

Blocks Supported by BlockImporter

Description

- The following Simulink(TM) blocks are supported by BlockImporter.

Continuous

Derivative computes the time derivative of the input.

Integrator computes the integral of the input with respect to time.

State-Space simulates a constant-coefficient state-space system.

Transfer-Fcn simulates a transfer function.

Zero-Pole simulates a zero-pole block.

Discontinuous

Saturation limits the range of a signal.

Lookup Tables

Lookup Table (1D) approximates a one-dimensional function with a lookup table.

Math Operations

Abs computes the absolute value of the input.

Gain scales the input. Supports element-wise and matrix multiplication.

Product multiplies the inputs. Supports element-wise and matrix multiplication. The sign of the exponent of each input is configurable.

Math Function applies a selected math function to the input.

Sum sums the inputs. The sign (+/-) of each input is configurable.

Trigonometric Function applies a trigonometric function to the input.

Signal Routing

Bus Creator combines sets of signals into a bus.

Bus Selector selects signals from a bus.

Mux combines sets of signals into a vector signal.

Demux separates the sets of signals of multiplexed bus.

Selector selects specified signals from a bus.

From connects a signal from a **Goto** block.

Goto connects a signal to a **From** block.

Sinks

Display numeric display of input values.

Scope display scope.

Terminator terminates output signals.

ToWorkspace writes input to an array in the workspace.

▼ Sources

BandLimited White-Noise acts as a dummy connection.

Chirp generates a sinusoidal output whose frequency increases with time.

Clock generates an output proportional to the simulation time.

Constant generates a constant output.

FromWorkspace acts as a dummy connection.

Ground generates a constant zero output.

Ramp generates a waveform with a constant slope.

Signal Generator generates one of three waveforms: a sine wave, a square wave, or a sawtooth waveform. The Simulink signal generator allows a random waveform, however, that is currently not supported.

Sine generates a sine waveform.

Step generates a step waveform.

▼ Subsystems

In1 an input port of a subsystem.

Out1 an output port of a subsystem.

Subsystem a collection of blocks that form a unit.

▼ User-Defined Functions

Fcn applies a C-style expression to the input.

MATLABFcn applies a function to the input.