



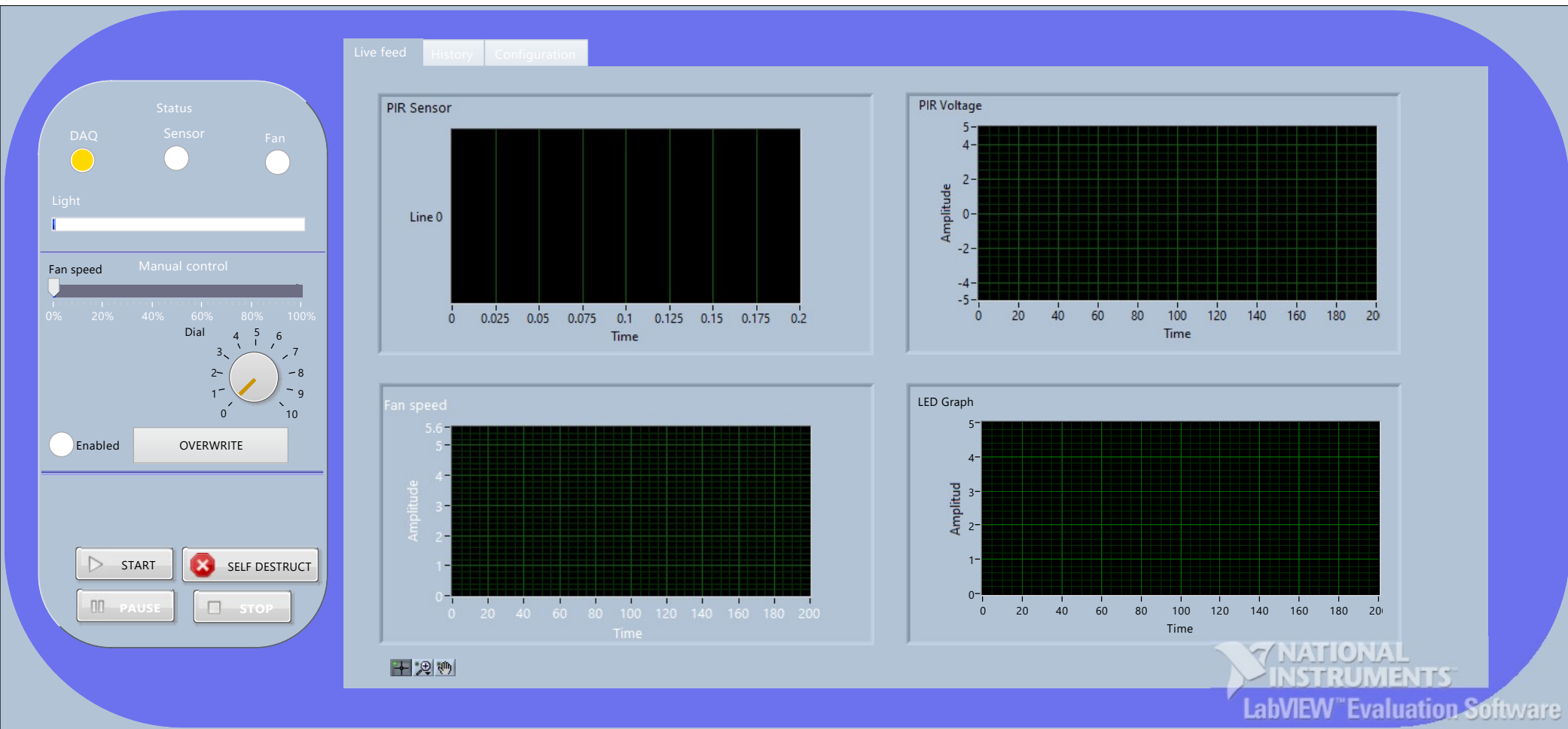
## Connector Pane

### UI Main.vi





## Front Panel





## Controls and Indicators

**Tab Control****stop****pause****start****Fan speed****resume****save to file****load file****reset value****PIR channels**

<B>physical channels</B> specifies the names of the physical channels to use to create virtual channels. The DAQmx physical channel constant lists all physical channels on devices and modules installed in the system.

**device in**

<B>device in</B> is the name as configured in MAX of the device to which this operation applies. A DAQmx device name constant lists all devices installed in the system.

**PIR graph datapoints****PIR Voltage threshold****Sampling rate**

<B>rate</B> specifies the sampling rate in samples per channel per second. If you use an external source for the Sample Clock, set this input to the maximum expected rate of that clock.

**Last on****LED Waveform****t0****dt**

**Y****dt****error**

The error cluster contains error or warning information.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**status**

The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**code**

The code number identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**source**

The source string describes the origin of the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**attributes****Fan waveform****t0****dt****Y****dt****error**

The error cluster contains error or warning information.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**status**

The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**code**

The code number identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**source**

The source string describes the origin of the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**attributes****ON for****Delay****Off delay****Simulating****report****Dial****restart VIs****Decay speed****self destruct****DAQ****Sensor****Fan****Light****Fan speed****LED Graph**



UI Main.vi

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**PIR Sensor****History PIR****History light****Running****Event running****PIR Voltage****PIR waveform****t0****dt****Y****dt****error**

The error cluster contains error or warning information.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**status**

The status boolean is either TRUE (X) for an error, or FALSE (checkmark) for no error or a warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**code**

The code number identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**source**

The source string describes the origin of the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.

**attributes**

**error out**

**error out** passes error or warning information out of a VI to be used by other VIs.

Right-click the **error out** indicator on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

**status**

**status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the **error out** indicator on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

**code**

**code** is the error or warning code.

Right-click the **error out** indicator on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

**source**

**source** string describes the origin of the error or warning.

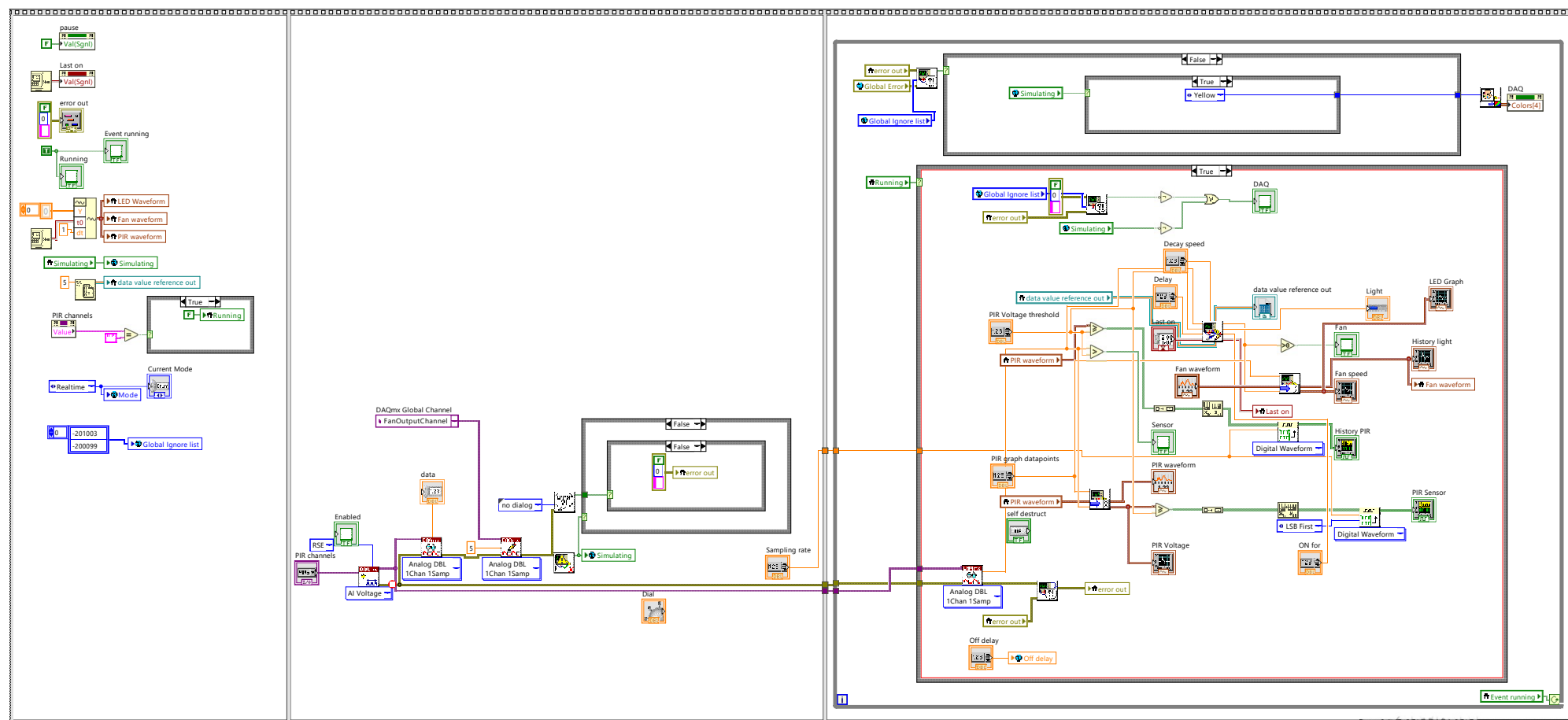
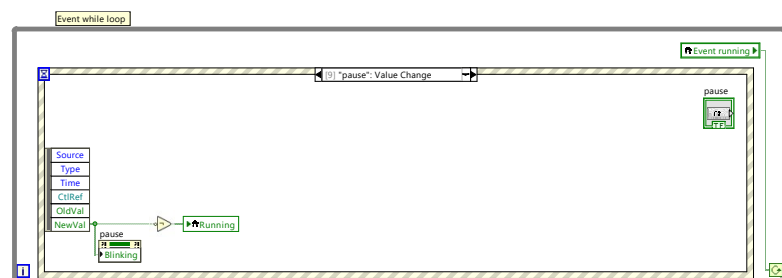
Right-click the **error out** indicator on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

