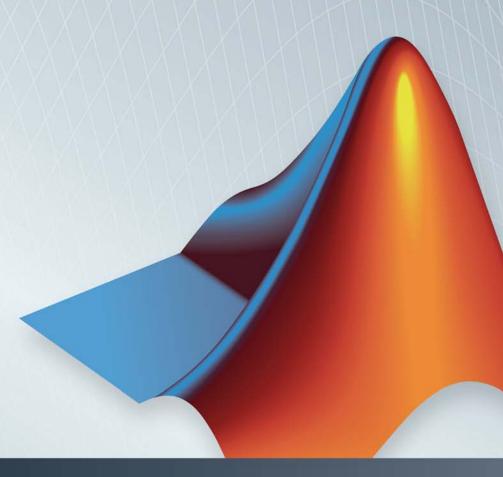
Stateflow®

Reference

R2013b



MATLAB&SIMULINK®



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 $Stateflow^{\otimes}$ Reference

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Functions — Alphabetical List

sfclipboard

Purpose Stateflow clipboard object

Syntax *object* = sfclipboard

Description object = sfclipboard returns a handle to the Stateflow® clipboard

object, which you use to copy objects from one chart or state to another.

Examples

Copy the init function from the Init chart to the Pool chart in the sf pool model:

```
sf pool;
% Get handle to the root object
rt = sfroot;
% Get handle to 'init' function in Init chart
f1 = rt.find('-isa','Stateflow.EMFunction','Name','init');
% Get handle to Pool chart
chP = rt.find('-isa', 'Stateflow.Chart', 'Name', 'Pool');
% Get handle to the clipboard object
cb = sfclipboard;
% Copy 'init' function to the clipboard
cb.copy(f1);
% Paste 'init' function to the Pool chart
cb.pasteTo(chP);
% Get handle to newly pasted function
f2 = chP.find('-isa', 'Stateflow.EMFunction', 'Name', 'init');
% Reset position of new function in the Pool chart
f2.Position = [90 180 90 60];
```

See Also

sfgco | sfnew | sfroot | stateflow

Tutorials

- "Copy Objects"
- "Create and Access Charts Using the Stateflow API"

How To

- · "Getting a Handle on Stateflow API Objects"
- "Accessing the Chart Object"

Purpose Close chart

Syntax sfclose

sfclose('chart_name')

sfclose('all')

Description sfclose closes the current chart.

 $\verb|sfclose('chart_name')| closes the chart called 'chart_name'.$

sfclose('all') closes all open or minimized charts. 'all' is a literal

string.

See Also sfnew | sfopen | stateflow

sfdebugger

Purpose Open Stateflow Debugger

Syntax sfdebugger

sfdebugger('model_name')

Description sfdebugger opens the Stateflow Debugger for the current model.

 $\label{eq:sfdebugger} $$ sfdebugger ('model_name') opens the debugger for the Simulink $^{\$}$ model called 'model_name'. Use this input argument to specify which$

model to debug when you have multiple models open.

See Also sfexplr | sfhelp | sflib

How To• "Debug Run-Time Errors in a Chart"

sfexplr

Purpose Open Model Explorer

Syntax sfexplr

Description sfexplr opens the Model Explorer. A model does not need to be open.

See Also sfdebugger | sfhelp | sflib

How To• "Use the Model Explorer with Stateflow Objects"

sfgco

Purpose Recently selected objects in chart

Syntax object = sfgco

Description object = sfgco returns a handle or vector of handles to the most

recently selected objects in a chart.

Output Arguments

object

Handle or vector of handles to the most recently selected objects in

a chart

Empty matrix No charts are open, or you have

no edited charts.

Handle to the chart most recently

clicked

You clicked in a chart, but did not

select any objects.

Handle to the selected object You selected one object in a chart.

Vector of handles to the selected

objects

You selected multiple objects in

You selected multiple objects in

a chart.

Vector of handles to the most recently selected objects in the most recently selected chart

multiple charts.

Examples

Zoom in on a state after clicking it:

myState = sfgco;

% Zoom in on the selected state

myState.fitToView;

See Also

sfnew | sfroot | stateflow

Tutorials

· "Create and Access Charts Using the Stateflow API"

How To

· "Getting a Handle on Stateflow API Objects"

• "Zoom a Chart Object Using the API"

sfhelp

Purpose Open Stateflow online help

Syntax sfhelp

Description sfhelp opens the Stateflow online help in the MATLAB® Help browser.

