

# Origin Release Note

Version 7 SR1

May 14, 2002

This release note is for versions 7.0300 and 7.0301 (English).

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# Installation Updates

If you have purchased a network license, please refer to the document “The Network Version of Origin 7” for installation and maintenance procedures.

Upgrade customers who intend to install to an old product folder should rename the folder with the new product name before proceeding with the upgrade process. This will ensure that the installation program’s Modify/Repair routines will find the proper folder to operate on, should these procedures be necessary.

## Bugs in Releases Prior to Origin 7, Fixed in SR1

### 3D/Contour

Direct conversion from a matrix to worksheet failed for matrix rows > 65535. The maximum number of rows has been increased though the number of columns remains limited to ≤ 65535. AMPO ID = 9975

### Analysis and Fitting

In the NLSF (Advanced Fitting Tool), a user-defined fitting function of Form = Y-Script, with curve point spacing set to “Uniform on X-axis Scale” frequently reverted to a point spacing of “Same X as Fitting Data.” AMPO ID = 9961

When the Baseline tool was used to integrate the area under a curve and no worksheet existed for the graph (i.e. the graph was opened as an .OGG file), the integration was not performed. QA ID = 1418

Selecting a tool from the Tools toolbar (e.g. Data Reader), and clicking once in a 2D graph, would cause the subsequently selected Draw Data tool to fail. Attempting to open the Drawn worksheet would cause a crash.. QA ID = 1547

### Import/Export/Copy

When importing multiple ASCII files of the same name, with the “Other”ASCII option “Rename Worksheet to Data File Name” enabled, Origin will prompt you to enter a new name for the worksheet. A problem occurred when the worksheet already had a unique name; then “Rename” on import would prompt for a new name but when the preexisting unique name was reentered, it was not recognized as unique. AMPO ID = 7315

### Plotting

When the X axis scale “From” value of a 3D Waterfall plot was increased via the Axis dialog box, the data plots would disappear. AMPO ID = 9646

## Bugs New to Origin 7, Fixed in SR1

### 3D/Contour

Using the Draw Data tool to overlay points on a contour plot caused Origin to crash. QA ID = 1174

Opening an OPJ file that contained both Image plots and Contour plots caused Origin to crash. QA ID = 1238



Opening a matrix and setting Values in columns and rows less than 32, then setting Dimensions to less than 32 would corrupt the array of numbers in the matrix. QA ID = 1258

## Analysis and Fitting

Masked values were treated as missing values when levels were specified by classification variables in Two-Way ANOVA, leading to miscalculation of some results. QA ID = 856

Closing the Fitting Wizard after having selected the Set Range Graphically button (without setting the range) would produce a crash. QA ID = 1233

Descriptive Statistics: Frequency Count binned the entire dataset though only a range of data was selected. QA 1354

Confidence Bands (the Fitting Control page of the NLSF) were always calculated at 0.95, ignoring Display Settings. QA ID = 1543.

Peak Centers were not properly initialized for peak functions in the NLSF wizard (Fitting Wizard). QA ID = 1464

## Excel

When performing statistical analyses on Excel workbook data, Origin's statistical methods did not register the data. QA ID = 1404

## Import/Export/Copy

Importing a .PNG file into a matrix would produce a crash on some systems. QA ID = 1224

Setting the ASCII import option to 'Start new worksheet/Column' when non-numeric data is found in numeric fields and then repeatedly importing the same file would (1) produce a blank worksheet, and (2) cause a crash. QA ID = 1250

Adding a layer to an Origin graph while performing an OLE edit from MS Word would cause Origin to crash. QA ID = 1303.

Importing ASCII data with the ASCII option "Automatic determination of column types" disabled would cause data to be treated as Categorical when plotted. QA ID = 1556

## LabTalk

An unprotected number passed as an argument in a `run.section` call (e.g. `run.section(Test.OGS,Main,-1.2)`) was passed incorrectly. QA ID = 1073

A problem with the `label x b` command (apply a text label border style) did not provide for a black line border. QA ID = 1229

The command `doc -ef W { win -ch 0;}` failed to show all worksheets in the current Project Explorer folder. QA ID = 1269

A problem with "%()" substitution notation has been fixed. QA ID = 1575, QA ID = 1586

## OriginC

Compiling a function that creates temporary files will no longer open the Save As dialog. QA ID = 875

The `#undef` preprocessor directive is now supported. QA ID = 922



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The `ReadString` method of `stdioFile` would cause a crash if the file to open did not exist. QA ID = 1232

A problem with quote enclosed backslash (“\”) characters in commented code has been fixed. QA ID = 1399

