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# Batch Processing (Pro edition only)

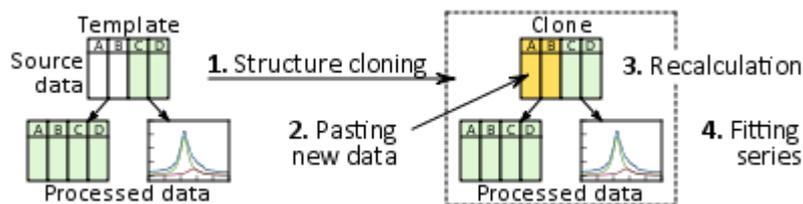
MagicPlot Batch Processing allows to automatically process multiple similar data in the same way without programming (scripting) and recording of macro. One only have to ordinarily process the first data set manually and then use it as a template for processing of the rest data sets. Batch Processing includes the processing of data itself and semiautomatic fitting the series of similar data.

## Introduction

Batch Processing idea is based on creating a copy of project components (Tables, Figures, Fit Plots), pasting new data to the copy of source table and recalculation.

For each file MagicPlot will:

1. Create copies of Template Table and selected related components,
2. Paste new data to the leftmost columns of the copy of Template Table,
3. Recalculate all depending data in copies.



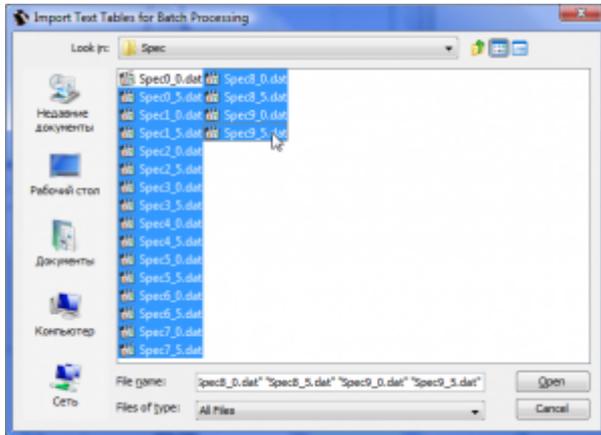
Fitting of series dialog will be opened after batch processing. This tool allows you to fit multiple data with the same model.

## Batch Processing Steps

It is supposed that you have a number of text (ASCII) files with similarly formatted source data to be processed.

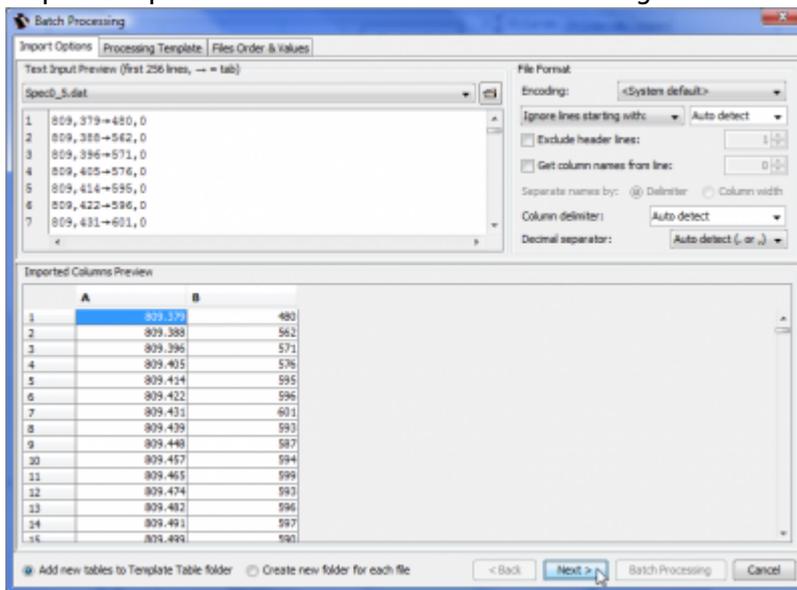
The overall processing steps are:

1. Import the first text file from series (Project → Import Text Table... menu item) and process it. You can add new columns with formulas, calculate some derivative data (histograms, FFT, etc.), create Figures and Fit Plots with one simple restriction:  
**Do not change the sequence of leftmost columns with imported data: do not insert columns left, delete and move these columns.**  
 Create Fit Plot(s) and fit the first data in series if you want to fit series of data.
2. Run Batch Processing by selecting Project → Import with Batch Processing... menu item. In the opened file dialog select all rest files in the series except the first file which has been already processed. Use Shift and Ctrl to select multiple files.