See Also sfdebugger | sfexplr | sfnew | stateflow

Purpose Open Stateflow library window

Syntax sflib

Description sflib opens the Stateflow block library. From this library, you can

drag Stateflow blocks into Simulink models and access the Stateflow

Examples Library.

See Also sfdebugger | sfexplr | sfhelp | sfnew

Purpose Create model containing empty Stateflow block

Syntax sfnew

sfnew('chart_type')
sfnew('model_name')

sfnew('chart_type','model_name')

Description

sfnew creates an untitled model with an empty chart that supports full semantics.

sfnew('chart_type') creates an untitled model that contains an empty block of type chart type.

sfnew('model_name') creates a model called model_name with an empty chart that supports full semantics.

sfnew('chart_type', 'model_name') creates a model called model name with an empty block of type chart type.

Input Arguments

chart_type

Empty block to add to an empty model:

-Classic Use a chart that supports

C expressions in Stateflow

-Mealy use a chart that supports

only Mealy state machine

semantics

-Moore Use a chart that supports

only Moore state machine

semantics

-TT Use a truth table

-MATLAB Use a chart that supports

MATLAB expressions in

Stateflow actions

-STT Use a state transition table

model_name

Name of the model.

Examples

Create a model called MyModel with an empty chart that uses only Mealy semantics:

```
sfnew('-Mealy','MyModel')
```

Create a model called MyModel with an empty chart that uses only Moore semantics:

```
sfnew('-Moore','MyModel')
```

See Also

sfhelp | sfprint | sfroot | sfsave | stateflow

How To

- · "Create an Empty Chart"
- "Create Mealy and Moore Charts"
- "Build Model with Stateflow Truth Table"
- · "Syntax for States and Transitions"

sfopen

Purpose Open existing model

Syntax sfopen

Description stopen prompts you for a model file and opens the model that you select

from your file system.

See Also sfclose | sfdebugger | sfexplr | sflib | sfnew | stateflow

Purpose P

Print graphical view of charts

Syntax

sfprint

sfprint(objects)

sfprint(objects,format)

sfprint(objects,format,output_option)

sfprint(objects,format,output_option,print_entire_chart)

Description

sfprint prints a PostScript file of the current chart to the default printer.

sfprint(objects) prints a PostScript file of all charts specified by objects to the default printer.

sfprint(objects, format) prints all charts specified by objects in the specified format to output files. Each output file matches the name of the chart and the file extension matches the format.

sfprint(objects,format,output_option) prints all charts specified by objects in the specified format to the file or printer specified in output option.

sfprint(objects, format, output_option, print_entire_chart) prints all charts specified by objects in the specified format to the file or printer specified in output_option. As specified in print entire chart, prints either a complete or current view.

Input Arguments

objects - Identifier of charts to print

gcb (default) | gcs | string

Identifier of charts to print, specified as a command or a string. Use:

- gcb to specify the current block of the model.
- gcs to specify the current system of the model.

sfprint

• a string to specify the path of a chart, model, subsytem, or block.

Example: sfprint(gcs)

Prints all the charts in the current system to the default printer.

Example: sfprint('sf pool/Pool')

Prints the complete chart with the path 'sf_pool/Pool' to the default printer.

format - Output format of printed charts specified as a string `bitmap' | 'eps' | `epsc' | `jpg' | `meta' | `png' | `ps' | `psc' | `tif'

Output format of the printed charts specified as one of these string values:

'bitmap'	Save the chart image to the clipboard as a bitmap (for Windows® operating systems only)
'eps'	Generate an encapsulated PostScript file
'epsc'	Generate a color encapsulated PostScript file
'jpg'	Generate a JPEG file
'meta'	Save the chart image to the clipboard as a metafile (for Windows operating systems only)
'png'	Generate a PNG file
'ps'	Generate a PostScript file
'psc'	Generate a color PostScript file
'tif'	Generate a TIFF file

```
Example: sfprint('sf_car/shift_logic','jpg')
```

Prints the complete chart with the path 'sf_car/shift_logic' in a JPEG format to a file in the current folder named 'sf_car_shift_logic.jpg'.

