Printing Options

center_vertical = 'yes' | 'no' | 'on' | 'off'
center_horizontal = 'yes' | 'no' | 'on' | 'off'
Controls vertical and horizontal centering for printing. The default is 'no'.

column_repeat = 'none' | 'number' | 'range' | 'header'
row_repeat = 'none' | 'number' | 'range' | 'header'
If a number or range of numbers (e., 3–5) is specified, those columns/rows are repeated across pages when a worksheet breaks across pages when printing. If 'header' is specified, the row/column headers for the first table of the worksheet are repeated. The default is 'none'.

fitpage = 'yes' | 'no' | 'on' | 'off'
Fit to the page when printing. The default is 'no'.

gridlines = 'yes' | 'no' | 'on' | 'off'
Controls gridlines when printing. The default is 'no'.

orientation = 'portrait' | 'landscape'
Controls page orientation for the worksheet when printing. The default is 'portrait'.

page_order_across = 'yes' | 'no' | 'on' | 'off'
If set to 'yes' or 'on', the worksheet page order is set to print across and then down. The default is 'no'.

pages_fitheight = 'number'
pages_fitwidth = 'number'
Determines the number of pages down and across, respectively, to fit the worksheet when printing. The default is '1'.

print_footer = 'string'
print_header = 'string'
If embedded footers and headers are on, this value is used as the footer/header for printing. The default is '*'.

rowcolheadings = 'yes' | 'no' | 'on' | 'off'
Enables row and column headings for printing. The default is 'no'.

scale = 'number'
If set to 'number', the worksheet page order is set to print across and then down. The default is '1'.

worksheet_breaks = 'header' | 'column' | 'row' | 'range'

TAGATTR= Styles

The TAGATTR= style attribute can be used to embed Excel instructions into cells. The TAGATTR= style attribute is applied using PROC TEMPLATE, Table templates, or one of the reporting procedures (PRINT, REPORT, TABULATE, FREQ CROSSTABS). A simple example is shown below.

```sas
proc print noobs;
  var a b;
  var c / style(head)=tagattr='…';
  style(data)=tagattr='…';
  run;
```

The TAGATTR= value is a space-separated list of name/value pairs. The name/value pairs are colon-separated as shown below.

tagattr='format:###.## rotate:90
  formula:SUM(R[-4]:C[-1]:C')

The following name-value pairs are supported:

**Format:**excel-format
Excel format to use for the cell values.

**Formula:**excel-formula
Excel formula used to compute the cell values.

**Hidden:**Yes
Hide the cell.

**MergeAcross:**Yes | No | Number
A value of Yes causes the cell to merge across the entire worksheet. A value of Number causes the cell to merge across that many columns.

**Rotate:**number
Rotates the text the given number of degrees. Only values from 90 to ~90 are valid.

**Type:**DateTime | General | Number | String
Specifies the Excel data type for the cells.
Basic Syntax

Execute the following code to get detailed information on options for the Excel XP tagset:

```sas
ods tagsets.excelxp file='test.xml' options(doc='help');
```

The options in this tip sheet are specified as follows:

```sas
ods tagsets.excelxp file='filename' options=(name=value ...);
```

Documentation Options

doc = 'string'

- `help`: displays introductory text and available options in full detail
- `quick`: displays introductory text and an alphabetical list of options, their current value, and a short description
- `settings`: displays configuration and debug settings
- `changelog`: lists the tagset changes in reverse order
- `all`: shows the output from all the Help options

Common Options

```sas
autofilter = 'none' | 'all' | 'range'
```

Control auto filter for all columns or a range of columns (e.g., '3–5'). The default is 'none'.

```sas
autofilter_table = 'number'
```

Indicates which table on the worksheet gets autofiltering applied. The default is '1'.

```sas
absolute_column_width = 'none' | 'number' | 'number-list'
```

Specifies column widths in characters. If the value of this option is a comma-separated list, each number is used for the column in the same position. If the table has more columns, the list repeats. The default is 'none'.

```sas
autofit_height = 'yes' | 'no' | 'on' | 'off'
```

If 'yes' or 'on', row heights are not specified by the tagset. This allows the autofit height of Excel itself to work. The default is 'no'.

```sas
auto_subtotals = 'yes' | 'no' | 'on' | 'off'
```

If 'yes' or 'on', this option causes a subtotal formula to be placed in the subtotal cells on the last table row of the Print Procedure's tables. It works only if the totals happen once per table. It does not work if the BY value and the ID value match. The default is 'no'.

```sas
blank_sheet = 'string'
```

