ORIGIN® 2018 Graphing & Analysis

Comparison of Origin and OriginPro

OriginPro provides all of the features of Origin, plus additional analysis tools and capabilities. The following tables provide comparisons between Origin and OriginPro in such areas as curve fitting, peak analysis, statistics, signal analysis, and image handling.*

Curve Fitting		Origin	Originpro	Ma	
LINEAR AND Polynomial Fitting	Linear Regression	\checkmark	\checkmark		
	Linear Fit with X Error		~		
	Confidence Ellipse for Linear Fit	\checkmark	\checkmark	SIM	
	Polynomial Regression	\checkmark	~	- OP	
	Multiple Linear Regression	\checkmark	\checkmark		
	Partial Leverage Plots in Multiple Regression	\checkmark	~		
	Residual Analysis	\checkmark	\checkmark		
	Fitting Multiple Datasets	\checkmark	~		
	Built-in Fitting Function and User- defined Fitting Function	\checkmark	\checkmark		
	Parameter Initialization and Derived Parameter Definition	\checkmark	\checkmark	EXT	
	Bounds and Constraints	\checkmark	~		
	Weighted Fitting	\checkmark	~		
	Fitting with Y Error	\checkmark	~		
VONLINEAR	Fitting with X and Y Errors (Orthogonal Regression)		\checkmark	DIF	
ITTING	Global Fit with Parameter Sharing	\checkmark	\checkmark	TIA' Int	
	Fitting Replica Data	\checkmark	~		
	Residual Analysis	\checkmark	~		
	Fitting with Implicit Functions (Orthogonal Distance Regression)		\checkmark	ARE/ CALO	
	Fitting Comparison		~		
	Fit and Rank Multiple Models		\checkmark	OTH	
	Surface Fitting		\checkmark		

Mathematics		Origin	OriginPro
	Simple Mathematics Operations on or Between Datasets	\checkmark	\checkmark
SIMPLE MATHEMATICS OPERATIONS	Set Cell, Column or Matrix Values by Using Mathematics Operations	\checkmark	~
	Normalization	\checkmark	~
	1D Interpolation and Extrapolation	\checkmark	\checkmark
	Interpolation and Extrapolation of Y From X	\checkmark	\checkmark
INTERPOLATION AND	Trace Interpolation on XY Data	\checkmark	\checkmark
EXTRAPOLATION	Trace Interpolation on XYZ Data	\checkmark	\checkmark
	2D Interpolation and Extrapolation	\checkmark	\checkmark
	3D Interpolation	\checkmark	\checkmark
	Numerical Differentiation	\checkmark	\checkmark
DIFFEREN- TIATION AND INTEGRATION	1D Numerical Integration	\checkmark	\checkmark
	2D Volume Integration		\checkmark
	Polygon Area	\checkmark	\checkmark
AREA Calculation	XYZ Surface Area		\checkmark
	Matrix Surface Area		\checkmark
OTHERS	Average Multiple Curves	\checkmark	\checkmark
UTILIKJ	Inverse of a Matrix	\checkmark	\checkmark

To view the complete list of comparison tables go to: originlab.com/ProductComparison





PEAK ANALYSIS Baseline Detection ✓ ✓ PEAK ANALYSIS Peak Finding ✓ ✓ PEAK Integration ✓ ✓ ✓ Peak Finding ✓ ✓ ✓ Peak Integration ✓ ✓ ✓ Fit Baseline with Peaks ✓ ✓ Fit Individual Peaks with ✓ ✓ Different Fitting Functions ✓ ✓ Batch Peak Analysis ✓ ✓	Peak Analysis		Origin	OriginPro
Peak Finding ✓ ✓ Peak Finding ✓ ✓ Peak Finding ✓ ✓ Peak Finding ✓ ✓ Fit Baseline with Peaks ✓ ✓ Signal Analysis Origin OriginPro ✓ Signal Analysis Origin OriginPro ✓ SMOOTHING AND FLUERING Smoothing using Savitzky- Golay Filer, Adjacent Averoging, FTF Filer, and Percentile Filer ✓ ✓ FTF Tiffers: Low Pass, Low Pass Parabolic, High Pass, Band Poss, Band Block, and Threshold ✓ ✓ IIR Filter Design ✓ ✓ ✓ FAST FOURIER TRANSFORM ZD FFT and 2D FFT Basic Filtering ✓ ✓ Short-Time Fourier Transform (SIFT) ✓ ✓ ✓ WAVELET MALTSIS Wavelet Smoothing ✓ ✓ Vavelet Smoothing ✓ ✓ ✓ OTHERS Sort Worksheet or Columns ✓ ✓ Signal Decimption ✓ ✓ ✓ Sort Vorksheet or Columns ✓ ✓ ✓ Signal Deciope				
PEAK ANALYSIS Peak Integration Peak Filting ✓ ✓ Filt Baseline with Peaks ✓ ✓ Filt Baseline with Peaks ✓ Signal Analysis Origin Origin OriginPro Signal Analysis Smoothing using Sovitzky- Goloy Filter, Adjacent Averaging, FFT Filter, and Percentile Filter ✓ ✓ SMOOTHING AND FILTERING Smoothing using Sovitzky- Goloy Filter, Adjacent Averaging, FFT Filter, and Percentile Filter ✓ ✓ FAST FOURTR FIT Filters: Low Pass, Band Block, and Threshold ✓ ✓ FAST FOURTR ZD FIT and 2D FIT Basic Filtering ✓ ✓ ShortTime fourier Transform (SIFT] ✓ ✓ ✓ Wavelet Transform (IDWT) ✓ ✓ ✓ Wavelet Smoothing ✓ ✓ ✓ MALYSIS Continuous Wavelet Transform (CWTI) ✓ ✓ Wavelet Function ✓ ✓ ✓ Transform (CWTI) ✓ ✓ ✓ Convolution and Deconvolution ✓ ✓ ✓ OTHERS Signal Decimation ✓			\checkmark	\checkmark
PEAK ANALYSIS Peak Fitting ✓ Fit Baseline with Peaks ✓ Fit Individual Peaks with Different Fitting functions ✓ Signal Analysis Origin Origin SMOOTHING AND FILTERING Smoothing using Savitzky Golay Filler, Adjacent ✓ SMOOTHING AND FILTERING Smoothing using Savitzky Golay Filler, Adjacent ✓ FAST FOURIER RANSFORM FIT Individual Peaks, Low Pass Parabolic, High Pass, Band Pass, Band Block, and Threshold ✓ FAST FOURIER RANSFORM FFT with Basic Options ✓ ✓ Pass Parabolic, High Pass, Band Pass, Band Block, and Threshold ✓ ✓ WAVELET ANASTORM FFT with Basic Options ✓ ✓ Year Pourier Transform (STFT) ✓ ✓ ✓ Wavelet Transform (DVTI) ✓ ✓ ✓ Wavelet Denoising ✓ ✓ ✓ Continuous Wavelet Transform (CVTI) ✓ ✓ ✓ Valuetit Denoising ✓ ✓ ✓ ✓ OTHERS Sort Worksheet or Columns ✓ ✓ ✓ Sign			\checkmark	\checkmark
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To view the complete list of comparison tables go to: originlab.com/ProductComparison

