Aledyne engineering

Spreadsheet Express Toolkit Help

January 2014

The Spreadsheet Express toolkit automates Excel data processing and charting all within the LabVIEW programming environment and allows for programmatic control and interaction of Excel using ActiveX. This toolkit offers several advantages including graphing of greater than 4000 data points, implementation of true Excel charts, not OLE object charts, and direct graphing of data already present in a spreadsheet. Excel 2003 and up is required.

The Spreadsheet Express Toolkit provides the following features:

- Programmatically graph data already existing in an Excel spreadsheet or delimited file
- Advanced automation of graphing features such as trendlines and macros
- Easy Macro and Template interface
- Includes several examples showing automation of Excel graphing and batch processing
- Output formatted results to same Excel file or create a new file

Refer to "<LabVIEW>\examples\Aledyne Engineering\Spreadsheet Express\" for examples of how to use the toolkit.

To provide feedback or request support, contact us here.

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OpenExcel VI

Installed With: LabVIEW

Opens Excel and returns the installed version.

ExcelVisible makes Excel visible while processing if true.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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Version of Excel.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

> **Excel.Application**
> **Excel.Workbooks**
> **Excel.Workbook**
> **Excel.Worksheet**
> **Excel.Sheets**
> **Excel.Charts**
> **Excel.Chart**

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

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The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

OpenExcelFile VI

Installed With: LabVIEW

Opens an Excel file and returns its relative object references.
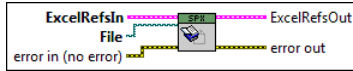
File to open.

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CreateExcelFile VI

Installed With: LabVIEW

Creates a new Excel File.

File to create.

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Excel.Sheets
Excel.Charts
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CloseExcel VI

Installed With: LabVIEW

Closes Excel and all open ActiveX references.

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Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

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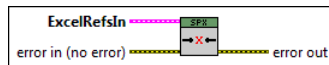
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CloseExcelFile VI

Installed With: LabVIEW

Close an open Excel file and gives the option to save the file to the same or new path.

File to close.

If **SaveChanges** is true, the changes are saved to the file.

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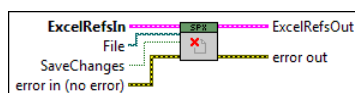
The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Aledyne engineering

Data Read/Write Help

January 2014

The Data palette allows for programmatic reading and writing of data from/to Excel workbooks. Data can be written or read as a single cell or as a data table. Also, cells can be referenced by an Excel cell name in addition to cell row/column index. This is useful if an Excel template is used as data can be written to a cell by cell name instead of cell index so the location of the data in the output workbook can change by modifying the .xltx (Excel Template) file without having to modify the LabVIEW code.
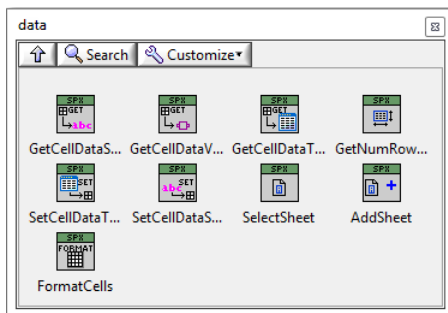
There are several variations of reading and writing data to support different data types. However, data can be read/written as a string and can be converted to the proper data as necessary.

SelectSheet.vi allows for selecting a desired sheet to read or write data to in a multi-sheet workbook.

AddSheet.vi can be used to add a new sheet to the workbook.

FormatCells.vi is useful if after writing data to a worksheet, Excel does not auto-detect the format properly. You can force formatting of the cells using this vi. Typically this would be necessary if writing a date/time string and it is not in one of Excel's recognized formats. The formatting input string can be used to specify proper formatting. It is useful to test the formatting string in Excel first to ensure the formatting string is correct before implementing. This can be done in Excel by right clicking a cell, selecting "Format Cells..." and selecting Custom.

Refer to "<LabVIEW>\examples\Aledyne Engineering\Spreadsheet Express\GetDataExample.vi" or the LabVIEW Example Finder for examples of how to use the toolkit.

To provide feedback or request support, contact us here.

GetCellDataString VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

- **[I32] StartRow**
- **[I32] EndRow**
- **[I32] StartCol**
- **[I32] EndCol**

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

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- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
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The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Data is the data returned.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataVariant VI

Installed With: LabVIEW

Reads cell data from an Excel file as a variant. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

- **StartRow**
- **EndRow**
- **StartCol**
- **EndCol**

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
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The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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Data

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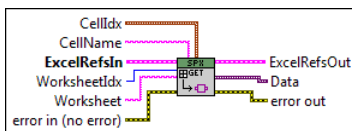- **Excel.Sheets**
- **Excel.Charts**

Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableString VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

StartRow
EndRow
StartCol
EndCol

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

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Data is the data returned.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableDBL VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

- **StartRow**
- **EndRow**
- **StartCol**
- **EndCol**

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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Data is the data returned.

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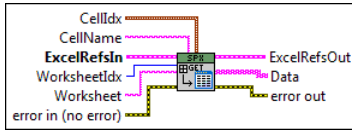- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableI8 VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

- **StartRow**
- **EndRow**
- **StartCol**
- **EndCol**

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

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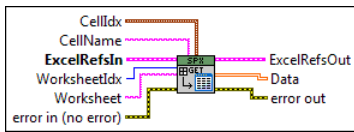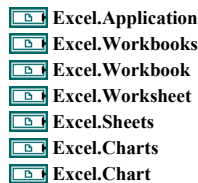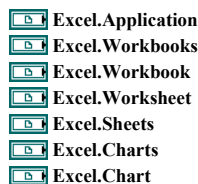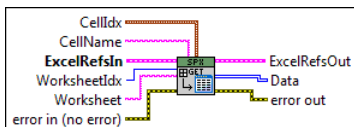> **Excel.Sheets**
> **Excel.Charts**
> **Excel.Chart**

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableI16 VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

> **StartRow**
> **EndRow**
> **StartCol**
> **EndCol**

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

> The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
>
> The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
>
> The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

> **Excel.Application**
> **Excel.Workbooks**
> **Excel.Workbook**
> **Excel.Worksheet**

       Excel.Sheets
       Excel.Charts
       Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Data is the data returned.

