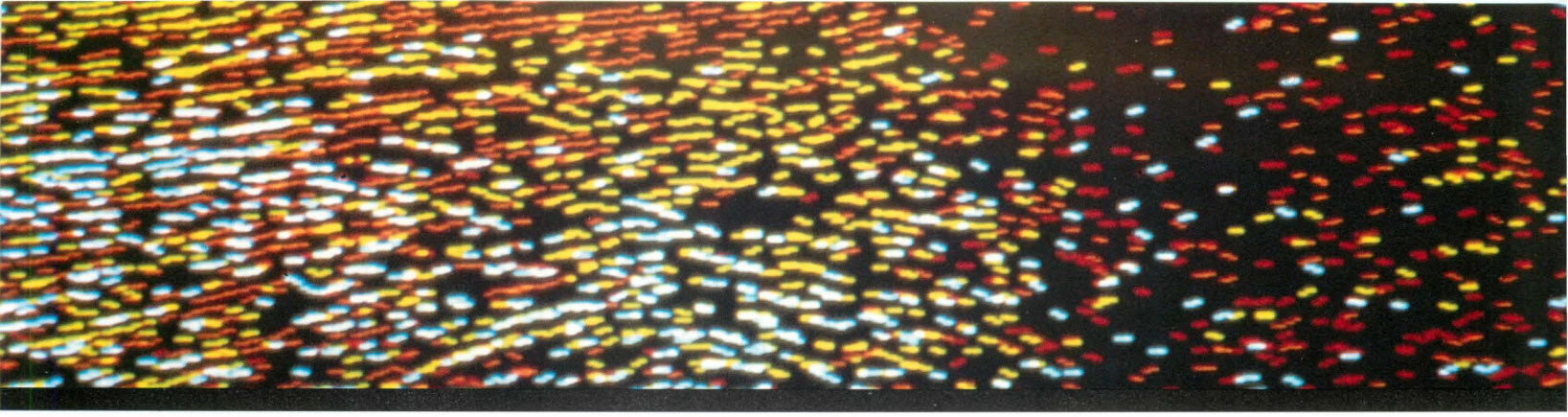
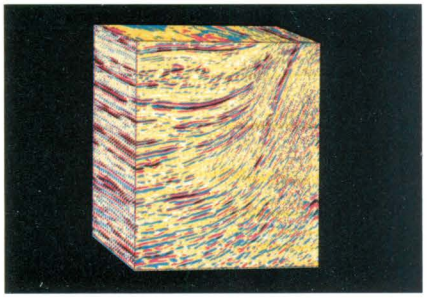


CONVEX C1 SUPERCOMPUTER AND DISCO

Convex and DISCO Open Up A New Dimension of Seismic Processing

DISCO'S 3D Processing Package Takes Full Advantage of the C1's Fast, Integrated Scalar and Vector Processing

DISCO™ from CogniSeis Development is a premier seismic processing package, widely used throughout the world by seismic contractors, oil companies, and universities.

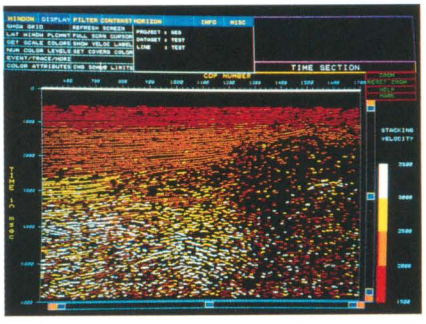


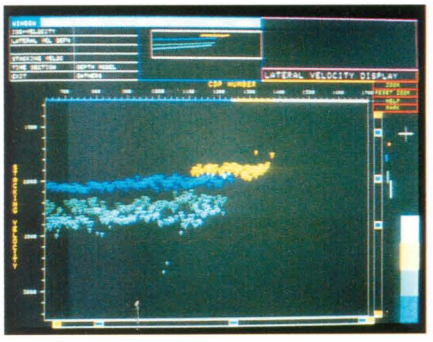
The CogniSeis 3D Processing package, one of the most powerful packages in the DISCO product line, is now available on the Convex C1 supercomputer. This package is capable of handling either land or marine 3D processing and supports a wide variety of navigation coordinate input formats in defining the 3D geometry. All parameter interpolation is done by triangulation. Velocity analysis and normal move-out use three parameters: velocity, dipx and dipy. Both 3D finite difference and 3D FK migration are available. Other highlights of the package are true 3D prestack residual statics, multi-bin stacking, trace interpolation, nongather stacking, 3D post-stack residual statics and the generation of time slices or oblique lines in color. All necessary 2D DISCO conventions have been expanded to cover 3D applications, making the transition from 2D to 3D processing very easy.