**data value reference out****Current Mode****Enabled****data**

**data** returns a sample.

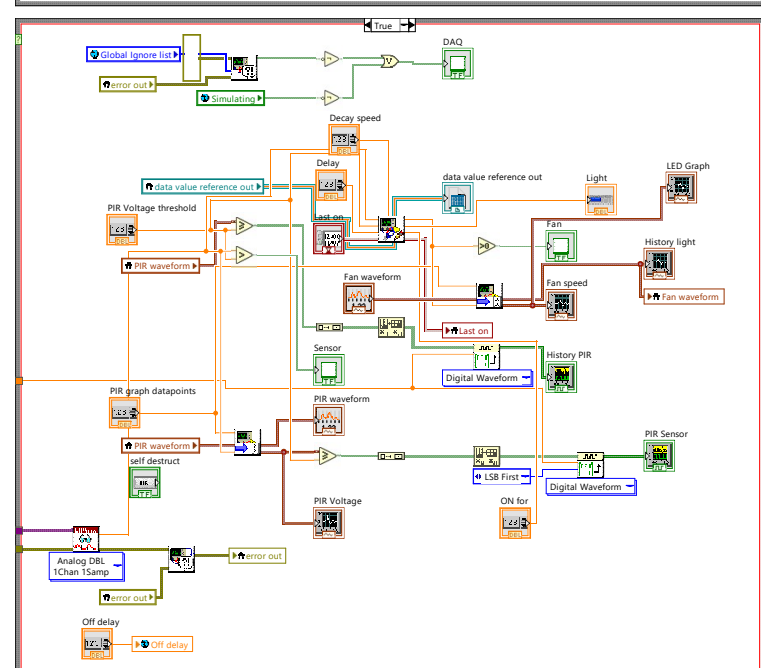
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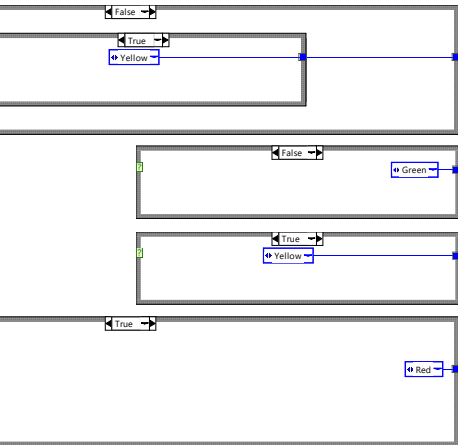
### Block Diagram





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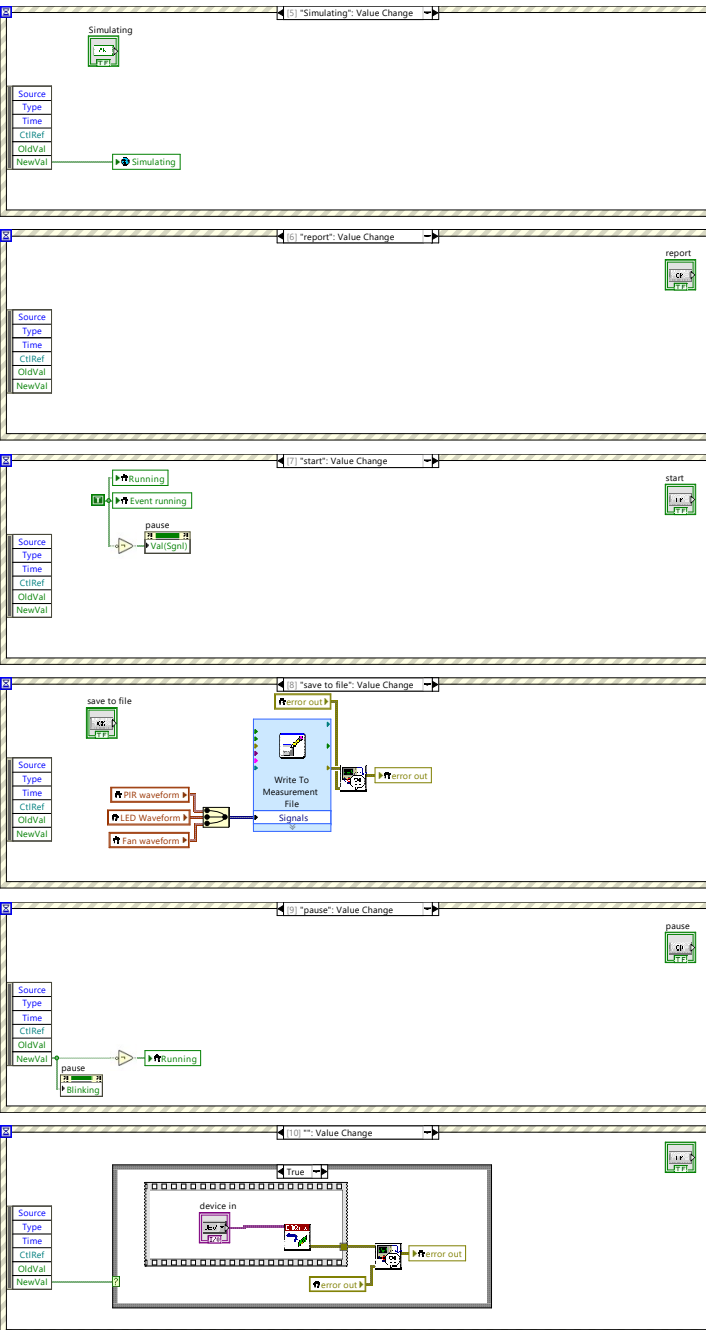


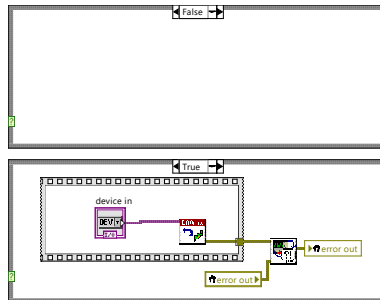
UI Main.vi

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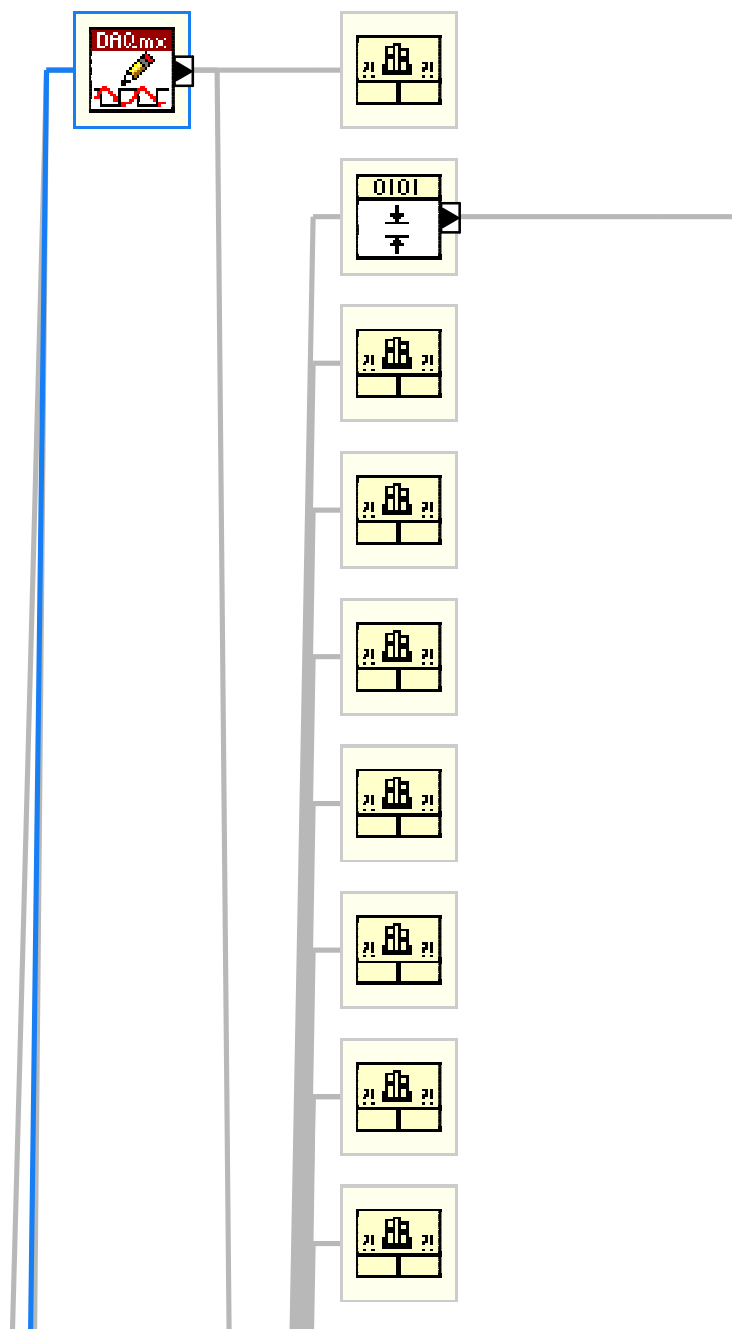
Printed on 10/25/2022 at 12:27 AM