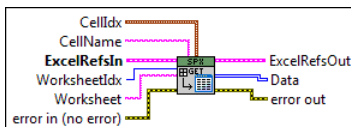**ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

       Excel.Application
       Excel.Workbooks
       Excel.Workbook
       Excel.Worksheet
       Excel.Sheets
       Excel.Charts
       Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableI32 VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

       StartRow
       EndRow
       StartCol
       EndCol

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

       Excel.Application
       Excel.Workbooks
       Excel.Workbook
       Excel.Worksheet
       Excel.Sheets
       Excel.Charts
       Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

       The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Data is the data returned.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
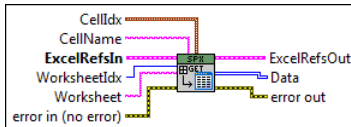**Excel.Sheets**
Excel.Charts
Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

GetCellDataTableI64 VI

Installed With: LabVIEW

Reads cell data from an Excel file as a string. The worksheet name or worksheet index can be used to reference a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used. Also, a cell name or a cell range can be used to reference cell(s). If **CellName** is left blank then **CellIdx** is used.

CellIdx is the row and column of cells to read data from.

StartRow
EndRow
StartCol
EndCol

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Data is the data returned.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.
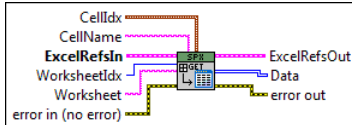
Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

SetCellDataString VI

Installed With: LabVIEW

Writes new data to a desired cell **Name** in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.
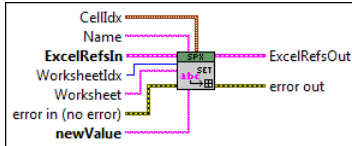
[abc] **Name** is the named cell to write data to. If this is left blank then CellIdx is used.

[abc] **newValue** is a string to write to the cell.

[⊡⊡⊡] **CellIdx** is the row and column of cells to write data to.

    [I32] **StartRow**
    [I32] **EndRow**
    [I32] **StartCol**
    [I32] **EndCol**

[⊞] The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [TF] The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [I32] The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [abc] The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[⊞] **ExcelRefsIn** is a cluster of references to Excel and workbook ActiveX properties.

    [▭] **Excel.Application**
    [▭] **Excel.Workbooks**
    [▭] **Excel.Workbook**
    [▭] **Excel.Worksheet**
    [▭] **Excel.Sheets**
    [▭] **Excel.Charts**
    [▭] **Excel.Chart**

[⊞] The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [TF] The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [I32] The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    [abc] The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[⊞] **ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

    [▭] **Excel.Application**
    [▭] **Excel.Workbooks**
    [▭] **Excel.Workbook**
    [▭] **Excel.Worksheet**
    [▭] **Excel.Sheets**
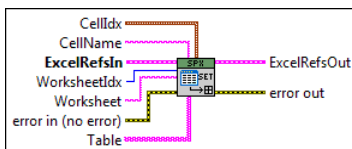   [▭] **Excel.Charts**
    [▭] **Excel.Chart**

[I32] **WorksheetIdx** is the index of the worksheet to act on starting at 1.

[abc] **Worksheet** is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableString VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

[abc] **CellName** is the named cell to read data from. If this is left blank then CellIdx is used.

[abc] **Table** of data to write.

[⊡⊡⊡] **CellIdx** is the row and column of cells to write data to.

    [I32] **StartRow**
    [I32]

EndRow
[I32] **StartCol**
[I32] **EndCol**

[→] The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[TF] The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[I32] The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[abc] The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[→] **ExcelRefsIn** is a cluster of references to Excel and workbook ActiveX properties.

[□] **Excel.Application**
[□] **Excel.Workbooks**
[□] **Excel.Workbook**
[□] **Excel.Worksheet**
[□] **Excel.Sheets**
[□] **Excel.Charts**
[□] **Excel.Chart**

[→] The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[TF] The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[I32] The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[abc] The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[→] **ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

[□] **Excel.Application**
[□] **Excel.Workbooks**
[□] **Excel.Workbook**
[□] **Excel.Worksheet**
[□] **Excel.Sheets**
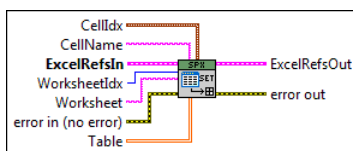[□] **Excel.Charts**
[□] **Excel.Chart**

[I32] **WorksheetIdx** is the index of the worksheet to act on starting at 1.
[abc] **Worksheet** is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableDBL VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

[abc] **CellName** is the named cell to read data from. If this is left blank then CellIdx is used.
[DBL] **Table** of data to write.
[⊞] **CellIdx** is the row and column of cells to write data to.

[I32] **StartRow**
[I32] **EndRow**
[I32] **StartCol**
[I32] **EndCol**

[→] The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[TF] The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[I32] The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[abc] The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

[→] **ExcelRefsIn** is a cluster of references to Excel and workbook ActiveX properties.

[□] **Excel.Application**

Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
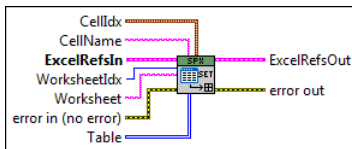**Excel.Sheets**
Excel.Charts
Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableI8 VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

Table of data to write.

CellIdx is the row and column of cells to write data to.

StartRow
EndRow
StartCol
EndCol

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableI16 VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

Table of data to write.

CellIdx is the row and column of cells to write data to.

- **StartRow**
- **EndRow**
- **StartCol**
- **EndCol**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
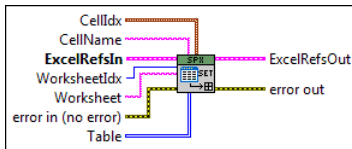- **Excel.Charts**
- **Excel.Chart**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

- The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableI32 VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

Table of data to write.

CellIdx is the row and column of cells to write data to.

