

TT200401– FUP - Simple Line Chart

Note

This Support Knowledge Base article KB is the result of a support request.

It is not part of the official documentation of DEOS AG and does not claim to be complete.

The article is intended to support the solution of a similar problem.

If you have any questions, comments or additions, please contact DEOS AG Support.

Title

FUP-Simple Line Chart (TT200401)

Object

FUP

Reference version

2

Date

04.2020

Author

EK

Goal

To create a simple line chart in FUP

Content:

← → ↻ ⚠ Not secure | 192.168.170.101/client/index.html

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- Runtime
- SLI
- Sequencing - 2
- Sequencing - 4
- Sequencing - 4a
- Slide
- Slideshow
- Table
- Timer
- Timer
- Transfer
- Trend**
 - COSMOS IO modules
 - Chiller
 - Circuit times

C:\Users\Admin\AppData\Local\DEOS\FUP XL2\workspa

File Edit Element View Extras Help

10 8 6 4 2 0

0 10 20 30 40 50 60 70 80 90 100

Properties

General Access/option Expanded

Name:

Information text:

☐ Use the information text

Type:

Number:

X pos:

Y pos:

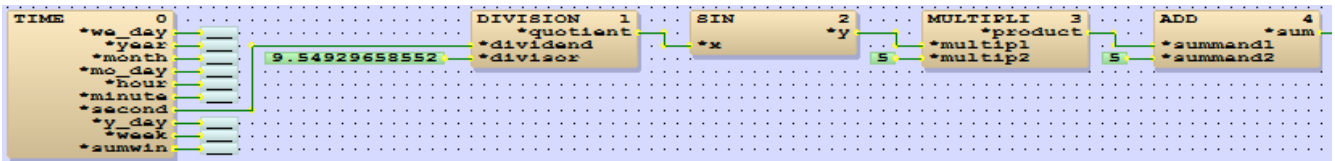
Width:

Height:

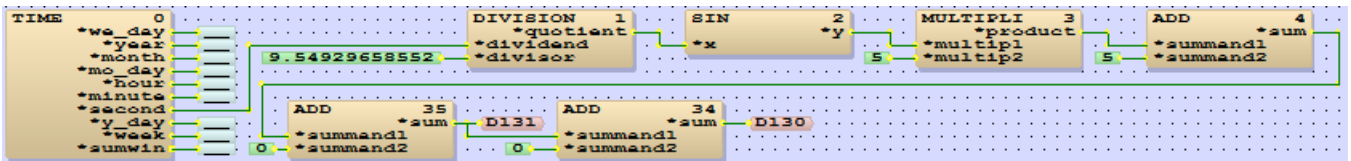
Angle:

TT200401 – FUP - Simple Line Chart

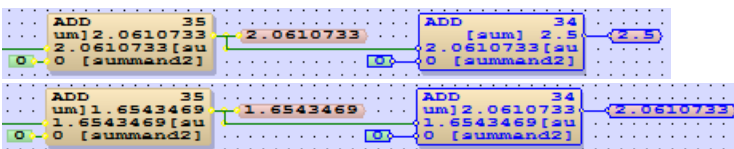
1. In this technical tip, we will show you how to create a simple line chart in FUP. Before we start, we need to create a simulation value for the input of the chart. The below modules create a sinewave value from 0 to 10.