Data Types char

'file'

'printer'

output_option - Name of the printer or output file

```
`file' (default) | string | `clipboard' | `promptForFile' | `printer'
```

Name of the output file or printer specified as one of these values:

	file with the name
	chart_name.file_extension.
	The file name is the name of the chart, with an extension that matches the output format.
string	Specify the name of the output file with a string.
'clipboard'	Copy output to the clipboard
'promptForFile'	Prompts the user interactively for path and file name.

Send output to the default printer (use only with 'ps', or 'eps'

Send output to a default

formats)

```
Example: sfprint('sf car/shift logic', 'png', 'myFile')
```

Prints the complete chart whose path is 'sf_car/shift_logic' in the PNG format to a file in the current folder with the name 'myFile'.png.

```
Example: sfprint('sf car/shift logic, 'ps', 'promptForFile')
```

sfprint

Prints all charts in the current block of the model in PostScript format. An interactive window opens for each chart to prompt you for the path and name of the output file.

Data Types

char

print_entire_chart - View of charts to print

```
1 (default) | 0
```

View of charts to print specified as a integer of value 0 or 1. A value of 1 prints the complete views of all the charts, whereas a value of 0 prints the current views of all the charts.

```
Example: sfprint(gcs,'png','file',0)
```

Prints the current view of all charts in the current system in PNG format using default file names.

Examples Print open chart

sfprint

Prints current chart to the default printer.

Print PostScript file of all charts specified in path

```
sfprint('sf car/shift logic');
```

Prints the chart with the path 'sf_car/shift_logic' in PostScript format to the default printer.

Print chart specified in path to a JPG file format.

```
sfprint('sf_car/shift_logic','jpg')
```

Prints a copy of the chart 'sf_car/shift_logic' in JPG format to the file 'sf_car_shift_logic.jpg'.

Print chart in TIFF format to the clipboard.

```
sfprint(gcs,'tif','clipboard')
```

Prints the chart in the current system to the clipboard in TIFF format.

Print the current view of a chart.

```
sfprint('sf_car/shift_logic','png','file',0)
```

Prints the current view of 'sf_car/shift_logic' in a PNG format to the file 'sf_car_shift_logic.png'.

See Also

```
gcb | gcs | sfhelp | sfnew | sfsave | stateflow
```

sfroot

Purpose Root object

Syntax object = sfroot

Description object = sfroot returns a handle to the top-level object in the

Stateflow hierarchy of objects. Use the root object to access all other

objects in your charts when using the API.

Examples Zoom in on a state in your chart:

old sf car;

% Get handle to the root object

rt = sfroot;

% Find the state with the name 'first'

myState = rt.find('-isa','Stateflow.State','Name','first');

% Zoom in on that state in the chart

myState.fitToView;

See Also sfclipboard | sfgco

Tutorials • "Create and Access Charts Using the Stateflow API"

How To• "Getting a Handle on Stateflow API Objects"

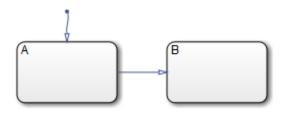
• "Accessing the Chart Object"

```
Purpose
                   Save chart in current folder
Syntax
                   sfsave
                   sfsave('model name')
                  sfsave('model name', 'new model name')
                   sfsave('Defaults')
Description
                   sfsave saves the chart in the current model.
                   sfsave('model name') saves the chart in the model called
                   'model name'.
                   sfsave('model name', 'new model name') saves the chart in
                   'model name' to 'new model name'.
                   sfsave('Defaults') saves the settings of the current model as
                   defaults. 'Defaults' is a literal string.
                   The model must be open and the current folder must be writable.
Examples
                   Develop a script to create a baseline chart and save it in a new model:
                   bdclose('all');
                   % Create an empty chart in a new model
                   sfnew;
                   % Get root object
                   rt = sfroot;
                   % Get model
                   m = rt.find('-isa', 'Simulink.BlockDiagram');
                   % Get chart
                   chart1 = m.find('-isa', 'Stateflow.Chart');
                   % Create two states, A and B, in the chart
                   sA = Stateflow.State(chart1);
```

```
sA.Name = 'A';
sA.Position = [50 50 100 60];
sB = Stateflow.State(chart1);
sB.Name = 'B';
sB.Position = [200 50 100 60];
% Add a transition from state A to state B
tAB = Stateflow.Transition(chart1);
tAB.Source = sA;
tAB.Destination = sB;
tAB.SourceOClock = 3;
tAB.DestinationOClock = 9;
% Add a default transition to state A
dtA = Stateflow.Transition(chart1);
dtA.Destination = sA;
dtA.DestinationOClock = 0;
x = sA.Position(1) + sA.Position(3)/2;
y = sA.Position(2)-30;
dtA.SourceEndPoint = [x y];
% Add an input in1
d1 = Stateflow.Data(chart1);
d1.Scope = 'Input';
d1.Name = 'in1';
% Add an output out1
d2 = Stateflow.Data(chart1);
d2.Scope = 'Output';
d2.Name = 'out1';
% Save the chart in a model called "NewModel"
% in current folder
sfsave('untitled','NewModel');
Here is the resulting model:
```



