (and VTX) integration still in progress

Update of TDAQ software in progress

Tier1 is ready to be used (goodbye Tier3)



Thanks for listening!