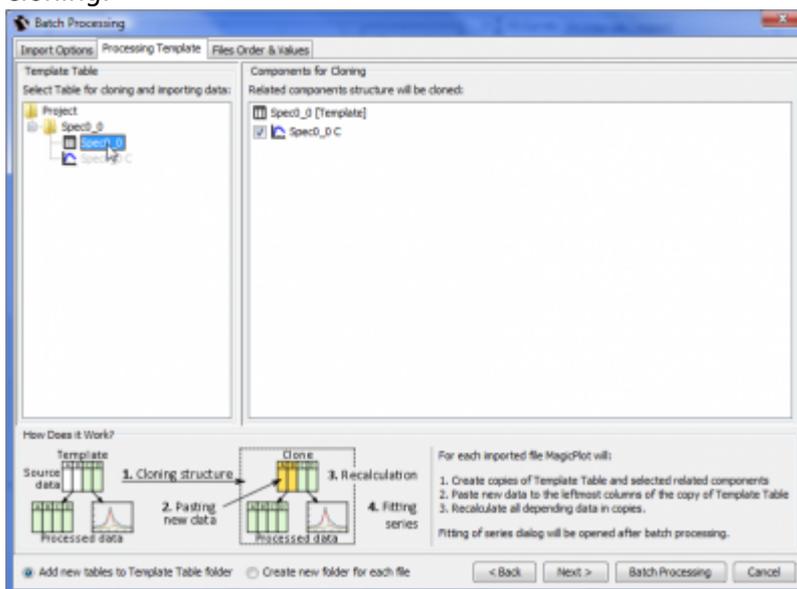


3. In 3 tabs of Batch Processing dialog:

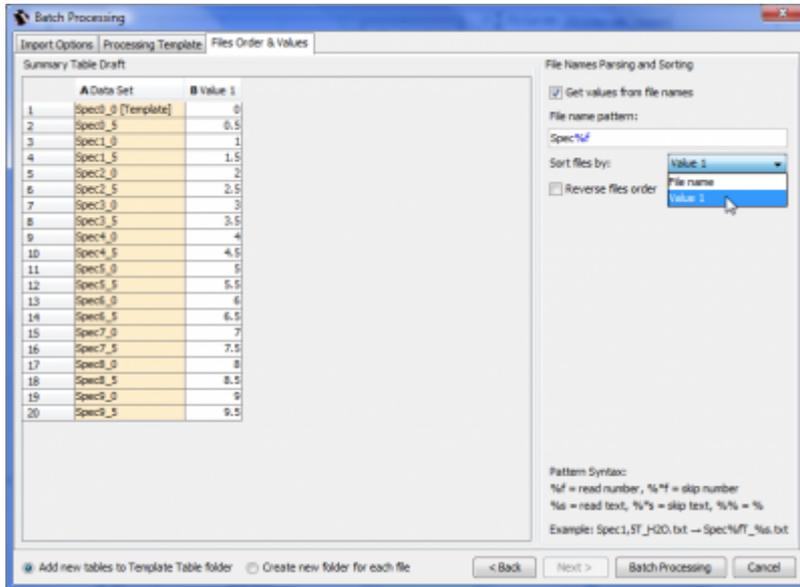
1. Import Options: Check the file format settings.



2. Processing Template: Specify the Table with data from the first file (already processed) as Template Table. The program will automatically show the derivative components with related data. You can also deselect some components to prevent cloning.



