INSA INSTITUT NATIONAL DES SCIENCES APPLIQUÉES TOULOUSE

LabView Program Control/Command

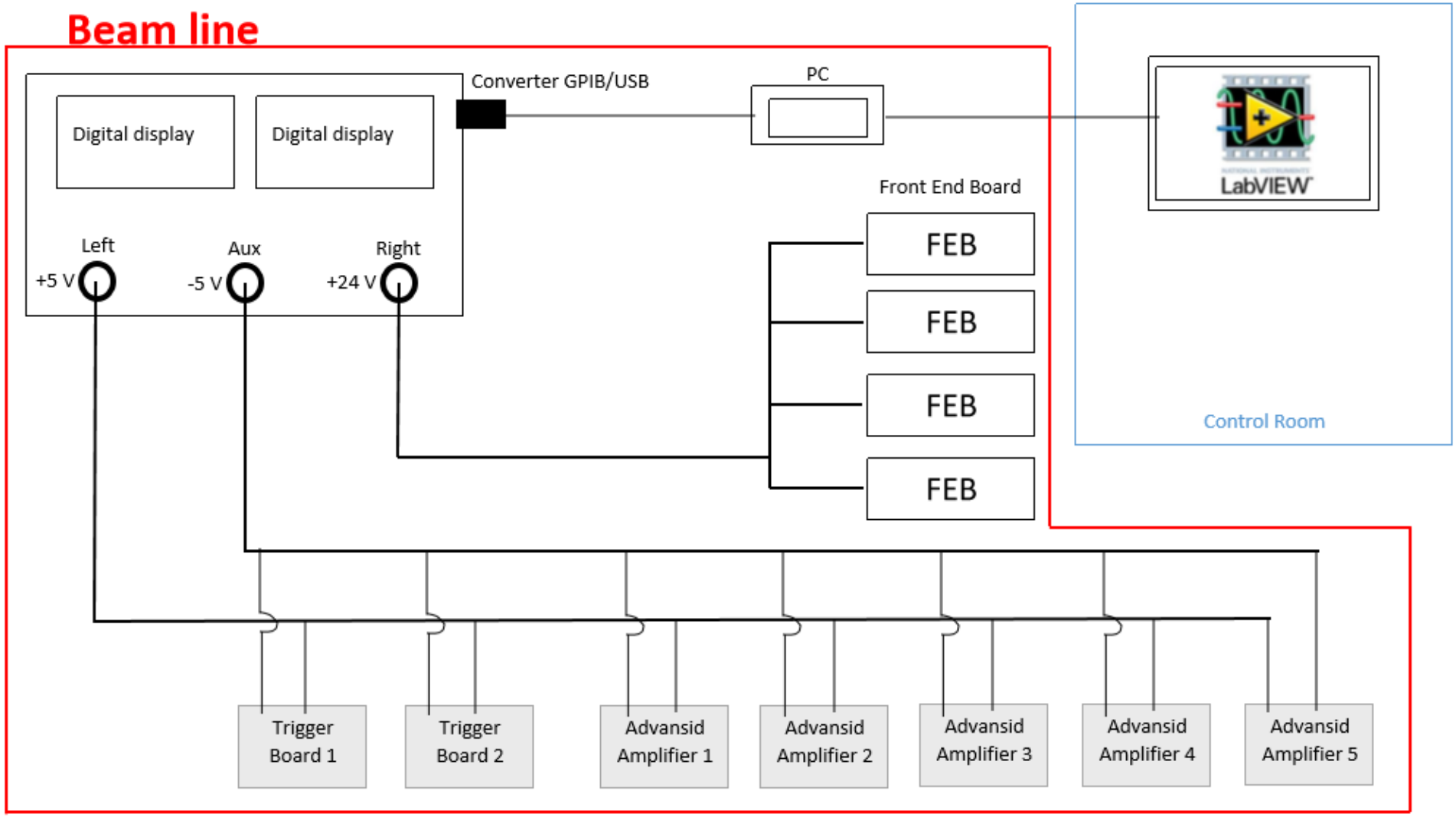
E. Noah, S. Gleize

20/07/2016

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Diagram of power supply



Main interest to this LabView Program

- **Control at distance the power supply (3 supplies)**

Exactly, for 3 channels of supply :

