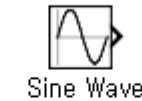
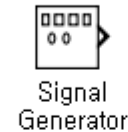
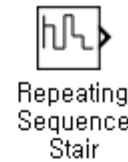
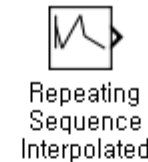
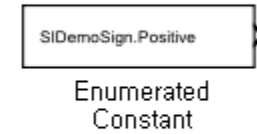


# Conditional Executed Subsystem(Enabled)

Innova Lee(이상훈)  
gcccompil3r@gmail.com

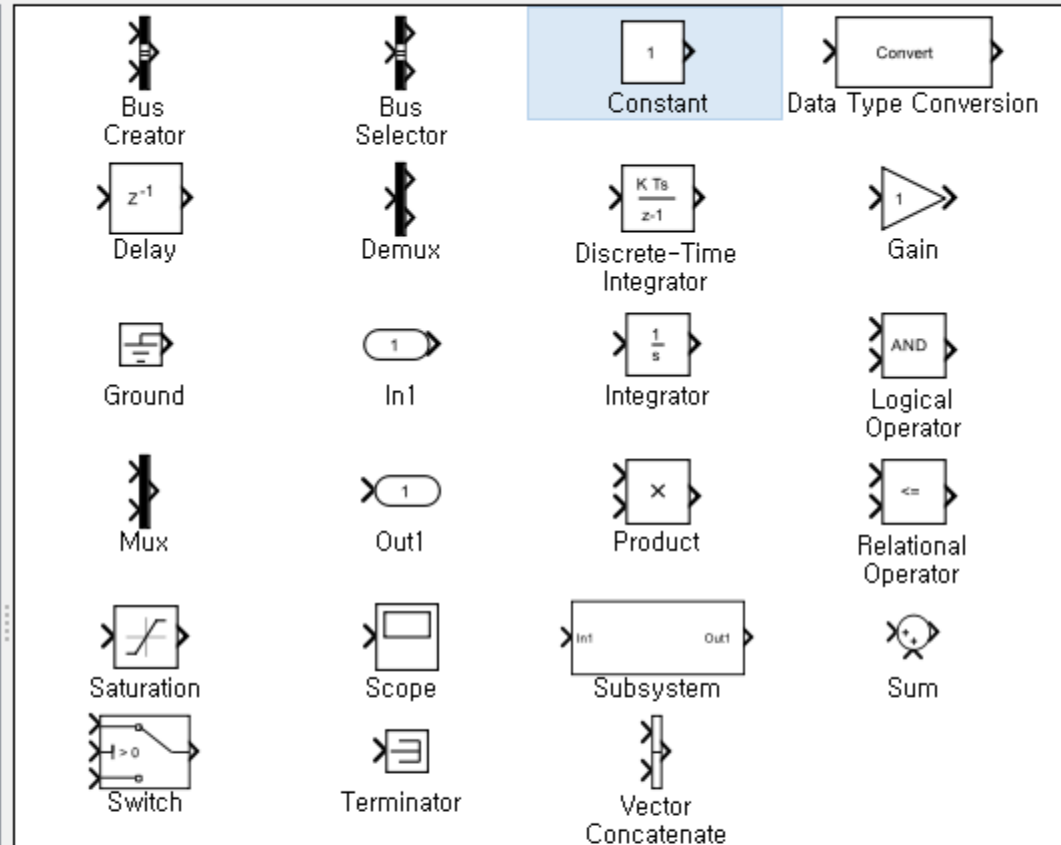
## Simulink/Sources

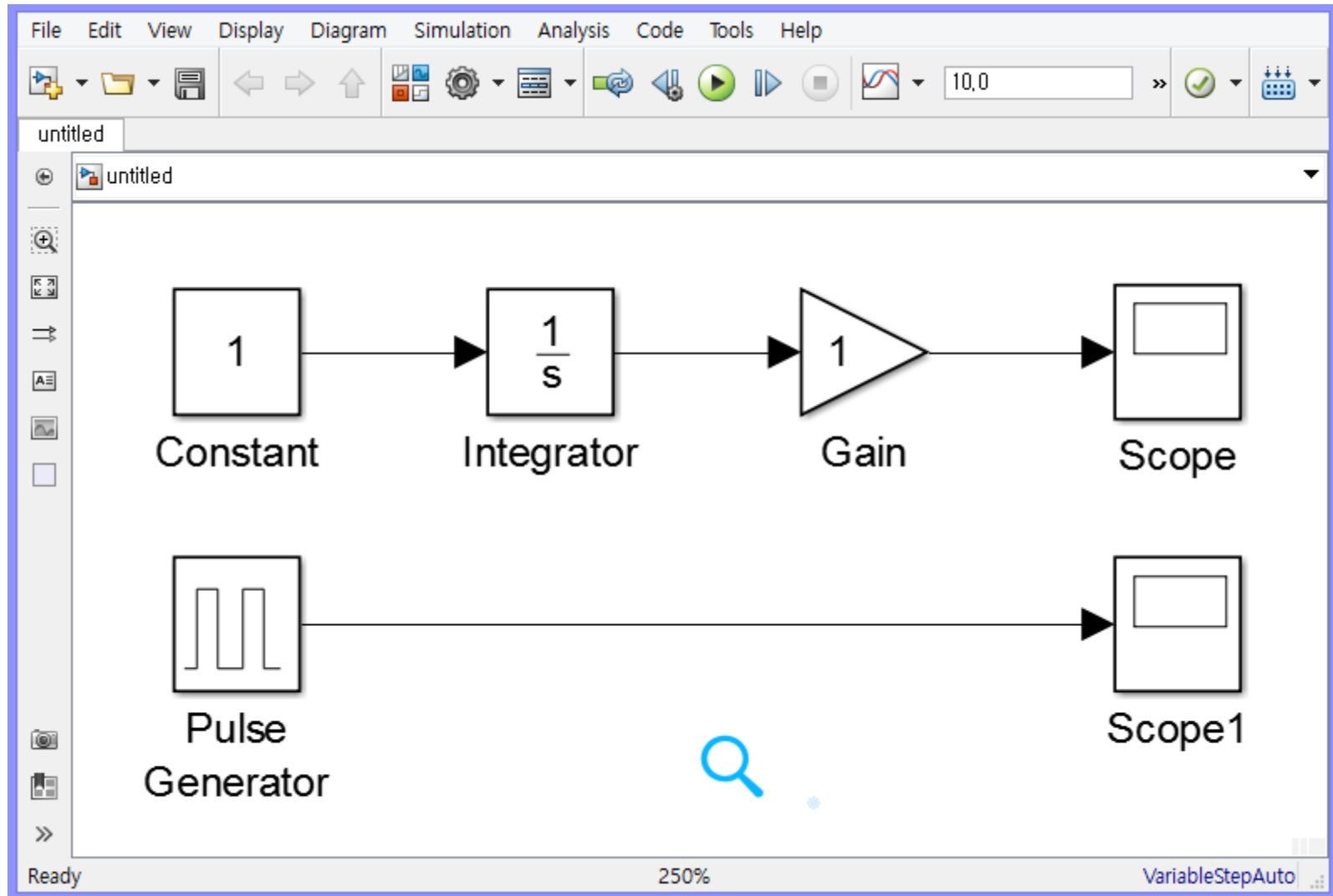
- Simulink
  - Commonly Used Blocks
  - Continuous
  - Dashboard
  - Discontinuities
  - Discrete
  - Logic and Bit Operations
  - Lookup Tables
  - Math Operations
  - Model Verification
  - Model-Wide Utilities
  - Ports & Subsystems
  - Signal Attributes
  - Signal Routing
  - Sinks
  - Sources
  - User-Defined Functions
  - Additional Math & Discrete
- Aerospace Blockset
  - Actuators
  - Aerodynamics
  - Animation
  - Environment
  - Equations of Motion
  - Flight Parameters
  - Flight Instruments
  - GNC
  - Mass Properties
  - Pilot Models
  - Propulsion
  - Utilities
- Audio System Toolbox
  - Dynamic Range Control
  - Effects
  - Filters
  - Sinks
  - Sources
- Communications System Toolbox
  - Channels
  - Comm Filters
  - Comm Sinks
  - Comm Sources
  - Equalizers