Here is the resulting chart:



See Also

sfopen | sfclose | sfroot | sfnew | find

Tutorials

• "Create and Access Charts Using the Stateflow API"

How To

• "Create a MATLAB Script of API Commands"

stateflow

Purpose Create empty chart

Syntax stateflow

Description stateflow creates an untitled model that contains an empty chart. The

function also opens the Stateflow block library. From this library, you can drag Stateflow blocks into models or access the Stateflow Examples

Library.

See Also sflib | sfnew

How To • "Create an Empty Chart"

Block Reference

Chart(MATLAB)

Purpose

Finite state machine that uses MATLAB expressions to implement

control logic

Library

Stateflow



Description

A *finite state machine* is a representation of an event-driven (reactive) system. In an event-driven system, the system responds by making a transition from one operating mode to another. This action occurs in response to an event, as long as the condition defining the change is true.

A Stateflow chart is a graphical representation of a finite state machine, where *states* and *transitions* form the basic elements of the system. You can also represent stateless flow charts.

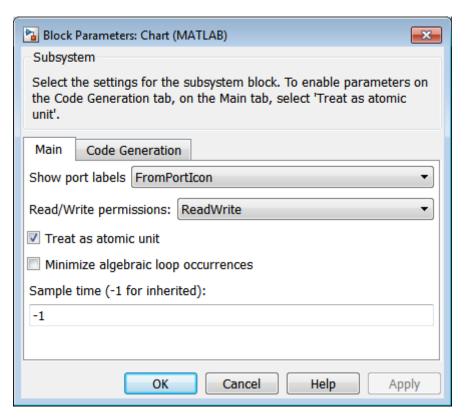
You can use Stateflow charts to control a physical plant in response to events such as a temperature or pressure sensor, or clock or user-driven events. For example, you can use a state machine to represent the automatic transmission of a car. The transmission has these operating states: park, reverse, neutral, drive, and low. As the driver shifts from one position to another, the system makes a transition from one state to another, for example, from park to reverse.

A MATLAB Chart block uses MATLAB expressions to implement control logic. For more information, see "MATLAB as the Action Language for Stateflow Charts".

Data Type Support

The MATLAB Chart block accepts input signals of any data type that Simulink supports, including fixed-point and enumerated data types. For a discussion of data types that Simulink supports, refer to the Simulink documentation.

Floating-point and Boolean inputs pass through the block unchanged.



Parameters and Dialog Box

For a description of the block parameters, see the Subsystem block reference page in the Simulink documentation.

Characteristics

Direct Feedthrough	Yes
Sample Time	Specified in the Sample time parameter
Scalar Expansion	N/A

Chart(MATLAB)

Yes
Yes, if enabled for continuous-time systems For more information, see "When to Enable Zero-Crossing Detection".

Purpose

Finite state machine that uses C expressions to implement control logic

Library

Stateflow



Description

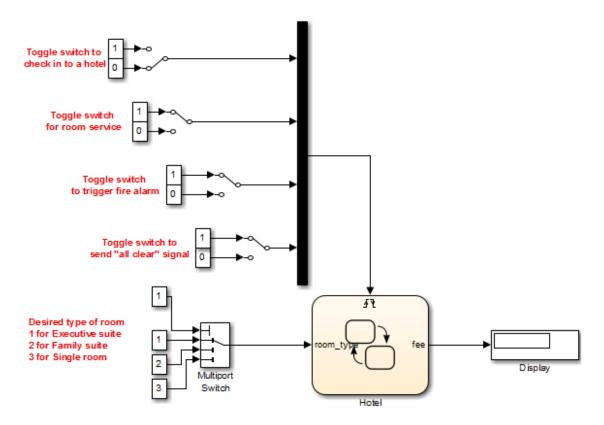
A *finite state machine* is a representation of an event-driven (reactive) system. In an event-driven system, the system responds by making a transition from one state (mode) to another. This action occurs in response to an event, as long as the condition defining the change is true.

