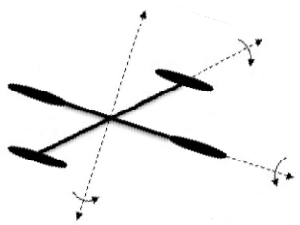
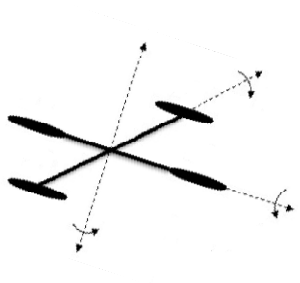
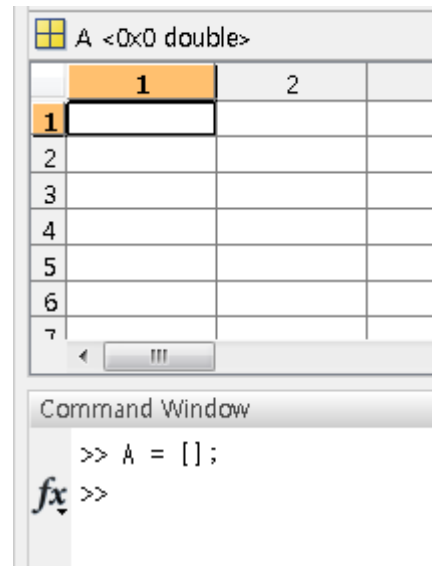

MATLAB

Simulink의 기초 2



- Structure 데이터 유형





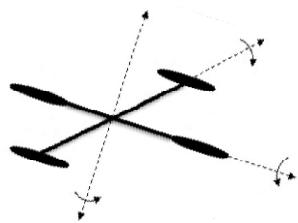
Variable Editor - A

A <1x1 struct>

Field	Value	Min	Max
name	'Test Structure'		
data	[1,2,3,4]	1	4
date	'10.03.17'		

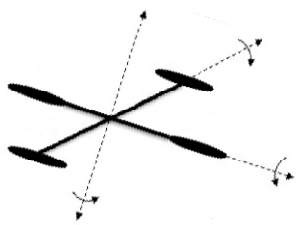
Command Window

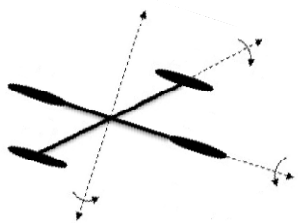
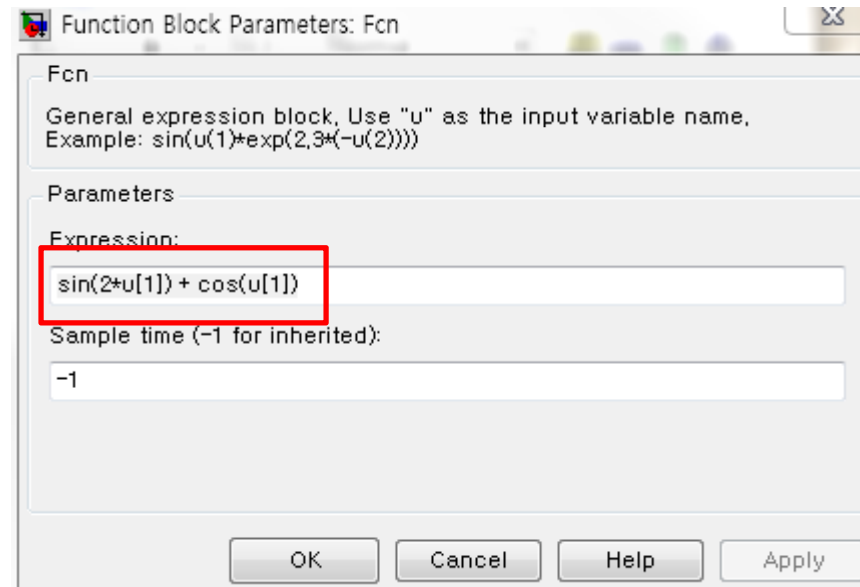
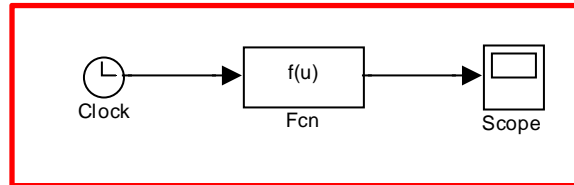
```
>> A = [];  
>> A.name = 'Test Structure';  
>> A.data = [1 2 3 4];  
>> A.date = '10.03.17';  
fx >> |
```