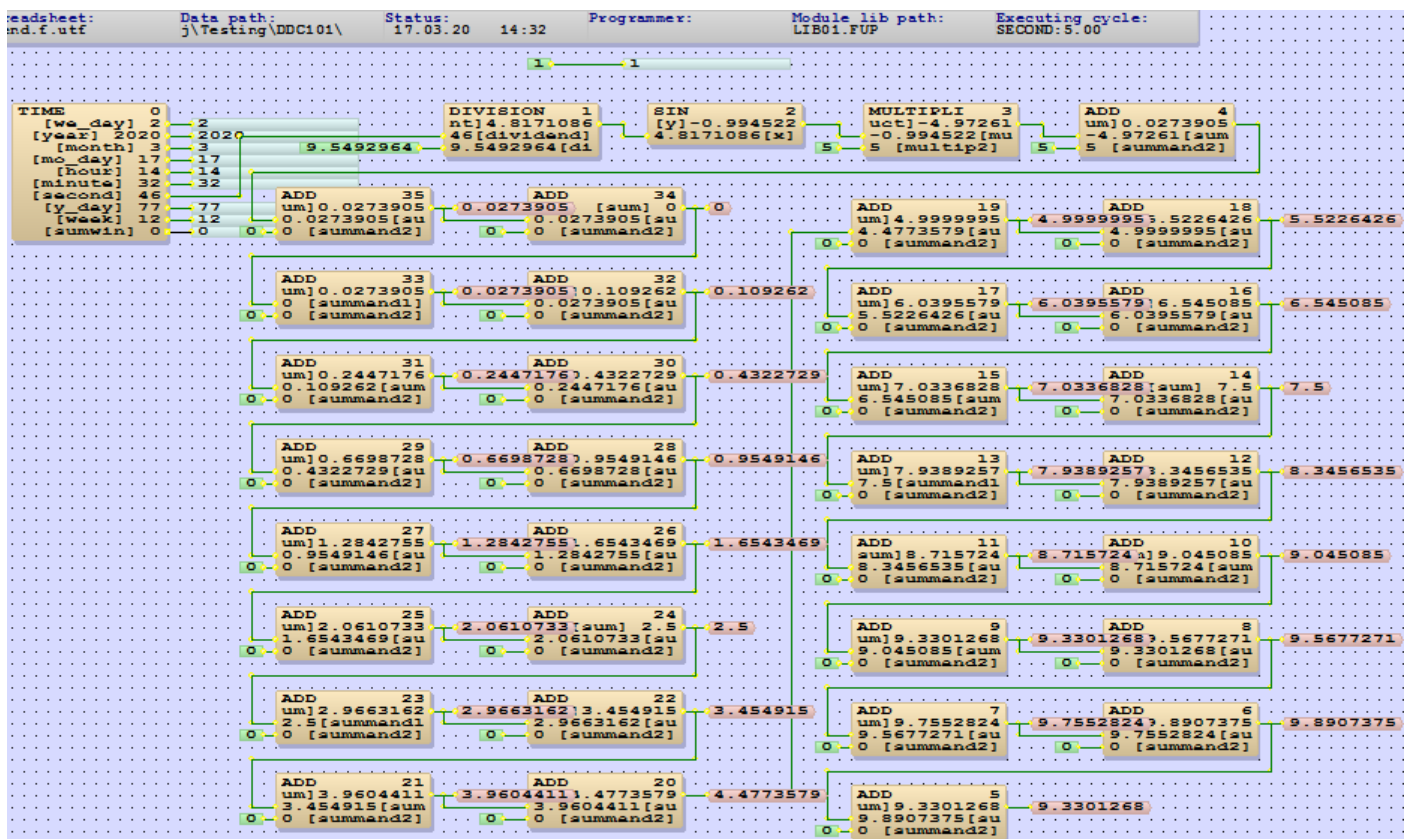
2. Next, we need to store the last values of the sinewave in the FUP page. Using the “ADD” modules with the order number ‘reversed’, we can achieve this easily



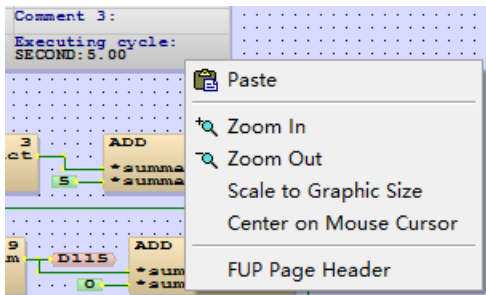
3. You can see the first “ADD” module is no. 35 and the second “ADD” module is no. 34. Try it in simulation, and you can see the last value pass from module 35 to module 34



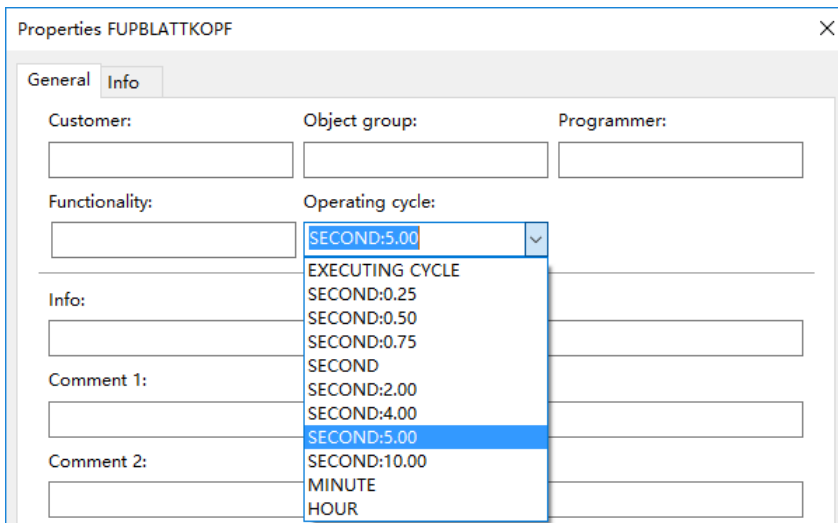
4. By adding more “ADD” modules with the order number “reversed”, we store the last 30 values in the FUP page. Note that we’ve set the “Executing cycle” of this FUP page to 5 seconds, so the values are stored in 5 seconds interval. For more information regarding module order number, please refer to TT200303