StartRow
EndRow
StartCol
EndCol

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
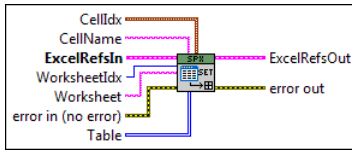**Excel.Charts**
Excel.Chart

WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

SetCellDataTableI64 VI

Installed With: LabVIEW

Writes a new data array to desired cells in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** is used.

CellName is the named cell to read data from. If this is left blank then CellIdx is used.

Table of data to write.

CellIdx is the row and column of cells to write data to.

I32 **StartRow**
I32 **EndRow**
I32 **StartCol**
I32 **EndCol**

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
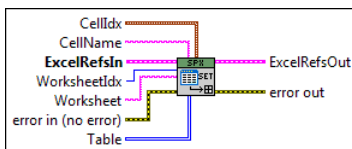**Excel.Charts**
Excel.Chart

I32 **WorksheetIdx** is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

AddSheet VI

Installed With: LabVIEW

Adds a sheet to the workbook.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks

Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

SelectSheet VI

Installed With: LabVIEW

Selects a worksheet in an open workbook (index starts at 1).
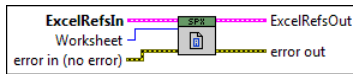
WorksheetIdx is the index of the worksheet to act on starting at 1.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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Excel.Application
Excel.Workbooks
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Excel.Chart

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

FormatCells VI

Installed With: LabVIEW

Applies formatting to cells in an Excel worksheet. **Format** is an Excel format string to apply to cells in the given range. To identify the desired formatting, Excel can be opened first and cells can be formatted manually. Then the string can be copied from Excel and used with this vi.
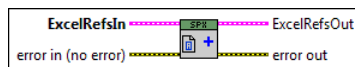
WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

StartRow is the first row to apply formatting to.

EndRow is the last row to apply formatting to.

Column is the column to apply formatting to.

Format is the Excel formatting string.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

GetNumRowsColumns VI

Installed With: LabVIEW

Returns the number of data filled rows and columns in a worksheet. If **Worksheet** is blank, then **WorksheetIdx** index is used.

WorksheetIdx is the index of the worksheet to act on starting at 1.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Rows returned.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Columns returned.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
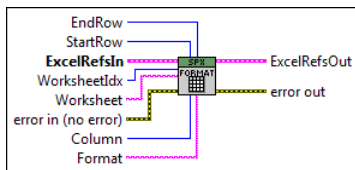
The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

GetDataExample VI

Installed With: LabVIEW

This example shows how to read data from any cell in an Excel file. This example demonstrates reading in as a string but the polymorphic instance GetCellData.vi can be used to cast the data to other datatypes.

1. Open the Excel File and get the number of rows and columns in the first worksheet.
2. Read the specified cell as a string.
3. Read the cell range as a table of doubles skipping the first header row.
4. Close all references and the Excel application.

Aledyne engineering

Charting Help

January 2014

The Charting/Graphing palette uses the built in charting capabilities of Excel by programmatically creating charts, adding series', and adding trendlines if desired.
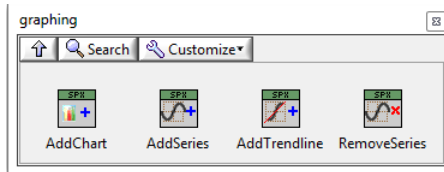
The first step is to add a chart to an open workbook which can either be added as a separate tab (worksheet) or within an existing worksheet using AddChart.vi. It should be noted that these are not OLE graph objects, rather they are native Excel charts, which do not have a 4000 point graphing limitation as do the OLE objects.

The next step is to add a data series which is linked to the data to be graphed. Multiple series' can be added to the same chart using AddSeries.vi. The data to be graphed can already be present in the spreadsheet. This works well when you have tab delimited files in which you want to perform post processing and graphing within Excel.

By using AddTendline.vi a trendline can be added to a data series as well.

Refer to "<LabVIEW>\examples\Aledyne Engineering\Spreadsheet Express\Charting " ois seamless is seamless r the LabVIEW Example Finder for examples of how to use the toolkit.

To provide feedback or request support, contact us here.

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GetDataExampleGetDataExampleGetDataExample

AddChart VI

Installed With: LabVIEW

Adds a chart as a new worksheet.
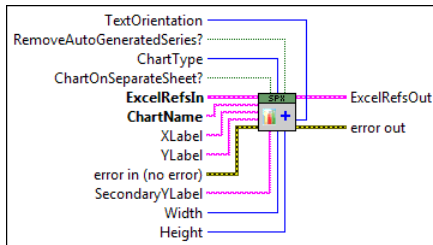
- **ChartName** is the name to assign the chart and worksheet.
- **XLabel** is the x axis name.
- **YLabel** is the y axis name.
- **ChartType** is the type of chart to create.
- **RemoveAutoGeneratedSeries?** will force removal of any series' that are generated by Excel automaticall when a chart is created. This is usually required for Excel 2007 and up.
- **ChartOnSeparateSheet?** will put the chart on a separate worksheet.
- **Width** is the width of the chart if not on a separate worksheet.
- **Height** is the height of the chart if not on a separate worksheet.
- **TextOrientation** controls the orientation of the axes text.
- The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    - The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
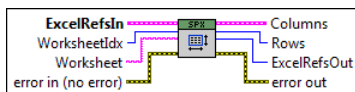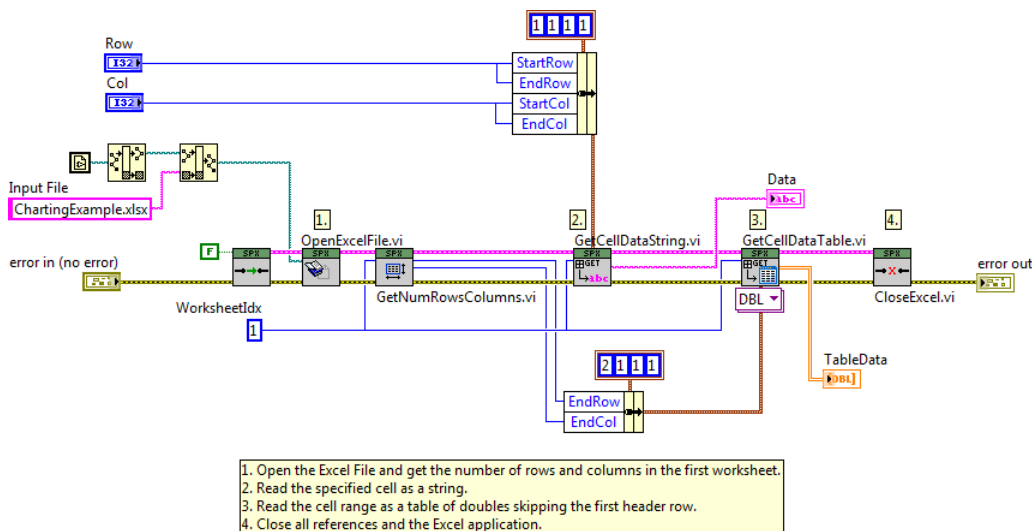   - The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
    - The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
- **SecondaryYLabel** is the secondary y axis name.
- **ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