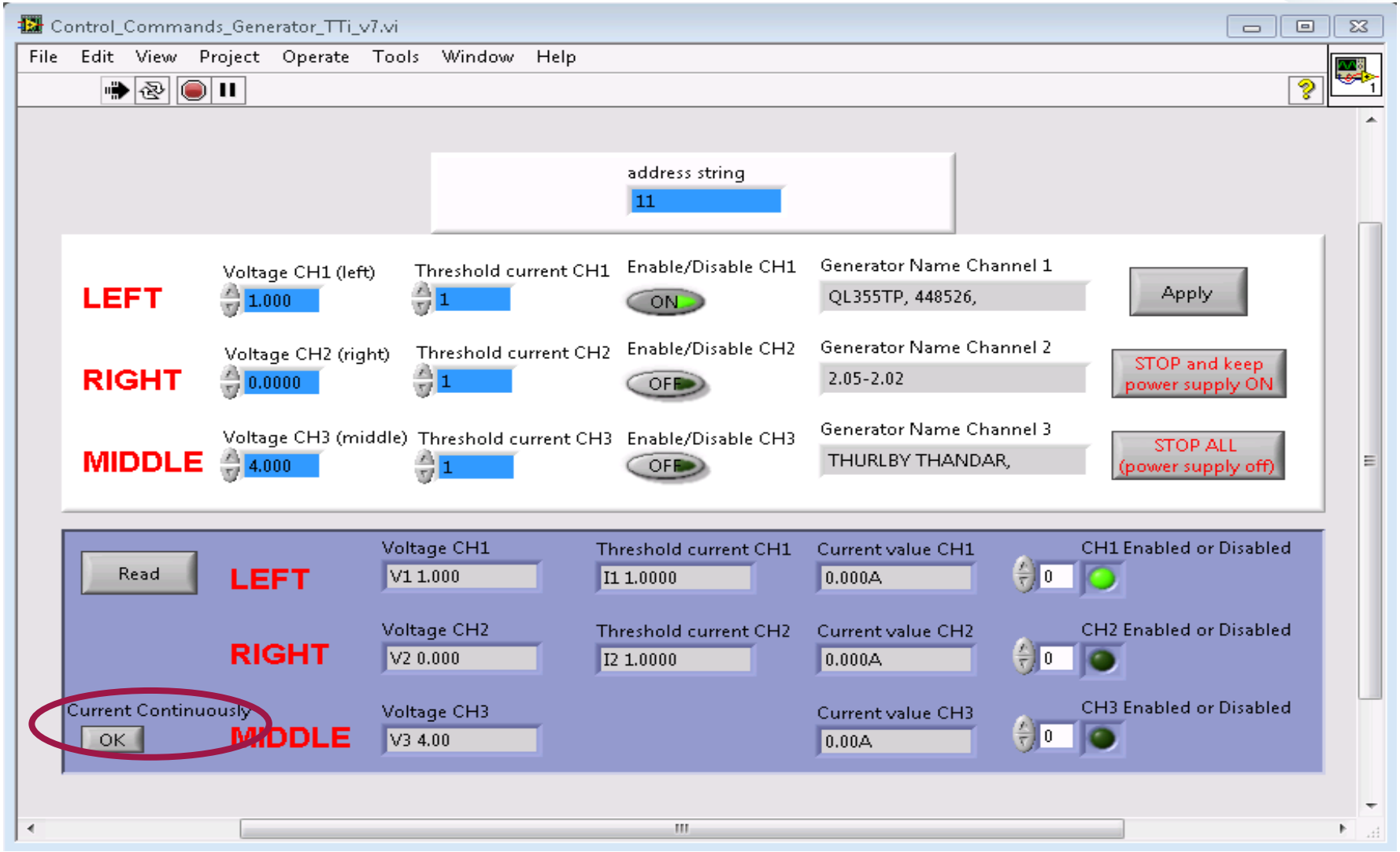
- Set the voltage and the current limit ;