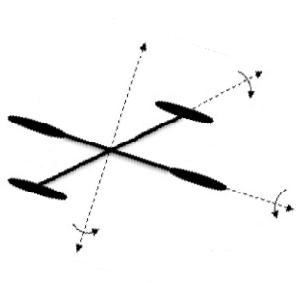
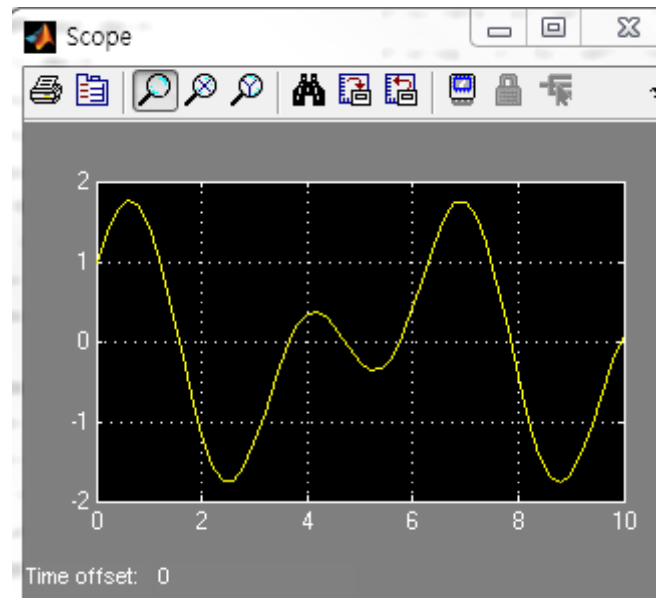


- Fcn 블록과 Gain 블록의 사용

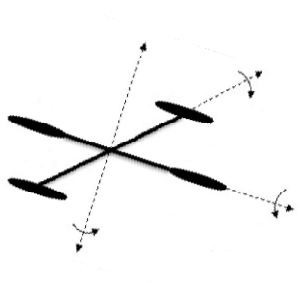
$$y = \sin(2x) + \cos x$$

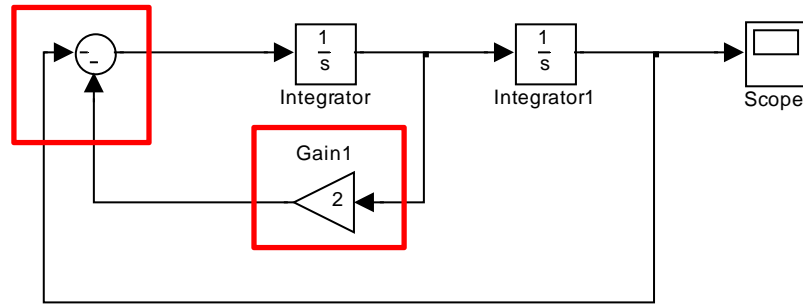






$$\ddot{x} = -2\dot{x} - x$$





List of output inputs, specify one of the following:
 a) string containing + or - for each input port, | for spacer between ports (e.g. +-|+)
 b) scalar, >= 1, specifies the number of input ports to be summed.
 When there is only one input port, add or subtract elements over all dimensions or one specified dimension