    - **Excel.Application**
    - **Excel.Workbooks**
    - **Excel.Workbook**
    - **Excel.Worksheet**
    - **Excel.Sheets**
    - **Excel.Charts**
    - **Excel.Chart**
- **ExcelRefsIn** is a cluster of references to Excel and workbook ActiveX properties.

    - **Excel.Application**

- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

AddSeries VI

Installed With: LabVIEW

Adds a new series to an existing chart.
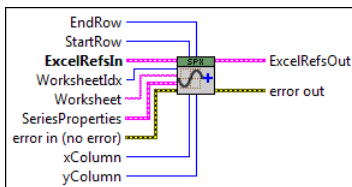
SeriesProperties defines the properties for the series.

- **SeriesName**
- **AxisGroup**
- **UseMarkers**
- **MarkerStyle**
- **MarkerSize**
- **SetMarkerColor**
- **Marker Color**
- **SetSeriesColor**
- **Series Color**

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

Worksheet is the name of the worksheet to act on. If this is left blank then **WorksheetIdx** is used instead.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**

    ▣▸ **Excel.Worksheet**
    ▣▸ **Excel.Sheets**
    ▣▸ **Excel.Charts**
    ▣▸ **Excel.Chart**

I32▸ WorksheetIdx is the index of the worksheet to act on starting at 1.

I32▸ StartRow is the starting row of the x and y data.

I32▸ EndRow is the ending row of the x and y data.

I32▸ xColumn is the column to be used for x data.

I32▸ yColumn is the column to be used for y data.

AddTrendline VI

Installed With: LabVIEW

Adds a trendline to an existing series.
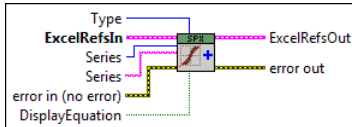
I32▸ Series to apply a trendline to.

I32▸ Type of tendline to create.

TF▸ DisplayEquation will display the trendline equation if true.

abc▸ Name of tendline.

TF▸ SetyIntercept will allow manual setting of the y-intercept by **Intercept**.

DBL▸ Intercept is the manual y intercept setpoint if **SetyIntercept** is true.

abc▸ Series to apply the trendline to.

▸ ::: The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    TF▸ The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    I32▸ The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    abc▸ The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

▸ ::: **ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

    ▣▸ **Excel.Application**
    ▣▸ **Excel.Workbooks**
    ▣▸ **Excel.Workbook**
    ▣▸ **Excel.Worksheet**
    ▣▸ **Excel.Sheets**
    ▣▸ **Excel.Charts**
    ▣▸ **Excel.Chart**

:::▸ ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

    ▣▸ **Excel.Application**
    ▣▸ **Excel.Workbooks**
    ▣▸ **Excel.Workbook**
    ▣▸ **Excel.Worksheet**
    ▣▸ **Excel.Sheets**
    ▣▸ **Excel.Charts**
   ▣▸ **Excel.Chart**

:::▸ The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    TF▸ The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    I32▸ The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

    abc▸ The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

GetChartNames VI

Installed With: LabVIEW

Returns a list of chart names that are on dedicated sheets in the workbook.

ExcelChartRef

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ChartNames returns a list of all chart names.

RemoveSeries VI

Installed With: LabVIEW

Removes an existing series from a chart.

SeriesIdx

Count is the number of series to remove.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
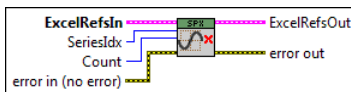
The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

Excel.Application
Excel.Workbooks
Excel.Workbook
Excel.Worksheet
Excel.Sheets
Excel.Charts
Excel.Chart

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.
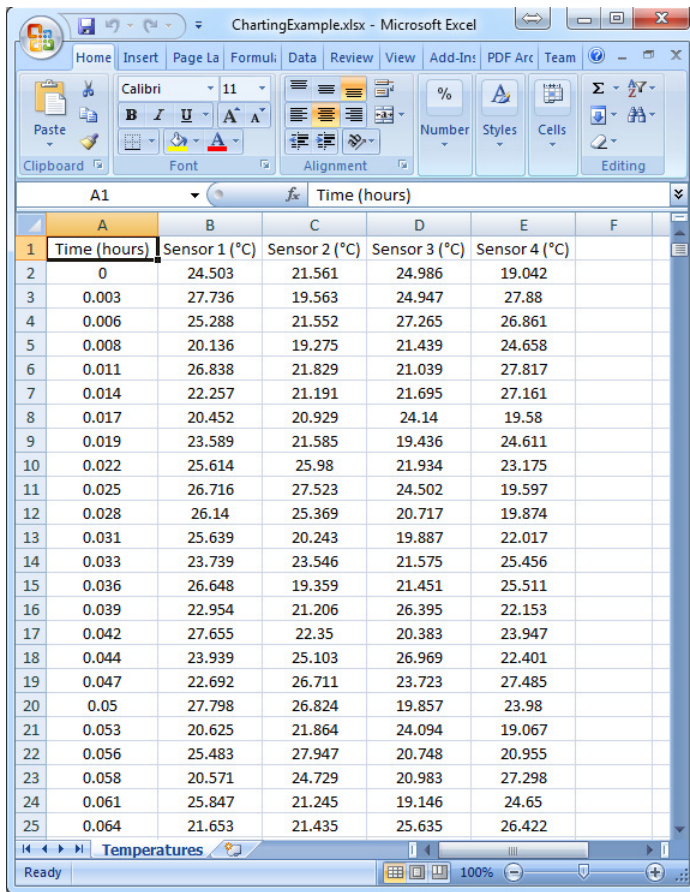
ChartingExample VI

