

IRIS: Interactive Seismic Code

THE LLNL TECHNOLOGY

An interactive code called Seismic Analysis Code (SAC) designed for the study of seismic events, specifically sequential signals and time series data. SAC's emphasis is on analysis tools most desired by research seismologists for detailed analyses. Capabilities include general arithmetic operations, Fourier transforms, three spectral estimation techniques, IIR and FIR filtering, signal stacking, decimation, interpolation, correlation, and seismic phase picking. SAC also contains an extensive graphics capability. For more information about SAC, see LLNL's SAC home page at <http://www.llnl.gov/sac/>

COMPANY

IRIS (Incorporated Research Institutions for Seismology) is a university research consortium dedicated to exploring the Earth's interior through the collection and distribution of seismographic data. IRIS programs contribute to scholarly research, education, earthquake hazard mitigation, and the verification of the Comprehensive Test Ban Treaty. LLNL granted IRIS a nonexclusive license so that IRIS can distribute the code to its members, who are primarily researchers. Support for IRIS comes from the National Science Foundation, other federal agencies, universities, and private foundations. For more information about IRIS, see <http://www.iris.edu/>

PRODUCT

SAC2000 offers IRIS members sophisticated analysis tools for studying seismic events. IRIS distributes it as an end user license.

IMPACT

Distribution of SAC by IRIS to its large membership fulfills the goal of the Laboratory and IRIS for easy, broad distribution to those who can benefit from it.