Main **Signal Attributes**

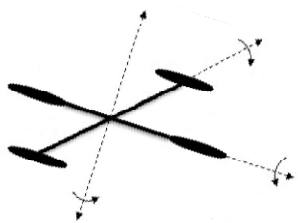
Icon shape: round

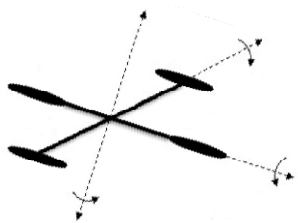
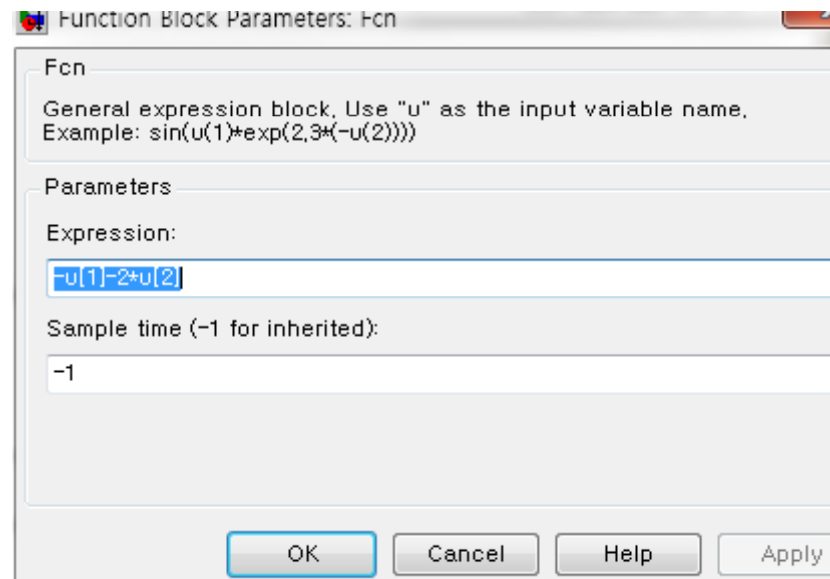
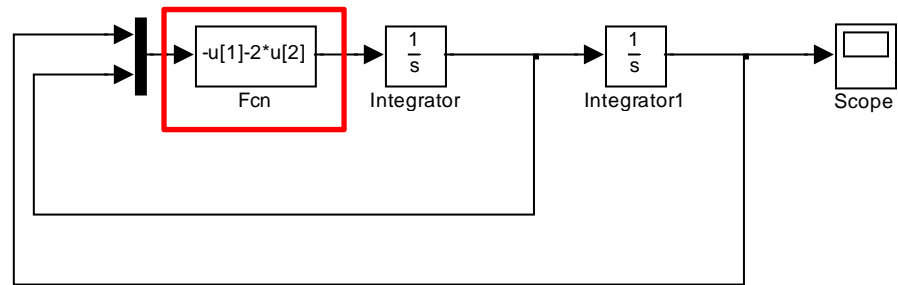
List of signs