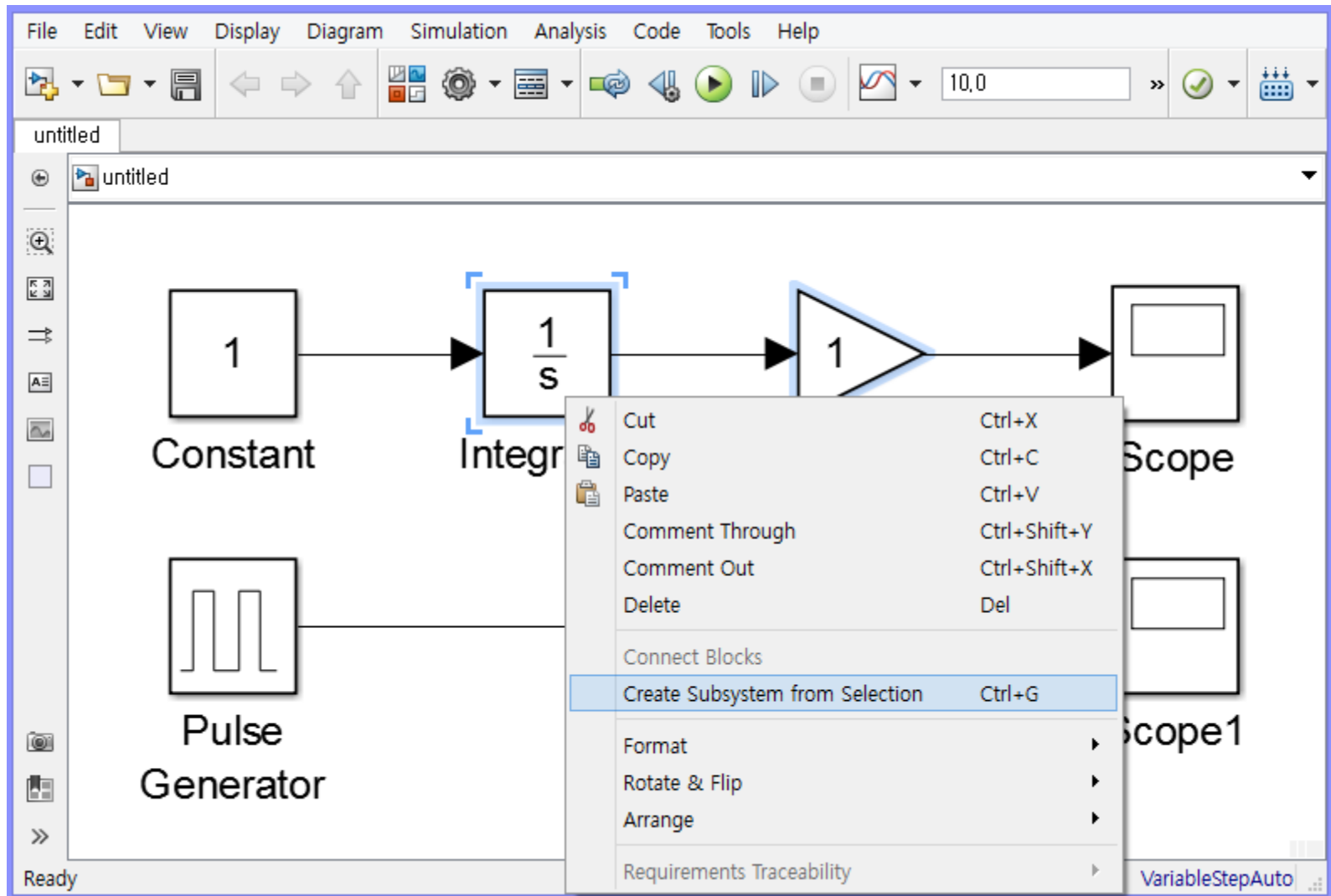


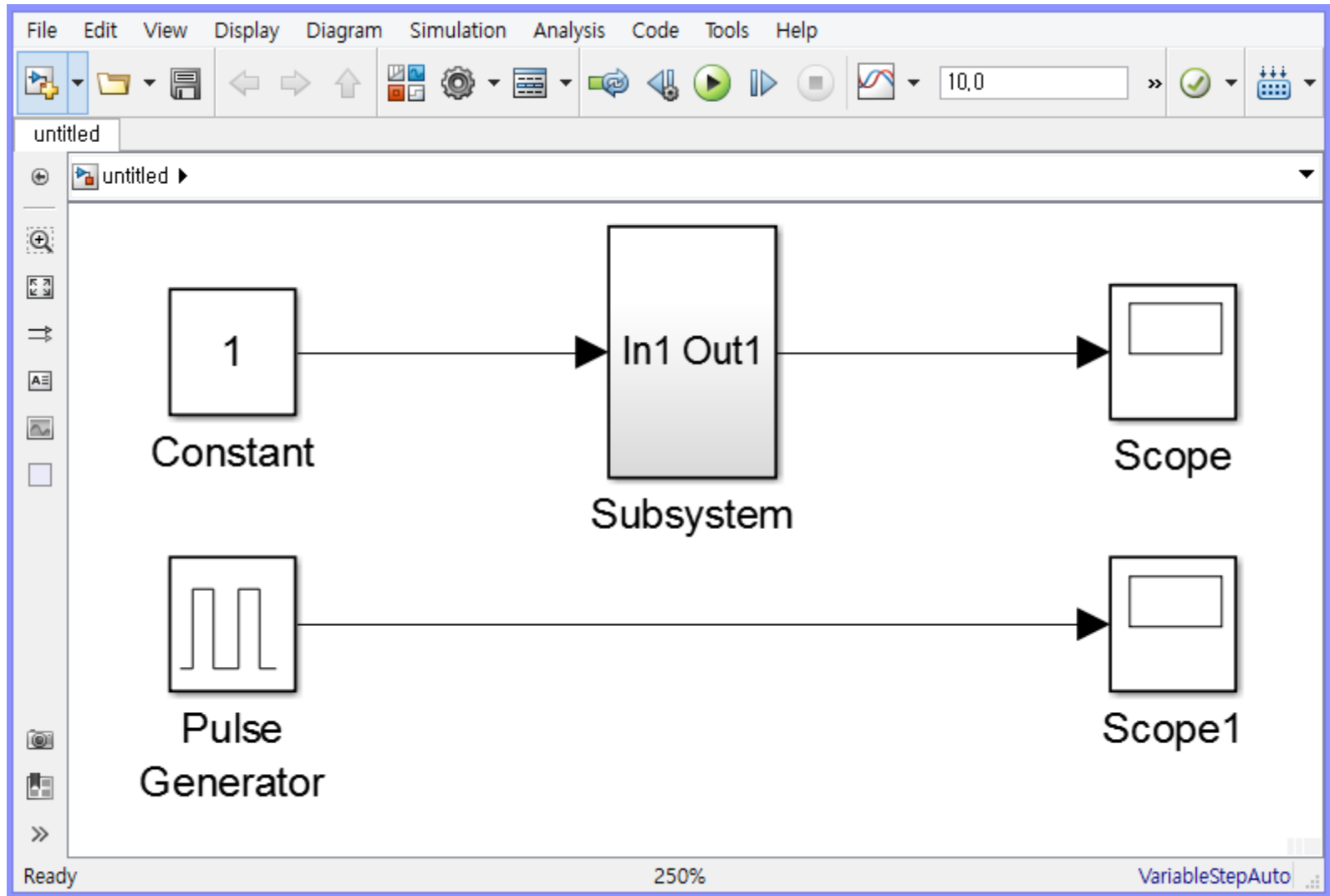
## Simulink/Commonly Used Blocks

- Simulink
  - Commonly Used Blocks
  - Continuous
  - Dashboard
  - Discontinuities
  - Discrete
  - Logic and Bit Operations
  - Lookup Tables
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  - Sinks
  - Sources
- Communications System Toolb
  - Channels
  - Comm Filters
  - Comm Sinks
  - Comm Sources
  - Equalizers









## Simulink/Ports & Subsystems

### Simulink

- Commonly Used Blocks
- Continuous
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- Discontinuities
- Discrete
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- Math Operations
- Model Verification
- Model-Wide Utilities
- Ports & Subsystems
- Signal Attributes
- Signal Routing
- Sinks
- Sources
- User-Defined Functions

### Additional Math & Discrete

### Aerospace Blockset

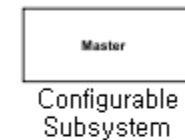
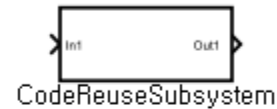
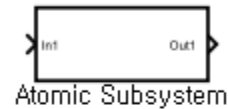
- Actuators
- Aerodynamics
- Animation
- Environment
- Equations of Motion
- Flight Parameters
- Flight Instruments
- GNC
- Mass Properties
- Pilot Models
- Propulsion
- Utilities

