

Advanced Telemetry Front End

International Business Machines
Gerald Weiss



ABSTRACT

In order to support the higher telemetry rates and novel telemetry data structures anticipated in the 90's, high performance, readily adapted telemetry processing systems will be required. In this paper, an advanced multiprocessor front end utilizing an open architecture based on Multibus II is described. The system employs primarily COTS hardware and software products, in addition to custom microprocessor-based frame synchronizer and block multiplexer channel interface boards. The system is designed to facilitate a modular, parallel approach to processing of incoming telemetry streams, and supports connectivity options, including standard network interfaces to workstations, as well as the channel interface to host systems.