ASPEN ECHOS™

The industry benchmark for seismic data processing and analysis

2023

aspentech

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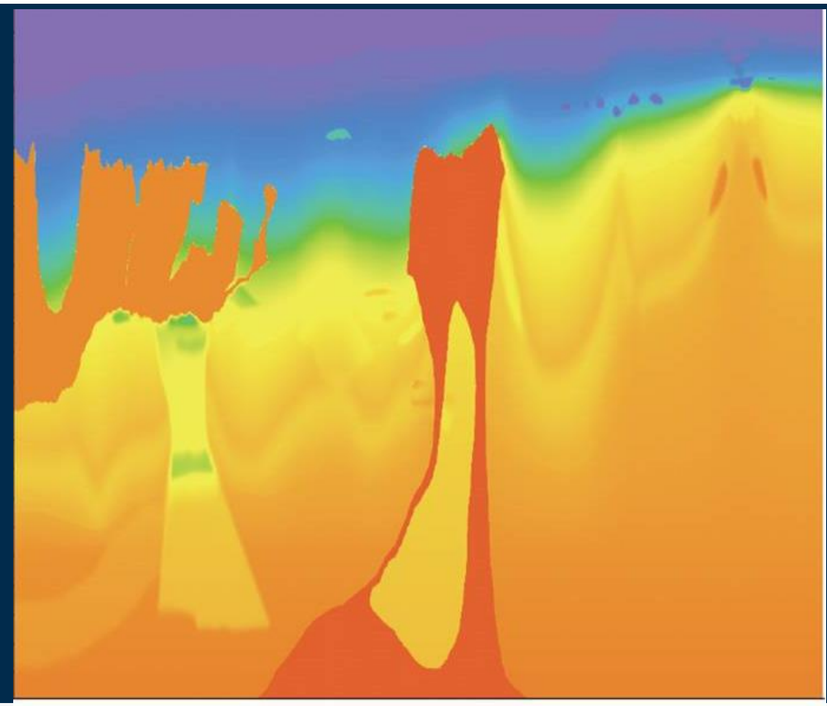
Microsoft

Keep up with the exponential growth and variations in data acquired using modern technologies

Modern acquisition technologies are able to produce massive amounts of data, and processing technologies are required to handle them in a performant matter.

Customers need reliable, 24x7 computations on high-performance computing clusters, as well as the interactivity required for detailed analysis and continuous image improvement.



CHALLENGES

Process the huge amounts of data being acquired today

Effectively use available hardware

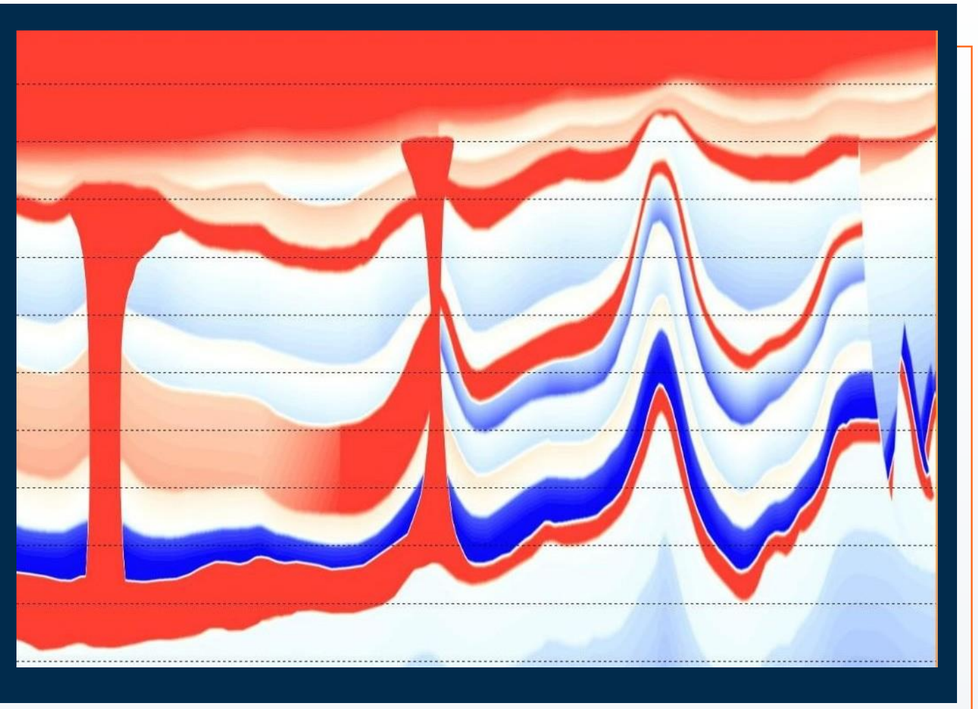
Efficiently remove noise and artefacts from the data

IDEAL SOLUTION

A state-of-the-art seismic processing for generating 2D and 3D seismic images of the subsurface, with a highly efficient parallel processing framework and infrastructure for cluster optimization.

DESIRED OUTCOMES

High-resolution images that can be used in depth imaging and interpretation workflows, resulting in a better understanding of the subsurface geology.



Aspen Echos

Aspen Echos provides a wide breadth of geophysical applications, leading-edge geophysics, transparent blending of batch interactive processing, architecture for computation parallelization and a versatile programming development kit for client customization.

1

FLEXIBLE AND CUSTOMIZABLE

A modular design, open architecture and adherence to standards enable companies to configure the system to their business objectives and user requirements.

2

INNOVATION IN SEISMIC DATA ANALYSIS

State-of-the-art seismic processing and imaging solutions, including SRMA, 5D interpolation and Aspen Echos RTM.

3

ADVANCED GEOPHYSICAL APPLICATIONS

Optimizes ROI in challenging environments with hard-to-recover reserves, such as deep water, unconventional shale resource plays, fractured carbonate reservoirs, and fault sealed traps,

Aspen Echos & Microsoft Azure

With Aspen Echos and Microsoft Azure, users have access to best-in-class applications from anywhere with an internet connection, and data can be shared between multiple users.

BENEFIT FROM CLOUD COMPUTING POWER

Access to latest hardware on the cloud enhances performance of AspenTech applications

BENEFIT FROM CLOUD SCALABILITY

Elasticity of the cloud for HPC applications – infinite compute capacity

BENEFIT FROM COST-EFFECTIVE STORAGE

Support for Azure blob storage for seismic data

Customer Success

“Final broadband processed data are much superior to the conventional processed data showing vertical fault systems and a thin hydrate reservoir.”

Dr. Anand Prakash, ONGC

Broadband processing improves frequency bandwidth

Higher-quality images of the seismic data revealed small-scale faults that were previously undetected, leading to more accurate interpretation and a better understanding of the reservoir structure.

Enhanced reservoir characterization accuracy

The higher data quality led to improved AVO analysis, providing Direct Hydrocarbon Indicators which helped the operator find the gas hydrates.

Better use of legacy data

The ability to extract additional information from legacy data saved the customer cost and time in acquiring and processing new data.

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Subsurface Science & Engineering

Aspen Echos™

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