Installed With: LabVIEW

This example demonstrates how to use the toolkit to create native Excel charts from an exisiting Excel file. This example links to an exisitng example xls file located in the same directory as this vi which assumes each column of data contains a separate channel of recorded data where the first column is a time channel. This example also demonstrates how to add a series to a chart, customize its properties, and add a trendline to the series.
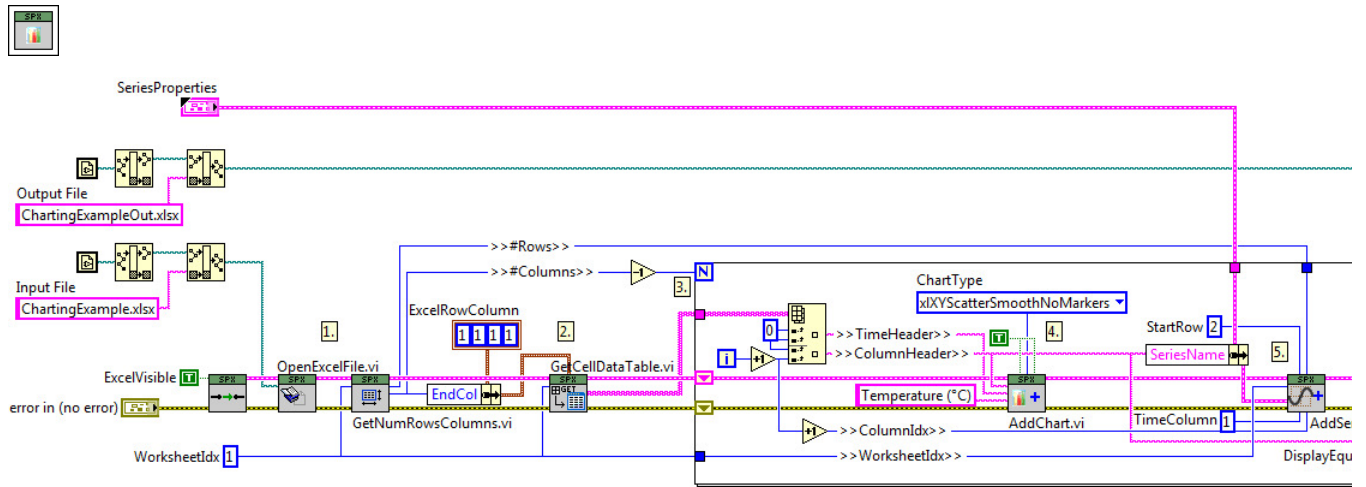

1. Open the Excel File and get the number of rows and columns in the first worksheet.
2. Read all the data in the worksheet.
3. Iterate through each column (which are channels) to create a separate graph for each set of
4. Add a chart on a separate sheet with the column channel header as the chart name.
5. Add a series to the chart for the channel. There is only one series per chart in this example
   multiple channels can be plotted on the same chart if required.
6. Add a linear tendline to the series that was added.
7. Close and save the entire workbook to a separate output file (it could also be saved to the s
   input file which would overwrite it).
8. Close all references and the Excel application.
9. Now open Excel and the output file to view it.

This is an example input tab delimited file that has been previously saved. This sample file is provided as input to the example above. The file can either be saved as a tab delimited file or as an Excel file prior to using Spreadsheet Express to process the file. In the input file column A contains the time (x-axis) data in ours and each subsequent column contains a separate channel of data. The first row contains the channel headers. This would be a typical file exported from third party data acquisition hardware or applications, for example, from an oscilloscope.

	A	B	C	D	E	F
1	Time (hours)	Sensor 1 (°C)	Sensor 2 (°C)	Sensor 3 (°C)	Sensor 4 (°C)	
2	0	24.503	21.561	24.986	19.042	
3	0.003	27.736	19.563	24.947	27.88	
4	0.006	25.288	21.552	27.265	26.861	
5	0.008	20.136	19.275	21.439	24.658	
6	0.011	26.838	21.829	21.039	27.817	
7	0.014	22.257	21.191	21.695	27.161	
8	0.017	20.452	20.929	24.14	19.58	
9	0.019	23.589	21.585	19.436	24.611	
10	0.022	25.614	25.98	21.934	23.175	
11	0.025	26.716	27.523	24.502	19.597	
12	0.028	26.14	25.369	20.717	19.874	
13	0.031	25.639	20.243	19.887	22.017	
14	0.033	23.739	23.546	21.575	25.456	
15	0.036	26.648	19.359	21.451	25.511	
16	0.039	22.954	21.206	26.395	22.153	
17	0.042	27.655	22.35	20.383	23.947	
18	0.044	23.939	25.103	26.969	22.401	
19	0.047	22.692	26.711	23.723	27.485	
20	0.05	27.798	26.824	19.857	23.98	
21	0.053	20.625	21.864	24.094	19.067	
22	0.056	25.483	27.947	20.748	20.955	
23	0.058	20.571	24.729	20.983	27.298	
24	0.061	25.847	21.245	19.146	24.65	
25	0.064	21.653	21.435	25.635	26.422	

