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Gates time

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Revision as of 08:29, 16 January 2012 by [Me, of Course](#) ([Talk](#) | [contribs](#)) (Changes the smoother's name to 'Smoother', was 'Square Pulse'.)

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Accumulator

Inputs:	<div><div>N</div>A Hold Reset</div>
Outputs:	<div><div>N</div>Out</div>
Description:	An accumulator increases at a rate of A per second When Hold is 1, it will hold the value it currently outputs.



Average Derivative

Inputs:	<div><div>N</div>A Window</div>
Outputs:	<div><div>N</div>Out</div>
Description:	Outputs the rate of change of A per (Window) seconds.



Delay

Inputs:	 Clk Delay Hold Reset
Outputs:	 Out
Description:	If Clk is greater than 0 it will wait (Delay) seconds and then output a 1 for (hold) seconds, unless the chip is reset.

Derivative

Inputs:	 A
Outputs:	 Out
Description:	Outputs the rate of change of A per second.



Indefinite Integral

Inputs:	 A
Outputs:	 Out
Description:	Works exactly like the accumulator, except clamped between -100000 and 100000.


Integral

Inputs:	 Window A
Outputs:	 Out
Description:	Outputs the accumulated value of A divided by a server tick-length over the last (Window) ticks. Theoretically there are about 66 ticks in a second, but commonly a bit less.


Monostable Timer

Inputs:	 Run Time Reset
Outputs:	 Out
Description:	Outputs 1 for (Time) seconds when Run is triggered.



OS Date

Inputs:	None
Outputs:	 Out
Description:	Outputs the OS Date, which is Year*366+Day of the year.



OS Time

Inputs:	None
Outputs:	 Out
Description:	Outputs the OS Time, Which is seconds past midnight Note: This is server time, not your computer's time.

Pulser

Inputs:	 Run Tick Reset
Outputs:	 Out
Description:	When Run is 1, Outputs 1 every (Tick) seconds.

Saw Pulse

Inputs:	 Run SlopeRaiseTime PulseTime SlopeDescendTime GapTime Min Max Reset
Outputs:	 Out
Description:	<p>When Run is 1;</p> <p>Out goes from Min to Max over (SlopeRaiseTime)seconds. Out is Max for (Pulsetime) seconds. Out goes from Max to Min over (SlopeDescendTime) seconds. Out is Min for (GapTime) seconds.</p> <p>Restart the cycle.</p>

Smoother

Inputs:	<div><div>N</div>A Rate</div>
Outputs:	<div><div>N</div>Out</div>
Description:	Outputs a smoothed value of A Rate determines the maximum allowed change of Out per second.

Square Pulse

Inputs:	<div><div>N</div>Run PulseTime GapTime Min Max Reset</div>
Outputs:	<div><div>N</div>Out</div>
Description:	When Run is 1; Out is Min for (GapTime) seconds. Out is Max for (Pulsetime) seconds. Restart the cycle.

Timer

Inputs:	<div><div>N</div>Run Reset</div>
Outputs:	<div><div>N</div>Out</div>
Description:	When Run is 1 outputs an constant increasing value at a rate of 1 per second.

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