TT200401– FUP - Simple Line Chart

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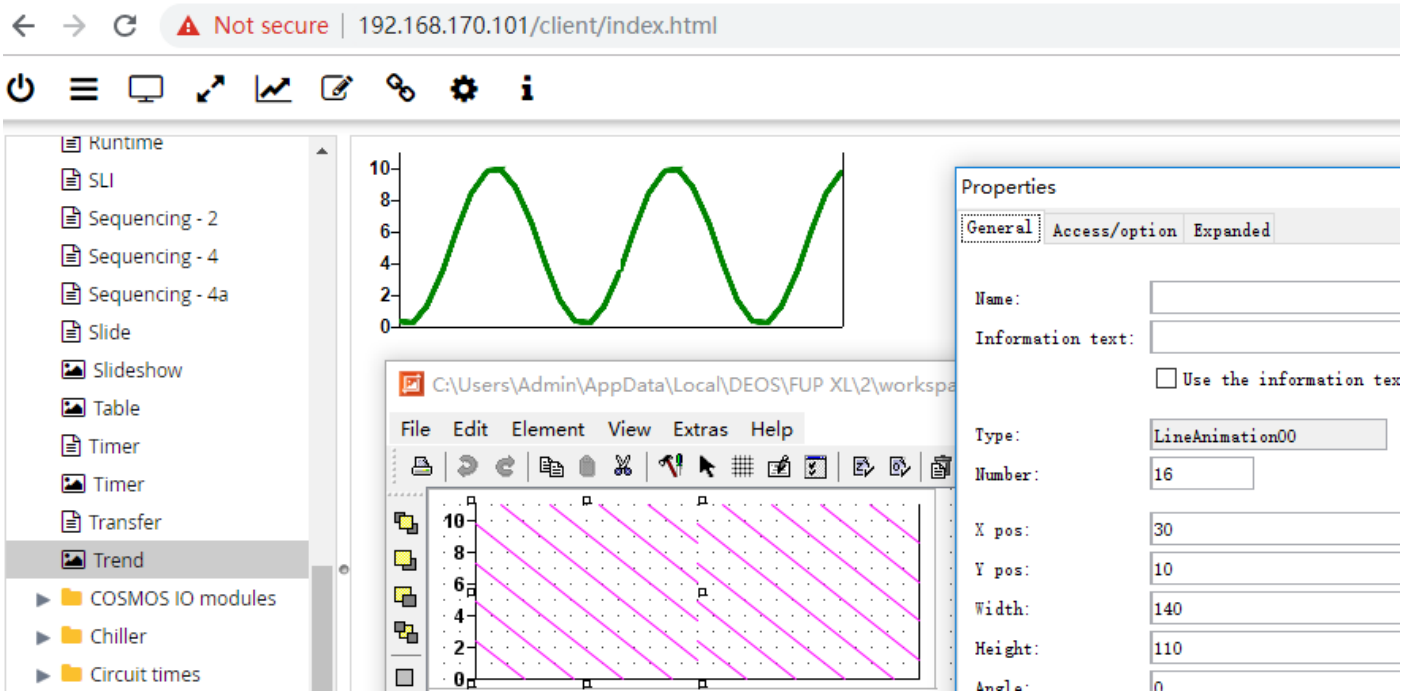
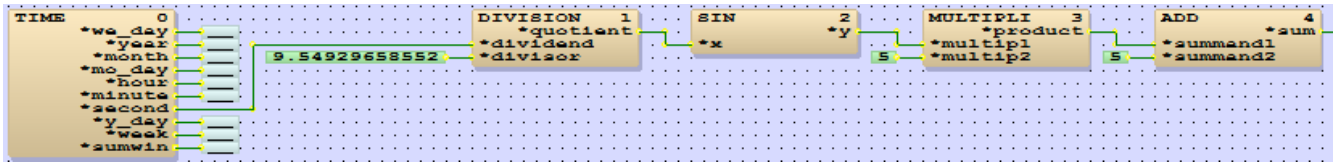
Title	FUP-Simple Line Chart (TT200401)
Object	FUP
Reference version	2
Date	04.2020
Author	EK
Goal	To create a simple line chart in FUP