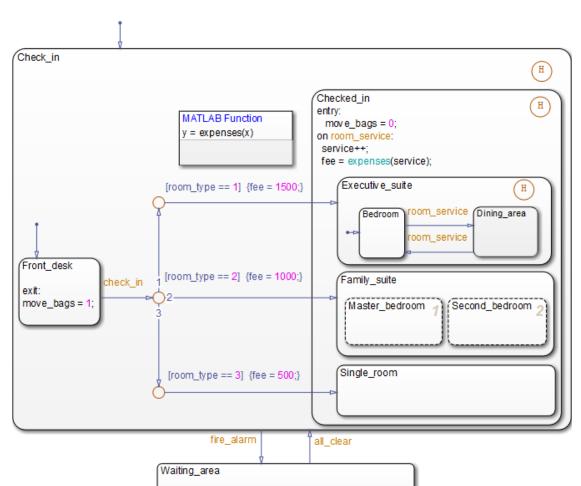
A Stateflow chart is a graphical representation of a finite state machine, where *states* and *transitions* form the basic elements of the system. You can also represent stateless flow charts.

You can use Stateflow charts to control a physical plant in response to events such as a temperature or pressure sensor, or clock or user-driven events. For example, you can use a state machine to represent the automatic transmission of a car. The transmission has these operating states: park, reverse, neutral, drive, and low. As the driver shifts from one position to another, the system makes a transition from one state to another, for example, from park to reverse.

A C Chart block uses C expressions to implement control logic.

The following block diagram contains a C Chart block named Hotel that responds to inputs from several Manual Switch blocks.





If you double-click the Chart block in the model, the chart appears.

By default, the C Chart block uses *Classic* chart semantics, but you can also specify Mealy or Moore semantics, as described in "Create Mealy and Moore Charts".

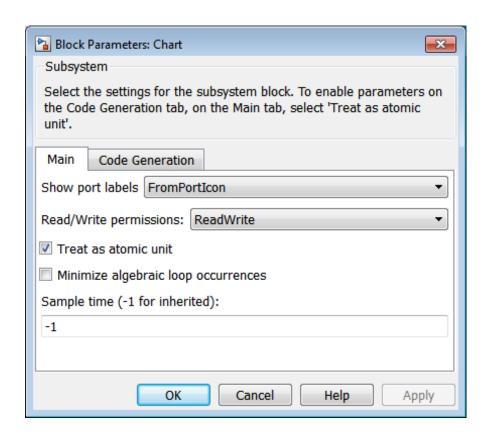
Data Type Support

The C Chart block accepts input signals of any data type that Simulink supports, including fixed-point data and enumerated data types. For a discussion of data types that Simulink supports, refer to the Simulink documentation.

Floating-point inputs pass through the block unchanged. Boolean inputs are treated as uint8 signals.

You can declare local data of any type or size.

Parameters and Dialog Box



For a description of the block parameters, see the Subsystem block reference page in the Simulink documentation.

Characteristics

Direct Feedthrough	Yes
Sample Time	Specified in the Sample time parameter
Scalar Expansion	N/A
Dimensionalized	Yes
Zero-Crossing Detection	Yes, if enabled for continuous-time systems
	For more information, see "When to Enable Zero-Crossing Detection".

Purpose Represent modal logic in tabular format

Library Stateflow

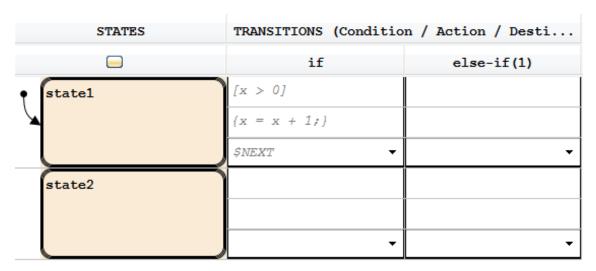


Description

Use this block when you want to represent modal logic in tabular format. The State Transition Table block uses only MATLAB as the action language.