After running ChartingExample.vi with the file above as input, the following file is produced. As you can see, a separate tab in the workbook is created for each channel of data. Also, characteristics of the graph can be customized programmatically, such as the series color, format, axes labels, chart name, etc. A trendline is also programmatically created in the example. Using the Spreadsheet Express toolkit, one could also plot all the channel data on the same graph. Spreadhseet Express provides a flexible and scalable solution for automating report generation in Excel via LabVIEW.
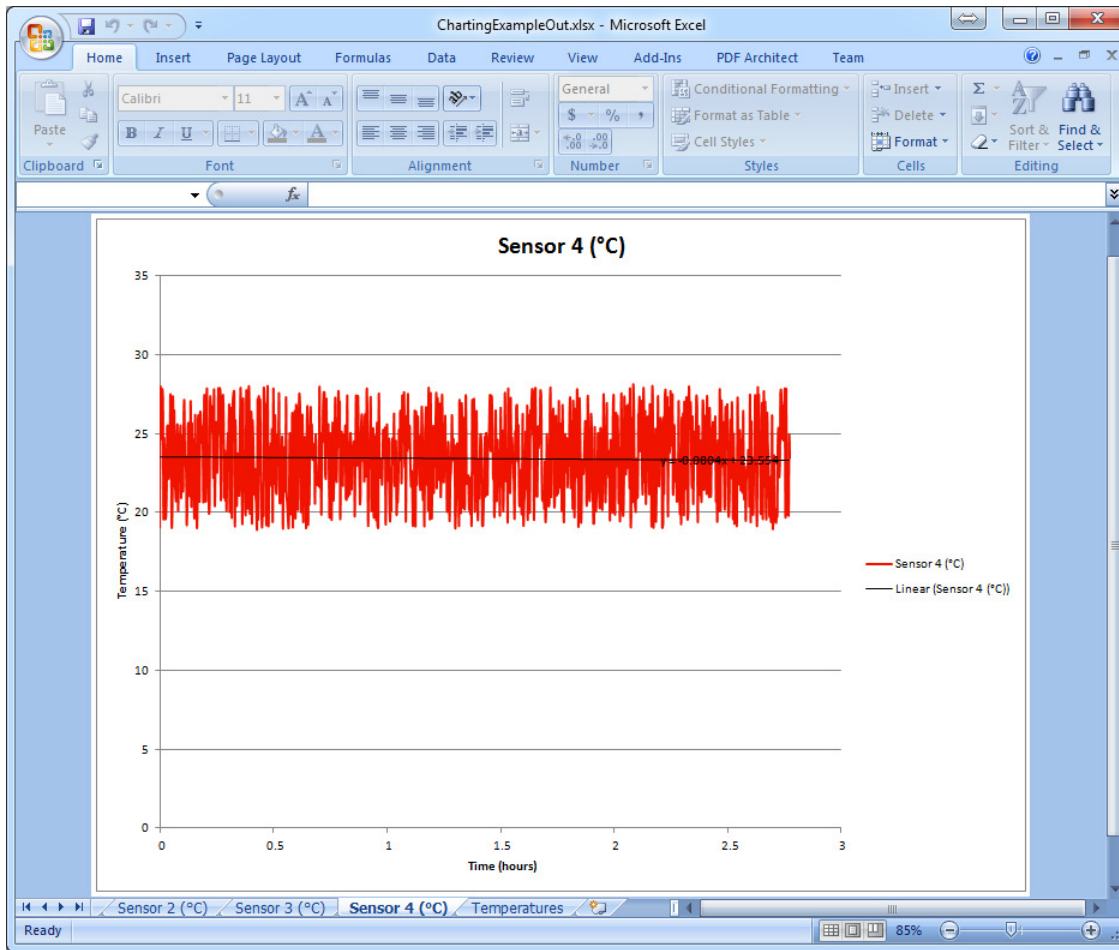
BatchChartingExample VI

Installed With: LabVIEW

This example demonstrates how to use the toolkit to batch process and automate chart generation of multiple Excel files. This example links to an existing example xls file located in the same directory as this vi which assumes each column of data contains a separate channel of recorded data where the first column is a time channel. This example also demonstrates how to add a series to a chart, customize its properties, and add a trendline to the series. Using this example as reference, one could generate an application to batch process many files that have been previously created by a third-party application or piece of hardware and generate nice looking and consistent reports in Excel.
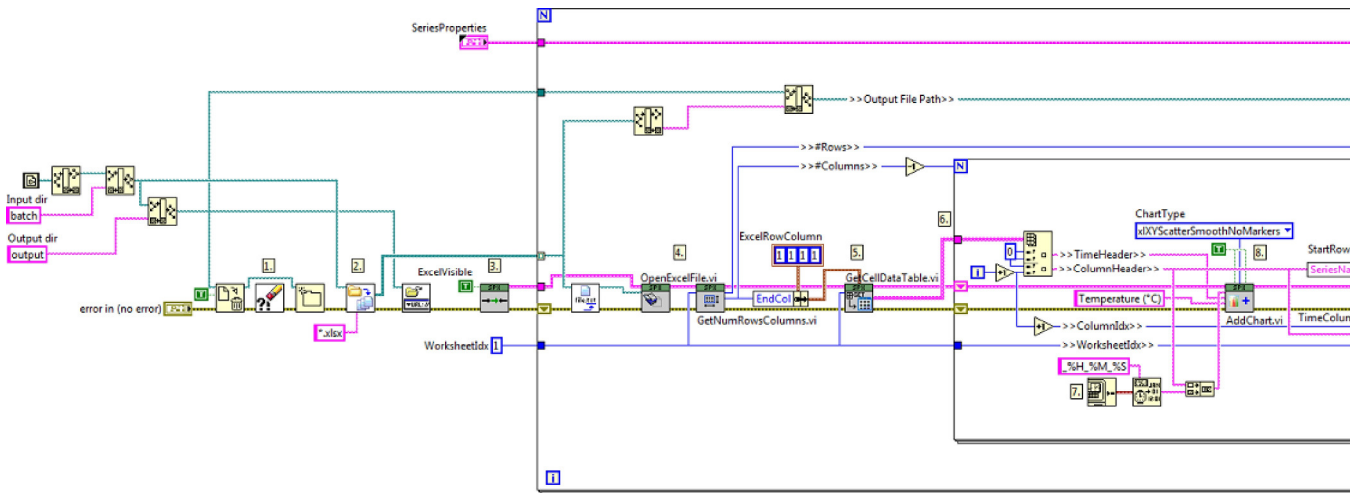
1. Delete output directory first to clear old files.
2. Get list of all .xlsx files in the top level directory and open the top level dire
3. Open Excel and make the application visible.
4. For each file, open the Excel file and get the number of rows and columns
5. Read all the data in the worksheet.
6. Iterate through each column (which are channels) to create a separate gra
7. Get the current time string to use as the chart sheet name so it is unique o
   example is run again on the same files the same names will be given as exi
   will cause an Excel error.
8. Add a chart on a separate sheet with the column channel header and time
9. Add a series to the chart for the channel. There is only one series per char
   multiple channels can be plotted on the same chart if required.
10. Add a linear tendline to the series that was added.
11. Close and save the entire workbook to a separate output file (it could also
    input file which would overwrite it).
12. After all files are processed, close all references and the Excel application.

