m_utl_set_date.sas File Reference

Utilities

Utility macro to convert a given date by day pointer or format

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Description

The macro converts a given date by day pointer and/or format, as also returns a list of dates based on the given day date:
given day date
[actual|first|middle|last] day of [actual|last|next] month
[actual|first|middle|last] day of [actual|last|next] quarter
[actual|first|middle|last] day of [actual|last|next] year

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Version

23.1.08

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	in_date	Specifies the valid date selection for evaluating the output reporting dates list. The parameter value has to be specified by using the following format: DD.MM.YYYY. The default value is: _NONE_.
Input	dat	Alias of the IN_DATE= parameter.
Input	date_fmt	Specifies the output date format to be used. The default value for DATE_FMT is: DDMMYYP10.
Input	fmt	Alias of the DATE_FMT= parameter.
Input	date_pnt	Parameter [SAMEDAY|BEGIN|MIDDLE|END] to specify the day pointer to be used for the output date list values of macro vars MVAR_DT1 to MVAR_DT4. The default value for DATE_PNT is: SAMEDAY.
Input	pnt	Alias of the DATE_PNT= parameter.
Input	list_pnt	Parameter [SAMEDAY|LAST|NEXT] to specify the date list pointer to be used for the output date list values of macro vars MVAR_DT1 to MVAR_DT4. The default value for LIST_PNT is: SAMEDAY.
Input	special	Boolean [Y|N] parameter to specify if the date selection considers accounting date values. This If set to Yes, it checks if the actual date is the first month and quarter of the year range, and also if the LIST_PNT parameter is set to LAST. If this is the case, the year value of MVAR_DT4 is set to before last year (-2 years). The default value for SPECIAL is: N.
Input	global	Boolean [Y|N] Parameter to specify wether the MVAR_x parameter values will be declared as global SAS macro variables. If set to N, the MVAR_x parameter values will not be returned outside this macro. The default value is: N.
Input	inline	Boolean [Y|N] Parameter to specify whether the macro returns the MVAR_DT1 value inline inside SAS procedure step. The default value is: N.
Input	mvar_dt1	Name of the macro variable containing the input date value by the IN_DATE parameter. The default value for MVAR_DT1 is: _date1_.
Input	mvar_dt2	Name of the macro variable containing the month date based on the IN_DATE parameter. The default value for MVAR_DT2 is: _date2_.
Input	mvar_dt3	Name of the macro variable containing the quarter date based on the IN_DATE parameter. The default value for MVAR_DT3 is: _date3_.
Input	mvar_dt4	Name of the macro variable containing the year date based on the IN_DATE parameter. The default value for MVAR_DT4 is: _date4_.
Input	debug	Boolean [Y|N] parameter to provide verbose mode information. The default value is: N.

Returns

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Calls

- m_utl_print_message.sas
- m_utl_print_mtrace.sas

Usage

Example 1: Show help information

```
%m_utl_set_date(?)
```

Example 2: Get end-of-month day date for given date 14.09.2019:

```
%m_utl_set_date(
   in_date  = 14.02.2019
 , date_pnt = end
 , global   = Y
 , mvar_dt2 = end_of_this_month
 , debug    = N
   )
%put &=end_of_this_month.;
```

Example 3: Get beginning-of-month day date for given date 14.09.2019:

```
%m_utl_set_date(
   in_date  = 14.09.2019
 , date_pnt = begin
 , global   = Y
 , mvar_dt2 = begin_of_this_month
 , debug    = N
   )
%put &=begin_of_this_month.;
```

Example 4: Get last month day date for given date 14.09.2019:

```
%m_utl_set_date(
   in_date  = 14.09.2019
 , date_pnt = end
 , list_pnt = last
 , global   = Y
 , mvar_dt2 = end_of_last_month
 , debug    = N
   )
%put &=end_of_last_month.;
```

Example 5: Get next month day date for given date 14.09.2019:

```
%m_utl_set_date(
   in_date  = 14.09.2019
 , date_pnt = sameday
 , list_pnt = next
 , global   = Y
 , mvar_dt2 = same_day_next_month
 , debug    = N
   )
%put &=same_day_next_month.;
```

Example 6: Get ultimo day date results for given date 14.09.2019:

```
%m_utl_set_date(
   in_date  = 14.09.2019
 , date_pnt = end
 , global   = Y
 , mvar_dt1 = input_day_date
 , mvar_dt2 = end_of_this_month
 , mvar_dt3 = end_of_this_quarter
 , mvar_dt4 = end_of_this_year
 , debug    = N
   )
%put &=input_day_date.;
%put &=end_of_this_month.;
%put &=end_of_this_quarter.;
%put &=end_of_this_year.;
```

Example 7: Convert date format for given date 14.09.2019:

```
%let formatted_date=
    %m_utl_set_date(
        dat    = 14.09.2019
      , fmt    = date9
      , inline = Y
      , debug  = N
        );
%put &=formatted_date.;
```

Example 8: Convert date format for given date 14.09.2019:

```
%let formatted_date=
    %m_utl_set_date(
        dat    = 14.09.2019
      , fmt    = yymmddn8
      , inline = Y
      , debug  = N
        );
%put &=formatted_date.;
```

Example 9: Convert date format and set day for given date 14.09.2019:

```
%let formatted_date=
    %m_utl_set_date(
        dat    = 14.09.2019
      , fmt    = date9
      , pnt    = E
      , inline = Y
      , debug  = N
        );
%put &=formatted_date.;
```

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