State Transition Table Editor

If you double-click the State Transition Table block in sflib, the State Transition Table Editor shows the default layout of state-to-state transitions.



Using the State Transition Table Editor, you can:

- Add states and enter state actions
- Add hierarchy among your states
- Enter conditions and actions for state-to-state transitions
- Specify default transitions, inner transitions, and self-loop transitions
- Add input or output data and events
- Set breakpoints for debugging
- Run diagnostics to detect parser errors
- View auto-generated content as you edit the table

For more information about the State Transition Table Editor, see "State Transition Table Editor Operations" in the Stateflow documentation.

Adding Data and Events

You can add data and events from the State Transition Table Editor:

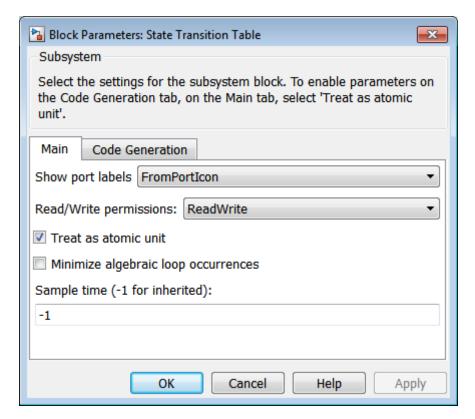
Element	Menu	Description
Inputs and outputs	Table > Add Inputs & Outputs > Data Input from Simulink	You can add inputs from the model and outputs to the model.
	Table > Add Inputs & Outputs > Data Output to Simulink	
Data	Table > Add Other Elements	You can add these types of data:
		• Local
		• Constant
		Parameter
		Data store memory

Element	Menu	Description
Input events	Table > Add Inputs & Outputs > Event Input from Simulink	An input event causes a State Transition Table block to execute when a Simulink control signal changes or through a Simulink block that outputs function-call events. You can use one of these input triggers: Rising edge Falling edge Either rising or falling edge Function call
Output	Table > Add Inputs & Outputs > Event Output to Simulink	A output event triggers a function call to a subsystem. You can use one of these output triggers: • Function call • Either rising or falling edge For more information, see "Create a Function-Call Subsystem" .

Data Type Support

The State Transition Table block accepts input signals of any data type that Simulink supports, including fixed-point and enumerated data types.

Parameters and Dialog Box



For a description of the block parameters, see the Subsystem block reference page.

Characteristics

Direct Feedthrough	Yes
Sample Time	Specified in the Sample time parameter
Scalar Expansion	N/A

Dimensionalized	Yes
Zero-Crossing Detection	Yes, if enabled for continuous-time systems For more information, see "When to Enable Zero-Crossing Detection".

Purpose

Represent logical decision-making behavior with conditions, decisions, and actions

Library

Stateflow



Description

The Truth Table block is a truth table function that uses MATLAB as the action language. Use this block when you want to use truth table logic directly in a Simulink model. This block requires a Stateflow license.

When you add a Truth Table block directly to a model instead of calling truth table functions from a Stateflow chart, these advantages apply:

- It is a more direct approach, especially if your model requires only a single truth table.
- You can define truth table inputs and outputs to have inherited types and sizes.

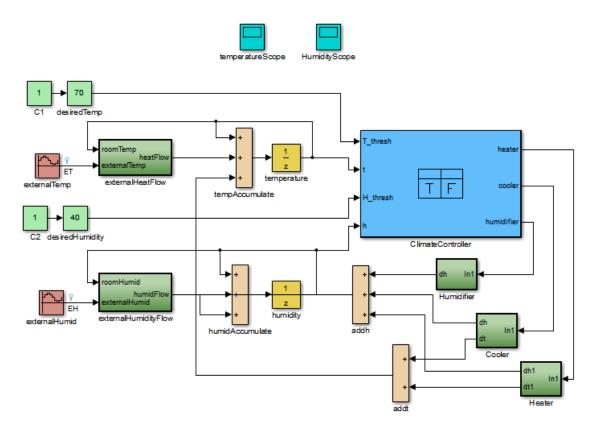
The Truth Table block works with a subset of the MATLAB language that is optimized for generating embeddable C code. This block generates content as MATLAB code. As a result, you can take advantage of other tools to debug your Truth Table block during simulation.

