

DPAS

“LDLG_B”

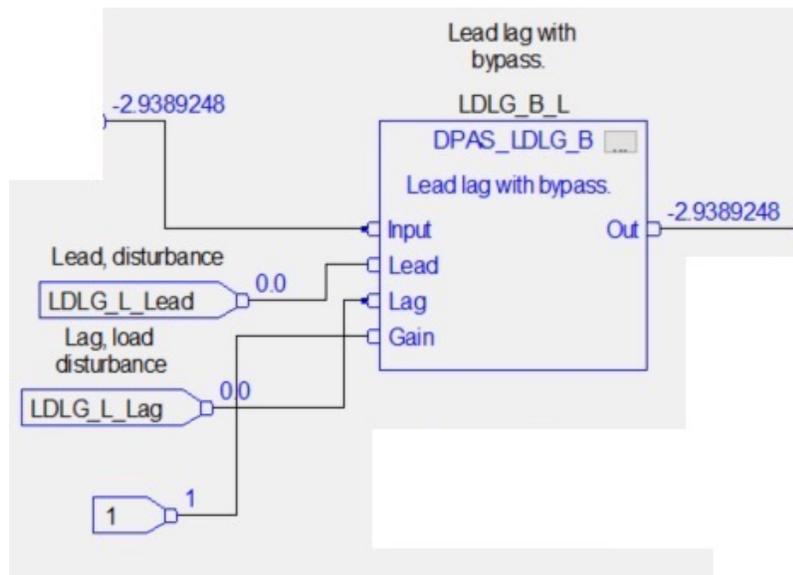
A Rockwell Logix v21 Add On Instruction (AOI)

This AOI was developed to provide a Lead Lag function block (LDLG) that bypasses the dynamics (passes the input directly through to the output with no change) when the lag time is set to 0. The built in LDLG block in Logix has a low limit = $\Delta T/2$ (ΔT is in seconds), which means when the lag is set to 0 it may still have lag.

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	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input connection	Read/Write	<input type="checkbox"/>
Lead	Input	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lead term in seconds	Read/Write	<input type="checkbox"/>
Lag	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	First order lag in seconds	Read/Write	<input type="checkbox"/>
Out	Output	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Output of lead/lag	Read Only	<input type="checkbox"/>
Gain	Input	REAL		1.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Gain for lead/lag block	Read/Write	<input type="checkbox"/>

In runtime, it appears as:



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

Provided without warranty; all use and behavior is responsibility of user, no obligation to DPAS.

This software is provided as shareware. If you find this valuable and would like to make a voluntary contribution, you can mail a check to DPAS Inc, PO Box 4187, Lago Vista TX 78645 or contribute at <https://www.dpas-inc.com/resources>.