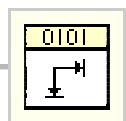


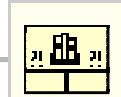
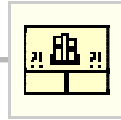
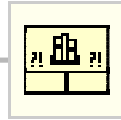
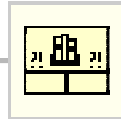
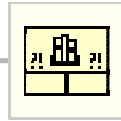
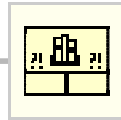
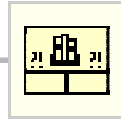
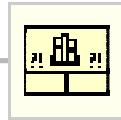
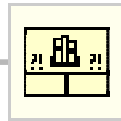
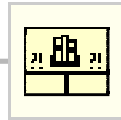




## Position in Hierarchy





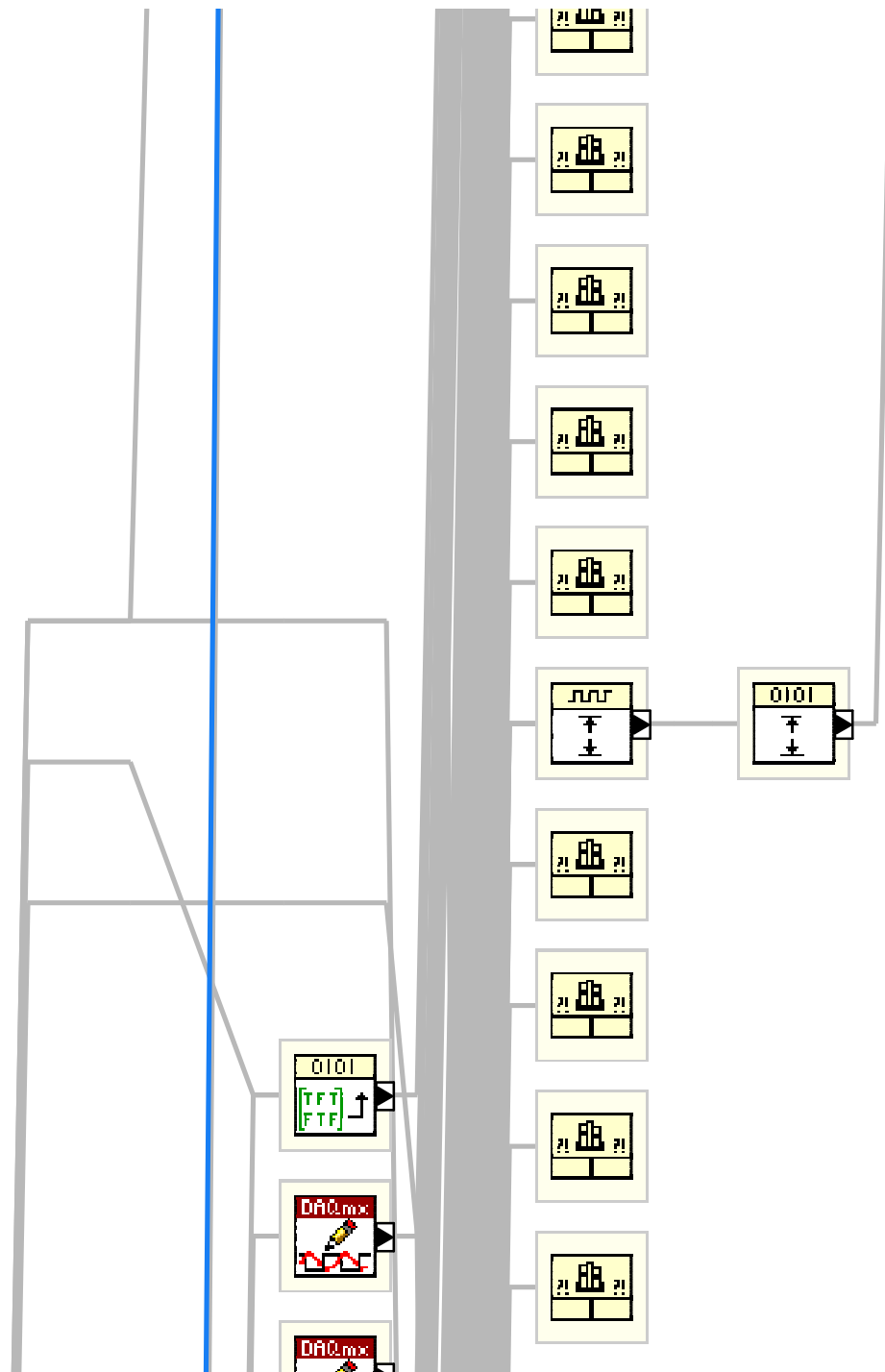


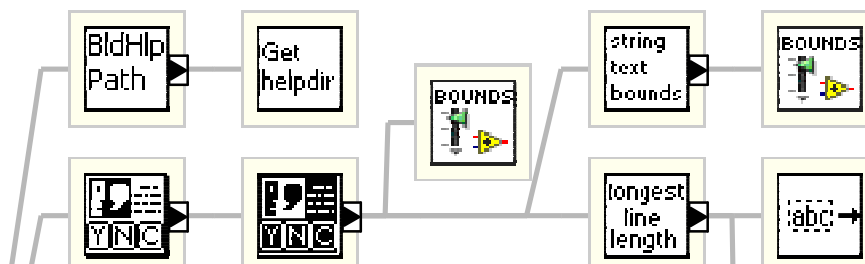




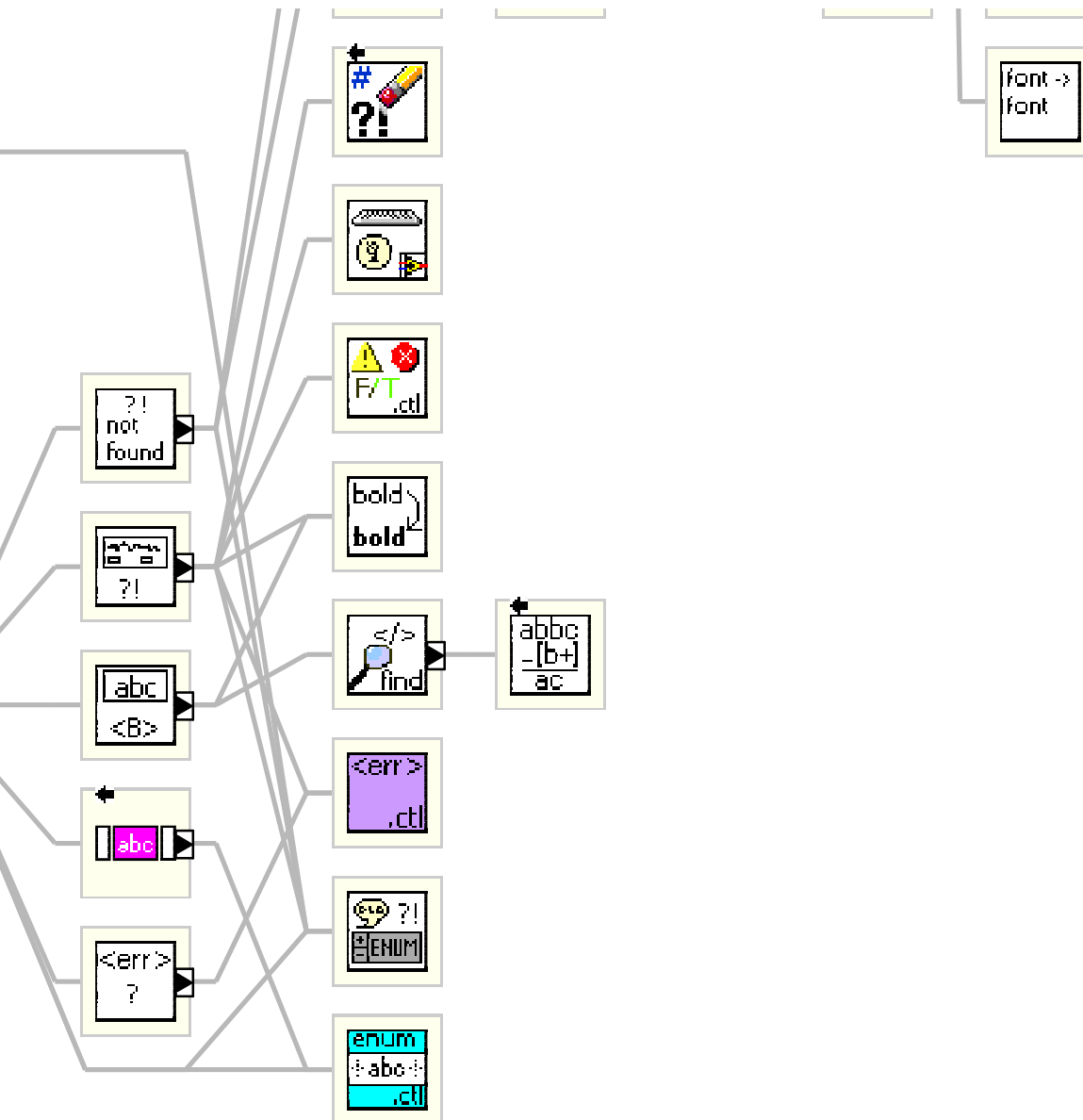










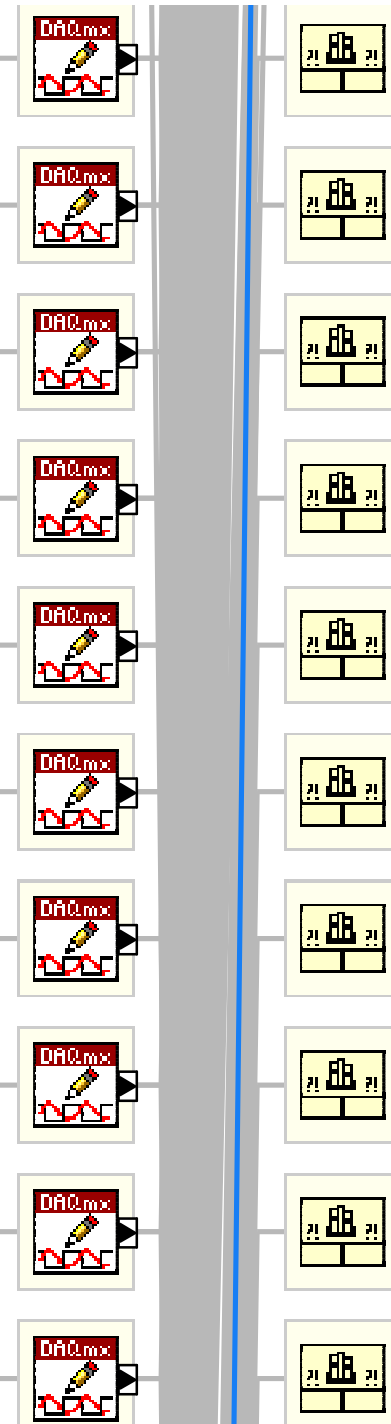




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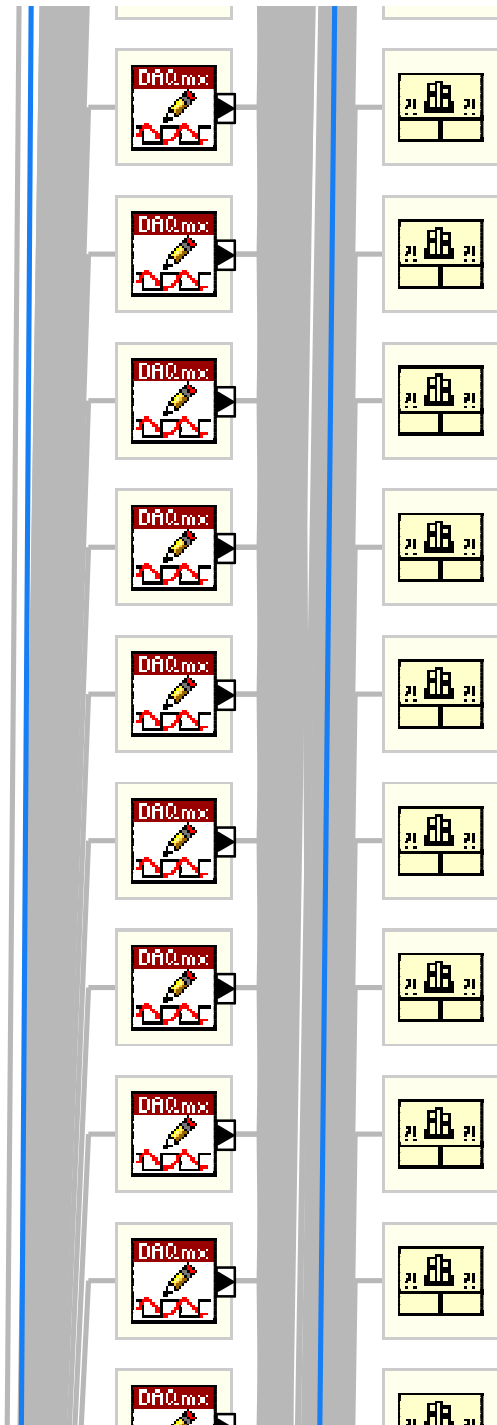
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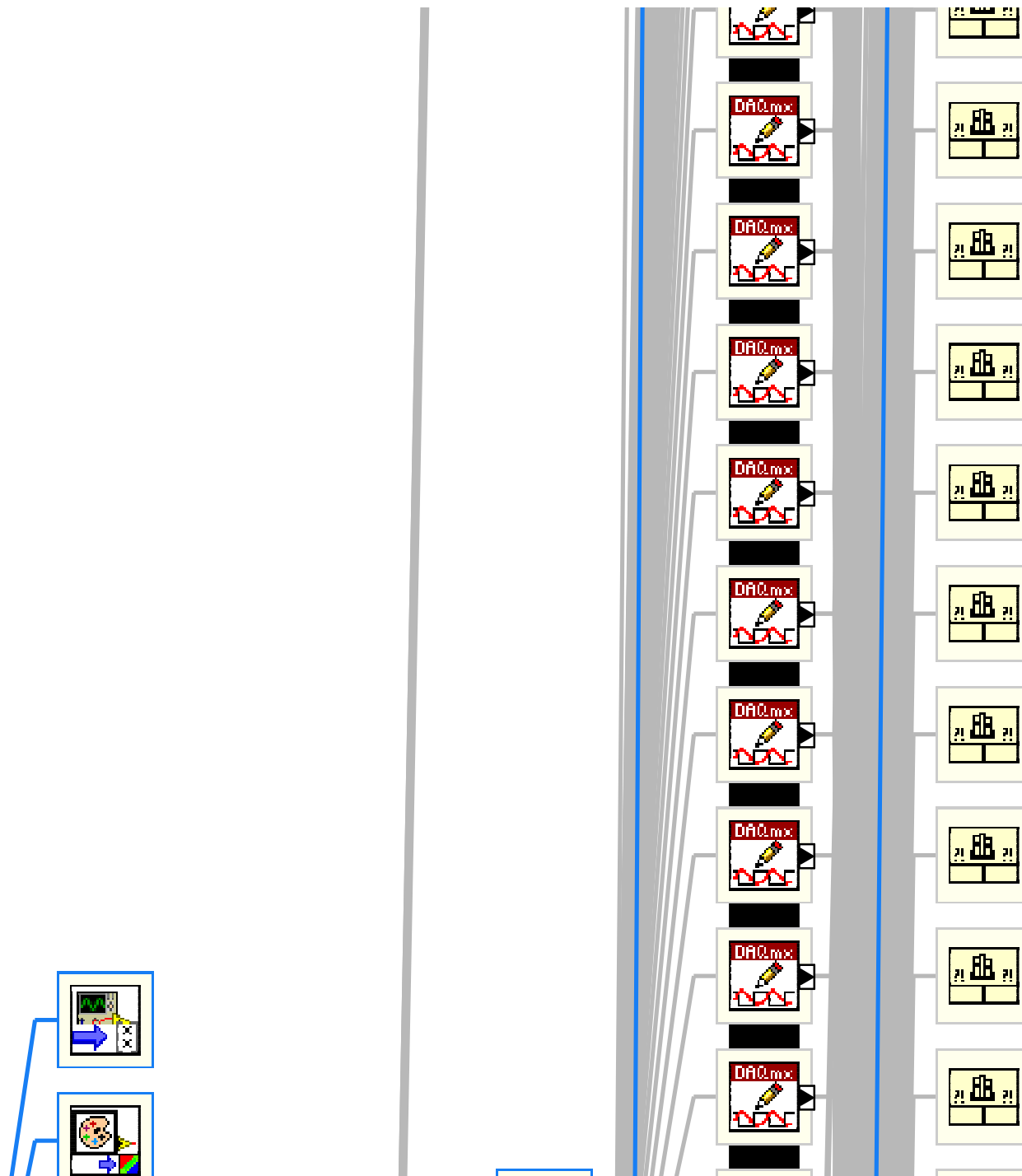




