

## Function DATE\_PICKER – Calendar using standard DBL or UI\_Toolkit

This function presents a **Calendar** style Synergy window so the user can select a date using the mouse.

The function returns an Alpha field containing the date the user clicked on.

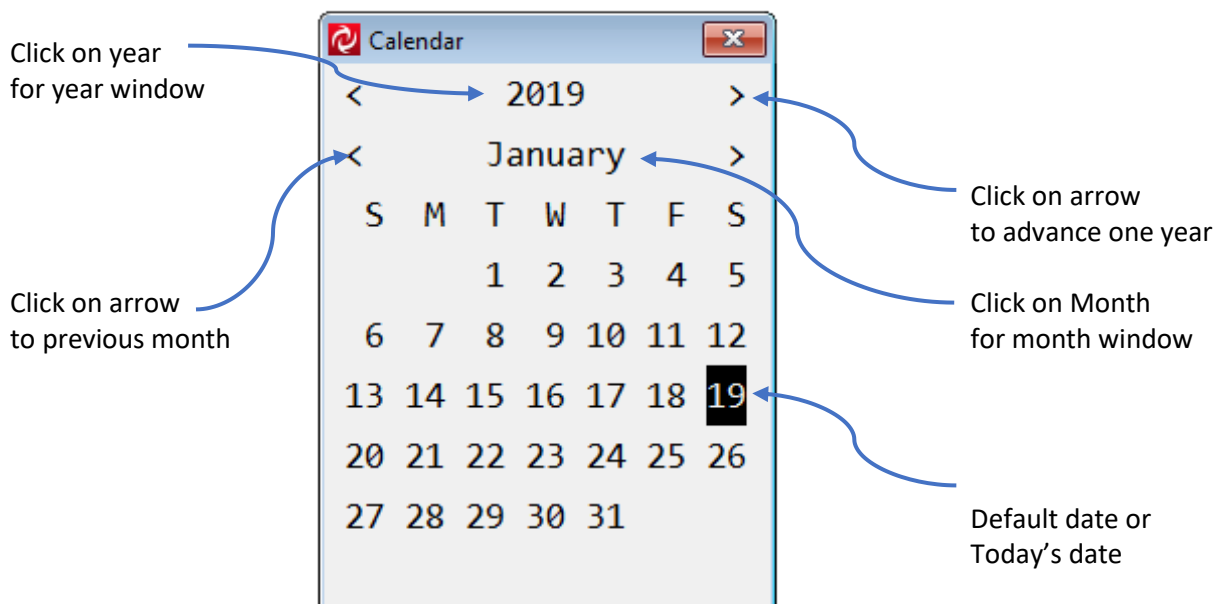
ENTRY = %DATE\_PICKER ([Row],[Col],[Region/Format],[Heading],[DefaultDate],[Region],[Value])

This function will work for:

- Traditional DBL style code      open (15,o,'TT:')
- UI\_Toolkit style code.      xcall u\_start
- It does not rely on the Terminal being open or initiated.

This function should build successfully for Synergy versions 8.0 onwards

Screen example:



This function **only works on Windows** as it requires mouse capability.

The simplest form of coding is: My\_Date = %Date\_Picker

The programmer can nominate the Calendar placement row and column, however the user can drag the window around within the Synergy container. Sub windows are anchored to the main Calendar window.

The user can navigate the "year" and the "month" by clicking on left "<" and right ">" arrows or by clicking on the actual year or month displayed when they will be presented with further selection windows. The year and month windows are anchored to the Calendar window.

The programmer can nominate the start/default date the calendar lands on with the default day highlighted or alternatively the function will automatically land on the current date if default not passed as parameter. The user can press **Enter** to select the highlighted date or click on any other day in the month presented or navigate to another year or month.

The programmer can nominate regional date formats as well as the format of the returned alpha value.

Default settings return the Alpha field containing the date in YYYYMMDD format.  
The regional and formatting options are:

Setting	Action	Example
Y or Blank	Return date in YYYYMMDD format	Default setting
Y?	Return date in YYYY?MM?DD format	eg. Y/ YYYY/MM/DD
M	Return date in MMDDYYYY format	
M?	Return date in MM?DD?YYYY format	eg. M- MM-DD-YYYY
D	Return date in DDMMYYYY format	
D?	Return date in DD?MM?YYYY format	eg D/ DD/MM/YYYY
D~	Return date in DD MM YYYY format	eg D~ DD MM YYYY

The ~ character has special meaning in the formatting in that it is translated to a space. It can be used in any of the formats Y~ D~ M~ to place a space as the formatting character between the Year Day and Month values, eg 12 31 2019

All parameters are Optional, they are:

1. Placement Row – defaults to row 10
2. Placement Column – defaults to col 30
3. Regional and Formatting (Y, M, D, Y?, M?, D?) – defaults to Y
4. Heading to put on top of Calendar – defaults to “Calendar”
5. Default Date for Calendar to land on - defaults to today
6. Default Date Format (Y, M, D) – defaults to Y
7. Returned date in numeric format always as YYYYMMDD

Exit and Error states are returned in the Alpha value and also in parameter 7 if it is passed.