### Audio System Toolbox

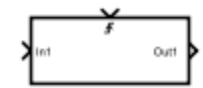
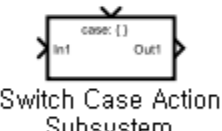
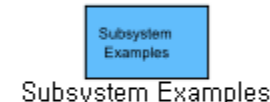
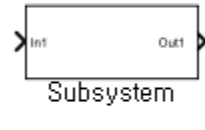
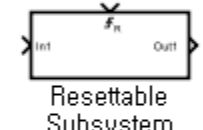
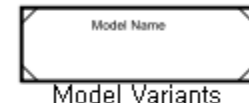
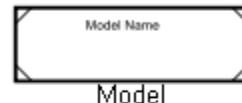
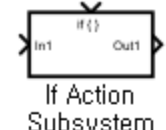
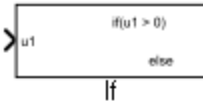
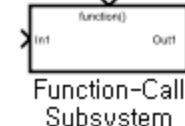
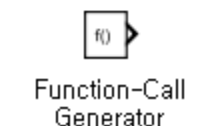
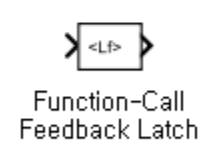
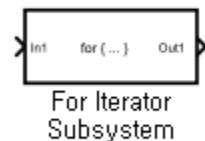
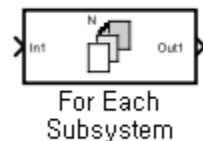
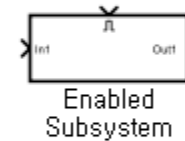
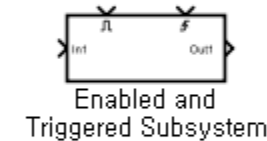
- Dynamic Range Control
- Effects
- Filters
- Sinks
- Sources

### Communications System Tool

- Channels
- Comm Filters
- Comm Sinks
- Comm Sources
- Equalizers



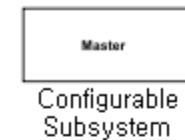
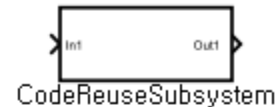
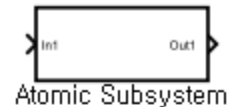
Enable



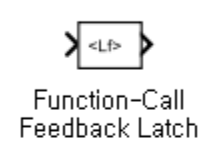
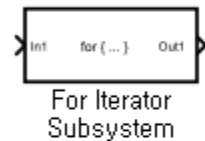
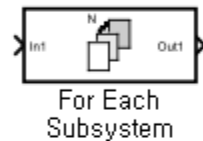
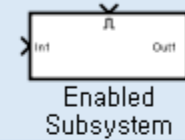
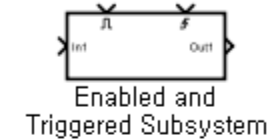
## Simulink/Ports & Subsystems

### Simulink

- Commonly Used Blocks
- Continuous
- Dashboard
- Discontinuities
- Discrete
- Logic and Bit Operations
- Lookup Tables
- Math Operations
- Model Verification
- Model-Wide Utilities
- Ports & Subsystems
- Signal Attributes
- Signal Routing
- Sinks
- Sources
- User-Defined Functions
- ▶ Additional Math & Discrete
- ▶ Aerospace Blockset
  - Actuators
  - Aerodynamics
  - ▶ Animation
  - ▶ Environment
  - ▶ Equations of Motion
  - Flight Parameters
  - Flight Instruments
  - ▶ GNC
  - Mass Properties
  - Pilot Models
  - Propulsion
  - Utilities
- ▶ Audio System Toolbox
  - Dynamic Range Control
  - Effects
  - Filters
  - Sinks
  - Sources
- ▶ Communications System Toolt
  - Channels
  - Comm Filters
  - Comm Sinks
  - ▶ Comm Sources
  - Equalizers



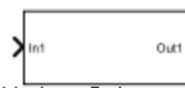
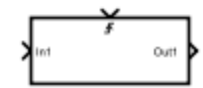
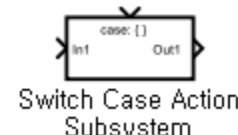
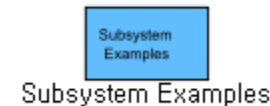
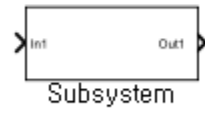
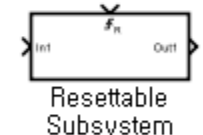
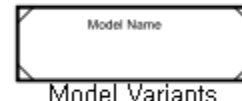
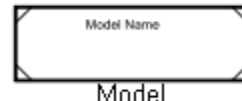
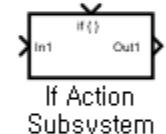
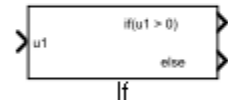
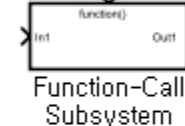
Enable



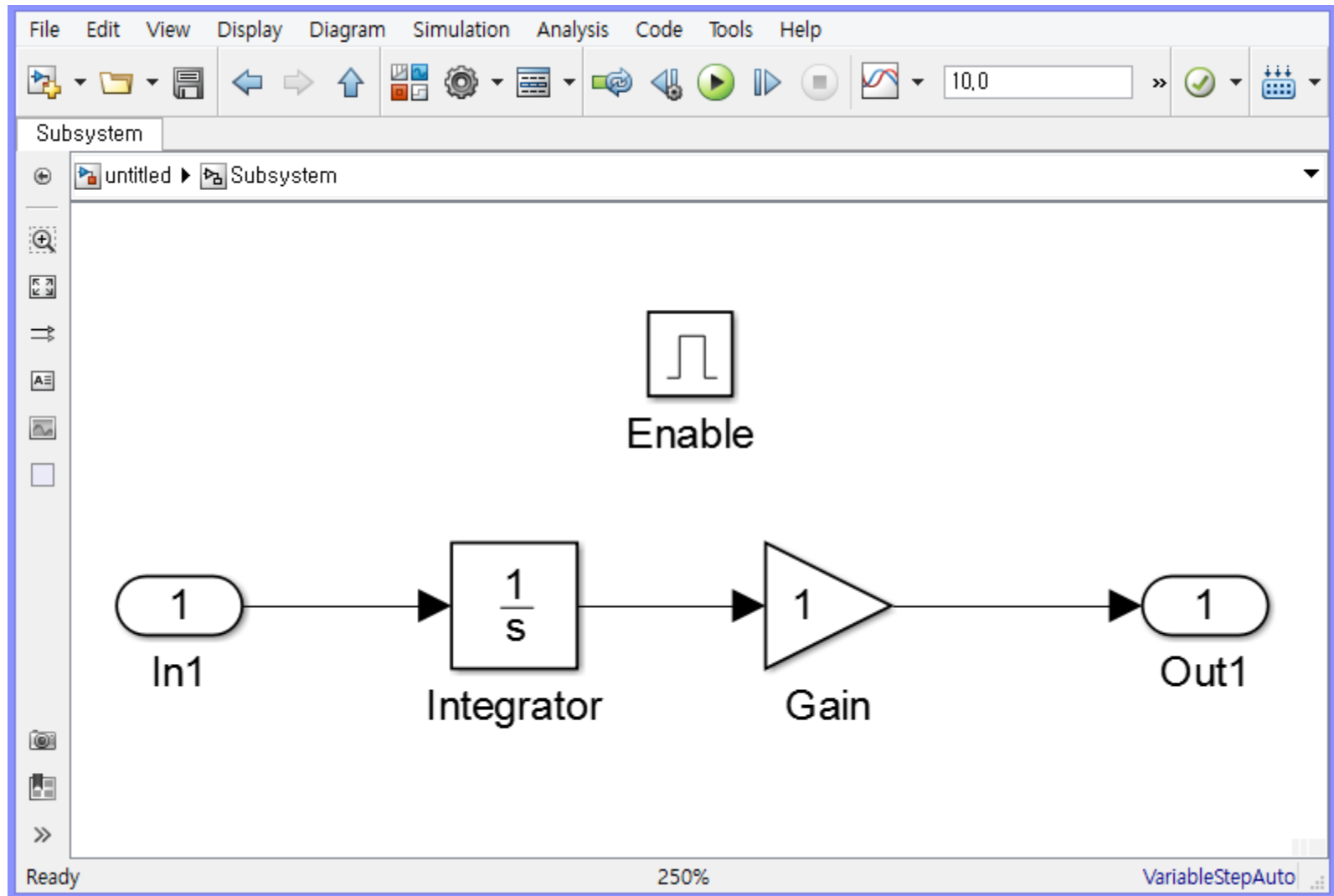
Function-Call Generator

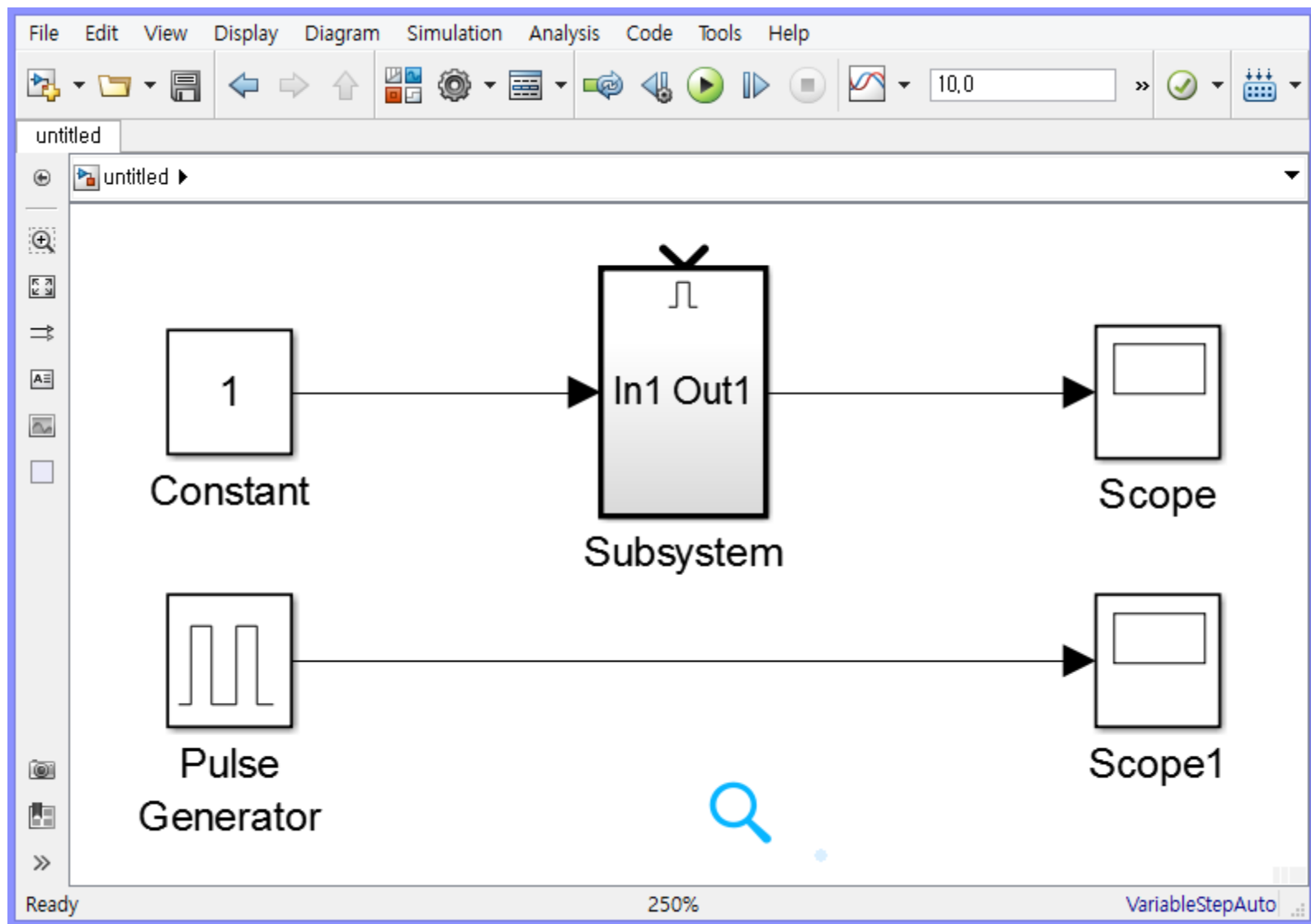


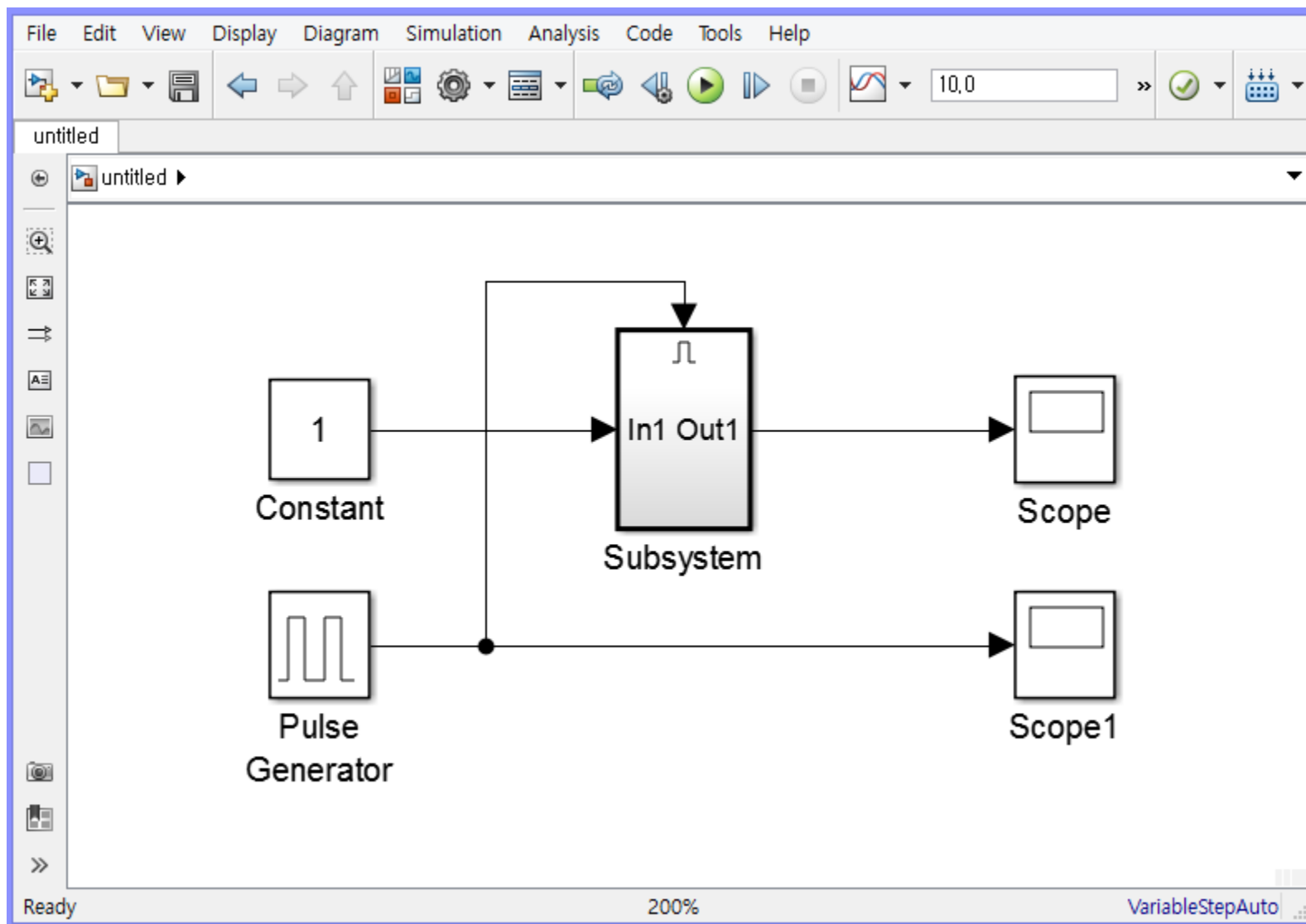
Function-Call Split









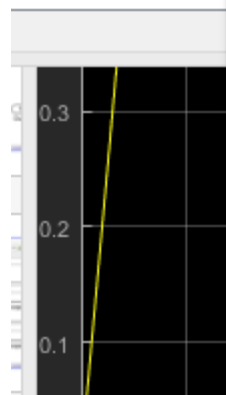




Constant



Pulse  
Generato



Block Parameters: Pulse Generator

Pulse Generator

Output pulses:  
  
if (t >= PhaseDelay) && Pulse is on  
    Y(t) = Amplitude  
else  
    Y(t) = 0  
end  
  
Pulse type determines the computational technique used.  
  