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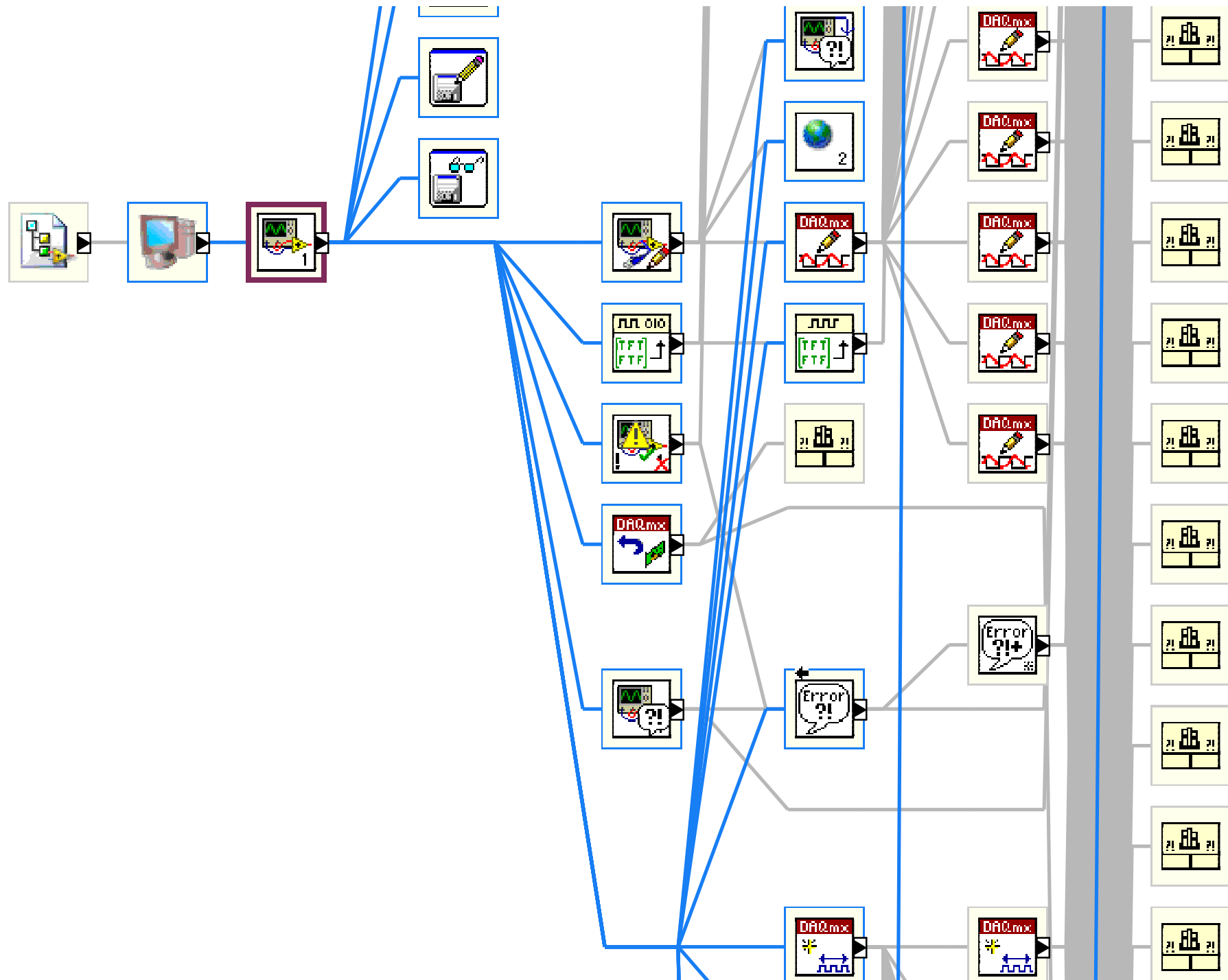
UI Main.vi

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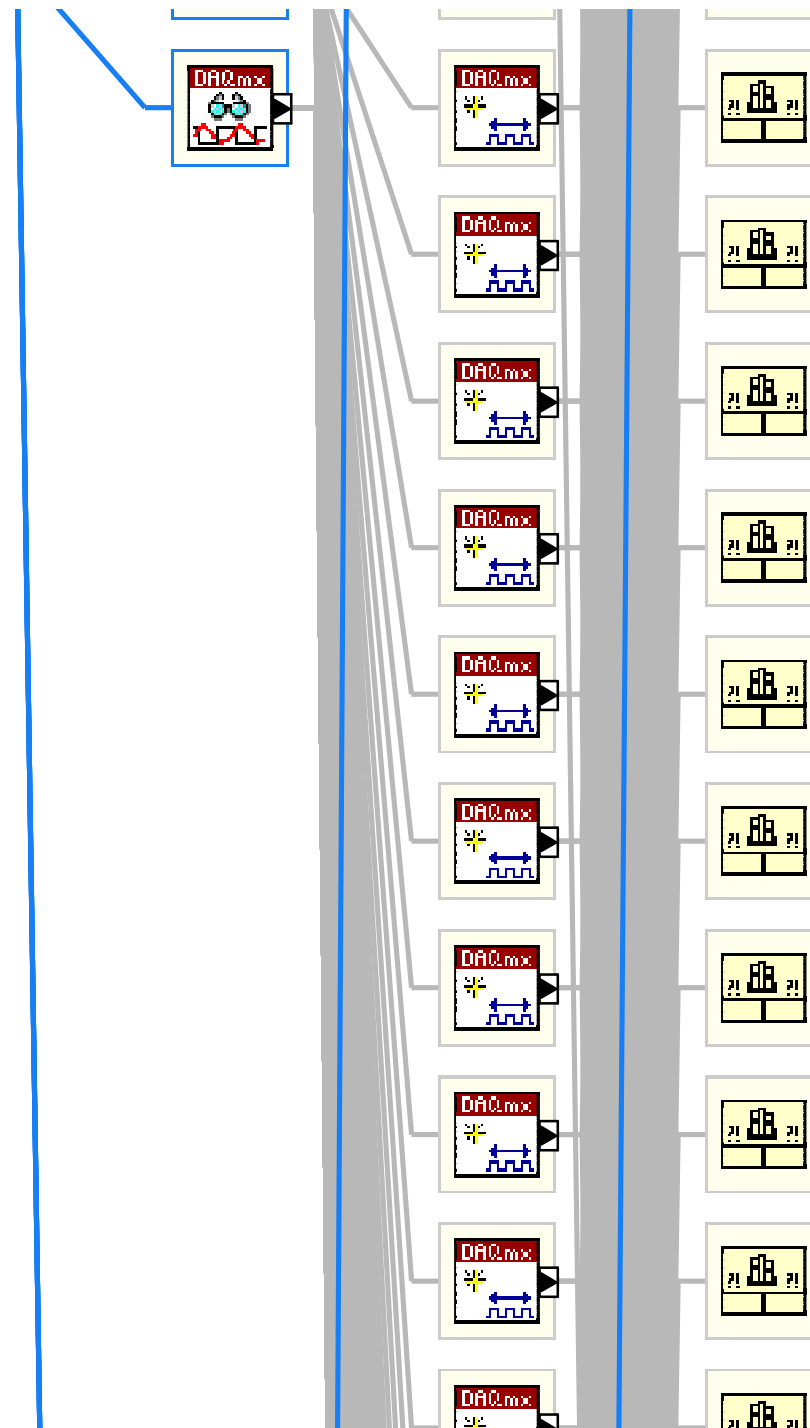
Last modified on 10/25/2022 at 12:22 AM

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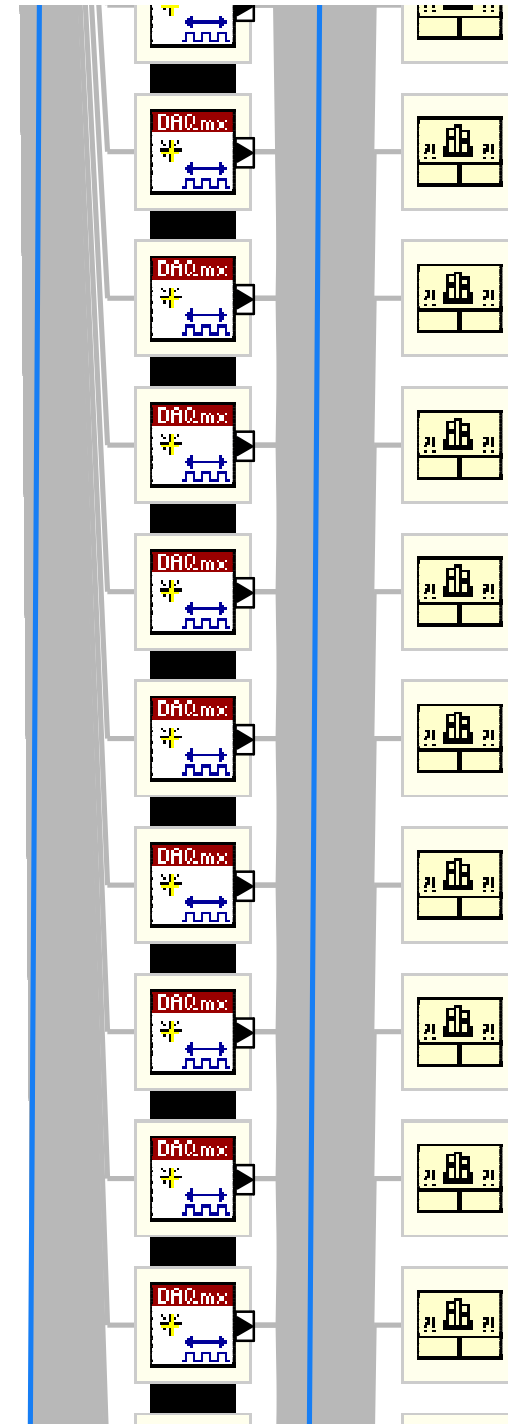




