

DAQFE – DATA ACQUISITION SYSTEM



DAQFE is a high speed data acquisition system that utilizes fiber optic and copper LAN technology for data transfers. The system is designed to have a large number of channels with minimal latency and no data loss.

SYSTEM FUNCTIONS

- Continuous, real time data collection of the following:
 - 1440 A/D Channels
 - 800 Pressure Channels
 - 16 Frequency Channels
 - 48 Digital Input Channels
 - 32 Digital to Analog Channels

SYSTEM HARDWARE

- Multiple VXI chassis, Multi-processor
- Reflective Memory (Fiber-optic data sharing)
- Synchronized multiple scan rates
 - 10Hz, 200Hz, 1000Hz
- Custom clock distribution
- Ethernet, GPIB, RS232 Interfaces
- NIST traceable calibration
- IRIG-B time stamping

SYSTEM SOFTWARE

- Operating Systems – Unix, Linux, and Windows (NT and XP)
- Languages – C, C++, Visual Basic
- Functions:
 - Acquire data from Sensor Suite
 - Output data to Host
 - System calibration with NIST Traceability
 - System Diagnostic and Troubleshooting
 - Creates hardware specific scan lists
 - Interfaces the reflective memory to the host

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