The returned values are:

Condition	Alpha	Parameter 7 Value
Exit Button	“O_EXIT”	-1
ESC Key	“ESC”	-2
Exit Click on X	“EXIT”	-3
Timeout	“TIMEOUT”	-4

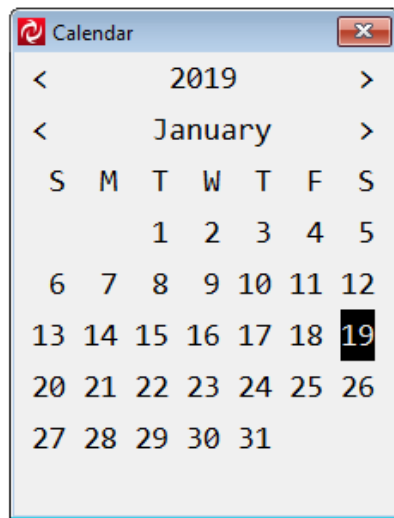
There are several .defines in the code to enable standard settings:

Time_Out	Time out value in seconds Default value is 120 (2 minutes) cannot be 0 or -1, 999 = no time out/forever
Exit_key	Value for G_ENTNAM exit value O_EXIT if using UI_TOOLKIT, can be set programmatically.
Default_iFType	Default date format for returned alpha field Set to Y = YYYYMMDD Can be modified by parameter 3.
Default_iDType	Default date format for incoming DefaultDate parameter Set to Y = YYYYMMDD Can be modified by parameter 6.

**DATE\_PICKER** – Pick a date from a Calendar type input.

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Date = %DATE\_PICKER ([Row],[Col],[Region/Format],[Heading],[DefaultDate],[Region],[Decimal])



### Return Value

Date

An alpha field containing the Date selected by the user

### Arguments

Row

Optional Placement Row

Col

Optional Placement Column

Region/Format

Optional Date format of incoming Default Date

Heading

Optional Box heading

DefaultDate

Optional Default Date the Calendar lands on

Region

Optional Regional format for returned Date value

Decimal

Optional returned date value in YYYYMMDD format (D8)

### Discussion

This function returns the selected date from a Calendar style window

Default settings return the Alpha string containing the date in YYYYMMDD format.

The regional and formatting options are:

Y	Return date in YYYYMMDD	format	Default setting
Y?	Return date in YYYY?MM?DD	format	eg. Y/ YYYY/MM/DD
M	Return date in MMDDYYYY	format	
M?	Return date in MM?DD?YYYY	format	eg. M- MM-DD-YYYY
D	Return date in DDMMYYYY	format	
D?	Return date in DD?MM?YYYY	format	eg D/ DD/MM/YYYY
D~	Return date in DD MM YYYY	format	eg D~ DD MM YYYY

The ~ character has special meaning in the formatting in that it is translated to a space. It can be used in any of the formats Y~ D~ M~ to put a space as the formatting character between the Year Day and Month values, eg 12 31 2019

Exit and Error states are returned in the Alpha value and also in parameter 7 if it is passed.

The returned values are:

Condition	Alpha	Decimal Parameter 7
Exit Button	"O_EXIT"	-1
ESC Key	"ESC"	-2
Exit Click on X	"EXIT"	-3
Timeout	"TIMEOUT"	-4

### Example.

Record

```
DateStr      ,A10
Window_ID    ,I4
```

PROC

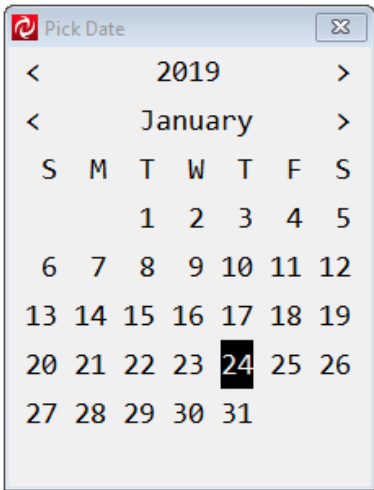
```
OPEN (15,O,'TT:')
DateStr = %Date_Picker
WRITES (15,DateStr)
```

or

PROC

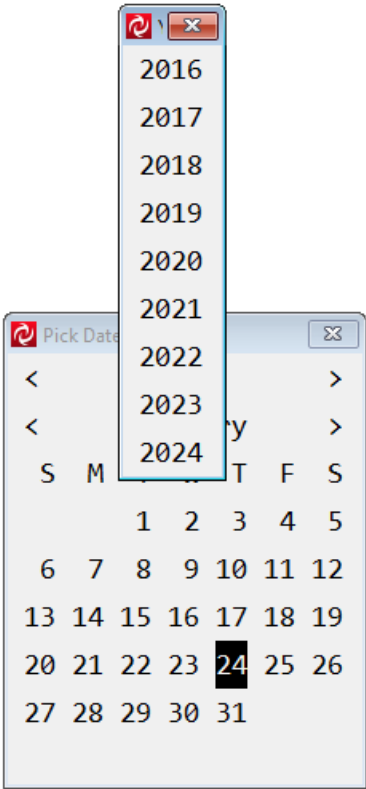
```
xcall u_start( ,,,,24,86)
xcall w_proc (wp_create>window_id,'MAIN',24,86)
xcall w_proc (wp_place>window_id,1,1)
DateStr = %Date_Picker
W_Dispatch (window_id,wd_writes,DateStr)
```

Screen examples.



Standard Screen the user lands on

After clicking on the year value  
(2019 in above example)



After clicking on the month value  
(January in the example above)