The C1's integrated vector and scalar processing significantly enhances the power and speed of DISCO and offers solid price/performance. DISCO has isolated a computation intensive set of routines that all modules call for heavy computing. These routines are tuned to run at optimum speed in the Convex C1's vector processor.

DISCO: Its Power Comes From Its Features

DISCO is a highly versatile, cost-effective, state-of-the-art seismic processing system. DISCO benefits from continuous research into the technology that is necessary to overcome the many problems associated with the processing of seismic data. It

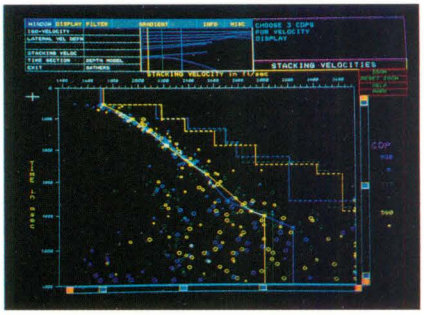




includes a basic package of practical, problem solving seismic techniques. It also includes a number of advanced packages that incorporate the latest developments in migration, advanced velocity analysis, wavelet processing, signal enhancement, refraction statics, and vertical seismic profiles.

Developed and fully supported by CogniSeis, DISCO has been specially optimized to take advantage of the Convex C1 supercomputer. The Convex C1 is a general purpose, stand-alone supercomputer with Cray®-like architecture with integrated scalar and vector processing. This means that the C1 supercomputer can operate on single entities of data and also, as is common in the seismic world, the C1 can operate on large arrays, or vectors, of data. This eliminates the need for attached array processors and special programming considerations to make the array processors work.

CONVEX C1 SUPERCOMPUTER AND DISCO



Features of all DISCO packages include: completely modular organization; a powerful control program called the DISCO MONITOR which provides the computer user with tremendous flexibility and greatly simplifies program development; interactive capabilities; an integrated data base which is updated for each processed line with such information as shot, receiver, and common depth point geometry and elevations, velocity tables, filters, statics, wavelets, and well log information; DISCO macros which can combine desired modules under one name, thereby simplifying routine processing.

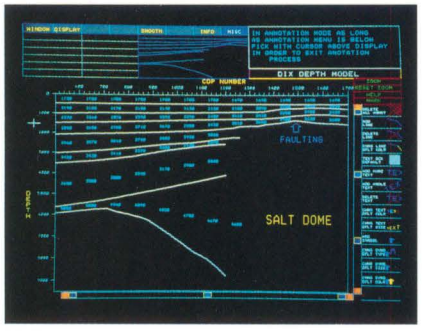
The C1 Gives DISCO New Power

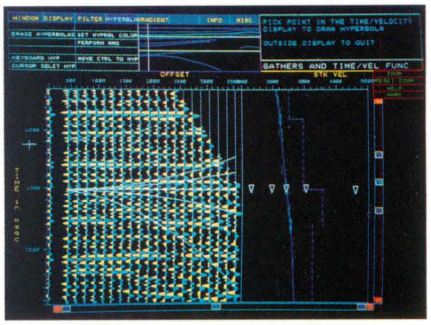
Attaining new levels of power and speed is critical for meeting today's seismic problems. These problems are increasingly demanding vector processing, large amounts of physical memory, and highly tuned I/O. The C1 used these supercomputer features to expand seismic possibilities.

The C1, which operates at 40 million floating point operations per second, offers high-speed performance with the Convex UNIX® virtual memory operating system. The C1 also has massive virtual memory (4 GBytes), large physical memory (1 GByte), asynchronous I/O, and a disk striping facility that maximizes I/O throughput. Extensive communications and networking capabilities allow the Convex C1 to operate in a heterogeneous computing environment. The C1 can serve as a standalone processing machine, a development machine, a computational server to workstations, or any combination of the above.

The Convex C1 Shortens Throughput and Increases Geo-Scientist Productivity

Because the C1 is a multi-user/multi-tasking machine, multiple DISCO jobs can be run simultaneously. Coupling this power with the flexibility of DISCO enhances the productivity of all who use the system.





DISCO and Convex: All The Support You Need

The Convex C1 is supported by an advanced fault-prevention and diagnostic system. Additional support is provided by the Technical Assistance Center and by local field offices.

The Convex C1 and DISCO – a powerful combination for seismic processing.

CONVEX

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Graphics developed using CogniSeis IVIS.

080-000993-000 Printed in the U.S.A.