

Portable Broadband Instrument Center (PBIC) 1991 Progress Report

Hardware:

The following hardware was purchased in 1991

- 9 - Reftek 72A-02 Data Acquisition Systems each with
2Mb RAM, 195Mb HD, Omega timing
- 2 - Epson EHT-10 handheld terminals
- 2 - Reftek 72A-03 Portable 8mm tape recording subsystems
- 9 - FBA23 Triaxial Accelerometers with interface units to Reftek 72A-02
- 2 - Mark Products L4-3D triaxial velocity transducers
- 27 - fixed gain low-noise modules
- Misc. spare parts and accessories

Initial tests on the purchased hardware revealed some low level spiking problems that are currently being resolved. The fixes involve two modifications to each DAS.

The lab at the PBIC has been modified to facilitate work on the various pieces of equipment of the portable broadband instruments.

Software:

Several software packages (many still in Beta test versions) have been or are in the process of being developed.

csH's - Several csH's have been developed to allow ease of access to existing on-line services and datasets.

graphical display programs - Sunview programs have been developed and/or upgraded to plot EQ epicenters and seismograms on Sun Workstations.

training software - A HyperCard stack to allow potential Reftek/Epson users to get familiar with the Epson interface on the familiar Apple Macintosh platform, prior to actually receiving any equipment thus cutting down on learning time. This stack is also a potential Reftek interface for the Mac. This stack upgraded from Reftek prototype testing versions.

DAS interface software - a Sun C program to interface with the Reftek DAS's. This program is designed to be upgraded to some type of graphical user interface for the Sun/Refteks. Currently used to download synchronized time from the Sun to the DAS.

An anonymous ftp account has been set up at crustal.ucsb.edu where copies of SCEC developed software and instrument schedules will reside.

Community Interaction:

The PBIC has maintained contact with PASSCAL instrument center at Lamont to keep in touch with current developments from their group. We have also kept them informed of problems encountered here. Support has been offered to all SCEC personnel wishing to use the portable instruments.