Aledyne engineering

Macros Help

January 2014

The Macros palette provides the ability to add Visual Basic macros to a workbook. It is important to note that the security settings in the Excel Trust Center must be set appropriately. Specifically, you must enable "Trust access to the VBA Project object model" in Excel Settings (Trust Center) to be able to add and execute macros in Excel 2010 and later.
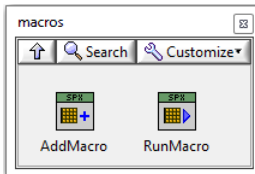
Refer to "<LabVIEW>\examples\Aledyne Engineering\Spreadsheet Express\MacroExample.vi" or the LabVIEW Example Finder for examples of how to use the toolkit.

To provide feedback or request support, contact us here.

AddMacro VI

Installed With: LabVIEW

Adds a macro to a workbook.
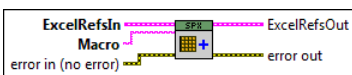
Macro is the macro code to add to the workbook.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

**ExcelRefsOut** is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

RunMacro VI

Installed With: LabVIEW

Runs a macro that exists in a workbook.
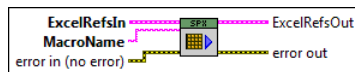
MacroName is the name to apply to the macro.

The **error out** cluster passes error or warning information out of a VI to be used by other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

ExcelRefsOut is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

ExcelRefsIn is a cluster of references to Excel and workbook ActiveX properties.

- **Excel.Application**
- **Excel.Workbooks**
- **Excel.Workbook**
- **Excel.Worksheet**
- **Excel.Sheets**
- **Excel.Charts**
- **Excel.Chart**

The **error in** cluster can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **status** boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **code** input identifies the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

The **source** string describes the origin of the error or warning. The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

# MacroExample VI

Installed With: LabVIEW

This example shows how to insert and run a text based VB macro to add a chart and a series to the chart from exisiting data in Excel. The output is saved to a new file but can be saved to the same file if desired. Note: You must enable "Trust access to the VBA Project object model" in Excel Settings (Trust Center) to be able to run this example and execute Macros in Excel 2010 and later.
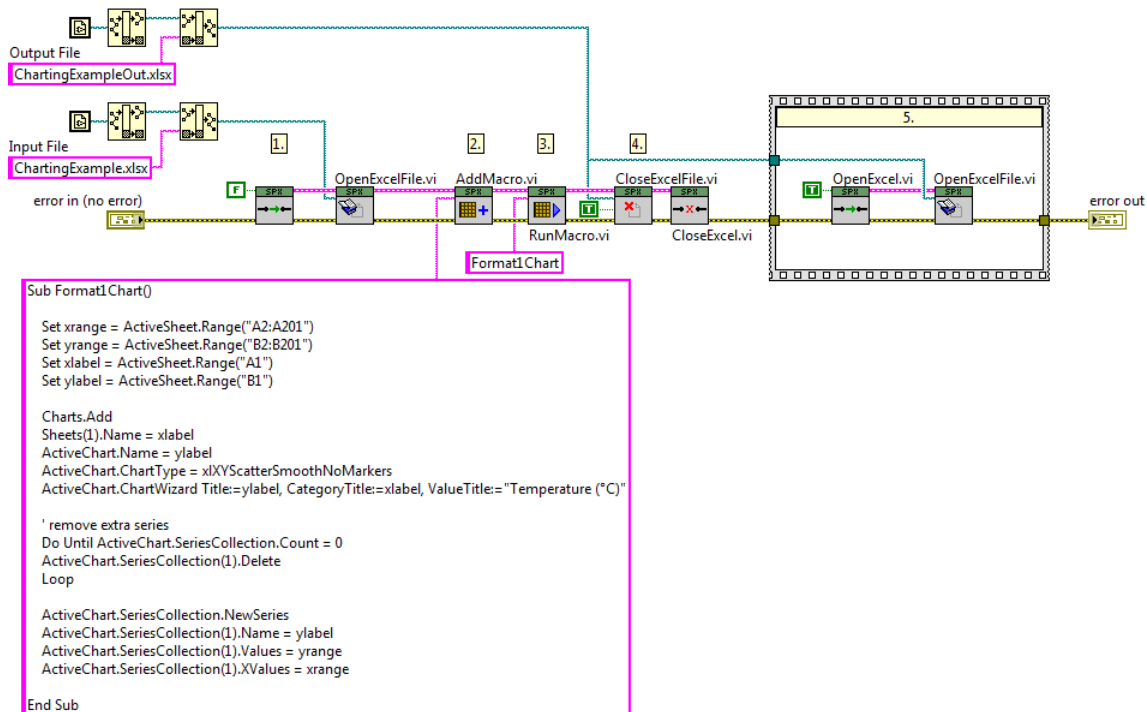
Ensure the "Trust access t the VBA project object model" option below is enabled in Excel to use this feature.
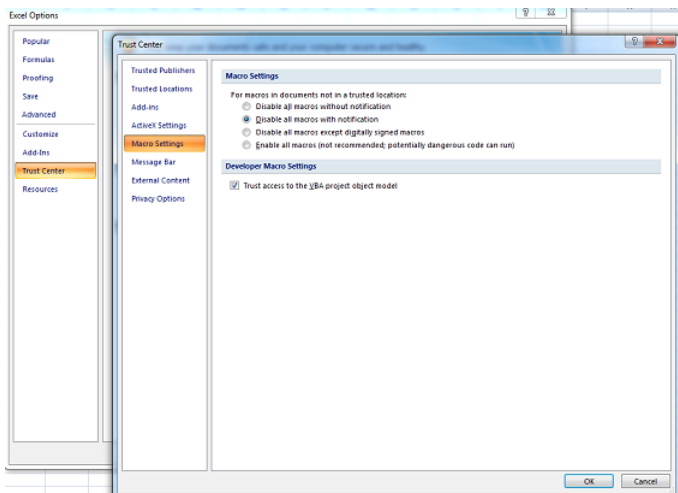
Templates Help

