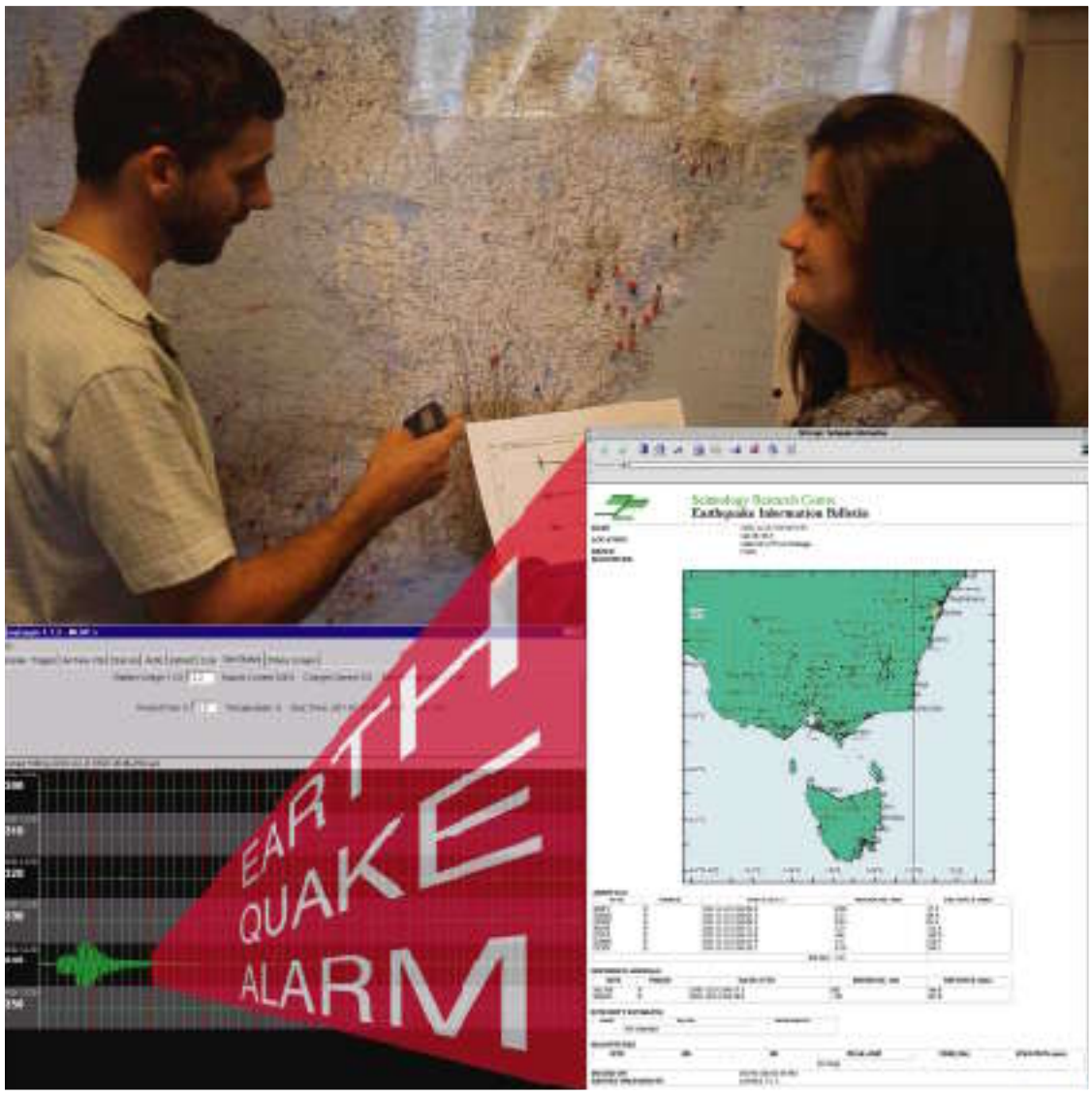
eqSuite Realtime Software

eqWatch & eqLogger



Applications:

- Display, archive and retrieve continuous seismic data (eqLogger)
- Automatic earthquake location, alarm and notification (eqWatch)
- Seismic network management (eqWatch)

Features:

- Database information storage and retrieval
- Multiple notification methods (eqWatch)
- Runs on any platform that supports Java 1.2 or later

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eqWatch

eqWatch is a real-time event location and alarm program. It accepts triggers from seismographs or eqLogger and performs event association, location, and alarm generation.

Inputs
- Earthquake and state of health information telemetered from seismographs as PC-SUDS files
- Manually entered arrivals
- Emails from other systems

Outputs
- Triggers stored in a database. Most commercial databases can be used, allowing the data to be used in a wide variety of other programs such as eqFocus, GIS, spreadsheets and web pages
- State of health history for each contributing Kelunji
- A web page of the event, which includes a map, arrivals, magnitudes and location. The page is based on an easily modifiable template
- Email, pager and SMS messages give users a quick alert within a few minutes of an earthquake, and are also used for network health alerts. Updated alerts are sent as more information becomes available
- Audible alert when an earthquake is detected

Display
- Network state of health information
- Log of recent arrivals and alerts

Requirements
- Any computer with Java 1.2 virtual machine or later
- A JDBC capable database, such as Microsoft Access or SQL Server

eqLogger

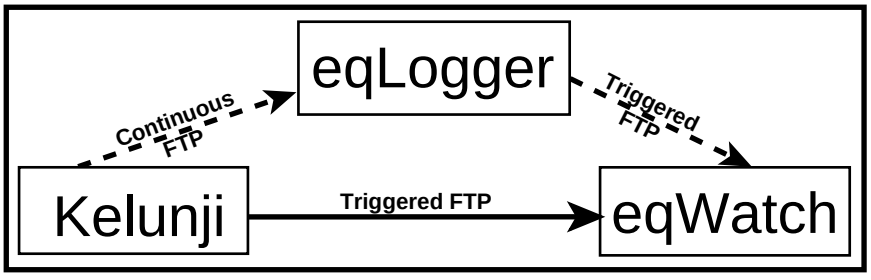
eqLogger is a seismic data display and archive program designed to accept PC-SUDS format data files from seismographs.

Inputs
- PC-SUDS files generated by a number of seismographs. Data may include waveforms, detected arrivals, maximum amplitude and frequency, earthquake duration and state of health information

Outputs
- Trigger information stored in PC-SUDS files can be sent to remote sites running eqWatch via FTP (including via dial-up connection)
- Earthquake and state of health alerts
- PC-SUDS files compressed and stored in a ring-buffered archive using a hierarchical file system
- PC-SUDS files extracted from archive
- Log file containing triggers, dial-up history, etc.
- Alarm on:
  - Seismograph trigger
  - Seismograph battery level and storage capacity
  - Seismic signal level

Display
- Continuous waveforms
- Archived data
- Operational status and history of archive
- Seismograph state of health information
- Dial-up telephone statistics (for monitoring the costs and quality of a dial-up connection)

Requirements
- Any computer with a Java 1.2 virtual machine or later



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