Time-based is recommended for use with a variable step solver,  
while Sample-based is recommended for use with a fixed step solver  
or within a discrete portion of a model using a variable step solver.

Parameters

Pulse type: Time based

Time (t): Use simulation time

Amplitude:  
1

Period (secs):  
2

Pulse Width (% of period):  
50

Phase delay (secs):  
0

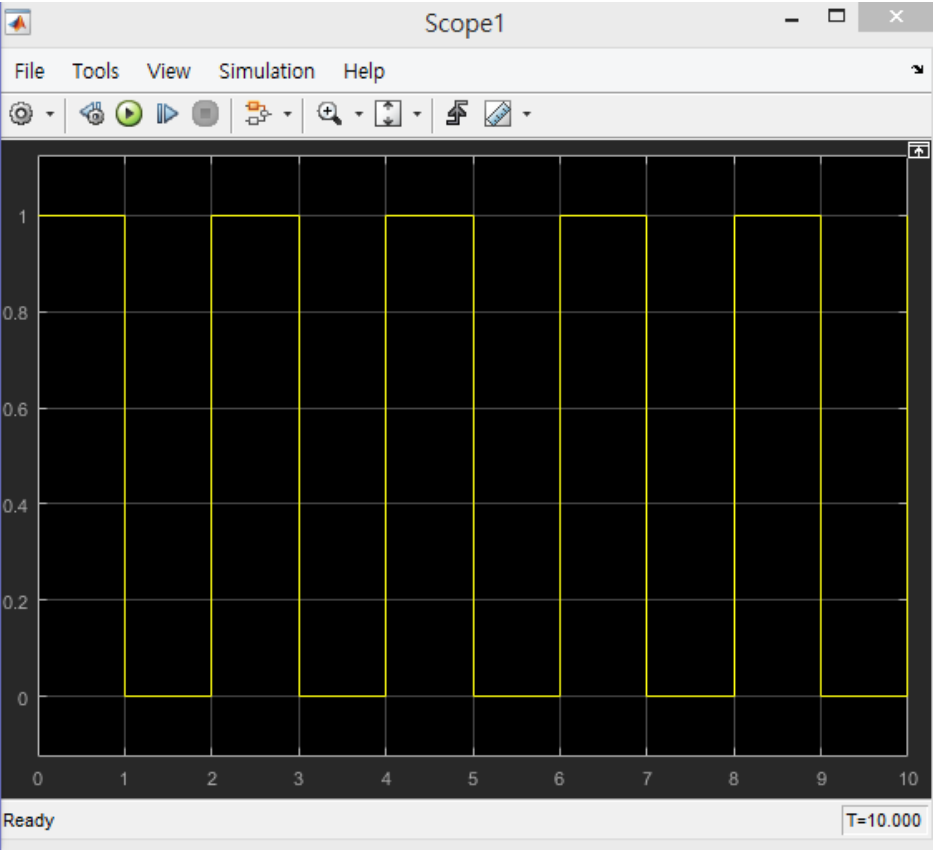
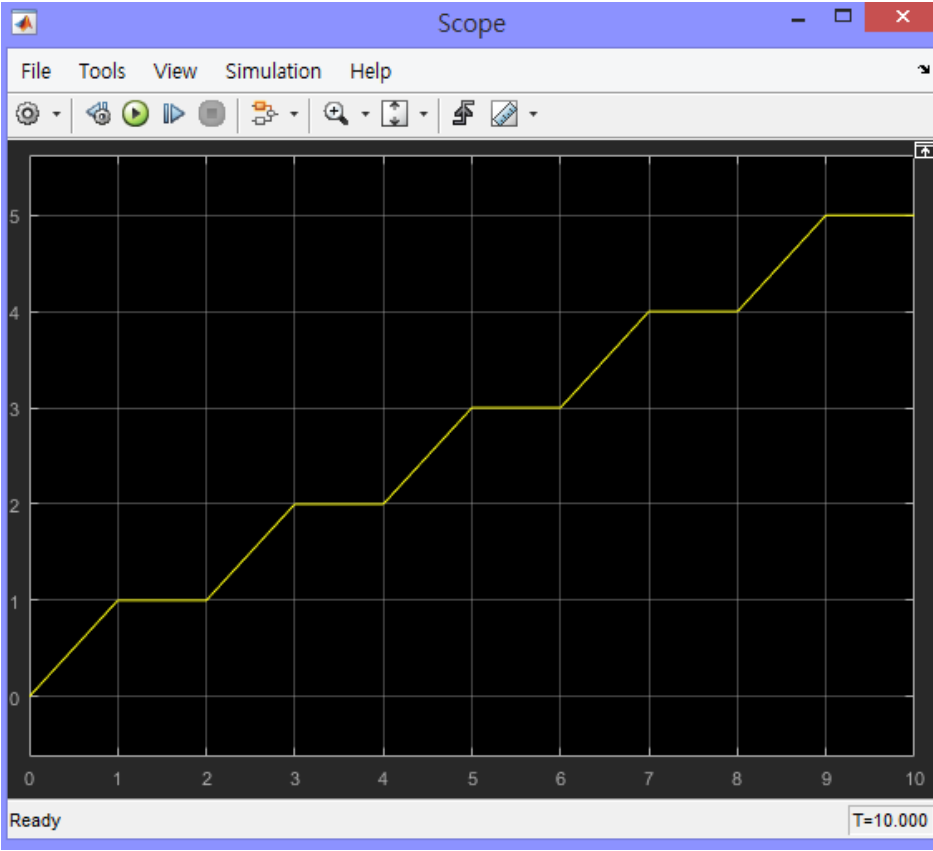
☒ Interpret vector parameters as 1-D