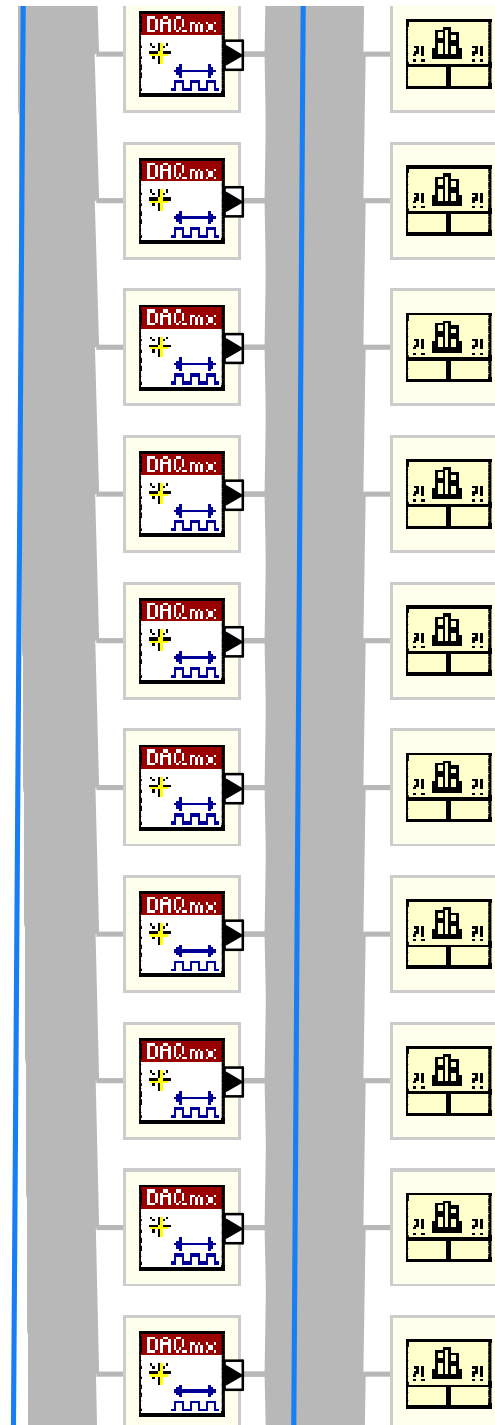




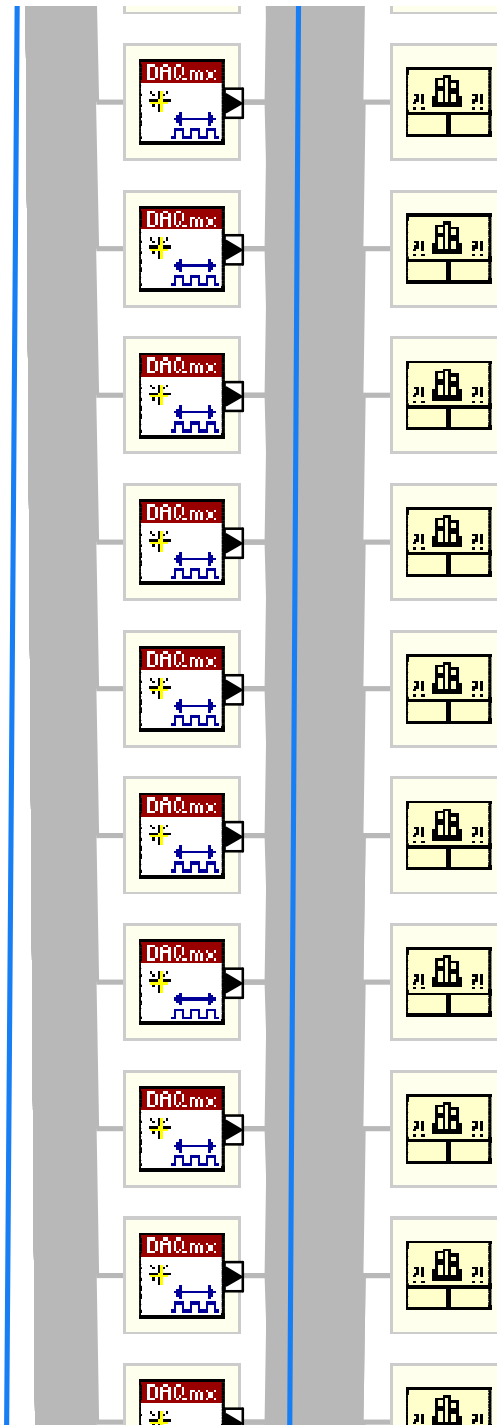














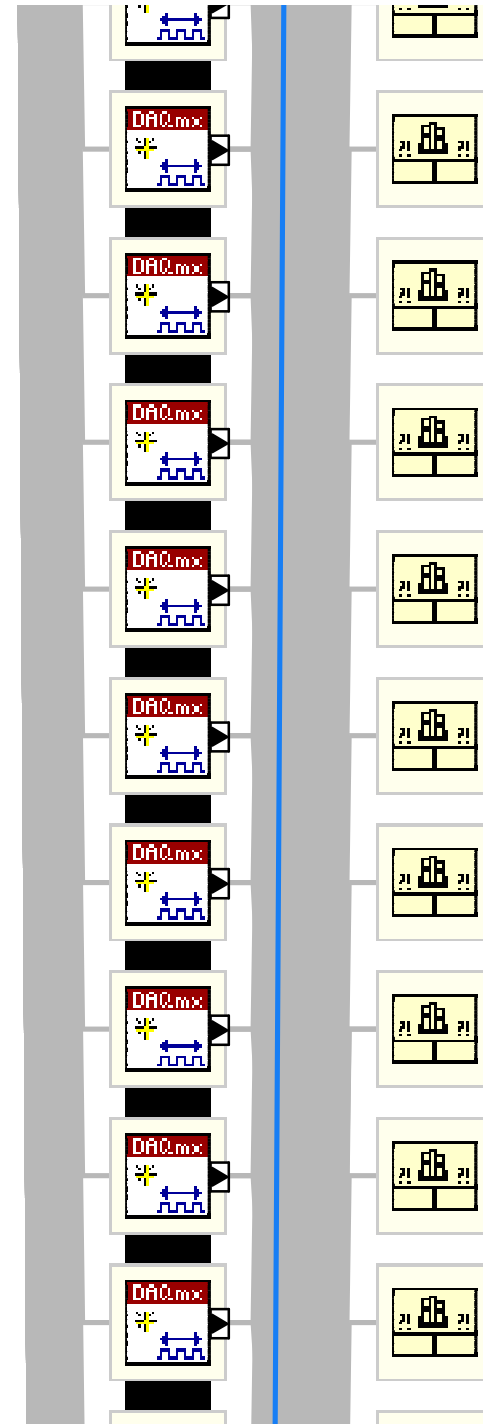


UI Main.vi

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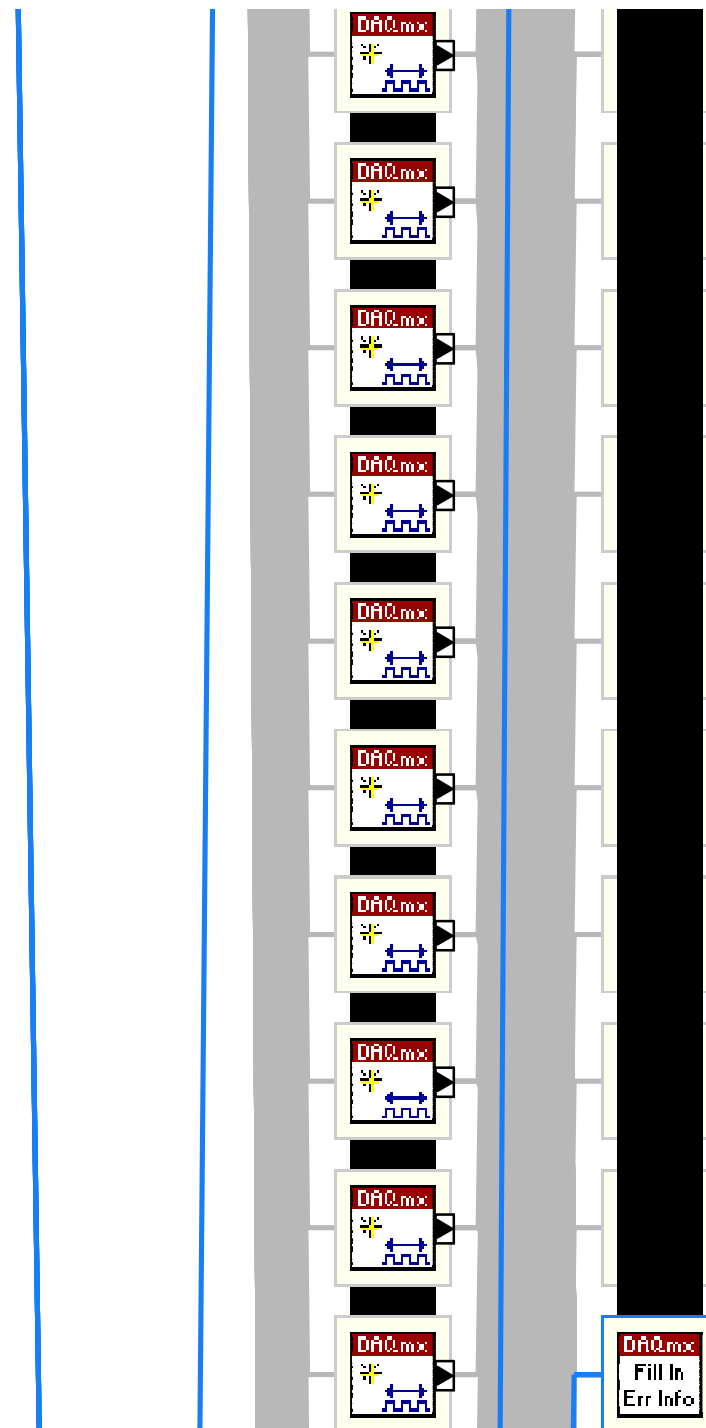
Last modified on 10/25/2022 at 12:22 AM