Content:

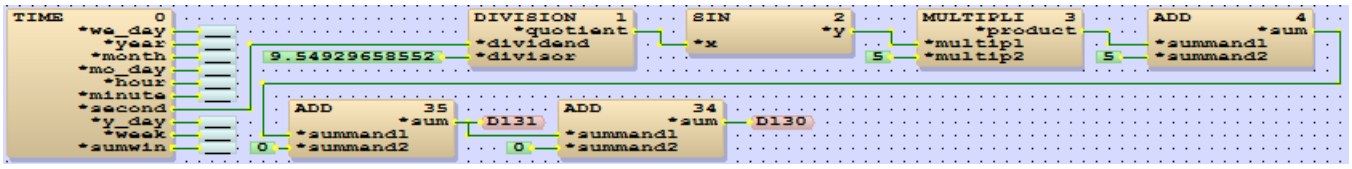


TT200401 – FUP - Simple Line Chart

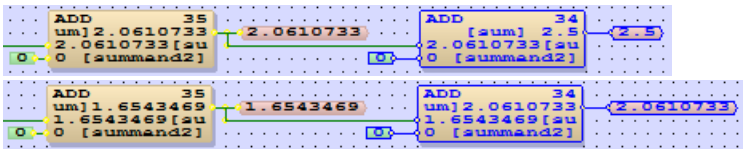
1. In this technical tip, we will show you how to create a simple line chart in FUP. Before we start, we need to create a simulation value for the input of the chart. The below modules create a sinewave value from 0 to 10.



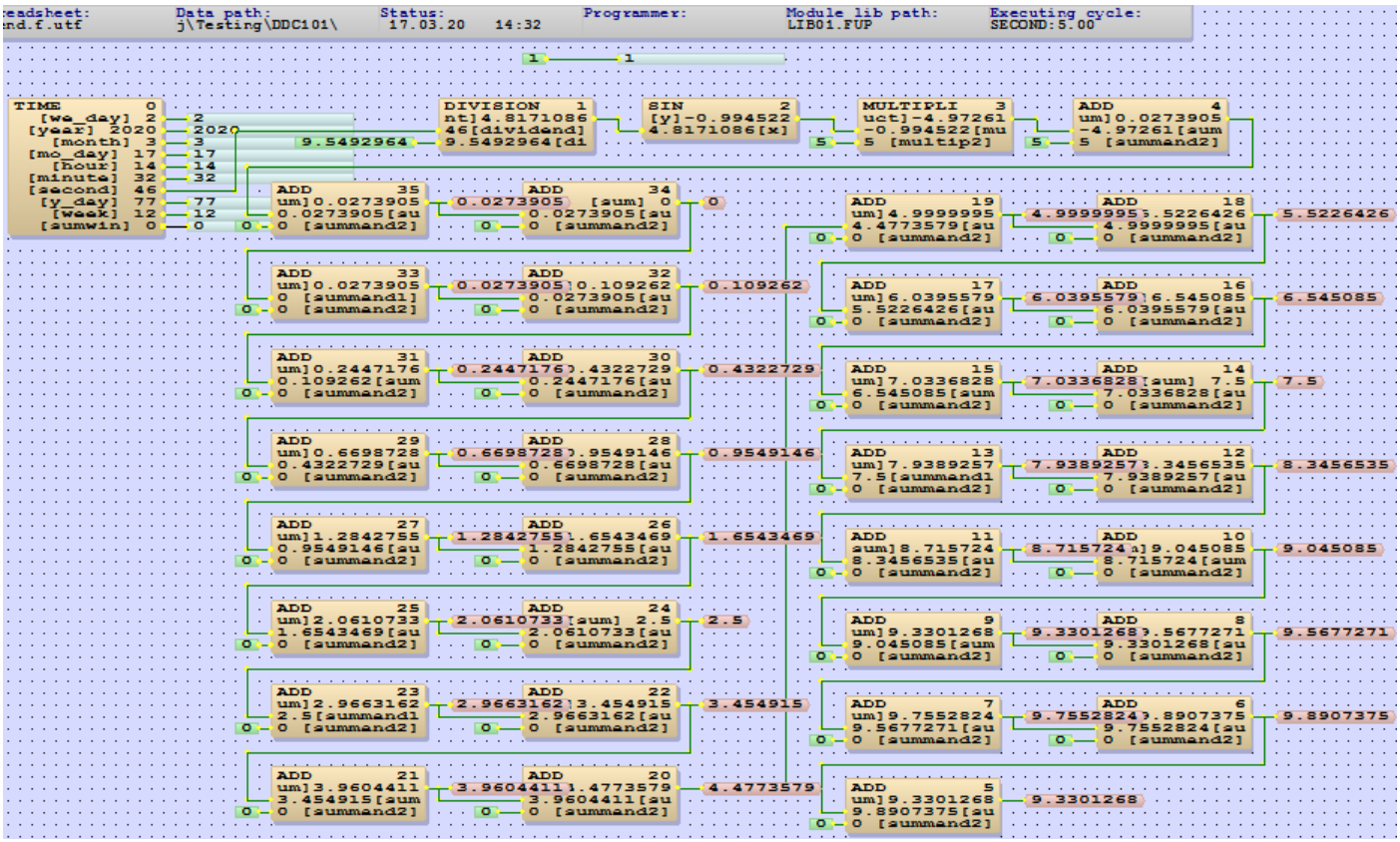
2. Next, we need to store the last values of the sinewave in the FUP page. Using the “ADD” modules with the order number ‘reversed”, we can achieve this easily



