%setup - Study Environment Setup Utility

Overview

The `%setup` macro initializes the study environment by setting up global variables for directory paths and creating library references. It processes directory structure information to establish paths for client, protocol, and task-specific locations, and creates standardized library references for study data.

Version Information

- **Version**: 1.0
- **Last Updated**: 18FEB2021
- **Author(s)**: Atorus Research

Dependencies

- SAS Version: SAS 9.4 V9
- Required Macros:
  - `%xuprogpath`: For determining program execution path and setting initial global variables
- No external files/datasets required

Parameters

This macro has no parameters as it is designed to run automatically within the `%xumprint` macro.

Return Values/Output

Creates the following:

Global Variables

- `__clnt_I`: Client folder path component with separator
- `__subfolders_I`: Subfolder path components with separators
- `__side_I`: Side folder path component with separator

Library References

Standard Libraries:

- `specs`: Specifications folder
- `crf`: CRF data
- `external`: External data
- `dict`: Dictionary/reference data
- `rawmisc`: Miscellaneous raw data
- `raw`: Concatenation of crf, external, dict, and rawmisc

Production/Validation Libraries (when `__side` is defined):

- Production:

    - `sdtm`: SDTM datasets
    - `adam`: ADaM datasets
    - `tfl`: Tables, Figures, and Listings
    - `misc`: Miscellaneous files
- Validation:
    - `vsdtm`: Validation SDTM datasets
    - `vadam`: Validation ADaM datasets
    - `vtfl`: Validation TFLs
    - `vmisc`: Validation miscellaneous files

Processing Details

1. Initial Setup:
    - Calls `%xuprogpath` to determine program path and set initial variables
    - Creates conditional setup macro for directory structure processing
2. Directory Structure Processing:
    - Processes `__clnt` variable to create `__clnt_I`
    - Processes `__subfolders` variable to create `__subfolders_I`
    - Processes `__side` variable to create `__side_I`
3. Library Assignment:
    - Creates standard library references for raw data
    - Conditionally creates production/validation libraries based on `__side` value
    - Sets up SASAUTOS path for macro libraries

Examples

Automatic Usage

```
/* The macro is called automatically by %xumprint */
%xumprint(route=YES);
```

Manual Usage (if needed)

```
/* First call xuprogpath to set required globals */
%xuprogpath;

/* Then run setup */
%setup;
```

Common Issues and Solutions

Issue	Solution
Missing library paths	Verify directory structure matches expected pattern
Invalid permissions	Check user access to specified directories
Missing global variables	Ensure `%xuprogpath` is called before `%setup`

Notes and Limitations

1. Directory Structure:
    - Assumes standard project directory structure
    - Requires specific folder hierarchy for proper path resolution
    - Handles both production/validation separated and combined structures
2. Library References:
    - Creates standard set of library references
    - Adapts to presence/absence of validation directories
    - All paths use OS-appropriate separators
3. Usage Context:
    - Designed for automatic execution within `%xumprint`
    - Can be run standalone if needed
    - Requires prior execution of `%xuprogpath`

See Also

- `%xuprogpath`: Program path resolution utility
- `%xumprint`: Program execution wrapper

Change Log

Version	Date	Author	Changes
1.0	18FEB2021	Rostyslav Didenko	Initial version