

# PARADISE SCRIPTING SUITE

## OVERVIEW

The Paradise Scripting Language (PSL) is a powerful procedural and interpreted language for geophysical signal and neural network analysis. PSL commands are written using the Paradise Scripting Editor (PSE), which allows for editing, building, and debugging with ease. The Paradise Script Processor (PSP), which runs the scripts, is a language processor constructed with Intel Fortran, Parallel Studio XE 2016 64-bit in Windows Studio Ultimate.



## PARADISE SCRIPTING LANGUAGE (PSL)

*A powerful procedural language for geophysical signal and neural network analysis*

### PRE-BUILT GEOSCIENCE SCRIPTS

Convenient scripts ready for use:

- **Seismic rotate:** rotate phase of seismic data
- **Seismic resample:** resampling of seismic data
- **Seismic filter:** applying a bandpass filter to the seismic data
- **Amplitude scaling:** applying a math operator and a constant to each trace
- **Amplitude normalizing:** setting the mean value of each trace to a user defined constant value
- **Amplitude clip:** clipping the trace to a positive and negative value
- **Amplitude spectrum:** generating an amplitude spectrum of a seismic line or subline
- **Amplitude analysis:** analyse amplitude spectrum, extracted wavelet, tuning analysis and wedge model

```
ImportSegy.kfi*
1 batch/
2 set survey name = 1/
3 set survey path = 2/
4 set segy path name = 3/
5
6 newlabel survey name/
7 Beg
8 newlabel survey path/
```

### 600+ GEOSCIENCE-SPECIFIC COMMANDS FOR ANALYZING GEOSCIENCE DATA

Commands categories include:

- 1D, 2D, 3D modeling
- 1D, 2D, 3D processing
- 1D, 2D picking
- 1D, 3D attributes
- 2D F-k Processing
- 1D Fourier and Walsh domains
- Data writing and reading
- Drawing tablet, horizons and grids
- Vector signals and wavelet signals
- Linear operators and matrix operations
- Queries and many more...



# PARADISE SCRIPTING PROCESSOR (PSP)

*A software application for optimized multi-thread vectorized performance.*

## **DYNAMIC MODES**

Operate in single or parallel processing(multi-batching) modes within a workspace.

## **PARALLEL PROCESSING**

Take full advantage of multi-processor, high-performance computer systems by leveraging large parallel processing, which is essential for solving high-dimensionality problems involving large amounts of data.

## **SIX-DIMENSIONAL MEMORY SCRATCHPAD**

Six-dimensional memory scratchpad temporarily holds seismic signals for analysis and processing.

## **CGM SUPPORT**

CGM graphics support.



# PARADISE SCRIPTING EDITOR (PSE)

*A development environment for the Paradise AI workbench*

## **EDIT, BUILD, AND DEBUG WITH EASE**

Write and run scripts interactively.

## **SYNTAX HIGHLIGHTING**

Be instantly productive with syntax highlighting, auto-indentation, snippets and more.

## **KEYBOARD SHORTCUTS**

Navigate code with ease with intuitive keyboard shortcuts and mappings.

## **SESSIONS**

Create PSE sessions to keep your projects organized.

## **ERROR HANDLING**

Output error messages with built in diagnostics tools to address errors and provide error-fixing solutions.