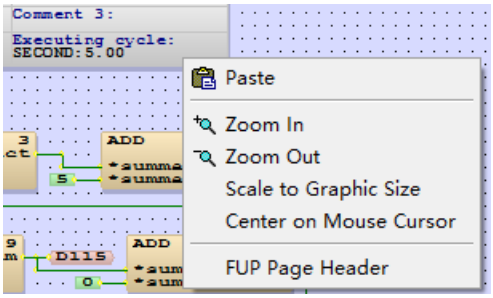
3. You can see the first “ADD” module is no. 35 and the second “ADD” module is no. 34. Try it in simulation, and you can see the last value pass from module 35 to module 34



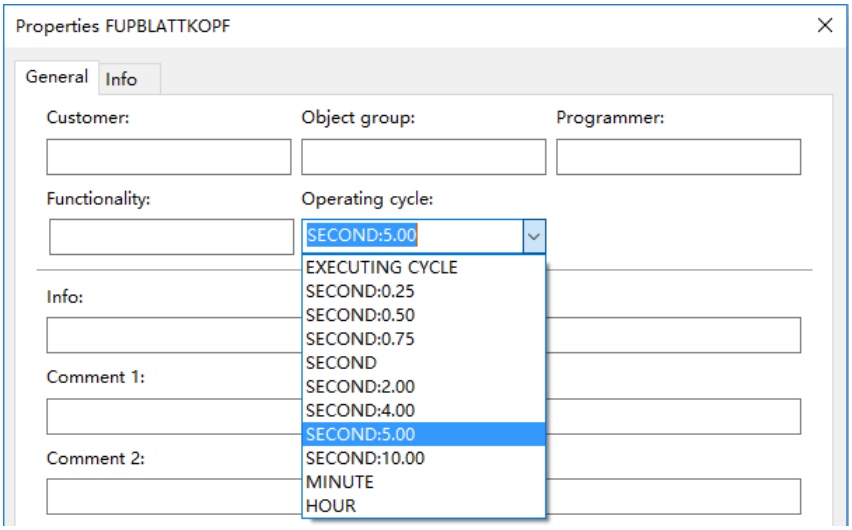
4. By adding more “ADD” modules with the order number “reversed”, we store the last 30 values in the FUP page. Note that we’ve set the “Executing cycle” of this FUP page to 5 seconds, so the values are stored in 5 seconds interval. For more information regarding module order number, please refer to TT200303