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SAMPLE SIZE

ROC CURVE

and Two-Proportion Test, One and Two -Variance Test

ROC Curve



Gadget		Origin	OriginPro	APPS (CON'T)	
Gadgets	Surface Integration Gadget		\checkmark		Simple Time Series Analysis
	Global Vertical Cursor				Logistic Regression
	Global Vertical Cursol Gadget Across Graphs	\checkmark	✓		Principal Component Analysis for Spectroscopy
	Intersect Gadget	\checkmark	~		Advanced Principal Component Analysis
	Quick Sigmoidal Fit Gadget	\checkmark	\checkmark		Hotelling's T-squared Test
	Cluster Gadget		\checkmark	Statistics	Monte Carlo Simulation
	Quick Peaks Gadget	✓	· ·		Probability Distribution Calculator
		•	•		Gage Study
	Differentiate and Interpolate Gadget	\checkmark	~		Post-hoc Analysis for Nonparametric Tests
	Quick Fit Gadget	\checkmark	\checkmark		Chi-Square Test
					Hurst Exponent
	Rise Time Gadget		V		Color Editor
	Integrate, FFT and Statistics Gadget	\checkmark	\checkmark		LaTeX
APPS	Oddyei	Origin	OriginPro	Customizing	Google Map Import Maps Online
AFFO	Constrained Multiple Regression	Ungin		Graph	Import Shapefile
	Polynomial Surface Fit		· ·		Colormap for Map Data
	,		· · · · · · · · · · · · · · · · · · ·		Layer Stack Manager
	Sequential Fit		✓ ✓		Means Plot
	Piecewise Fit				Manhattan Plot for
	Enzyme Kinetics		✓		GWAS (Genome-Wide Association Studies)
	General Linear Regression		\checkmark		3D Confidence Ellipsoid
Titting	Global Peak Fit		\checkmark		Image Stack Profile
	Composite Spectrum Regression		\checkmark		Heat Map with Dendrogram
	Cyclic Voltammetry		\checkmark		Paired Comparison Plot
	Simple Fit	\checkmark	\checkmark		Kernel Density for Polar and Ternary
	Compare Datasets	\checkmark	\checkmark	Graphing	3D Stacked Histograms
	Compare Linear Fit Parameters and Datasets	\checkmark	\checkmark		3D Wall Profile
	Equations Solver		\checkmark		Plot Submatrix
	ODE Solver	\checkmark	\checkmark		Log Histogram
	Curvature Radius	\checkmark	\checkmark		Zoomed Inset
Mathematics	Onset Of Slope	· · · · · · · · · · · · · · · · · · ·	· ·		Treemap Plot Z Profiler
	Tangent	✓	▼ ✓		Volcano Plot
		✓ ✓	v v v v v v v v v v v v v v v v v v v		Polyline Profiles
	Tafel Extrapolation				Data Slicer
	Distance Between Two Points	✓	 ✓ 	Data Processing	OPJ Searcher
	Level Crossing	\checkmark	✓		Import Chem Data
	Simple pCLAMP Analyzer		✓		Movie Creator
Sec. 1	Time-Frequency Analysis		\checkmark	Import	HDF5 Browser
Signal Processing	Fourier Self-Deconvolution		\checkmark	and Export	Import Tektronix WFM Files
Ť	FFT Examiner		\checkmark		Agilent MS Reader
	White Noise	\checkmark	\checkmark		Send Graphs to Word

Note: New Apps are released frequently. Please visit originlab.com/Apps for the most up-to-date list.



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