



Early Experiences in Adopting EPICS

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ISIS Accelerator Controls



ISIS (and Diamond)



Diamond

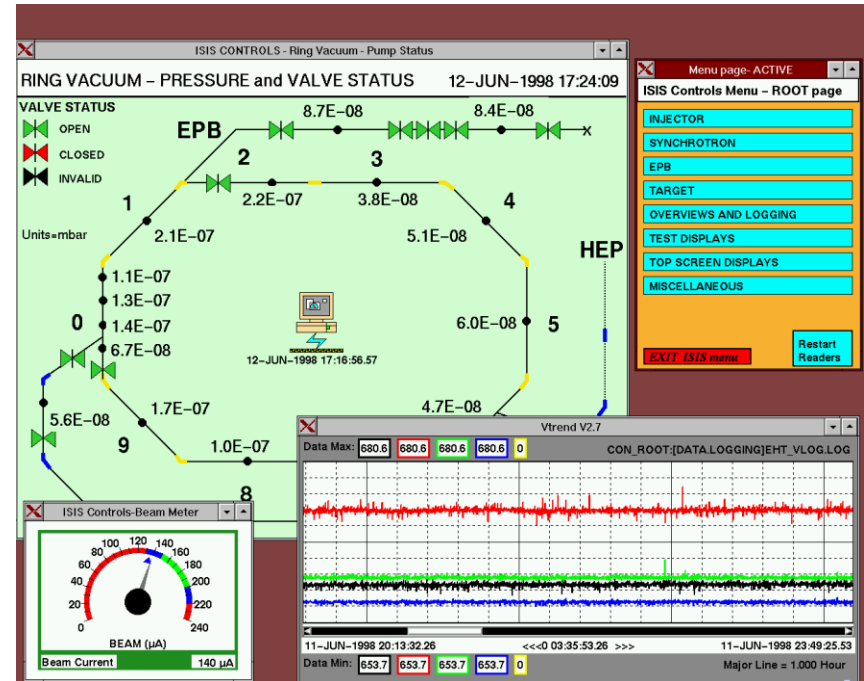
ISIS



Accelerator Controls

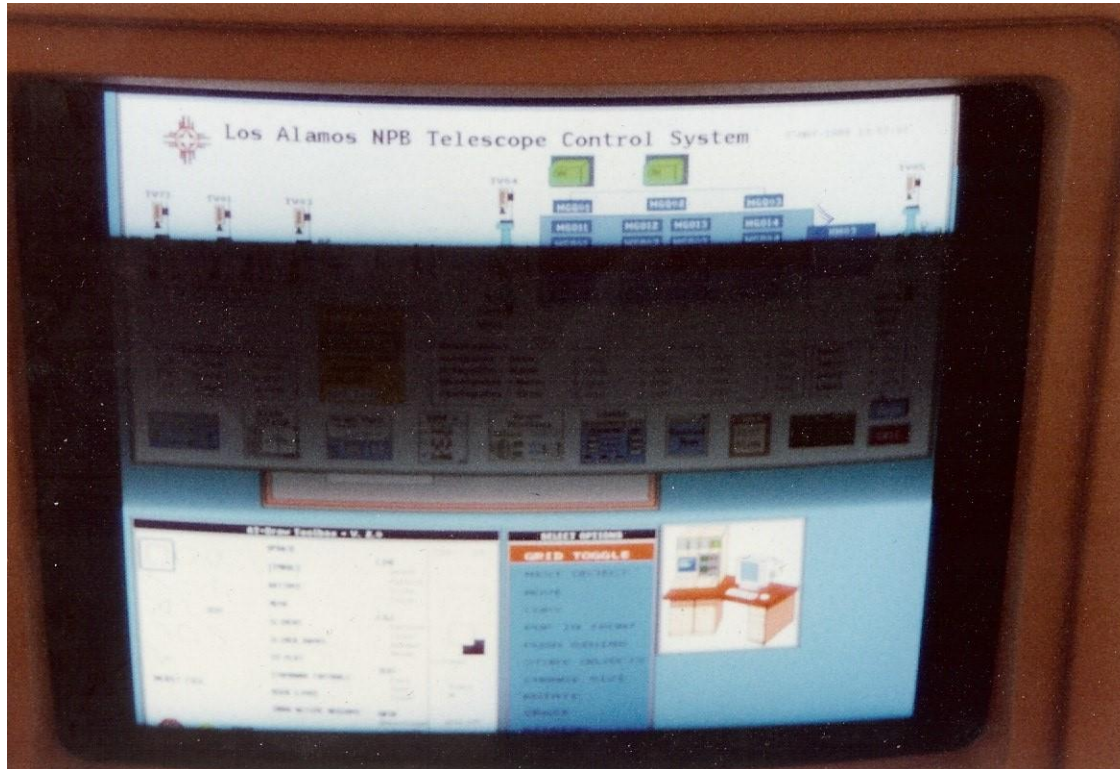
Vsystem is a commercially supported package, related to EPICS.