Create a blank worksheet with the name given (up to 31 characters). This name will be used with a worksheet counter to create a unique name. The default is 'none'.

```sas
contents = 'yes' | 'no' | 'on' | 'off'
```

If set to 'yes' or 'on', the first worksheet contains a table of contents with links to each worksheet in the workbook. The default is 'no'.

```sas
contents_workbook = 'contents' | 'index' | 'workbooks' | 'all'
```

If set to 'all', the contents file contains three worksheets: a list of workbooks, a hierarchical table of contents, and a list of worksheets. The default is 'contents', 'index'.

```sas
convert_percentages = 'yes' | 'no' | 'on' | 'off'
```

Converts percentage values to numeric percentages using Excel's percentage format. The default is 'yes'.

```sas
currency_format = 'string'
```

Specifies the Excel format to be used for currency. The default is 'currency'.

```sas
currency_symbol = 'string'
```

Specifies characters used for detection of currency formats so that Excel sees currency as numbers. The default is '$'.

```sas
currency_separator = 'string'
```

Controls how columns and row heights will be calculated on the worksheet. The default is 'none'.

```sas
decimal_separator = 'string'
```

Character used for the decimal point. The default is '.'.

```sas
default_column_width = 'none' | 'number' | 'number-list'
```

Default column width (in characters). If the value of this option is a comma-separated list, each number is used for the column in the same position. If the table has more columns, the list repeats. The default is 'none'.

```sas
embedded_footnotes = 'yes' | 'no' | 'on' | 'off'
```

Embeds footnotes in the worksheet. By default, footnotes are a part of the print header and footer. The default is 'no'.

```sas
embedded_titles = 'yes' | 'no' | 'on' | 'off'
```

Embeds titles in the worksheet. By default, titles are a part of the print header and footer. The default is 'no'.

```sas
embedded_titles_once = 'yes' | 'no' | 'on' | 'off'
```

If 'yes' or 'on', embedded titles appear only at the top of each worksheet. The default is 'no'.

```sas
formulas = 'yes' | 'no' | 'on' | 'off'
```

Converts data values that start with an equal sign (=) into Excel formulas. The default is 'yes'.

```sas
frozen_headers = 'yes' | 'no' | 'true' | 'false' | 'number'
```

If 'yes' or 'on', the rows down to the bottom of the headers are frozen when the table data scrolls. If a number is given, that is the row count that is frozen. The default is 'no'.

```sas
frozen_rowheaders = 'yes' | 'no' | 'true' | 'false' | 'number'
```

If 'yes' or 'on', the header columns on the left are frozen when the table data scrolls. If a number is given, that is the column count that is frozen. The default is 'no'.

```sas
hidden_columns = 'none' | 'number' | 'number-list' | 'range'
```

Hide specified columns. The value is a comma-separated list of numbers or ranges. The default is 'none'.

```sas
hidden_rows = 'none' | 'number' | 'number-list' | 'range'
```

Hide specified rows. The value is a comma-separated list of numbers or ranges. The default is 'none'.

```sas
index = 'yes' | 'no' | 'on' | 'off'
```

This value is added to the row height for each row. The additional height makes the spreadsheet easier to read. The default is '4'.

```sas
row_heights = 'number-list'
```

Controls how tall the rows will be for each type of row. The numbers are in points. The default is '0,0,0,0,0,0'.

```sas
sheet_interval = 'table' | 'page' | 'bygroup' | 'proc' | 'none'
```

Controls when a new worksheet is created. The default is 'none'.

```sas
sheet_label = 'none' | 'string'
```

Controls the prefix of worksheet names. The default is 'none'.

```sas
sheet_name = 'none' | 'string'
```

Specifies the worksheet name (up to 31 characters). This name will be used in combination with a worksheet counter to create a unique name. The default is 'none'.

```sas
skip_space = 'number-list'
```

Controls how much space follows the different types of output that can occur within a worksheet. The default is '1,0,1,1,1'.

```sas
suppress_bylines = 'yes' | 'no' | 'on' | 'off'
```

Suppresses bylines in the worksheet. The default is 'no'.

```sas
thousands_separator = 'string'
```

Specifies the character used for indicating thousands in numeric values. The default is '•'.

```sas
width_fudge = 'number'
```

This value is used with `width_points` and column width to calculate an approximate width for the table columns. The default is '0.75'.

```sas
width_points = 'none' | 'number'
```

Override value for width calculations. The default is 'none'.

```sas
zoom = 'number'
```

Determines the initial zoom level on the worksheet. The default is '100'.

```sas
width_points = 'none' | 'number'
```

Override value for width calculations. The default is 'non e'.