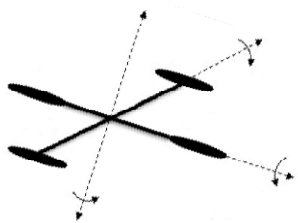
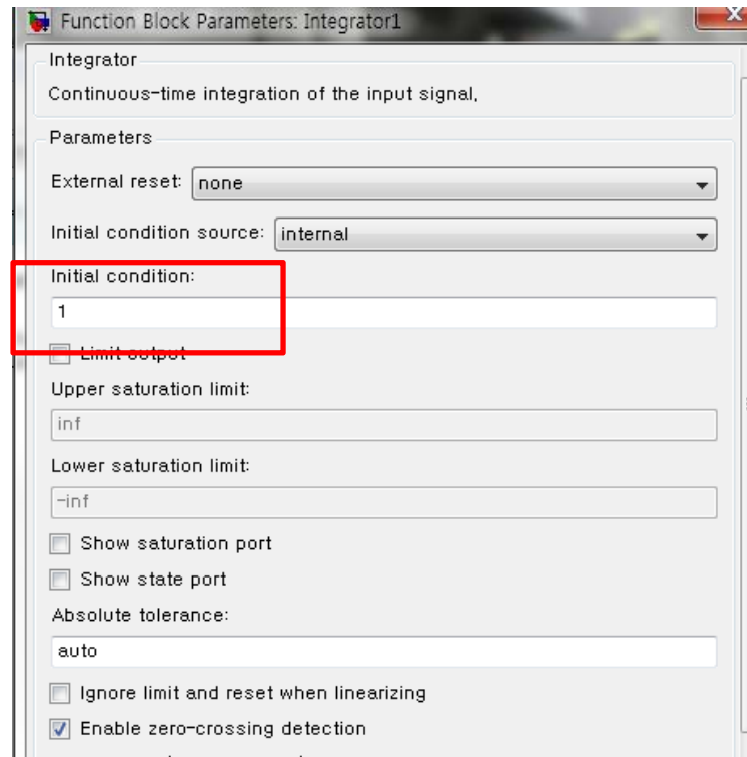
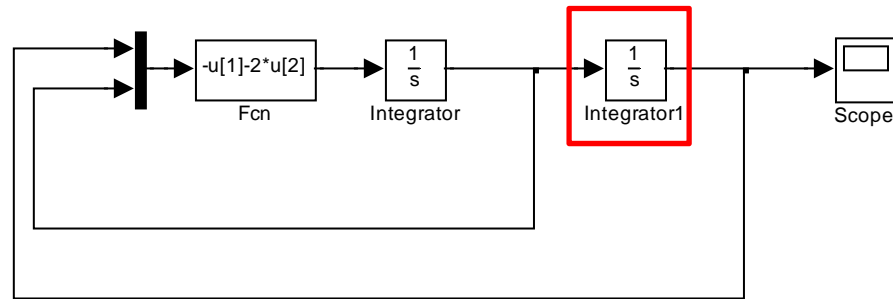
-

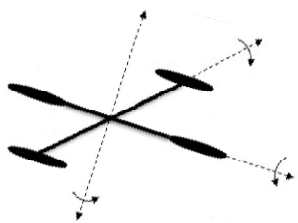
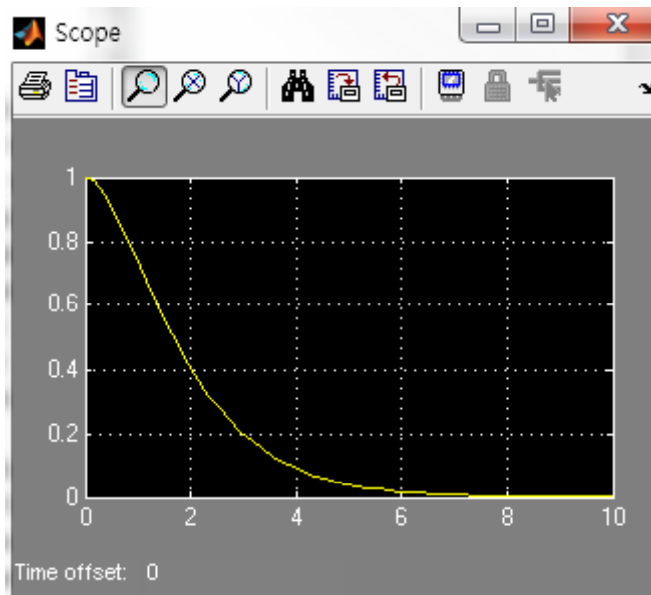
Sample time (-1 for inherited):

-1

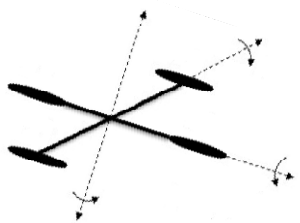
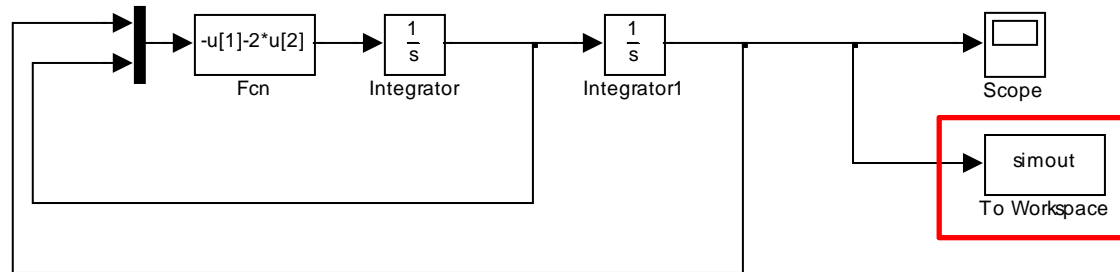