- Enabled or Disabled the output ;

- Get the settings of the power supply : voltage, current (and continuously), the status of outputs ;

- Put the power supply off : voltage at 0 V and disabled all channels

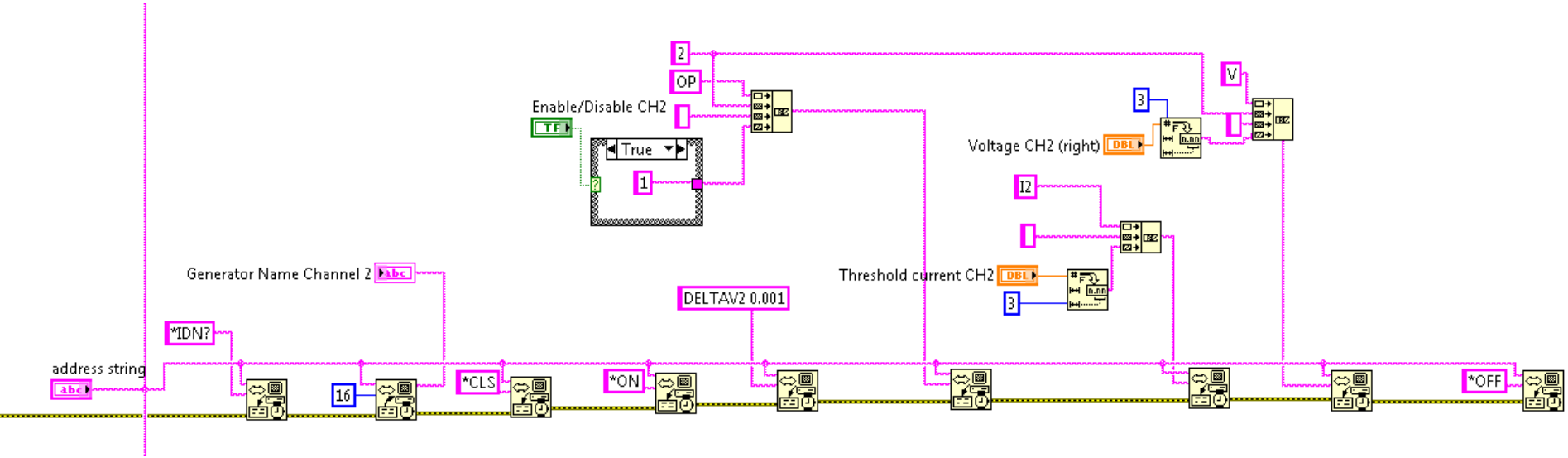
Front panel



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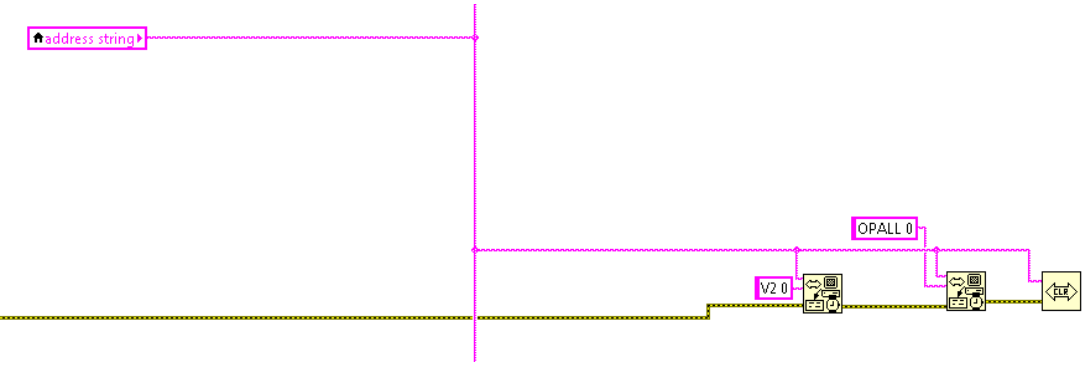
Writing

