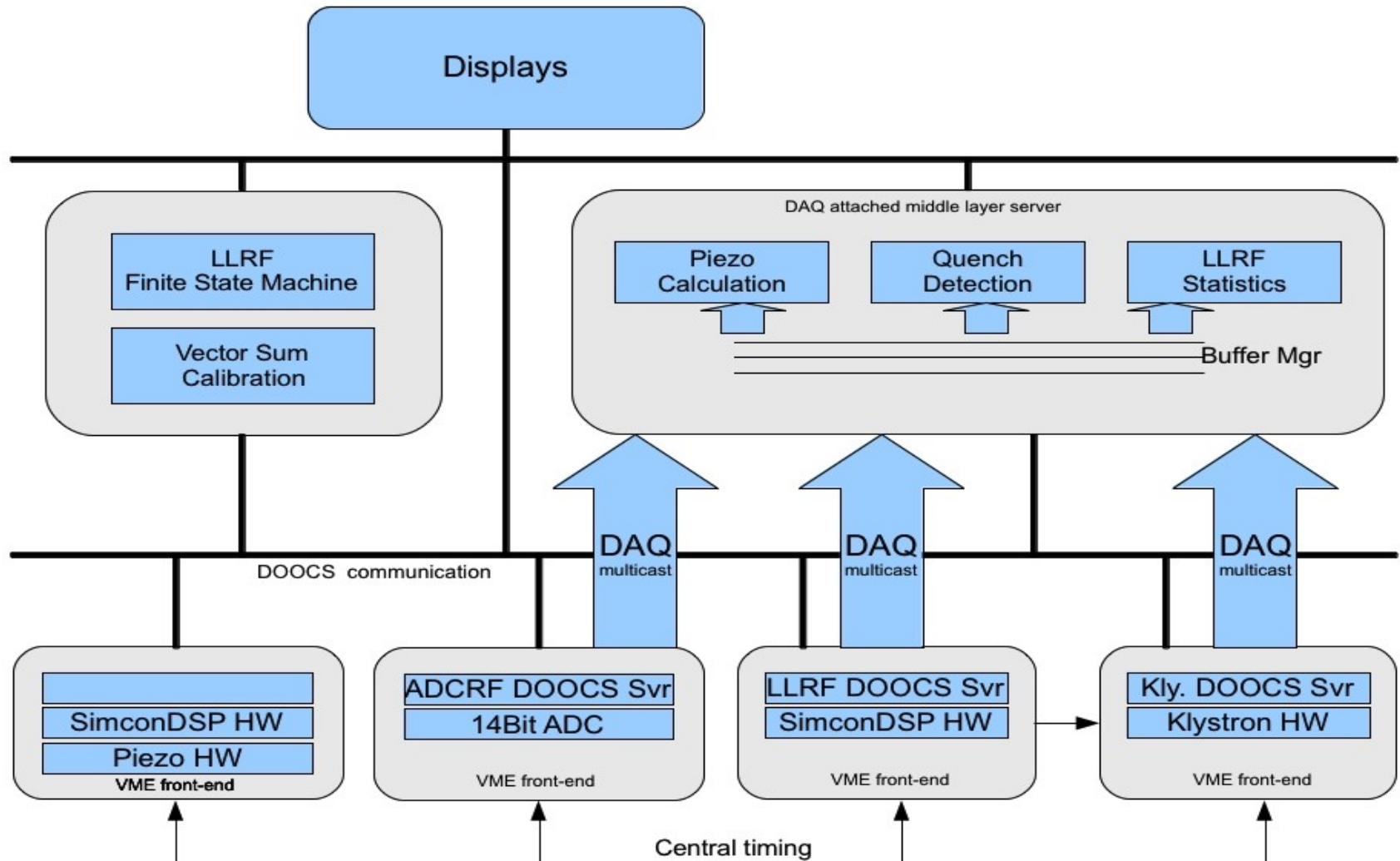
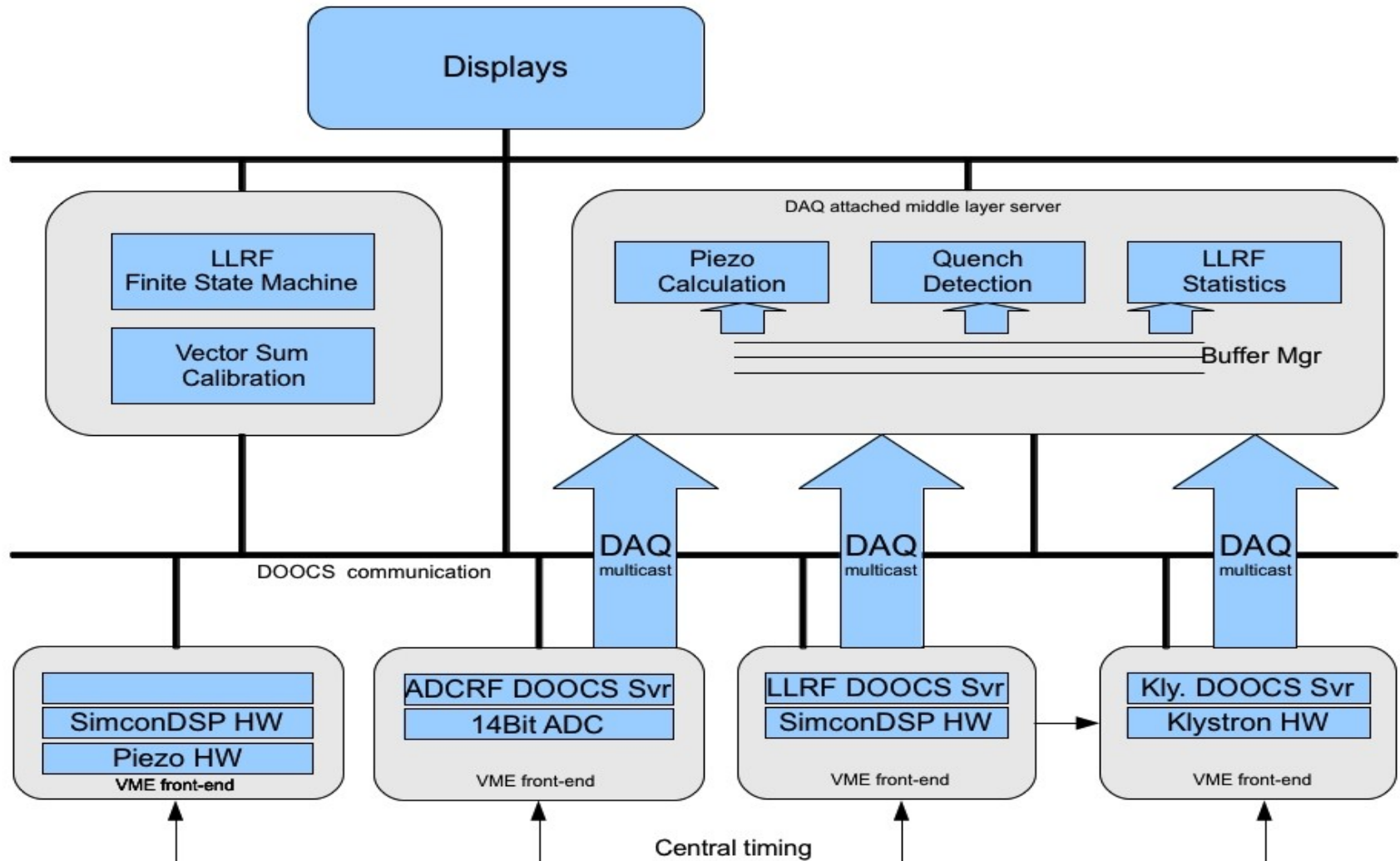


# Quench Detection @ FLASH

Olaf Hensler  
DESY - MCS







- Quench Detection server runs attached to the DAQ Shared Memory
- Calculates  $Q_{loaded}$  just after the Flattop end
  - Over 100 samples (Property)
- Build a mean of  $Q_{loaded}$  over 10 pulses
- Quench is detected, when  $Q_{loaded}$  has a sharp drop
  - By 500000 (Property)
- Switches off the RF via the RF FSM
- Sends messages to the Alarm&Info system
  
- Known problems :
  - Never really commissioned
  - Pulse length cut from cavity limiter not detected reliable
  
- Next Steps : Tests at CMTB

