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# %kutitles

#### Overview

The %kutitles macro assigns titles to SAS outputs based on specifications from a TFL (Tables, Figures, and Listings) titles file. It manages global and program-specific titles, handles title justification, and automatically includes page numbers and timestamps in standard locations.

#### **Version Information**

- Version: 1.0
- Last Updated: 17SEP2022
- Author: Atorus Research

### **Dependencies**

- SAS Version: SAS 9.4 V9
- Required Files:
  - TFL\_titles.csv in specified filepath
- · Required Global Variables:
  - \_root: Root directory path (created automatically by xuprogpath.sas)
  - \_\_clnt\_I: Client identifier (created automatically by xuprogpath.sas)
  - o \_\_comp: Compound identifier (created automatically by xuprogpath.sas)
  - \_\_prot: Protocol identifier (created automatically by xuprogpath.sas)
  - \_\_subfolders\_I: Subfolder structure (created automatically by xuprogpath.sas)
  - \_\_task: Task identifier (created automatically by xuprogpath.sas)
  - tmstmp\_date: Current date (created automatically by jdtflstyle.sas)
  - tmstmp\_time: Current time (created automatically by jdtflstyle.sas)

#### **Parameters**

| Parameter  | Required | Default  | Description  |
|------------|----------|--|--|
| progname   | Yes      | -  | Program<br>name to<br>search in<br>TFL_titles.csv    |
| filepath   | No       | &root.&clnt_I.&II.&comp.&II.&prot.&subfolders_I.&II.&task.&II.final&II.specs | Path to<br>TFL_titles.csv                            |
| seq        | No       | 1  | Sequence<br>number of<br>output in<br>TFL_titles.csv |
| justify    | No       | c  | Title<br>alignment<br>(l/c/r)                        |
| escapechar | No       | \$   | ODS escape<br>character                              |
| debug      | No       | N  | Flag to<br>retain<br>temporary<br>datasets           |

### Return Values/Output

- Sets up to 5 title lines:
  - o Title1: Left-justified title with right-justified page number
  - o Title2: Left-justified title with right-justified program name and timestamp
  - o Title3-5: Justified according to parameter setting
- · Log messages indicating:
  - Missing parameters
  - o Missing titles file

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- o Multiple title entries
- Missing global titles

### **Processing Details**

- 1. Parameter validation:
  - o Checks required parameters
  - o Verifies TFL\_titles.csv existence
  - o Validates parameter values
- 2. Title preparation:
  - Clears existing titles
  - o Imports titles file
  - o Checks for duplicate entries
  - Processes global titles
- 3. Title formatting:
  - Handles quotation marks
  - o Applies justification
  - o Adds page numbers
  - o Includes timestamps
- 4. Title assignment:
  - Sets up to 5 title lines
  - o Applies specified formatting
  - Manages missing titles
  - o Cleans up temporary data

### **Examples**

#### Common Issues and Solutions

- 1. Missing Titles File
  - Error: "TFL\_titles.csv was not found"
  - Solution: Verify file path and existence
- 2. Multiple Title Entries
  - Warning: "multiple rows present for [program]"
  - Solution: Review and correct TFL\_titles.csv
- 3. Missing Global Titles
  - o Warning: "title1 and title2 were not resolved"
  - o Solution: Check GlobalTitle1/2 in TFL\_titles.csv

### **Notes and Limitations**

- 1. Title structure:
  - Maximum 5 title lines

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- Standard header format
- Automatic page numbering
- o Program identification

#### 2. File requirements:

- CSV format
- Specific column structure
- o Global title definitions
- o Program-specific entries

#### 3. Processing behavior:

- Clears existing titles
- Handles missing entries
- o Preserves title order
- Manages special characters

### See Also

- %jdtflstyle: Output styling
- %kplotrtf: RTF plot generation
- Other TFL formatting macros

## Change Log

### Version 1.0 (17SEP2022)

- Initial release
- Basic title management
- Global title support
- Automatic page numbering