January 2014

Using an Excel .xltx template file is no different that interfacing with any other spreadsheet using the Spreadsheet Express toolkit. The process would be as follows:

1. Template file is manually created using Excel. Cells can be formatted as desired (see below for example). It is useful to name data cells where the data should be entered programmatically by Spreadsheet Express. In the example below you can see that Cell 2A has been assigned a name of "Data" so that using the Spreadsheet Express toolkit, a table of data can simply be written to the cell named "Data".
2. Template file is programmatically opened using Spreadsheet express the same way a normal spreadsheet file is opened.
3. Data is inserted into the template file as necessary.
4. Template file is saved with a unique name and the extension .xlsx (the file will be saved as a new spreadsheet file and the original template is left intact).
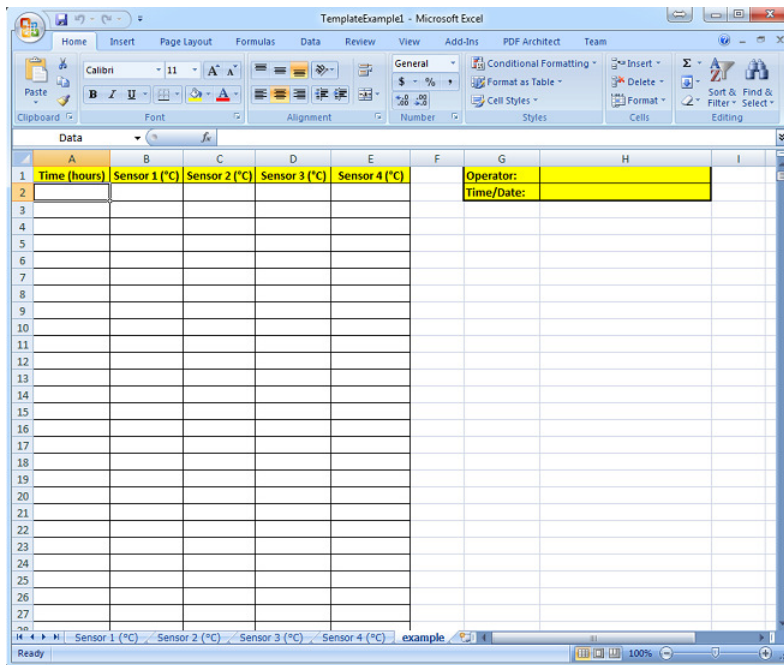
Refer to "<LabVIEW>\examples\Aledyne Engineering\Spreadsheet Express\TemplateExample.vi" or the LabVIEW Example Finder for examples of how to use the toolkit.

To provide feedback or request support, contact us here.

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GetDataExampleGetDataExampleGetDataExample

TemplateExample VI

Installed With: LabVIEW

This example shows how to read data from an exisiting Excel file and format it into an Excel pre-formatted template by referencing cell names. The template file and example input file are located in the same directory as this example. The output file is not saved, rather Excel is left open for displaying the output file.

1. Open the Excel File and get the number of rows and columns in the first worksheet.
2. Read all the data in the worksheet.
3. Close the file and the Excel application without saving it.
4. Now open Excel and the template file.
5. Write the operator name to the named cell.
6. Write the date to the named cell.
7. Write the data to the named cell.
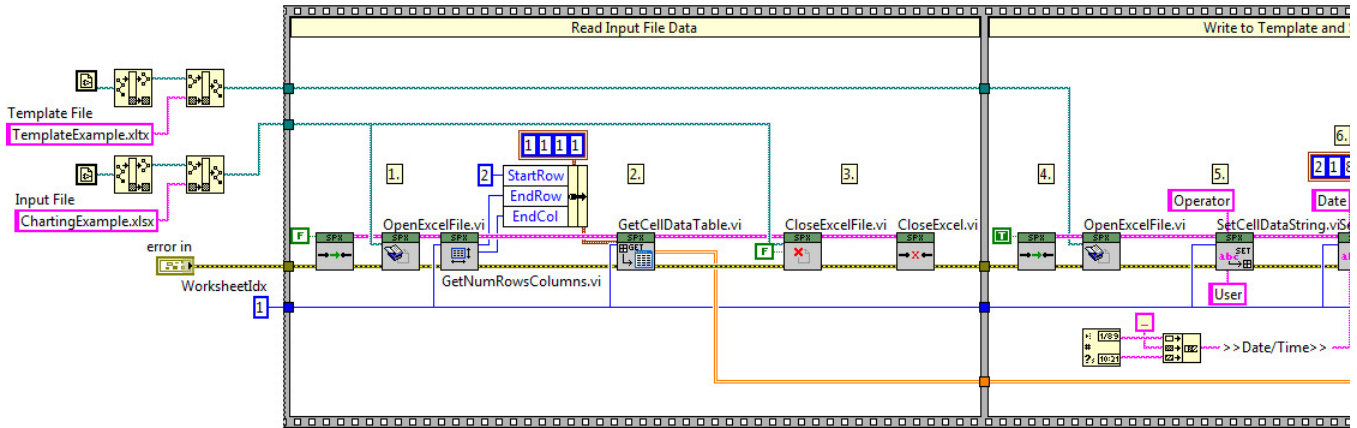
In this example the input tab-delimited file (left) needs to be reformatted into the Excel template (right) and an operator and time stamp must be added. To do this, this example demonstrates how to read the contents of the input file then open a template file and transfer the contents into the appropriate named cells. Then the file can be saved as a new filename after writing the data to the template.

After processing the above input file, the output file is as follows: