SEISAN Earthquake Analysis Software

The SEISAN seismic analysis system is a complete set of programs and a simple database for analysing earthquakes from analog and digital data. With SEISAN it is possible using local and global earthquakes to enter phase readings manually or pick them with a cursor, locate events, edit events, determine spectral parameters, seismic moment, azimuth of arrival from 3-component stations and plot epicenters. The system consists of a set of programs tied to the same database. Using the search programs it is possible to use different criteria to search the database for particular events and work with this subset without extracting the events. Most of the programs can operate both in a conventional way (using a single file with many events), or in a database manner. Additionally, SEISAN contains some integrated research type programs like coda Q, synthetic modeling and a complete system for seismic hazard calculation (Ottem¨oller and Havskov, 2012).

How to get SEISAN

SEISAN can be copied from ftp.geo.uib.no (129.177.55.4), login is ftp and password is your email address or from https://www.uib.no/rg/geodyn/artikler/2010/02/software On the AFTP server go to /pub/seismo/SOFTWARE/SEISAN. Use binary mode for the compressed files (tar and zip). Before copying, check the readme file for latest updates, changes and current content of the directory. The directory will at least contain the following files:

seisan X.Y .unix.tar.gz	a compressed tar file, whole distribution with executables and test data, X.Y stands for the latest distribution number and Unix for the respective Unix system (solaris or linux).
seisan. X.Y.exe	Windows distribution an install file
seisan X.Y.pdf	The SEISAN manual, Adobe PDF
seitrain X Y.pdf	SEISAN training course
testdata X.Y.tar.gz	SEISAN data for the training course

Alternatively SEISAN might be obtained on a CD with the same content as above (write to jens@geo.uib.no).

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