The ASIST Spacecraft Ground System

Information Systems Center Branch
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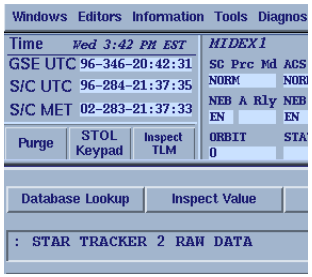
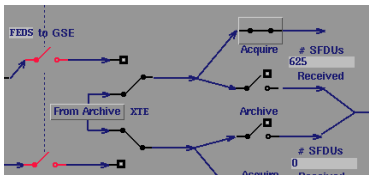
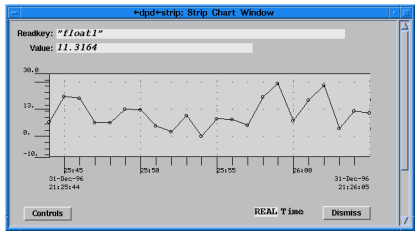
ASIST is a real-time command and control system for spacecraft development, integration, and operations. Mature and reliable, ASIST has logged hundreds of thousands of hours.

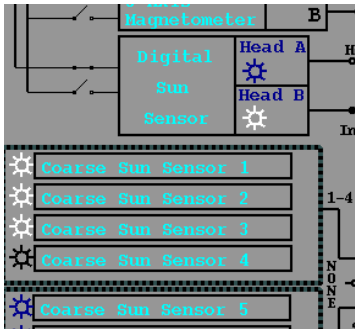
Missions supported:

- ST5
- GLAS Instrument Development
- Midex MAP Development, I&T, and Operations
- EO-1 Development, I&T, and Operations
- Midex IMAGE Operations
- TRMM I&T
- XTE I&T
- Far Ultraviolet Spectroscopic Explorer FUSE I&T
- CIRS instrument on Cassini
- X-Ray Spectrometer Detector System (XDS) on Astro-E
- Solid State Recorder development for HST and Landsat-7









Features of ASIST

- Distributed, scaleable workstation-based architecture
- Standard network, operating system, graphical display
- Cost-effective use of off-the-shelf technology
- CCSDS telemetry and telecommanding
- Rapid prototyping of databases, displays, and procedures
- Parallel commanding from multiple workstations
- Mass storage of telemetry records entire mission history
- Workstations get independent telemetry, realtime or playback
- Built-in rule-based monitoring

Contact Edwin Fung, NASA GSFC Code 584, for more information about the ASIST Ground System (at edwin.fung@gsfc.nasa.gov) or see our web site at http://rs733.gsfc.nasa.gov/ASIST