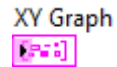# 1. Drop a graph control onto the front panel
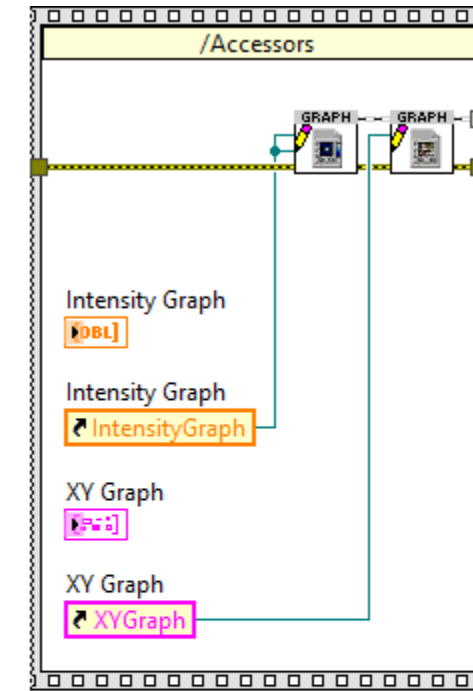
XY Graph

2. Right click on the graph and choose "Create: Reference"

XY Graph

Visible Items	▶
Find Indicator	
Make Type Def.	
Hide Indicator	
Change to Control	
Change to Constant	
Description and Tip...	
Array Palette	▶
Create	▶
Data Operations	▶
Advanced	▶
View As Icon	
JKI Design Palette	
Properties	

| Constant |
| Control |
| Indicator |
| |
| Local Variable |
| Reference |
| Property Node | ▶ |
| Invoke Node | ▶ |
| Channel Writer... |
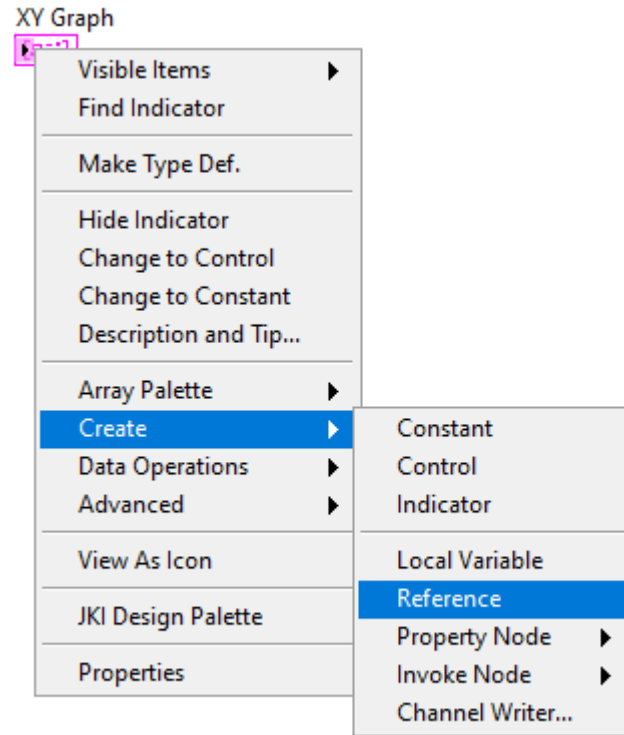
# 3. Now you have a reference to the graph

XY Graph
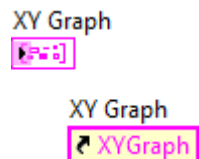
XY Graph
XYGraph

4. Call "Write Intensity Graph.vi" and "Write XY Graph.vi" to put the reference onto the Graph class wire

/Accessors

Intensity Graph
[DBL]

Intensity Graph
IntensityGraph

XY Graph

XY Graph
XYGraph

Write Intensity Graph ref.vi: Write control references to the class wire.
- "Intensity Graph" is the normal target for reading and writing.
- "Intensity Graph (Control)" is only used to read the cursor position of the "Control" Intensity Graph.

Write XY Graph ref.vi: Write control references to the class wire.
- "XY Graph" is the normal target for reading and writing.
- "XY Graph (Control)" is reserved for future use.

**/Intensity Graph/:** Primitives for working with Intensity Graphs.
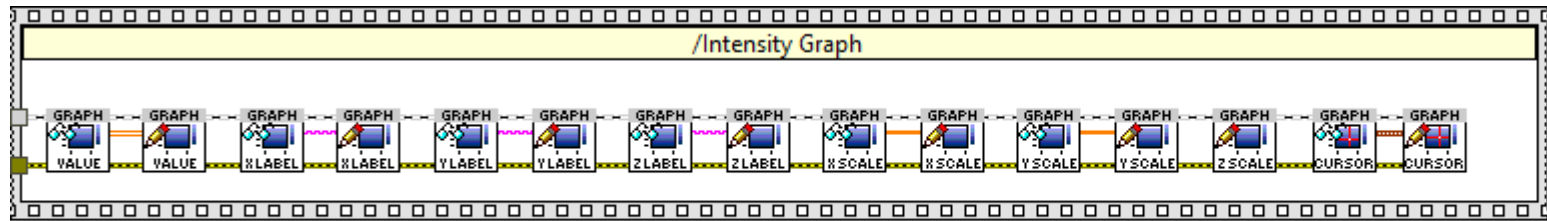
Get/Set Intensity Graph Value.vi
Get/Set Intensity Graph X Label.vi
Get/Set Intensity Graph Y Label.vi
Get/Set Intensity Graph Z Label.vi
Get/Set Intensity Graph X Scale.vi
Get/Set Intensity Graph Y Scale.vi
Set Intensity Graph Z Color.vi
Get Intensity Graph Cursor (Control).vi
Set Intensity Graph Cursor.vi

/XY Graph/: Primitives for working with XY Graphs.
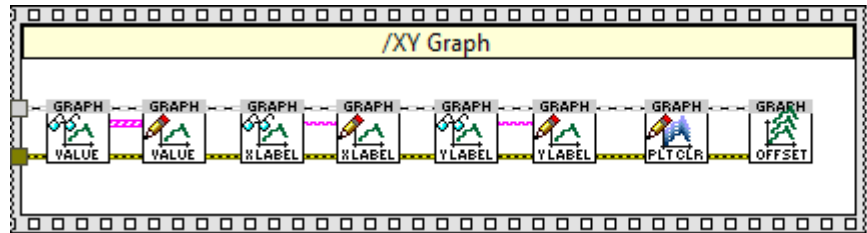

Get/Set XY Graph Value.vi
Get/Set XY Graph X Label.vi
Get/Set XY Graph Y Label.vi
Set XY Graph Plot Colors.vi
Offset XY graph.vi

/API/: Higher-Level VIs. For example: convert an Intensity Graph into a family of plots on an XY Graph. And vice versa. Also easily take Linecuts with width on an Intensity Graph.
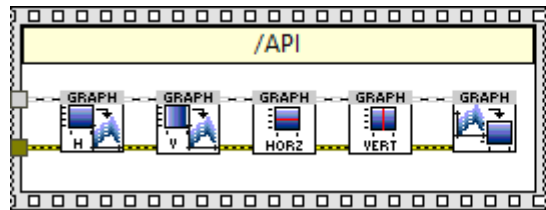
Intensity Graph Linecut (Horizontal).vi
Intensity Graph Linecut (Vertical).vi
Intensity Graph to XY Graph (Horizontal).vi
Intensity Graph to XY Graph (Vertical).vi
XY Graph to Intensity Graph.vi

/subVIs/: helper VIs.
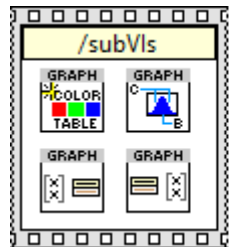
Create Color Table.vi
Normalized Gaussian.vi
Array to Offset and Multiplier.vi
Offset and Multiplier to Array.vi

/Examples/:
- Intensity Graph to XY Graph Example.vi: Stand alone VI for converting an Intensity Graph in XY plots. Converts both horizontally and vertically.
- Linecut Example.vi: Stand alone VI for taking linecuts of an Intensity Graph. This VI uses one Intensity Graph as a cursor control and another Intensity Graph as a cursor target

Graph Utilities Tree.vi

Intensity Graph to XY Graph Example.vi

Linecut Example.vi