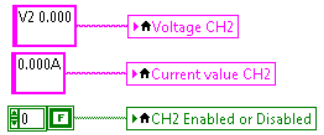
- **Button Apply**



Stop and reset

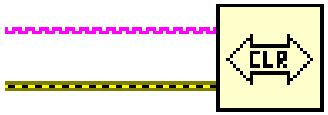
- **Button STOP and Power supply stays ON**





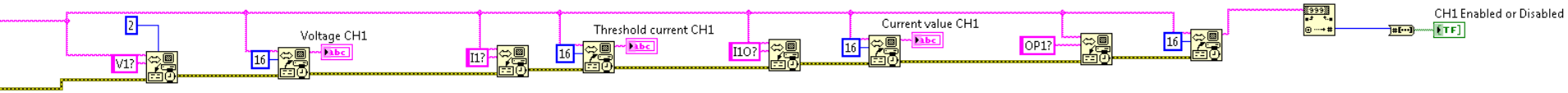
Stop

- **Button STOP and Power Supply OFF**

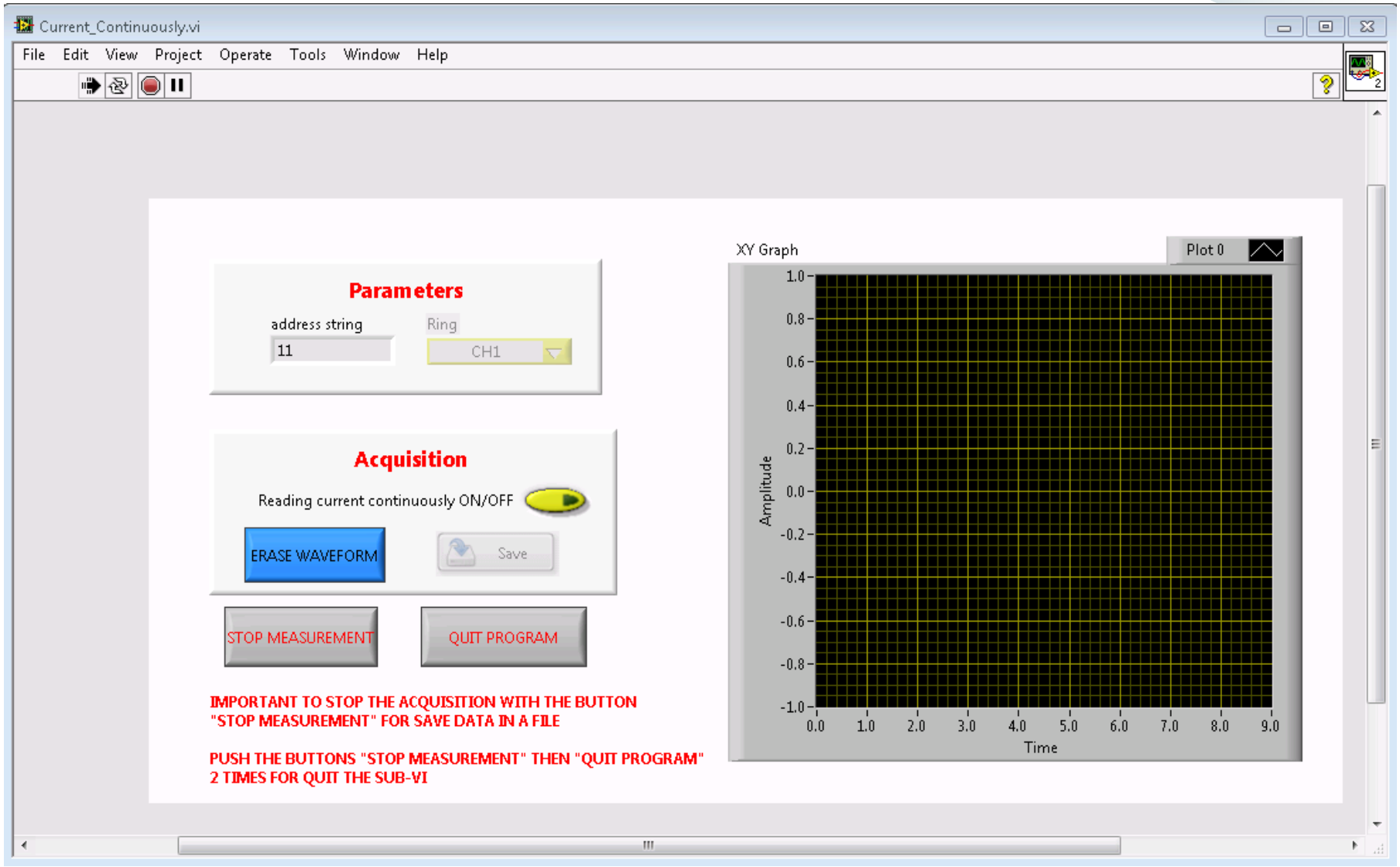


Reading

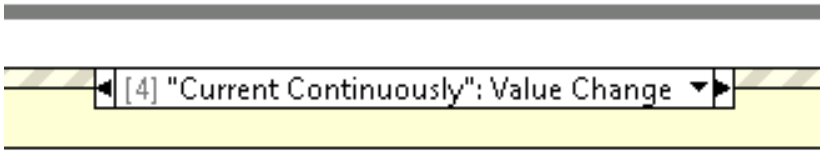
- **Button Read**



Button Current Continuously