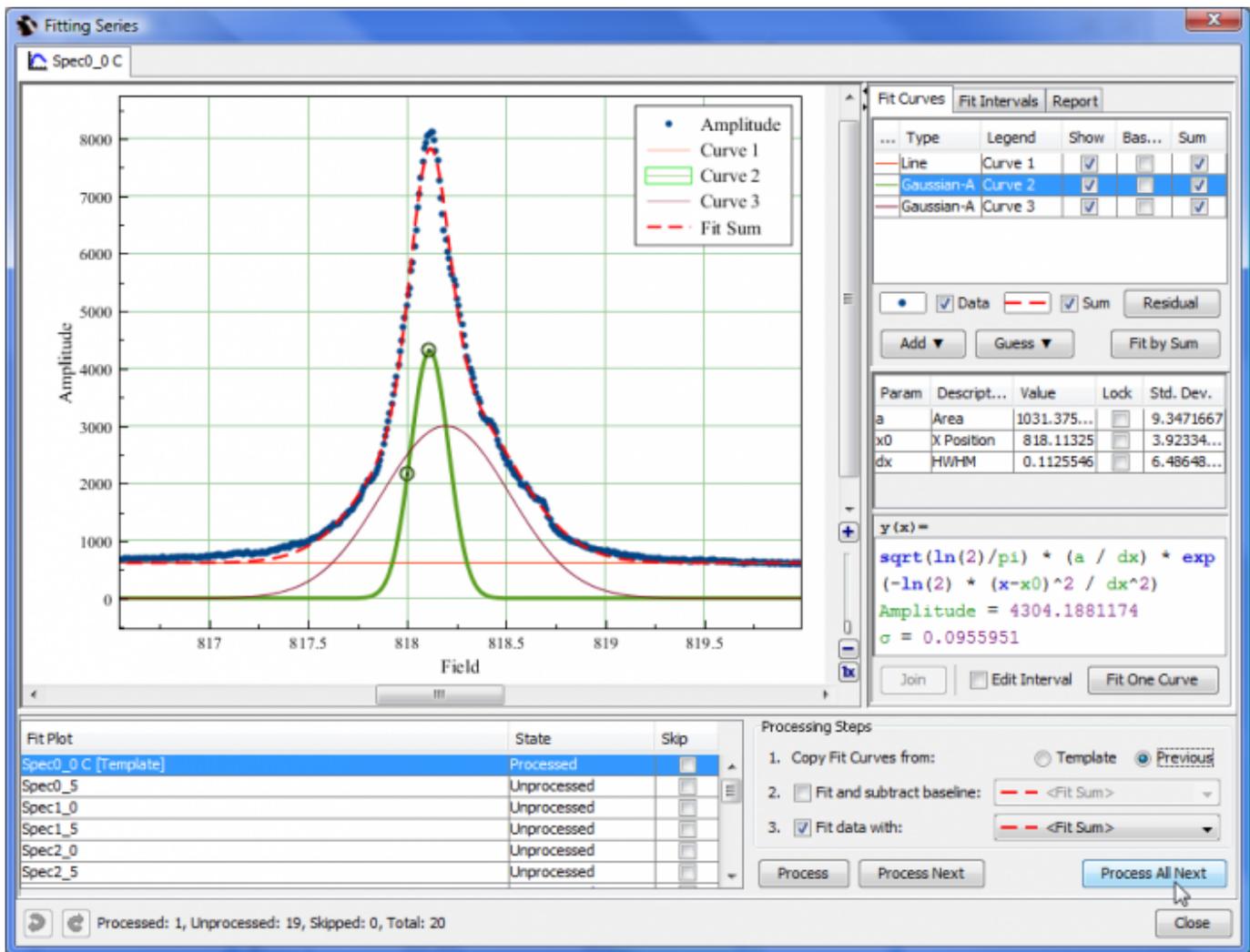
3. Files Order & Values: Set up the file names parsing to get some values to include into summary table. Select the files sorting. Note that the already processed file will always be the first.



- 4. Click Batch Processing button to start processing. MagicPlot will create a copies of Template Table and all derivative components and paste new data in the leftmost columns.
- 5. The Fitting Series dialog will be opened if some Fit Plots were processed.

## Fitting Series

Fitting Series dialog will be opened after batch processing finishes if some Fit Plots were created during the processing.



