N94-22455

VETA X-Ray Data Acquisition and Control System

R. J. V. Brissenden, M. T. Jones, M. Ljungberg, D. T. Nguyen and J. B. Roll, Jr.

Smithsonian Astrophysical Observatory
60 Garden Street, Cambridge, MA 02138
(617) 495-7387, FAX (617) 495-7356

We wish to submit this abstract to the conference
ADASS '92 for a poster preseentation

We describe the X-ray Data Acquisition and Control System (XDACS) used together with the X-ray Detection System (XDS) to characterize the X-ray image during testing of the AXAF P1/H1 mirror pair at the MSFC X-ray Calibration Facility. A variety of X-ray data were acquired, analyzed and archived during the testing including: mirror alignment, encircled energy, effective area, point spread function, system housekeeping and Proportional Counter window uniformity data. The system architecture will be presented with emphasis placed on key features that include a layered UNIX tool approach, dedicated subsystem controllers, real-time X-window displays, flexibility in combining tools, network connectivity and system extensibility. The VETA test data archive will also be described.