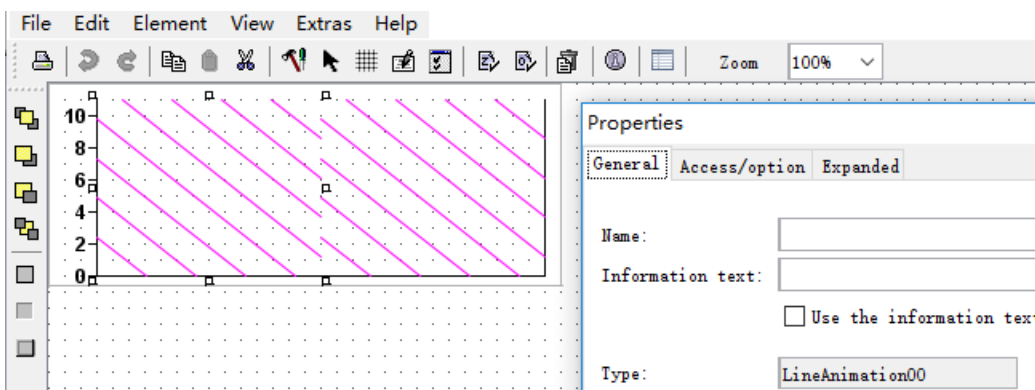
5. To change the “Executing cycle” time, right click on the header and then click on “FUP page Header”



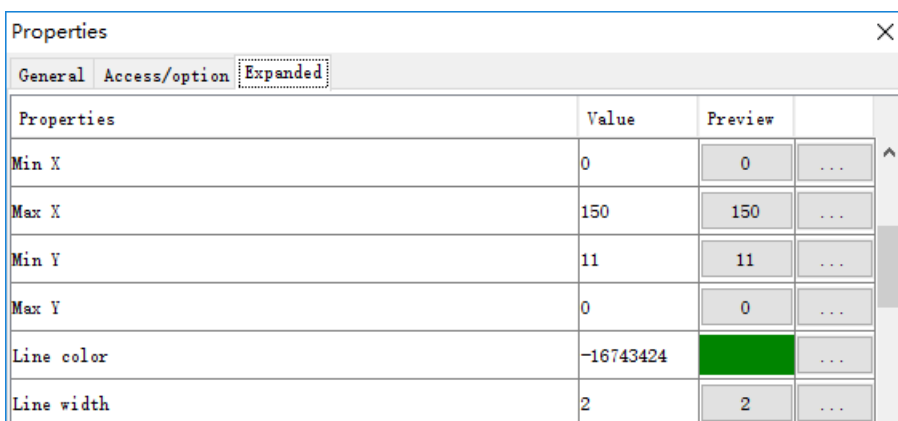
6. The default cycle time is 1 second, and you can change it from 0.25 second to 1 hour. In this example, we change it to 5 seconds



7. To show the stored values in a line chart, we use 2 “LineAnimation00” graphic elements



8. In the “Expanded” tab, we set the “Min X”, “Max X” to 0 and 150, “Min Y”, “Max Y” to 0 and 11, and set the “Line Width” to 2



9. Go down to “X pos0”, we can display 16 values in 1 graphic element, so we set “X pos0” to 0 , “Y pos0” to “D101”, and so on, like below

Properties	Value	Preview	
X pos0	0	0	...
Y pos0	FUP:D101	FUP:D101	...
X pos1	10	10	...
Y pos1	FUP:D102	FUP:D102	...
X pos2	20	20	...
Y pos2	FUP:D103	FUP:D103	...
X pos3	30	30	...
X pos15	150	150	...
Y pos15	FUP:D116	FUP:D116	...

10. In the 2nd “LineAnimation00” graphic element, we set it like below. Please note that the “Y pos0” is set to the same point as “Y pos15” in the 1st element

Properties	Value	Preview	
X pos0	0	0	...
Y pos0	FUP:D116	FUP:D116	...
X pos1	10	10	...
Y pos1	FUP:D117	FUP:D117	...
X pos2	20	20	...
Y pos2	FUP:D118	FUP:D118	...
X pos15	150	150	...
Y pos15	FUP:D131	FUP:D131	...

11. Final result. It's a simple live trend display that update every 5 seconds

