

m_utl_set_table_lock.sas File Reference

Utilities

Utility macro to set an exclusive lock on a SAS dataset

Description

This macro can be used to set an exclusive lock on a SAS dataset, which is owned by the user running this program. The result value can be returned in a SAS macro variable. Valid lock status result values are:

RESULT = 1 -> Table is now locked by you.

RESULT = 0 -> Table could not be locked by you.

Note

SAS Problem Note 2859: LOCK statement or function with LIST or QUERY options might report locks incorrectly:

<http://support.sas.com/kb/2/859.html>

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Version

20.1.09

Link

<https://github.com/paul-canals/toolbox>

Parameters

| | | |
|--------|------------|---|
| Input | help | Parameter, if set (or ?) to print the Help information in the log. In all other cases this parameter should be left out from the macro call. |
| Input | member | Full LIBNAME.TABLENAME name of the SAS Dataset to set an exclusive access lock on. The default value for MEMBER is: <code>_NONE_</code> . |
| Input | timeout | The or wait time in amount of seconds. The default value for TIMEOUT is: 60. |
| Input | retry | The amount of time in seconds between tryouts The default value for RETRY is: 5. |
| Input | global_flg | Boolean [Y N] Parameter to specify wether the result value is to be declared as a global macro variable. If set to N, the result is not returned outside this program. The default value is: N. |
| Output | mvar_name | Name of the global SAS macro variable containing the result value representing the lock status. The default value for MVAR_NAME is: <code>_locked</code> . |
| Input | show_err | Boolean [Y N] parameter to show or hide warnings or errors in the log. The default value is: Y. |
| Input | debug | Boolean [Y N] parameter to provide verbose mode information. The default value is: N. |

Returns

- Lock set on a SAS dataset

Calls

- [m_utl_print_message.sas](#)
- [m_utl_print_mtrace.sas](#)

Usage

Example 1: Show help information:

```
%m_utl_set_table_lock(?)
```

Example 2: Set an exclusive lock on a SAS dataset:

```
data WORK.class;
  set SASHELP.class;
run;

%m_utl_set_table_lock(
  member      = WORK.class
  , timeout    = 60
  , retry      = 5
  , global_flg = Y
  , mvar_name  = locked
  , show_err   = Y
  , debug      = Y
)
%put &=locked.;

proc append base=WORK.class
  data=SASHELP.class;
run;

lock WORK.class clear;
%put &=SYSLCKRC.;
```

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