## Miscellaneous

Copying and pasting text containing a backslash “\” character into an existing text label while in in-place edit mode frequently resulted in truncation of the pasted text. QA ID = 1254

## Plotting

A problem in which a Y-axis gridline would draw over the top of the X axis has been fixed. QA ID = 90

Color Scale did not work on Image Plots. QA ID = 1003

In-place editing of a text object in a Layout window into which a worksheet had just been added caused a crash. QA ID = 1006

A problem with QC charts sometimes caused data to plot outside the layer frame. QA ID = 1237

Vertically translating (Analysis: Translate: Vertical) a dataset in a graph with multiple layers linked 1 to 1 with layer 1, would result in the dataset in layer 2 being translated. QA ID = 1077

A crash would occur when grouped datasets in with individual points in the scatter plots modified using CTRL+select were converted to line plots. QA ID = 1088

Saving an image plot as a template would produce a contour plot when the template was recalled. QA 1142

Pressing the ESC key while editing an individual color map Level value in Plot Details caused a crash. QA ID = 1228

Using the up and down arrow keys to change the Y value of a plotted data point when Move Data Points was enabled, would result in a change in the corresponding X value. QA ID = 1357

## Worksheets

When performing an Analysis: Sort Columns: Custom... an empty cell was treated as the largest value though the “Missing values as Smallest” radio button was enabled. QA ID = 1023

When you set Upper Threshold Power = 0 in Options dialog, Numeric Format tab, then set Lower Threshold Power = -2 and clicked OK, the next time Options was opened, the Lower Threshold Power registered “-2EO.” QA ID = 1248

Opening the Worksheet Column Format dialog, clearing the Column Name box and then enabling “Enumerate all to the right,” generated a spurious error message. This now enumerates the columns, starting with the selected column as 1. QA ID = 1458

A histogram plotted from a single Y column set to data type = Categorical failed to use the categorical data for tick labels. QA ID = 1553.

## Origin - Changes in Functionality and Updates

Color palette (.PAL) files can now be copied to the Palettes subfolder and the Image Palette menu will update dynamically QA ID = 1122

You can now copy the contents of the Data Display to the Clipboard by right-clicking and choosing Copy Text. QA ID = 1188



The Rectangle tool becomes the Region of Interest (ROI) tool when a raster image is imported into a matrix. You may now opt to report the matrix indexes or X,Y coordinates of the ROI to the status bar, via the ROI object's shortcut menu. Display is effected when object is moved. QA ID = 1226

Origin will now import up to 12,000 columns of ASCII data. QA ID = 1423

## Origin C - Changes in Functionality and Updates

Two functions have been added to GraphObject class.

```
int GetRegionPoints(vectorbase& vData); // gets only values from Region of Interest (ROI)
int GetRegionPoints(vectorbase& vData, vector<int>& vI, vector<int>& vJ); // gets
values + indices (ROI)
```

The ROI should be attached to Layer and Scales (default). These functions return number of pixels copied (number of pixels in ROI = number of pixels in intersection of ROI and image. If return value is negative this generates an Error. Return value

-1 = General Error, usually a memory error.

-2 = Layer Error. Object is not in matrix layer

-3 = Attachement Error. Object is not attached to layer and scale

-4 = Object type error. Object is not of polyline nature (polyline derived objects are all objects except text that may be created using Tools toolbar). QA ID = 1043

## LabTalk - Changes in Functionality and Updates

New system variables control automatic binning of histograms

@HBS = bin size; if not used = -1.

@HBN = number of bins, rounding is supported; if not used = 0.

@HBM = number of bins, without rounding .

The order of priority is HBS>HBN>HBM. QA ID = 938

A new page property indicates the active dataset in the graph legend with a rectangle around the dataset symbol:

`page.activeDataIndicator = 0` (no indicator); `page.activeDataIndicator = 1` (activate indicator). QA ID = 940.

It was previously possible to specify general linear constraints via script using the `nlsf.constr$` object property, but Parameter Constraints had to be enabled/disabled manually. (Parameter Constraints page of the Advanced Fitting Tool.).

A property has been added: `nlsf.constraints = 0` (disabled); `nlsf.constraints = 1` (enabled). QA ID = 1510

Properties have been added to enable or disable upper bounds for each parameter:

```
nlsf.lbonn = 0 // lower bound for constraint n = off
```

```
nlsf.lbonn = 1 // lower bound for constraint n = on
```

```
nlsf.ubonn = 0 // upper bound for constraint n = off
```

```
nlsf.ubonn = 1 // upper bound for constraint n = on
```

QA ID = 1511