Vsystem is installed on the OpenVMS operating system on Intel Itaniums.





Separated at Birth

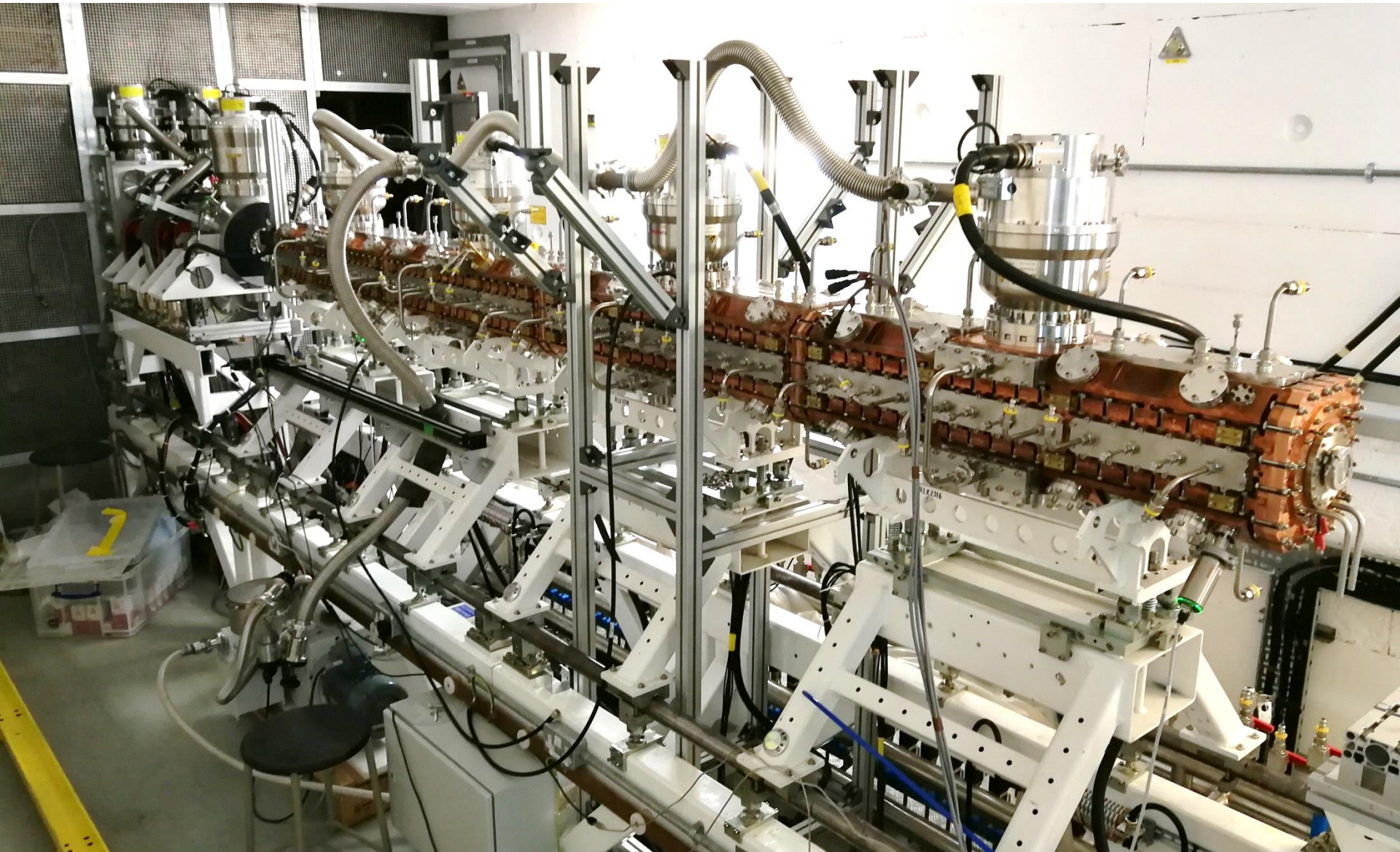




The Future at the ISIS Accelerator

- Test deployment of EPICS on a limited subset of equipment (FETS).
- Parallel deployment with existing Vista Controls system, potentially moving database by database.

The Science Bit – Front End Test Stand (FETS)





Current Development

- MQTT being used to read live data from existing Vista control system
- Next shutdown MQTT used to write data to existing Vista control system
- Implemented bridge between MQTT and EPICS using pvDatabase. Thus soon interface to existing hardware.



Conclusion

- ISIS Accelerator Controls piloting conversion to EPICS.
- Say hello and tell me what you'd do if you were starting your EPICS deployment from scratch. (I am!)
- Feedback from a new EPICS7 developer: Simple example code needed as well as complex



The Past



The original ISIS Main Control Room in 1985, shortly after first neutron beam. The user interface was based on the CERN SPS system but was ported to GEC 4000 series computers.

The control screens used touchscreens and programmable hardware knobs to allow user input.