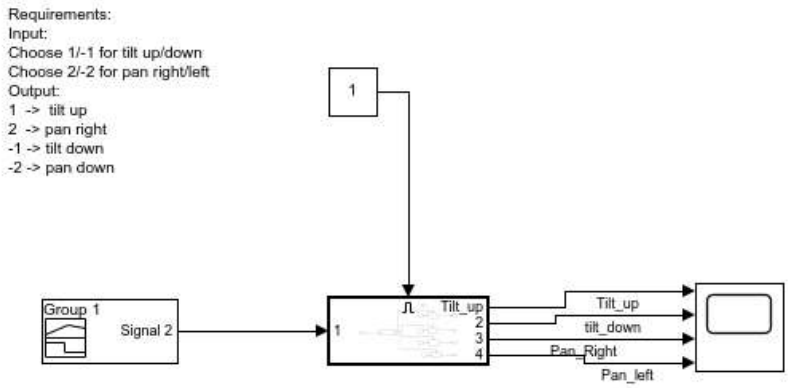
MirrorSubsystemrepo



training

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Model - MirrorSubsystemrepo

Full Model Hierarchy

1. MirrorSubsystemrepo
    1. Enabled Subsystem
        1. If Action Subsystem

2. If Action Subsystem1
3. If Action Subsystem2
4. If Action Subsystem3

Simulation Parameter	Value
Solver	VariableStepAuto
RelTol	1e-3
Refine	1
MaxOrder	5
ZeroCross	on

[more info]

System - MirrorSubsystemrepo

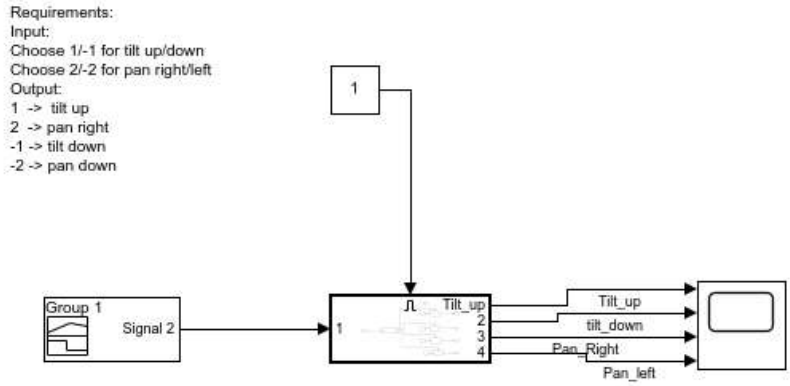

Table 1. Constant Block Properties

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
Constant	1	Inherit: Inherit from 'Constant value'	off	inf	inf

Table 2. Sigbuilder block Block Properties

Name
Signal Builder

System - MirrorSubsystemrepo/Enabled Subsystem

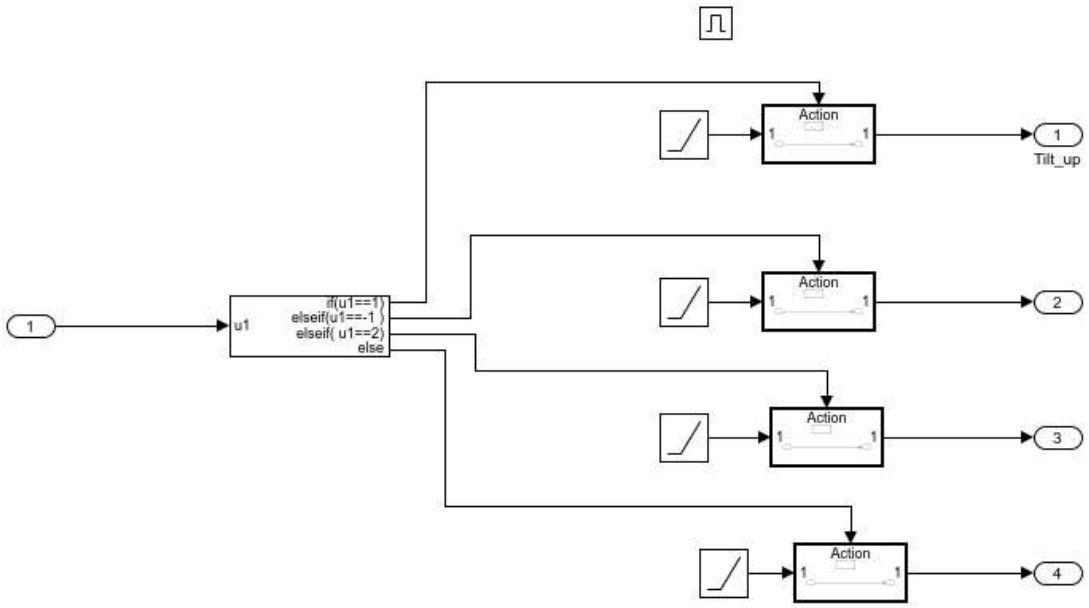

Table 3. EnablePort Block Properties

Name	States When Enabling	Propagate Var Size	Show Output Port	Zero Cross	Port Dimensions	Out Data Type Str	Interpolate
Enable	held	Only when enabling	off	on	1	double	on

Table 4. If Block Properties

Name	Num Inputs	If Expression	Else If Expressions	Show Else	Zero Cross
If	1	u1==1	u1==-1 , u1==2	on	on

Table 5. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Demux

Table 6. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value	Vector Params As 1DFor Out When Unconnected	Used By Blk
Out2	2	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope
Out3	3	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope
Out4	4	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope
