

DPAS

“MidOf3”

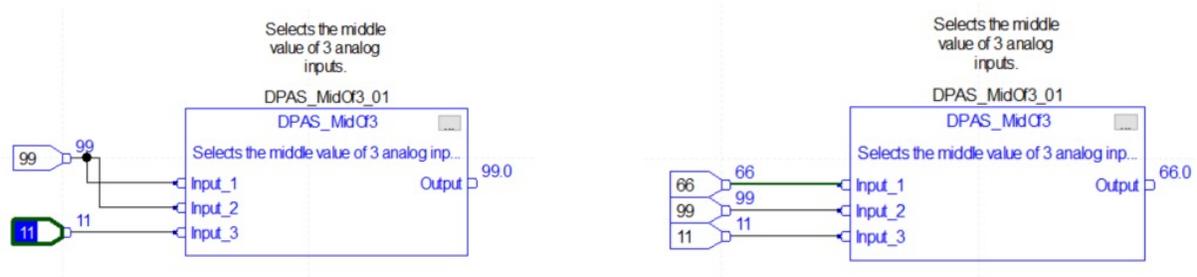
A Rockwell Logix v21 Add On Instruction (AOI)

This AOI was developed to select the middle value of 3 inputs. The native High/Low Limit (HLL) block provides similar capability but it requires specifying in advance which input is the high or low limit. The MidOf3 does not require fixing which input is a high or low limit. Whichever input is between the other 2 becomes the output. In the case of 2 equivalent inputs, the output will be the repeated input.

The parameters on the AOI are as follows:

Name	Usage	Data Type	Alias For	Default	Style	Re	Vis	Description	External Acces	Constant
EnableIn	Input	BOOL		1	Decim...	<input type="checkbox"/>	<input type="checkbox"/>	Enable Input - System Defined Parameter	Read Only	<input type="checkbox"/>
EnableOut	Output	BOOL		0	Decim...	<input type="checkbox"/>	<input type="checkbox"/>	Enable Output - System Defined Parameter	Read Only	<input type="checkbox"/>
Input_1	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input 1	Read/Write	<input type="checkbox"/>
Input_2	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input 2	Read/Write	<input type="checkbox"/>
Input_3	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input 3	Read/Write	<input type="checkbox"/>
+ SelectedIn	Output	DINT		0	Decim...	<input type="checkbox"/>	<input type="checkbox"/>	Selected input. If inputs match, will choose i...	Read/Write	<input type="checkbox"/>
Output	Output	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Value of selected input	Read/Write	<input type="checkbox"/>

In runtime, it appears as:



This AOI (DPAS_MidOf3.L5X) was developed in Logix v21. It can be imported into any later version of Logix.

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