

Xilinx Blockset: Register

Register

This block is listed in the following Xilinx Blockset libraries: Basic Elements, Control Logic, Memory, Floating-Point and Index.



The Xilinx Register block models a D flip-flop-based register, having latency of one sample period.

Block Interface

The block has one input port for the data and an optional input reset port. The initial output value is specified by you in the block parameters dialog box (below). Data presented at the input will appear at the output after one sample period. Upon reset, the register assumes the initial value specified in the parameters dialog box.

The Register block differs from the Xilinx Delay block by providing an optional reset port and a user specifiable initial value.

Block Parameters

The block parameters dialog box can be invoked by double-clicking the icon in your Simulink model.

Basic tab

Parameters specific to the Basic tab are as follows:

Initial value: specifies the initial value in the register.

Optional Ports

Other parameters used by this block are explained in the topic Common Options in Block Parameter Dialog Boxes.

Xilinx LogiCORE

The Register block is implemented as a synthesizable VHDL module. It does not use a Xilinx LogiCORE™.