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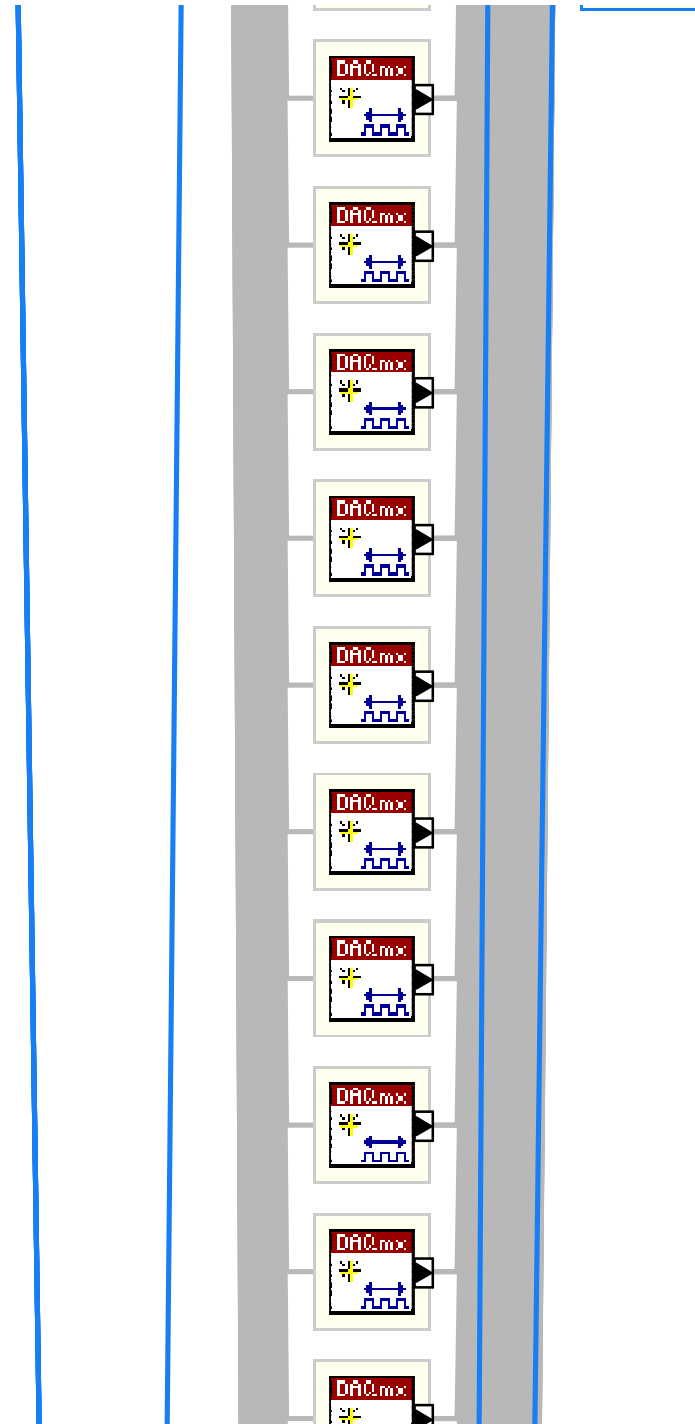












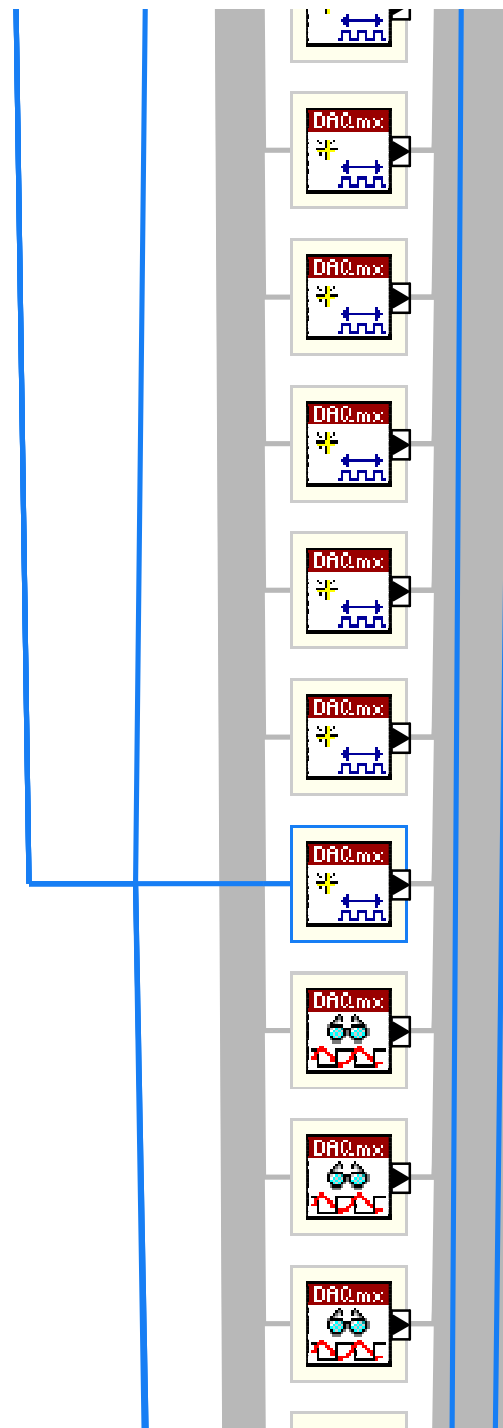




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Evaluation

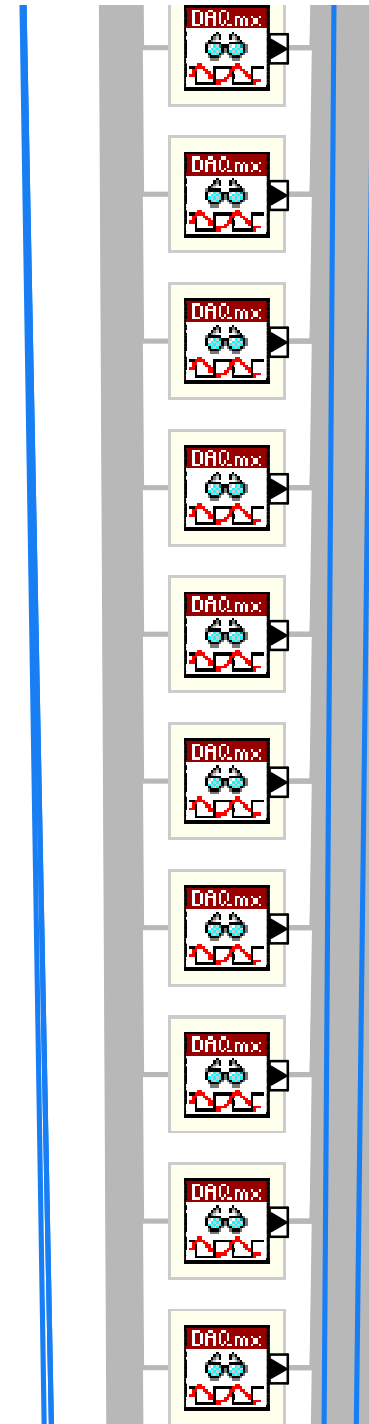
UI Main.vi

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Last modified on 10/25/2022 at 12:22 AM

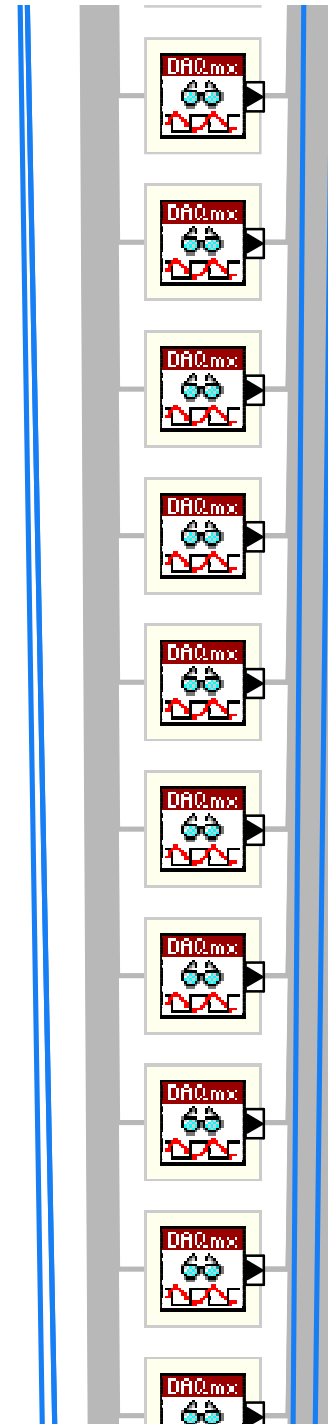
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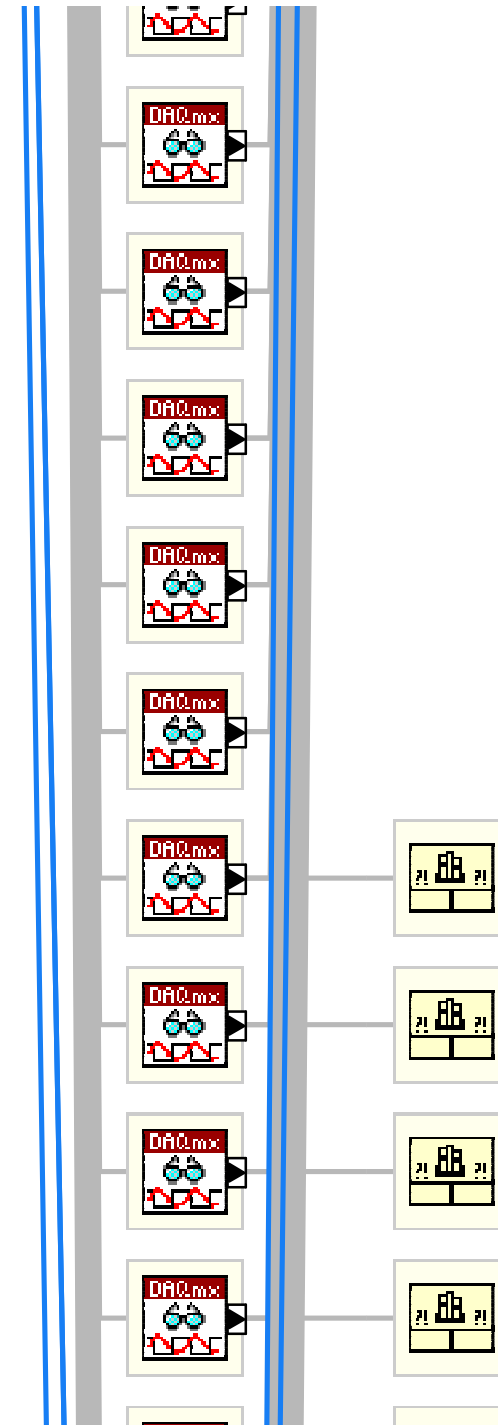