The event structure corresponding at the Sub-VI





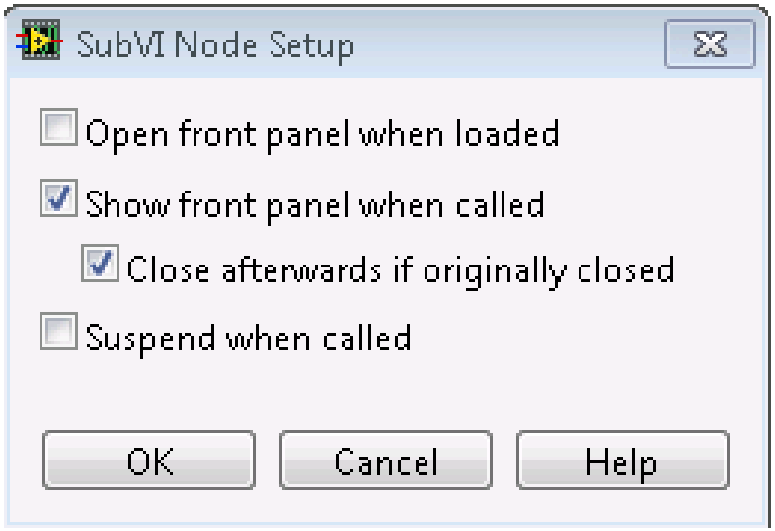


Diagram of Sub-VI Current Continuously

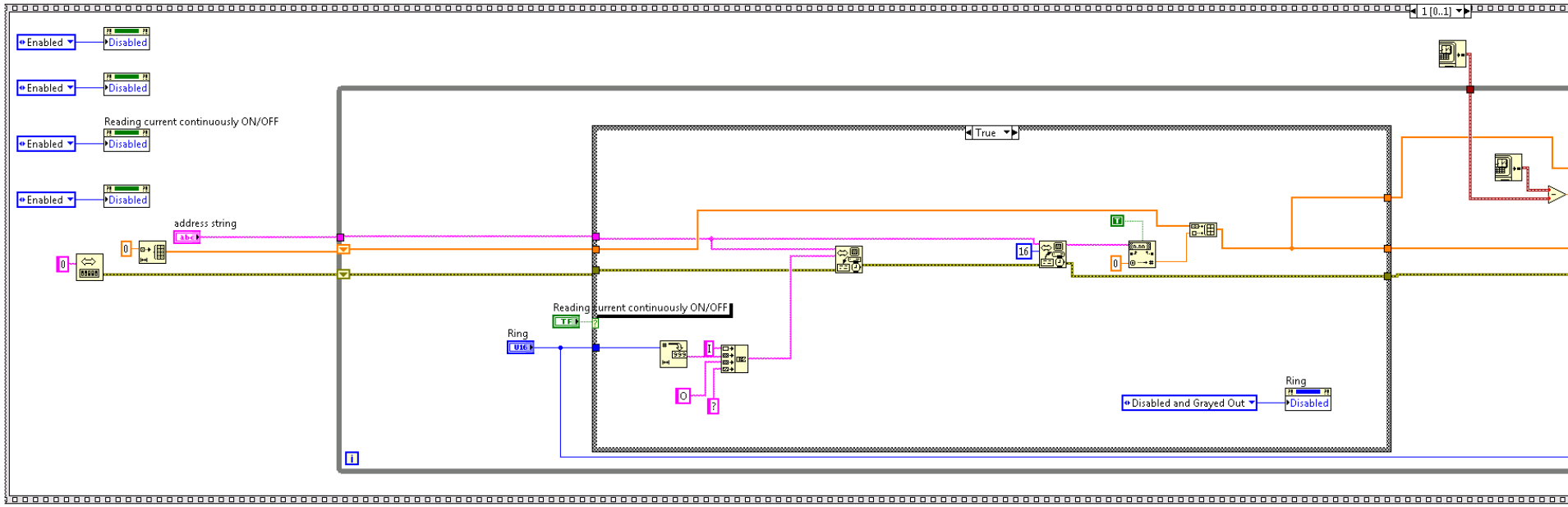
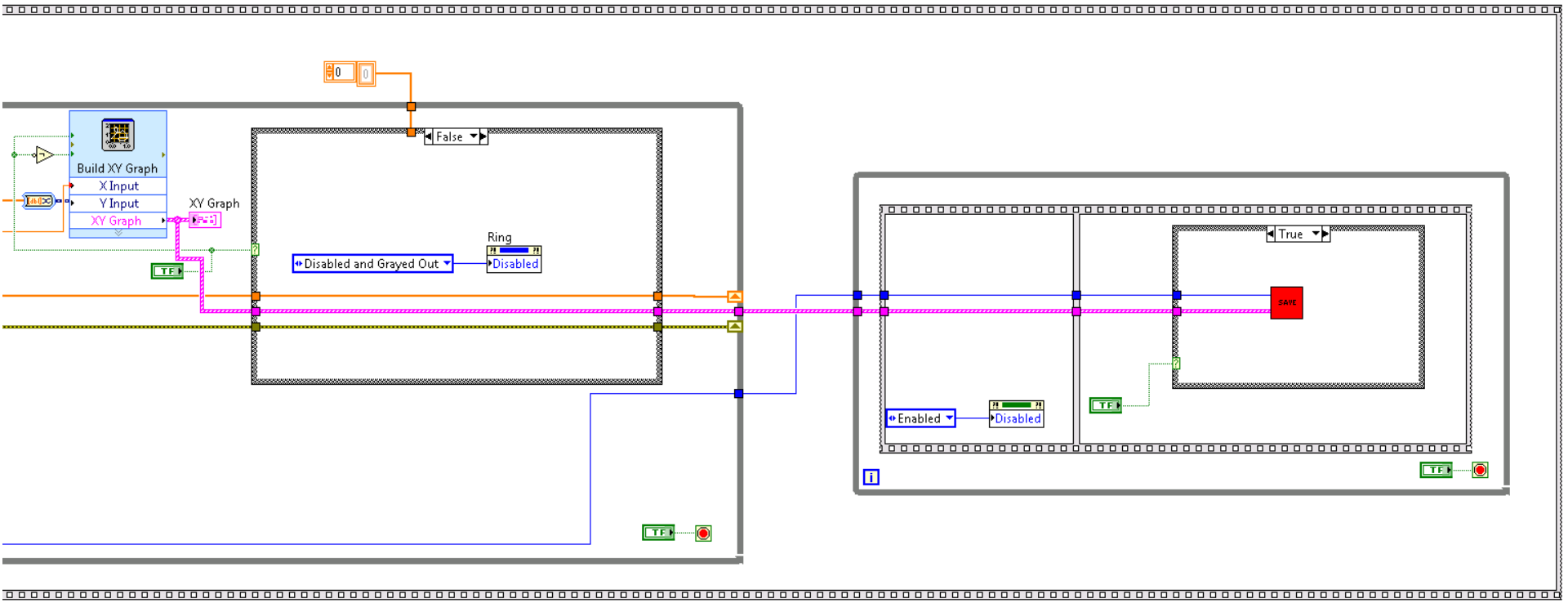