For purely logical behavior, truth tables are easier to program and maintain than graphical functions. Truth tables also provide diagnostics that indicate whether you have too few (underspecified) or too many (overspecified) decisions for the conditions you specify.

The following model, sf_climate_control, shows a home environment controller that attempts to maintain a selected temperature and humidity. The model has a Truth Table block, ClimateController,

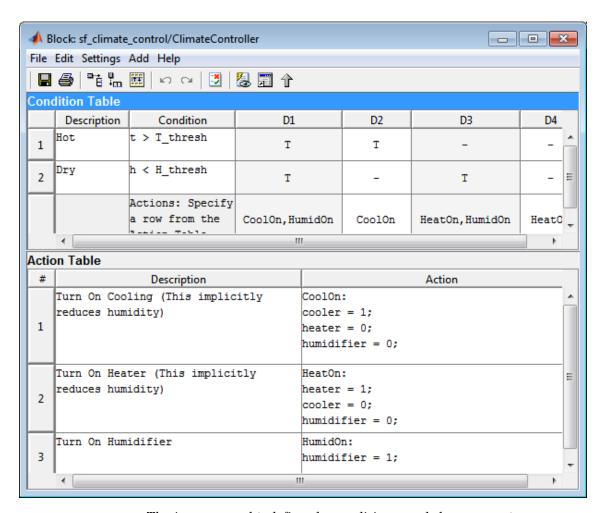
that responds to changes in room temperature (input t) and humidity (input h).

Home climate (temperature and humidity) controller using Truth Table



Truth Table Editor

If you double-click the Truth Table block in sf_climate_control, the Truth Table Editor opens to display its conditions, actions, and decisions. Here is the display for the Truth Table block named ClimateController.



The inputs t and h define the conditions, and the outputs heater, cooler, and humidifier define the actions for this Truth Table block.

Using the Truth Table Editor, you can:

• Enter and edit conditions, actions, and decisions

- Add or modify Stateflow data and ports using the Ports and Data Manager
- Run diagnostics to detect parser errors
- View generated content after simulation

For more information about the Truth Table Editor, see "Truth Table Editor Operations".

Ports and Data Manager

To add or edit data in a Truth Table block, open the Ports and Data Manager by selecting **Add > Edit Data/Ports** in the Truth Table Editor.

Using the Ports and Data Manager, you can add these elements to a Truth Table block.

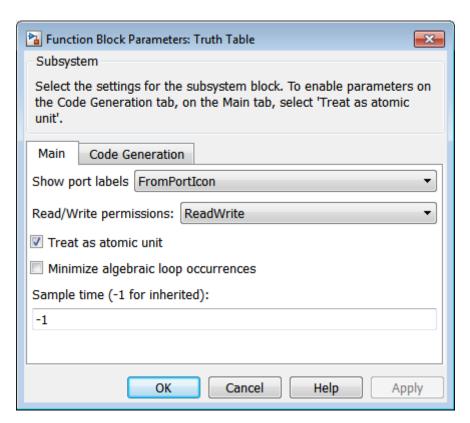
Element	Tool	Description
Data	101	You can add these types of data:
		• Local
		• Constant
		Parameter
		Data store memory
Input trigger	₽	An input trigger causes a Truth Table block to execute when a Simulink control signal changes or through a Simulink block that outputs function-call events. You can use one of these input triggers: Rising edge Falling edge Either rising or falling edge

Element	Tool	Description
		• Function call For more information, see "Define Events".
Function-call output	fx	A function-call output triggers a function call to a subsystem. For more information, see "Create a Function-Call Subsystem" in the Simulink documentation.

Data Type Support

The Truth Table block accepts signals of any data type that Simulink supports, including fixed-point and enumerated data types. The block also accepts frame-based signals. Truth Table blocks work with frame-based signals in the same way as MATLAB Function blocks (see "Add Frame-Based Signals" in the Simulink documentation).

For a discussion of data types that Simulink supports, refer to the Simulink documentation.



Parameters and Dialog Box

For a description of the block parameters, see the Subsystem block reference page in the Simulink documentation.

Characteristics

Direct Feedthrough	Yes
Sample Time	Specified in the Sample time parameter
Scalar Expansion	N/A

Dimensionalized	Yes
Zero-Crossing Detection	No

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