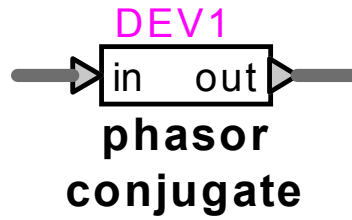


Phasor operation : phasor conjugate



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1 Description

This device calculates the conjugate of a vector or phasor represented by a 2-signal bundle of its polar coordinates.

1.1 Pins

This device has two pins:

<i>pin</i>	<i>type</i>	<i>description</i>	<i>units</i>
in	2-signal bundle	input magnitude	any
		input angle	rad
out	2-signal bundle	output magnitude	same as in_mag
		output angle	rad

1.2 Parameters

No parameters are required for this device.

1.3 Input

The input pins may be connected to any control signals.

1.4 Output

The outputs are the polar coordinates of the conjugate of the input vector.

The operation is immediate, and is calculated as follows:

$$\begin{aligned}
 \text{out_mag} &= \text{in_mag} \\
 \text{out_rad} &= -\text{in_rad}
 \end{aligned}
 \tag{1}$$