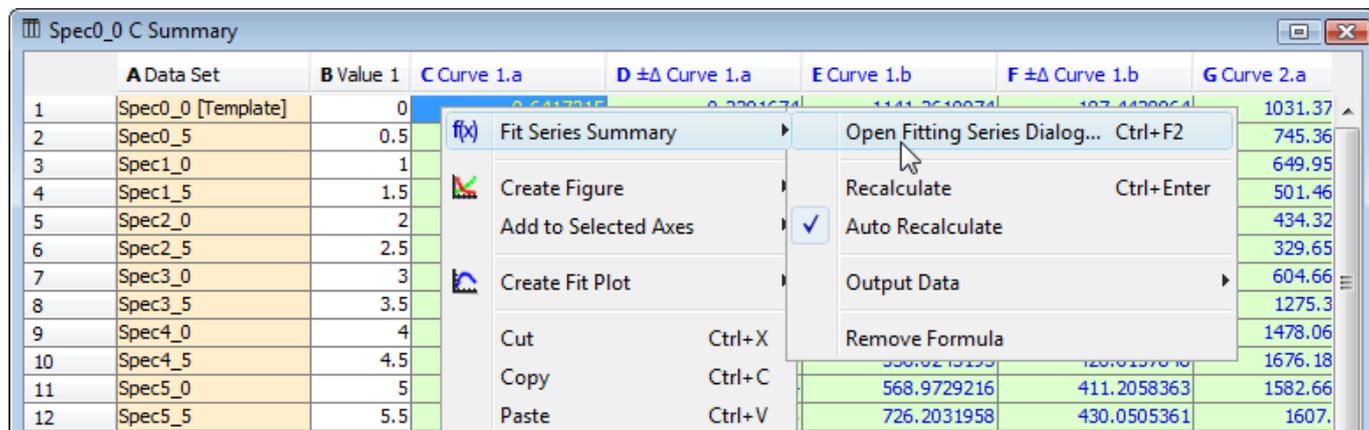
### Summary Table

Summary Table will be created after finishing fitting series. This table contains the values of all fit parameters and standard errors for all processed data sets. You can use this data to create a Figure or Fit Plot or export it.

Spec0_0 C Summary							
	A Data Set	B Value 1	C Curve 1.a	D $\pm\Delta$ Curve 1.a	E Curve 1.b	F $\pm\Delta$ Curve 1.b	G Curve 2.a
1	Spec0_0 [Template]	0	-0.6417315	0.2291674	1141.2610974	187.4428964	1031.37
2	Spec0_5	0.5	-0.2150654	0.1873521	785.2007576	153.2365908	745.36
3	Spec1_0	1	-0.3654919	0.1136925	903.7396066	92.9882536	649.95
4	Spec1_5	1.5	-0.4025649	0.2537475	932.6400411	207.5412417	501.46
5	Spec2_0	2	-0.3366649	0.2943521	881.3126685	240.760401	434.32
6	Spec2_5	2.5	-0.2094106	0.2858062	779.2973761	233.7781807	329.65
7	Spec3_0	3	-0.2377343	0.2905013	803.2012531	237.6244468	604.66
8	Spec3_5	3.5	0.1538196	0.3441019	487.4428375	281.4758354	1275.3
9	Spec4_0	4	-0.3347863	0.4337912	886.1718936	354.856993	1478.06
10	Spec4_5	4.5	0.0883859	0.5214879	536.0243193	426.6157848	1676.18
11	Spec5_0	5	0.0463876	0.5026314	568.9729216	411.2058363	1582.66
12	Spec5_5	5.5	-0.1446354	0.5256476	726.2031958	430.0505361	1607.
13	Spec6_0	6	-0.1292856	0.5151819	714.3564312	421.5007319	1506.68
14	Spec6_5	6.5	-0.466563	0.4711707	992.4459904	385.4985279	1029.48
15	Spec7_0	7	-0.2411057	0.408633	806.3679948	334.3401114	780.45
16	Spec7_5	7.5	-0.6643598	0.2960808	1161.5518378	242.2302287	1588.23
17	Spec8_0	8	-1.0487862	0.3121694	1478.5074471	255.397587	1250.96

### Reopening Fitting Series Dialog

You can open Fit Series dialog using Fit Series Summary → Open Fit Series Dialog... in summary table.



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