OK

Cancel

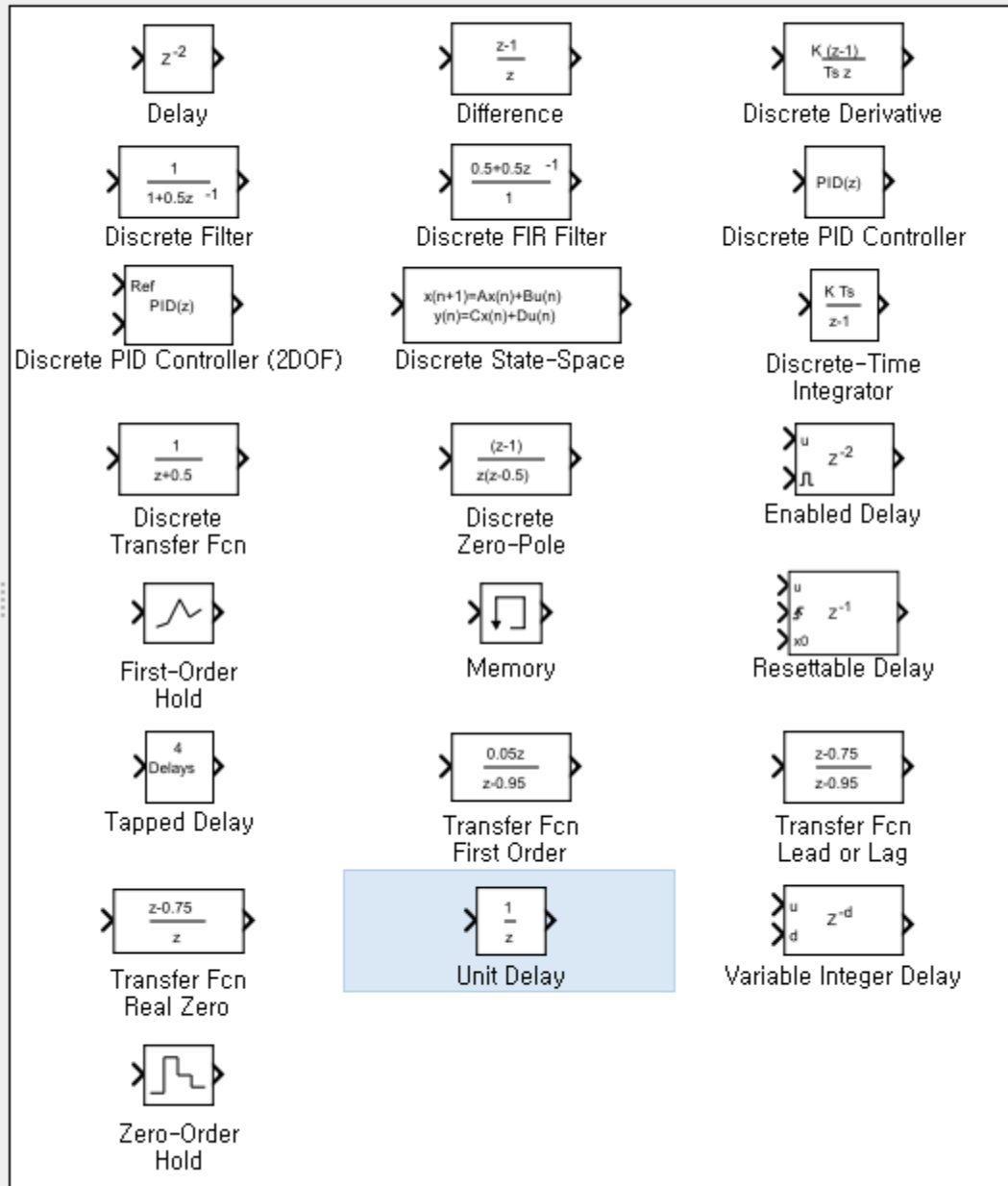
Help

Apply



## Simulink/Discrete

- Simulink
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  - Comm Sinks
  - Comm Sources
  - Equalizers

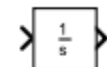


## Simulink/Continuous

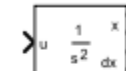
- Simulink
  - Commonly Used Blocks
  - Continuous
  - Dashboard
  - Discontinuities
  - Discrete
  - Logic and Bit Operations
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  - Model Verification
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  - Sources
  - User-Defined Functions
  - Additional Math & Discrete
    - Additional Discrete
    - Additional Math: Increme
- Aerospace Blockset
  - Actuators
  - Aerodynamics
  - Animation
  - Environment
  - Equations of Motion
  - Flight Parameters
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  - Filters
  - Sinks
  - Sources
- Communications System Toolb
  - Channels
  - Comm Filters
  - Comm Sinks



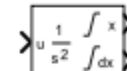
Derivative



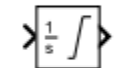
Integrator



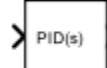
Integrator,  
Second-Order



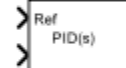
Integrator,  
Second-Order  
Limited



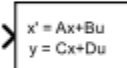
Integrator  
Limited



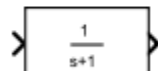
PID Controller



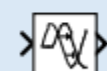
PID Controller (2DOF)



State-Space



Transfer Fcn



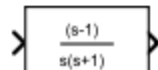
Transport  
Delay



Variable  
Time Delay



Variable  
Transport Delay



Zero-Pole