- Simulink 데이터의 workspace 저장





Sink Block Parameters: To Workspace

To Workspace

Write input to specified array or structure in a workspace. For menu based simulation, data is written in the MATLAB base workspace. Data is not available until the simulation is stopped or paused. For command line simulation using sim command, the workspace is specified using DstWorkspace field in the option structure.

Parameters

Variable name:
simout

Limit data points to last:
inf

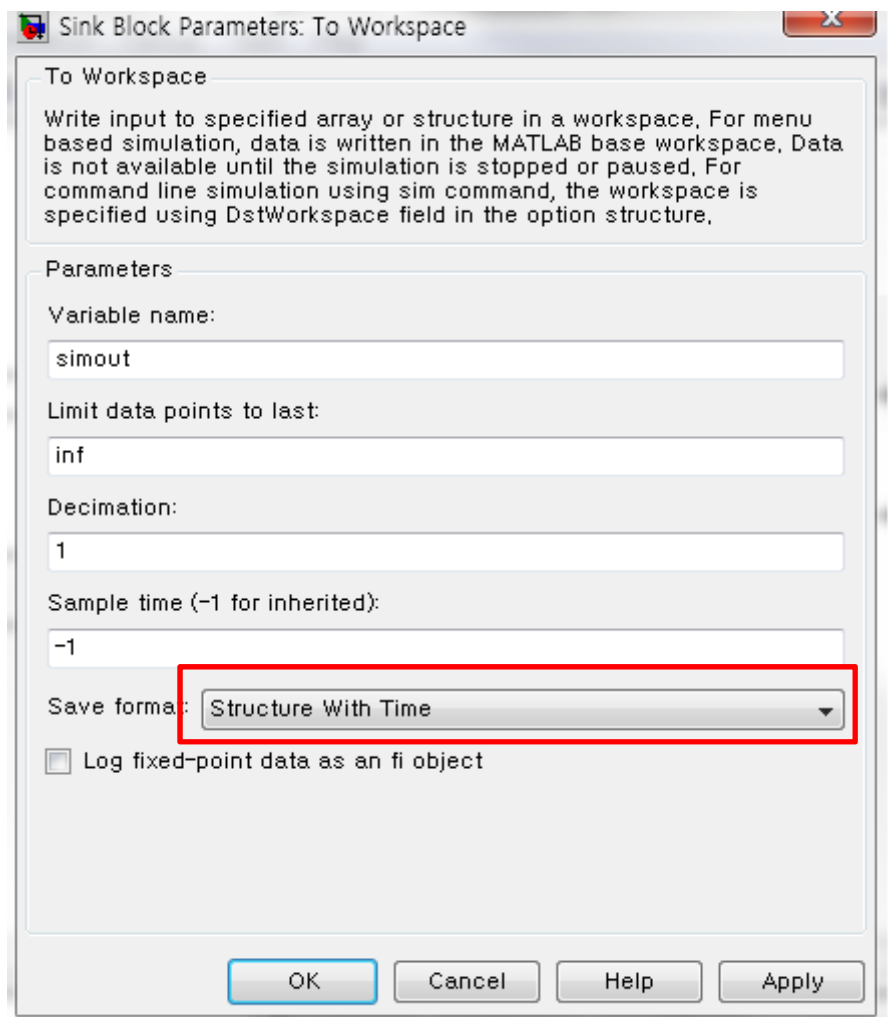
Decimation:
1

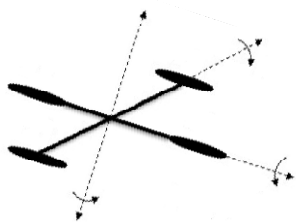
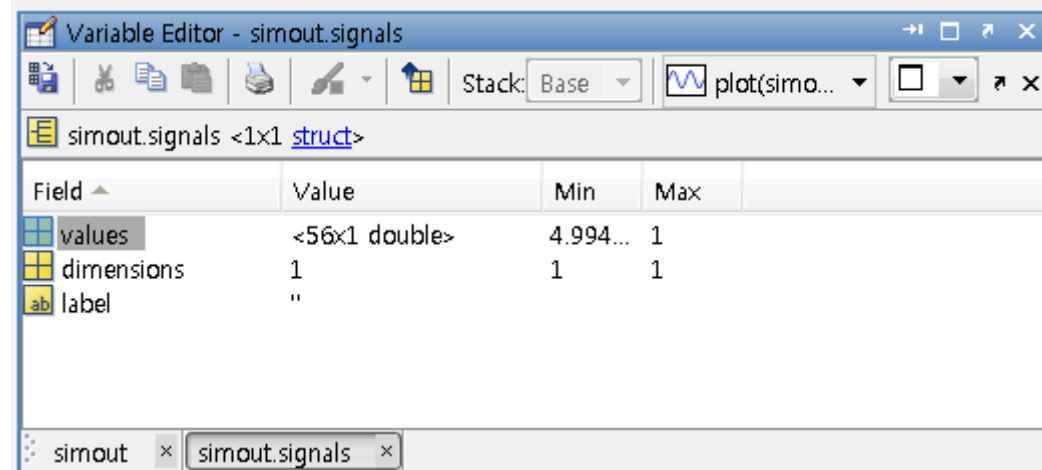
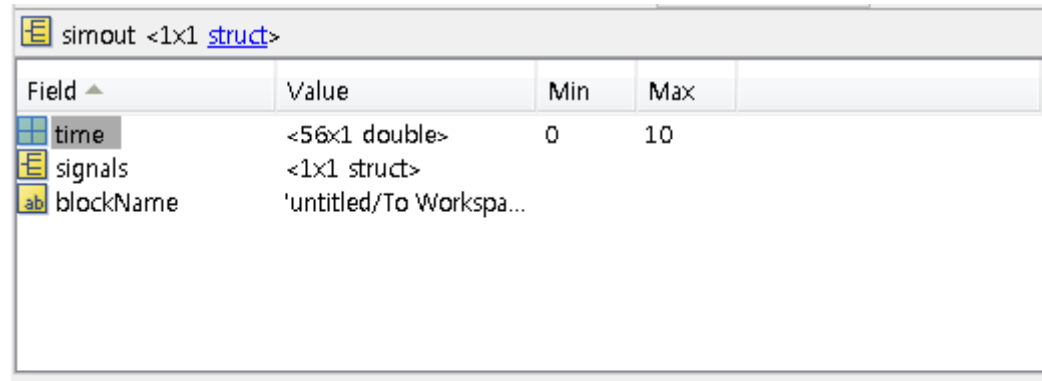
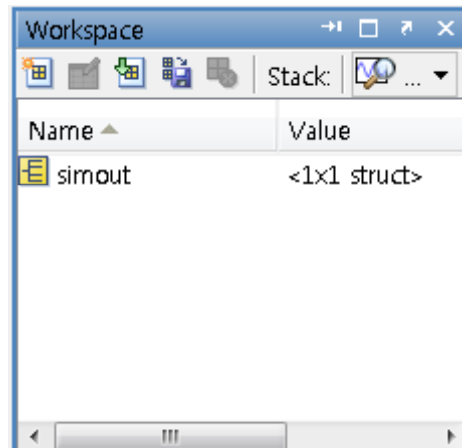
Sample time (-1 for inherited):
-1

Save format: Structure

Log fixed-point data as an fi object

OK Cancel Help Apply





```
>> plot(simout.time, simout.signals.values)
```

