

%xuprospath

Overview

The `%xuprospath` macro determines the full path of the currently executing SAS program and creates global variables containing task-related information based on Atorus's standard programming environment structure. It parses the program path to extract information about the client, compound, protocol, task, and other organizational elements.

Version Information

- Version: 1.0
- Last Updated: 19FEB2021
- Author: Atorus Research

Dependencies

- SAS Version: SAS 9.4 V9
- Required Global Variables:
 - `__sasprogramfile`: Set by SAS EG to contain the full program path
 - `__root`: Root directory path (set in `autoexec.sas`)
 - `__sponsor_level`: Flag indicating sponsor-level directory structure (Y/N; set in `autoexec.sas`)
 - `__prod_qc_separation`: Flag indicating production/QC separation (Y/N; set in `autoexec.sas`)
 - `II`: Directory separator character (set in `autoexec.sas`)
- No macro dependencies

Parameters

None - The macro uses global variables and system information to perform its functions.

Return Values/Output

Creates the following global variables:

- **Path-related:**
 - `__program_full_path`: Full path to the executing program
 - `__p_name`: Program name without extension
 - `__p_path`: Program directory path
 - `__log_path`: Path for log files
 - `__lst_path`: Path for list files
- **Organization-related:**
 - `__clnt`: Client name (if `sponsor_level=Y`)
 - `__comp`: Compound name
 - `__prot`: Protocol name
 - `__subfolders`: Intermediate folder structure

- `__task`: Task name
- `__level`: Development level (development/final)
- `__side`: Production side (prod/val)
- `__type`: Program type (sdtm/adam/tlf)

Processing Details

1. Environment check:

- Verifies existence of `_sasprogramfile` variable
- Validates program path is not empty

2. Path parsing:

- Extracts program path relative to root directory
- Determines organizational structure based on `__sponsor_level`
- Identifies development level (final/development)
- Extracts subfolder structure between protocol and task

3. Variable creation:

- Sets path-related variables
- Determines organizational variables
- Creates log and list file paths

4. Logging:

- Outputs all created variables to log
- Groups information by category (program, task, outputs)

Examples

```
/* Basic usage - typically called by [`setup.sas`](/man/study_specific/setup.md)
or %xumprint */
%xuprogpath;

/* Example output in log:
*****
*****
=== Program being executed ===
Program executed by: jsmith
Program full path :
C:/Projects/Client/Compound/Protocol/Task/final/sdtm/program/dm.sas
Program name      : dm
Program path      : C:/Projects/Client/Compound/Protocol/Task/final/sdtm/program/
*****
*****
=== Task Information ===
Client    : Client
Compound  : Compound
Protocol  : Protocol
```

```

Subfolders:
Task       : Task
Level      : final
Side       : prod
Type       : sdtm
*****
*****

=== Logs and lst outputs path ===
Log path: C:/Projects/Client/Compound/Protocol/Task/final/sdtm/log/
Lst path: C:/Projects/Client/Compound/Protocol/Task/final/sdtm/lst/
*****
*****

*/

```

Common Issues and Solutions

1. Missing Program Path

- Issue: `_sasprogramfile` is empty or not set
- Solution: Ensure program is run through SAS EG or proper environment setup

2. Incorrect Directory Structure

- Issue: Unable to parse organizational elements
- Solution: Verify folder structure follows Atorus standards

3. Missing Global Variables

- Issue: Required global variables not set
- Solution: Ensure `autoexec.sas` properly initializes environment

Notes and Limitations

1. Designed specifically for Atorus's standard programming environment structure.
2. Requires specific directory hierarchy:
 - Optional sponsor level: Client/Compound/Protocol
 - Standard level: Compound/Protocol
3. Assumes standard folder types (development/final) and program types (sdtm/adam/tlf).
4. Should be called automatically by `%xumprint` or `setup.sas`.

See Also

- `%xumprint`: Calls `%xuprogpath` for program information
- `setup.sas`: Sets up the study global variables and libnames
- Other setup and initialization macros

Change Log

Version 1.0 (19FEB2021)

- Initial release

- Basic path parsing functionality
- Support for sponsor-level directory structures
- Automatic log/lst path determination