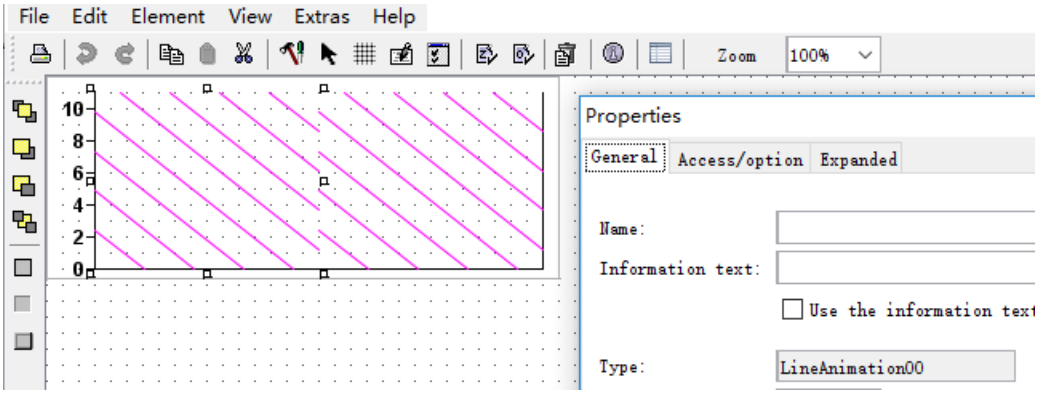
5. To change the “Executing cycle” time, right click on the header and then click on “FUP page Header”



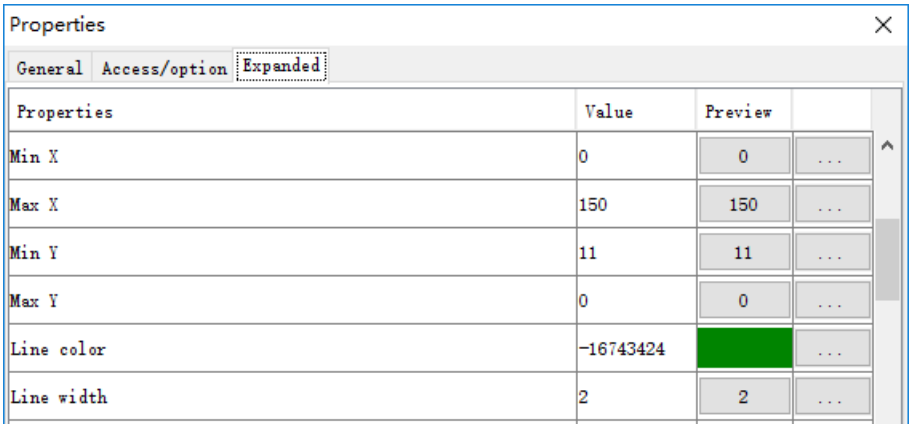
6. The default cycle time is 1 second, and you can change it from 0.25 second to 1 hour. In this example, we change it to 5 seconds



