

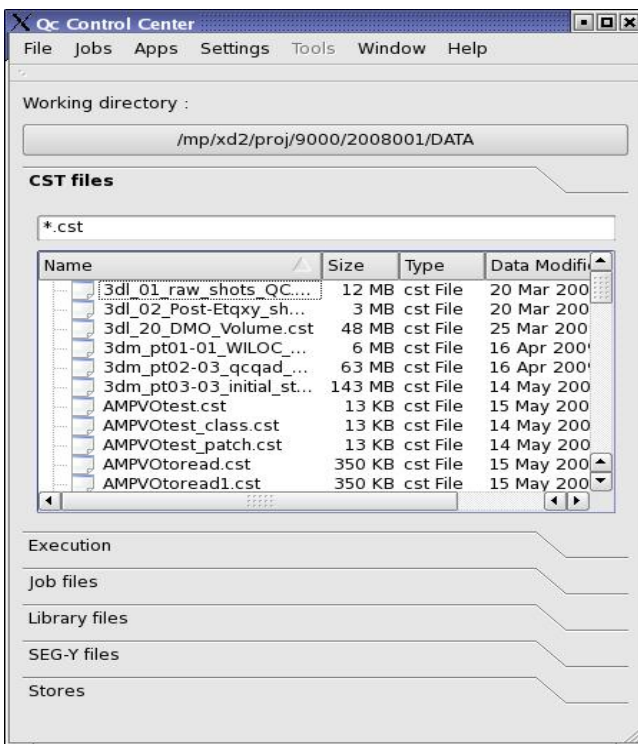


## GeoSeisQC is a programme for quality control of field data and initial processing of 2D and 3D seismic exploration data

The programme package is designed to control the seismic exploration works and estimate the seismic data quality

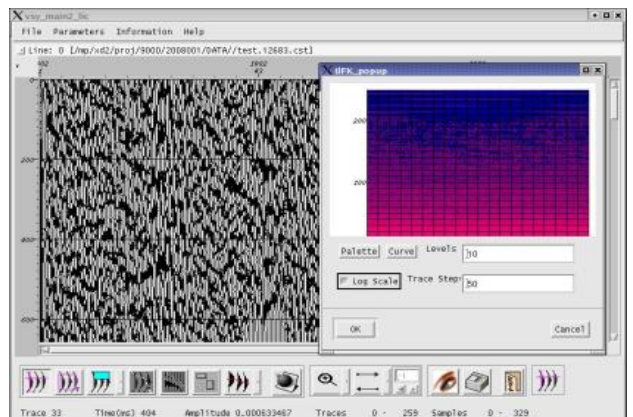
### GeoSeisQC basic advantages

- Comprehensive set of tools to solve the tasks of quality control and field data express-processing
  - GeoSeisQC software includes all the range of necessary tools and procedures
- Maximum reliability and simplicity of use
  - friendly behavior towards the user, efficiency and reliability
- Package scalability
  - a flexible system to manage the package modules without additional installations or some other special actions

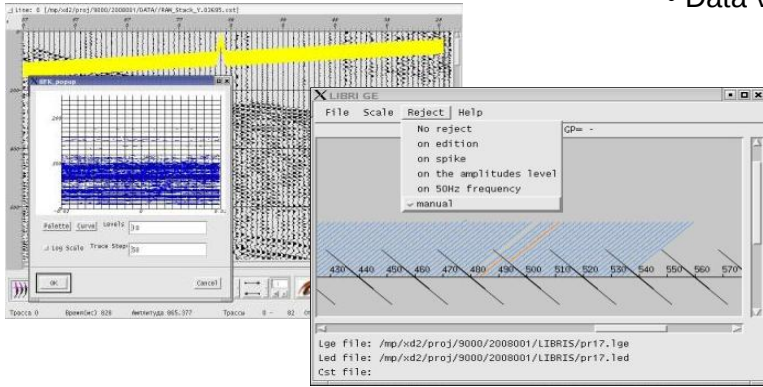


### GeoSeisQC software capabilities

- Primary data analysis
- Primary data processing
- Quality evaluation
- Related programs



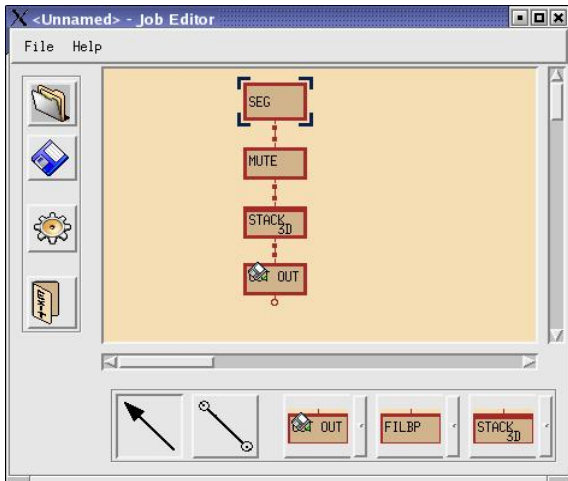
# Primary data analysis



- Data visualisation with customized parameters;
  - Work with SPS-files; automatic generation of geofile, libraries coordinates, a-priori static corrections for 3D data.
- Visualisation of 2D and 3D observation systems.
- 2D and 3D data geometrization
- Selection of a priori velocity law, a priori muting, filter parameters

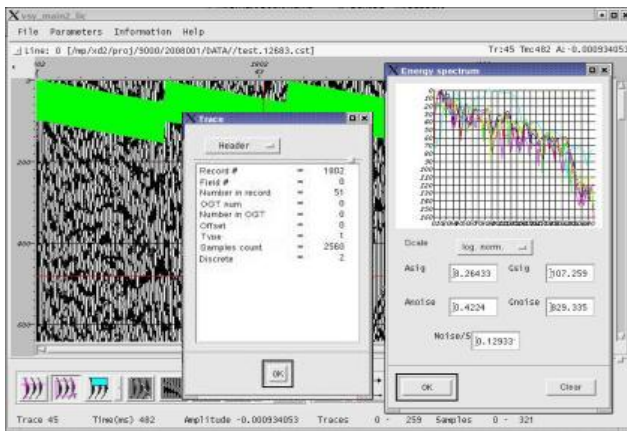
# Primary data processing

There is a number of modules providing different tasks over a seismic data:



- mathematical operations over trace calculation;
- geometrization;
- deconvolution;
- trace editing;
- coherent, band, surgical, rejection filtering of the signal;
- automatic adjustment of the signal;
- muting;
- stacking;
- NMO corrections;
- calculation of seismic records attributes;
- frequency dependent noise attenuation;
- reading, writing seismic files of SEG-B, SEG-D, SEG-Y and CST formats;
- static corrections;
- sorting CST-files;
- automatic noise attenuation and estimation of the seismic data quality;

# Quality evaluation



- Efficient quality estimation.
- Definition of the signal-to-microseism ratio with tables and plots

• Quality evaluation by frequencies and amplitudes

• Calculation of average level of the signal, noise, signal/noise ratio and other parameters

