

Application Note

International Flight Test Centers

VMEwindow[®] acquisition & processing of aircraft data



AP Labs continues to supply high-performance data acquisition and processing subsystems for flight test center customers. In the International arena, these systems have been installed in both Asia and Europe.

Capable of handling multiple PCM telemetry streams at rates of up to 10 Mbps, the real-time system is controlled by the standard AP Labs VMEwindow[®] software package which supports:

- EU and derived parameter processing
- Data archive to disk, tape, or RAID
- Graphical display of data
- Analog out to support strip charts or pilot/tower voice
- Data replay allows recreation of all or part of flight test

Other AP Labs software in use at the Test Centers includes:

- Observer: real time graphical displays on remote workstations
- Xplore: post processing and data analysis of archive file
- Profiler: automatic test control including operator specified data markers

Data Processing Subsystem is based on standard VMEwindow PCM Telemetry system software, providing both flexibility and scalability

- **Observer** provides real-time remote data display capability
- **Xplore** provides post-processing data analysis capability
- **Postgen** provides easy link to third-party and customer-developed analysis software routines