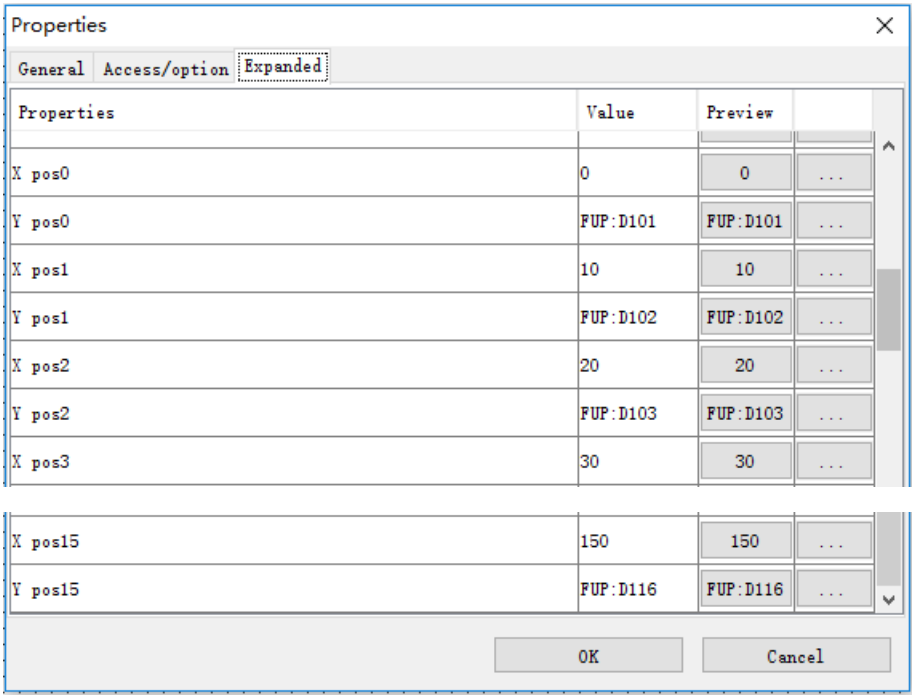
7. To show the stored values in a line chart, we use 2 “LineAnimation00” graphic elements



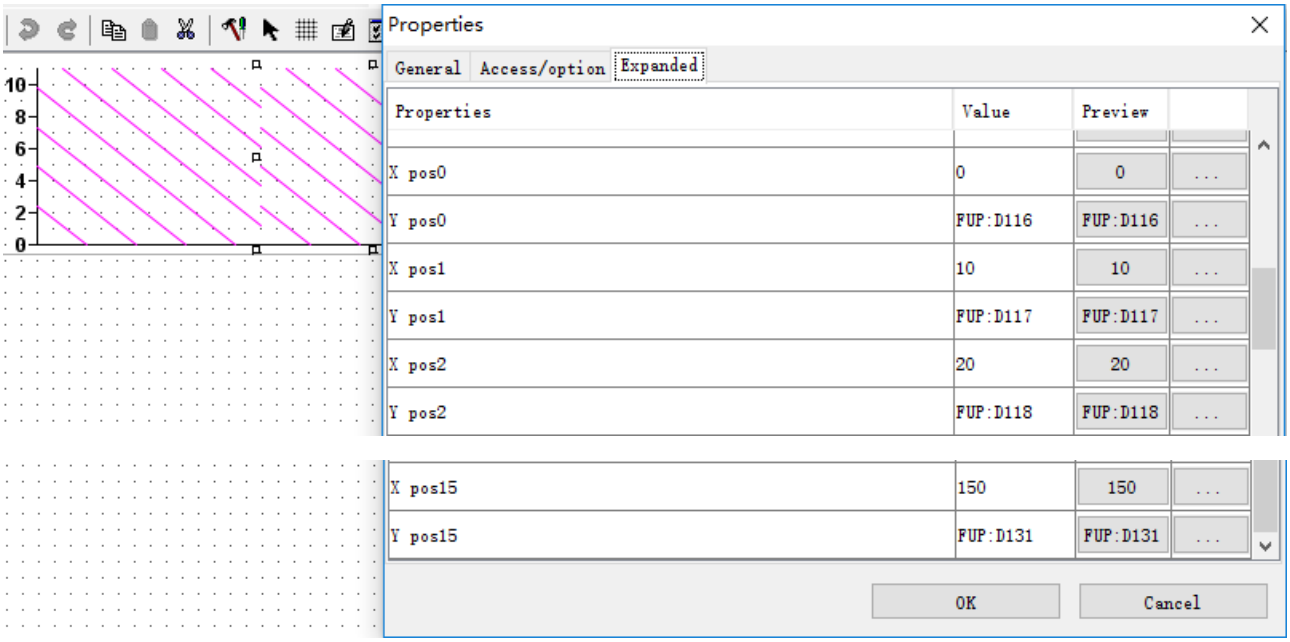
8. In the “Expanded” tab, we set the “Min X”, “Max X” to 0 and 150, “Min Y”, “Max Y” to 0 and 11, and set the “Line Width” to 2



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



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



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