

Productivity	Version:	8.1	8	7.5
Batch Processing with Summary Report Using Analysis Templates™		✓		
Batch Peak Fitting of Multiple Datasets Using Peak Analyzer Theme		Pro		
Favorites Folder in Project Explorer		✓		
Slide Show of Graphs at any Folder Level		✓		
Recalculation of Results on Data or Parameter Change		✓	✓	
Analysis Templates™ with Custom Report Sheets for Repeat Analysis		✓	✓	
Re-Import Data Files Using Saved Settings, to Update Worksheet or Matrix Data		✓	✓	
Import Wizard Filter for Repeat Import of Similar Data		✓	✓	✓
Batch Print Selected Worksheets, Graphs, and Layout Windows		✓	✓	✓

### User Interface

Password Protection at Project Level		✓		
Audit Log of Project Saves, with Optional Password Protection		✓		
Menu Customization - Add New Menu Items or Remove Existing Ones		✓		
Shortcuts for Windows in Project Explorer		✓		
Global Setting for Significant Digits		✓		
Workbooks and Matrices with Multiple Sheets and Rich Text Cell Formatting		✓	✓	
Long Name Support for Windows and Worksheet Columns		✓	✓	
Sparklines on Column Headers Display Small Graph of Data for Quick Inspection		✓	✓	
Embed Graphs, Images, and Notes in Worksheet Cells		✓	✓	
Sampling Interval Support in Y Column for Evenly Spaced X Values		✓	✓	
Drag and Drop Sheets to Remove from or Add to Workbooks		✓	✓	
Click-and-Drag Worksheet and Matrix Row Height and Column Width		✓	✓	
Regional Data Selector/Mask Tool		✓	✓	
Drawing Tools, Including Poly Line, Freehand, Polygon, Free-Form		✓	✓	✓
Plot Setup Dialog Simplifies Plotting Data from Multiple Worksheets		✓	✓	✓
Formatting (Style) Toolbar for Text and Object (Colour, Hatch Pattern, Font, Size)		✓	✓	✓

Graph Types	Version:	8.1	8	7.5
Ternary Contour Plot		✓		
Probability Plot Including Weibull Distribution/Q-Q Plot		✓		
Windrose Plot - Raw and Binned Data		✓		
GUI to Configure Multiple Y-Axes Plot		✓		
Centered-Axis Scatter Plot		✓		
Contour Plot from XYZ Using Triangulation		✓	✓	
Polar Contour Plot		✓	✓	
Stacked Lines Plot Using Y Offset		✓	✓	
Scatter Matrix Plot		✓	✓	
2D Black & White Pie Chart		✓	✓	
Inset Graph and Offset Axes Templates		✓	✓	✓
Image Graphs with Profile Lines, and Image Histograms		✓	✓	✓
Smith® Chart		✓	✓	✓
3D Pie Chart		✓	✓	✓
Column Scatter Graphs		✓	✓	✓
XYXY Vector (Tail-to-Head Data)		✓	✓	✓
Basic 2D, 3D, Contour, and Statistics Graphs		✓	✓	✓

### Graph Customization

Double-Log Reciprocal Axis Scale: $\ln(-\ln(1-x))$		✓		
Enhanced Data Point Customization and Legend Display		✓		
Extract Data Points for All, or Specific Contour Lines		✓		
Align and Size Multiple Layers and Text Using Object Edit Toolbar		✓		
Copy and Paste Table from Worksheet into Graphs as a Table, Values Linked to Worksheet		✓	✓	
Custom Boundary for Contour Plots Using Datasets		✓	✓	
Copy and Paste the Format of One Graph Element onto Another Graph Element		✓	✓	✓
Edit Many Data Plot Properties Using the Style Toolbar		✓	✓	✓
Use Colour Variations or Symbol Size to Represent Another Dimension		✓	✓	✓

