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REX Suite version 3.3
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This document summarizes important additions in REX Suite 3.3
Additions are documented since REX Suite 3.2

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1. New Features

Many improvements have been made in the Charts. You may now export a chart as jpg or gif file by right-clicking on the chart and selecting "Export Image". This feature is enabled for the charts in Estimation→Results→Model Data Comparison, Estimation→Results→Yield-Conversion, Optimization→Results→Profiles and Optimization→Results→Yield-Conversion nodes.

A bug in REX 3.2 which resulted in chart line colors staying the same despite requesting color changes has been fixed.

To reduce clutter in the chart view, the legend on the chart shows only the set name and not the variable name when Single Compound is selected in Estimation→Results→Model Data Comparison, Yield-Conversion or Optimization→Results→Profiles nodes. On the other hand, when enabling Single Set or Single Case, only the variable name is shown in the legend.

For the parity plots in Estimation→Results→Model-Data Comparison or Yield-Conversion nodes, both the Pearson Correlation Coefficient (r) and Goodness of Fit (p) values are shown.

In Estimation→Results→Custom View, for a given variable of the Y-axis, a new *Show All* option in the Source Data combo is available to display both experimental and calculated values.

The rows in the History tab of the Weights node are shown with alternate colors in order to distinguish each time the weights are generated or modified. You can also drag the Date column up to group and show the weight modification actions by each incident.

When a nonlinear parameter relationship has a Right Hand Side smaller than $1E-12$, a critical message is shown in Checkmodel node, and the run will not proceed. If the RHS is higher than $1E-12$ but smaller than $1E-6$, only a warning message is displayed but the run can proceed.

In past versions of REX, if provided initial concentration values are negative and a non-integer exponent is present in the model, a screen warning is shown and an execution error prevents the model from running. In REX 3.3, the screen warning is still preserved, but the run is allowed to proceed by ignoring the negative initial values.

We have enabled pasting values of finite element end points in the the DAE Discretization Options tab of the Solution Options node.

When *Ignore Zero Data* is enabled in the Weights node, Deviation values reported in the Results node do not include points with zero experimental data in the summation.

Units are shown for Activation Energy in the Excel report.

For nonlinear Pseudocompounds and Derived Quantities, the numerator and denominator terms are displayed clearly by using parenthesis.

The licensing procedure is now simplified by allowing one to enter GAMS and REX licenses together or separately in Help→About REX.

2. Changes and Bug fixes

In addition to the above, this version also includes improvements to the installation and minor bug fixes.