Diagram of Sub-VI Current Continuously



Save Panel

- **No visible by the user**

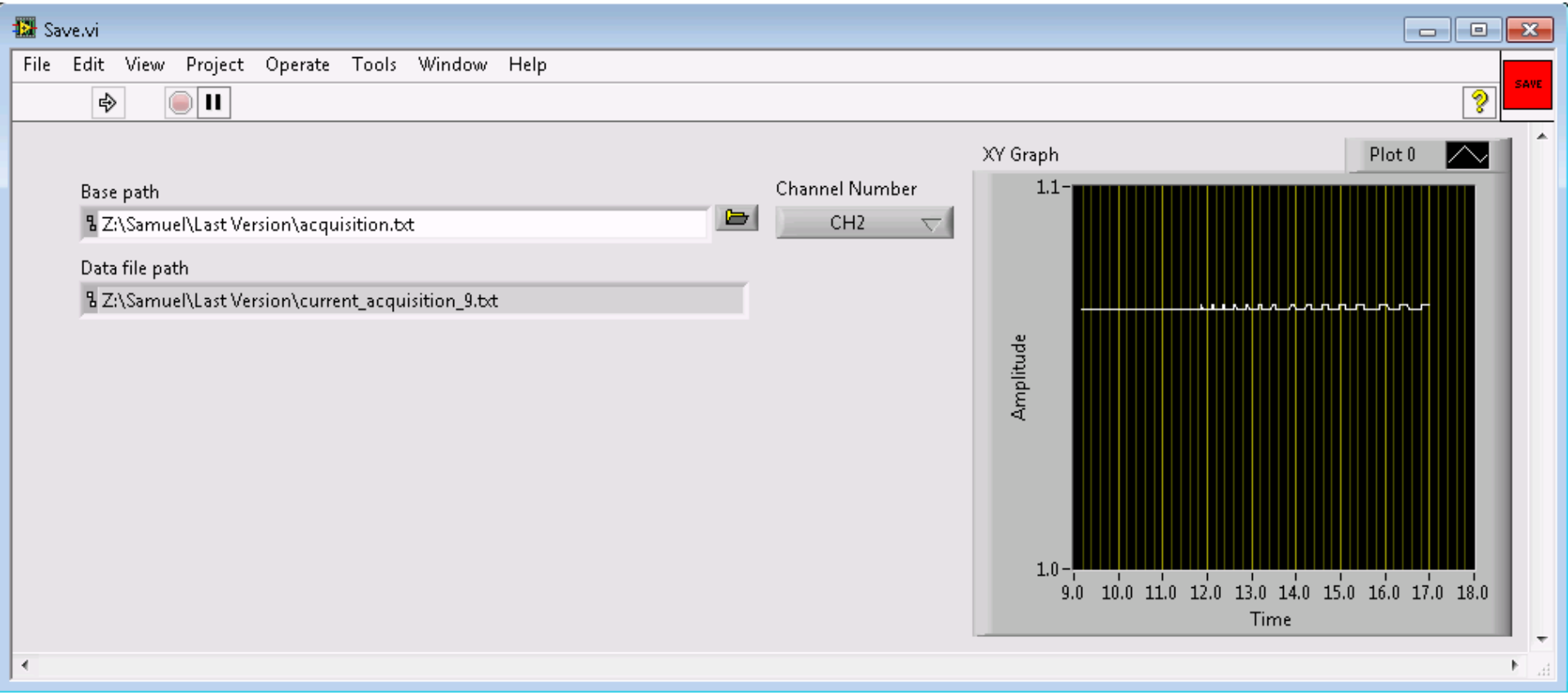
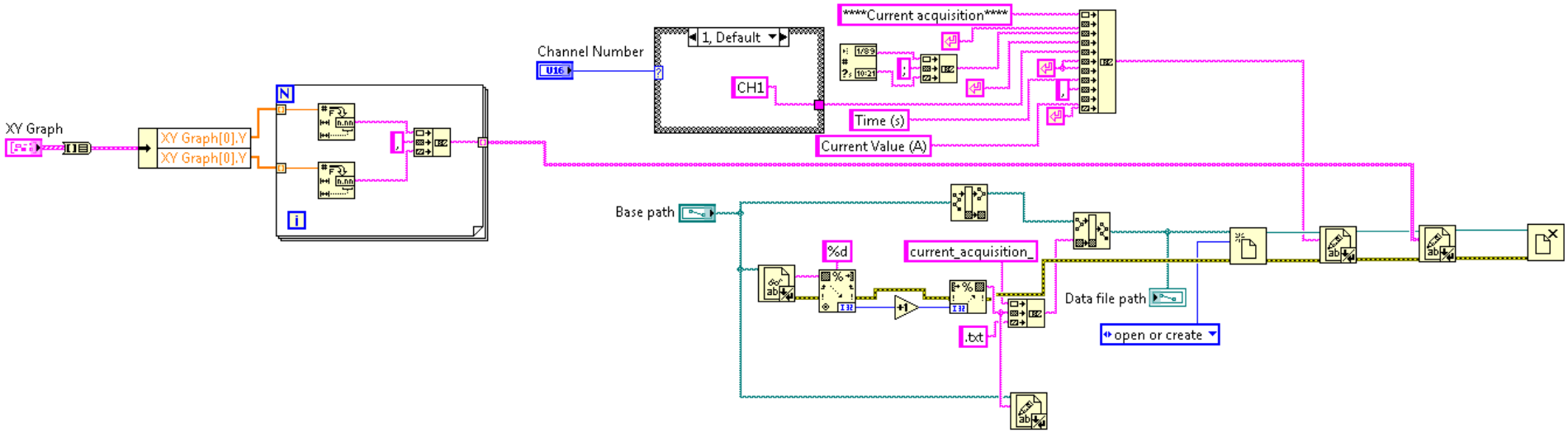


Diagram Sub-VI Save



Result : Text file

current_acquisition_7.txt - Note...

File Edit Format View Help

```
****Current acquisition****
03.08.2016;01:57
CH2

Time (s),Current Value (A)
9.168524,1.068000
9.186525,1.068000
9.197526,1.068000
9.210527,1.068000
9.219527,1.068000
9.229528,1.068000
9.239529,1.068000
9.249529,1.068000
9.259530,1.068000
9.270530,1.068000
9.280531,1.068000
9.290532,1.068000
9.300532,1.068000
9.311532,1.068000
9.322533,1.068000
9.333534,1.068000
9.344534,1.068000
```