Development of a SeedLink interface for the WIN system

Tadashi Yamashina[1]

[1] NIED

I develop a SeedLink interface for the WIN system. The SeedLink protocol is a data transmission protocol and it is developed and maintained by the GeoForschungsZentrum Potsdam (GFZ), Germany. GFZ, the Incorporated Research Institutions for Seismology (IRIS), and some institutions operate the SeedLink server to data distribution in quasi real-time. In Japan, the WIN system (Urabe and Tsukada, 1992) is widely used for seismic observation and data processing. Development of a data acquisition system from the SeedLink server to the WIN system is useful for integrating global and domestic data. It also helps us to use analysis programs designed for win format data.

This new program is a SeedLink client and has following functions: (1) Receiving data stream (512-bytes Mini-SEED format record) from a SeedLink server; (2) Format conversion from Mini-SEED format to win format; (3) Writing converted data record onto shared memory. The data in shared memory can be handled by programs of the WIN system. This program is written in C language and needs the SeedLink client library 'libslink (Ver.1.6)' which is available from IRIS's web page. I am developing it on a Linux Operating System, and verified running on openSUSE 10.1 and Fedora Core 4.

Reference:
Urabe, T. and S. Tsukada, 1992, Prog. Abst. Seis. Soc. Jpn., No.2, P41 (in Japanese)