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### Import and Export

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	8.1	8	7.5
Export All Graphs in Project Explorer to PowerPoint®	✓		
Export Worksheet as a Multi-page PDF Document	✓		
Export ASCII Data to Existing File with Append or Replace	✓		
Import Data in Unicode ASCII and HDF5 formats	✓		
Import Excel, Binary 2D Array, and Multi-Line CSV	✓	✓	
Graphically Construct SQL Queries, Save Named SQL Query	✓	✓	
New Import Options: pCLAMP 2.0, NI DAQmx/TDM, ETAS MDF, JCAMP-DX, NetCDF, & More	✓	✓	
Import Wizard: Multiple Delimiter Support for ASCII Import	✓	✓	
ASCII and Binary Import Wizard provides Visual Feedback During Import	✓	✓	✓
Drag and Drop Data Files from Windows Explorer into Origin	✓	✓	✓
Import and Export Image (Raster) Files	✓	✓	✓
Graph Export Formats: AI, CGM, EPS, TIFF, PDF, JPEG, EMF, PSD, & More	✓	✓	✓

### Data Handling

	8.1	8	7.5
New Find and Replace Tool	✓		
Unstack Worksheet Columns Using Grouping Variables	✓		
Remove Duplicate Data in Column	✓		
Reduce Data Size by Every N Points or X Increment	Pro		
Data Fill: Drag Fill Handle to Auto Fill Data, Duplicate or Extend Values	✓	✓	
Categorical Data Support (Nominal and Ordinal)	✓	✓	✓
Random and Regular XYZ to Matrix Conversion	✓	✓	✓

### Application Connectivity

	8.1	8	7.5
Automation Server Support	✓	✓	
Mathematica Link	✓	✓	
Matlab Console with GUI Support to Transfer Data between Origin and Matlab	✓	✓	
LabVIEW Connectivity: Send Data to Origin Using LabVIEW™ VIs for Origin	✓	✓	✓

### Data Analysis

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Linear Fit with Support for X Error	Pro		
Pivot Table	✓		
Normalise Multiple Columns or Curves	✓		
Panel Tool for Rise or Fall Time Analysis	Pro		
Compute Surface Area of Matrix Data	Pro		
Create Upper and Lower Envelopes for Curves	Pro		
Panel Tools for Integration and FFT Analysis of Data Plot in Graph	✓	✓	
Improved Residuals Analysis with Additional Residuals Plots	✓	✓	
Surface Fitting and 3D Interpolation	Pro	Pro	
Enhanced Image Analysis (Image Math, Mode Conversion, Colour to RGB)	Pro	Pro	
Expanded Statistics (Parametric/Nonparametric Hypothesis Tests, Survival Analysis)	Pro	Pro	
Repeated Measures One-Way and Two-Way ANOVA	✓	✓	
Advanced Signal Processing: 2D FFT, Wavelet, STFT	✓	✓	
Low-Pass, High-Pass, Band-Pass, Band-Block, and Noise Threshold Filters	✓	✓	✓
Peak Analyzer - Create Baseline, Find or Integrate Multiple Peaks	✓	✓	✓
Peak Analyzer - Find and Fit Multiple Peaks	Pro	Pro	Pro

### Programming

	8.1	8	7.5
LabTalk: Support for User-Defined Multi-parameter Functions	✓		
Labtalk: Support for Event-Triggered Script File Attachment to Project	✓		
Execute LabTalk Script, Including X-Functions and Origin C from Console Command-Line	✓		
LabTalk: More Data Types - Range, Tree, String Array	✓	✓	
Command Window with Support for History and Auto-Complete	✓	✓	
Origin C: Create Custom Dialogs for Your Routines	✓	✓	
Origin C: User-Defined Classes	✓	✓	
Origin C: Access to *Full NAG® Mark VII Library	✓	✓	
C Compiler with ANSI C Language and Origin Object Support	✓	✓	✓
File Packing/Unpacking Utility with Drag-and-Drop Installation	✓	✓	✓
Run Tools and Wizards Created with MS VC++	✓**	✓**	Pro