Evaluation

UI Main.vi

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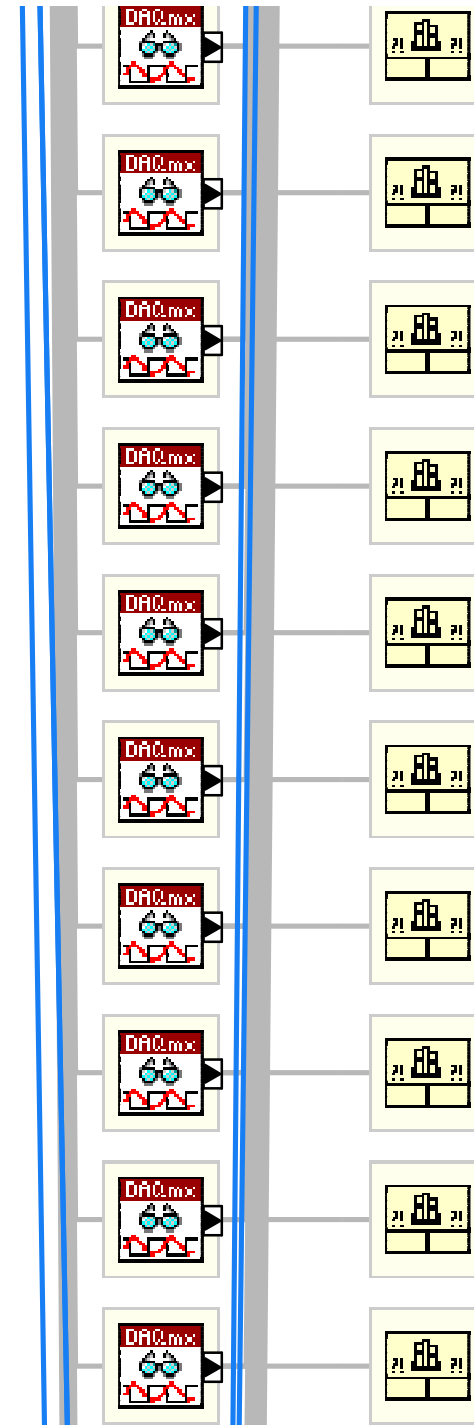




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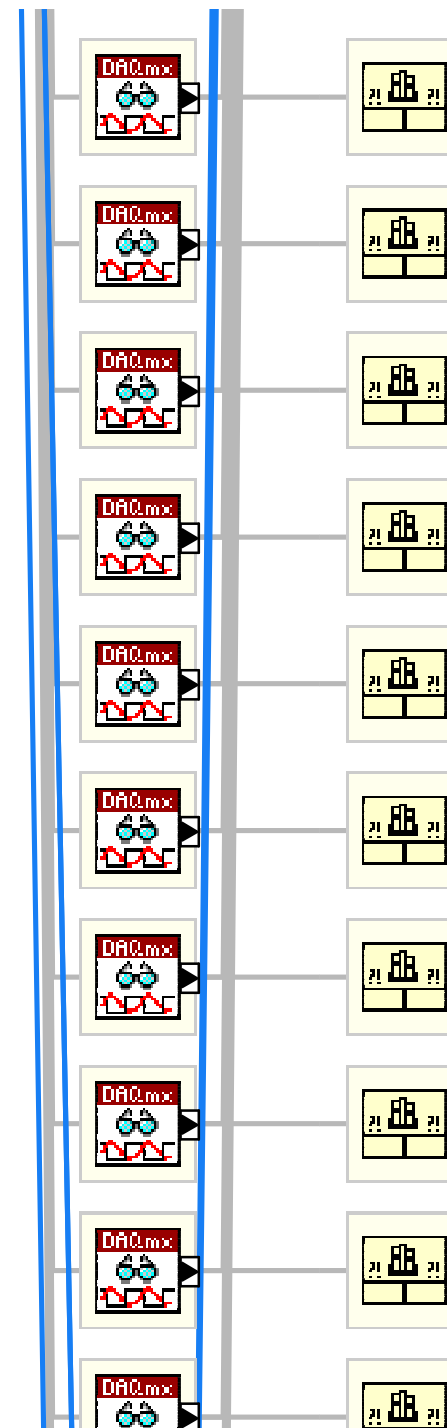
UI Main.vi

D:\2021-2022\Labview\Project I.C.F.L\UI Main.vi

Last modified on 10/25/2022 at 12:22 AM

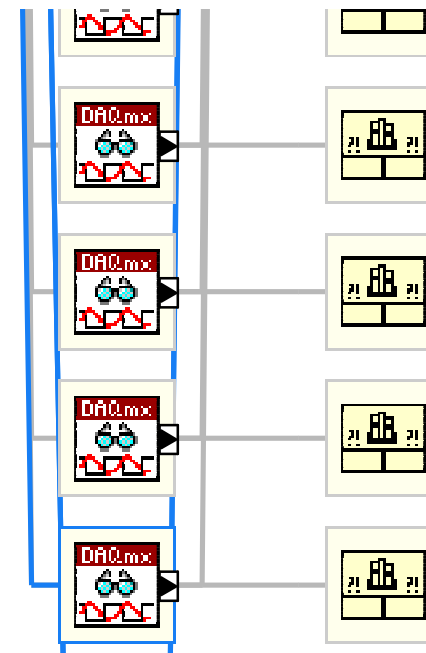
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## List of SubVIs and Express VIs with Configuration Information

**Set data waveform.vi**

D:\2021-2022\Labview\Project I.C.F.L\Set data waveform.vi

**Manipulate outputs.vi**

D:\2021-2022\Labview\Project I.C.F.L\Manipulate outputs.vi

**Error collector.vi**

D:\2021-2022\Labview\Project I.C.F.L\Error collector.vi

**DAQmx Fill In Error Info.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\miscellaneous.llb\DAQmx Fill In Error Info.vi

**Global variable.vi**

D:\2021-2022\Labview\Project I.C.F.L\Global variable.vi

**DAQmx Write (Analog DBL 1Chan 1Samp).vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\write.llb\DAQmx Write (Analog DBL 1Chan 1Samp).vi

**DAQmx Write.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\write.llb\DAQmx Write.vi

**ex\_FileFormats.cti**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express shared\ExFile.llb\ex\_FileFormats.cti

**Error handler.vi**

D:\2021-2022\Labview\Project I.C.F.L\Error handler.vi

**ex\_subFileRead.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express input\ExFileReadBlock.llb\ex\_subFileRead.vi

**DWDT Boolean Array to Digital.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\Waveform\DWDTOps.llb\DWDT Boolean Array to Digital.vi

**Simple Error Handler.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\Utility\error.llb\Simple Error Handler.vi

**DialogType.cti**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\Utility\error.llb\DialogType.cti



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**Simulation check.vi**

D:\2021-2022\Labview\Project I.C.F.L\Simulation check.vi

**Boolean Array to Digital.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\Waveform\DWDT.llb\Boolean Array to Digital.vi

**DAQmx Create Channel (AI-Voltage-Basic).vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\create\channels.llb\DAQmx Create Channel (AI-Voltage-Basic).vi

**DAQmx Create Virtual Channel.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\create\channels.llb\DAQmx Create Virtual Channel.vi

**Get color.vi**

D:\2021-2022\Labview\Project I.C.F.L\Get color.vi

**DAQmx Read (Analog DBL 1Chan 1Samp).vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\read.llb\DAQmx Read (Analog DBL 1Chan 1Samp).vi

**DAQmx Read.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\read.llb\DAQmx Read.vi

**DAQmx Reset Device.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\DAQmx\configure\system.llb\DAQmx Reset Device.vi

**usiDataType.ctl**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express shared\ex\_EditUserDefinedProperties\usiDataType.ctl

**ex\_userDefProperty.ctl**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express shared\ExFile.llb\ex\_userDefProperty.ctl

**ex\_propertySource.ctl**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express shared\ExFile.llb\ex\_propertySource.ctl

**ex\_subFileWrite.vi**

C:\Program Files (x86)\National Instruments\LabVIEW 2020\vi.lib\express\express output\ExFileWriteBlock.llb\ex\_subFileWrite.vi



## VI Revision History

"UI Main.vi History"

Current Revision: 41



## Iconified Cluster Constants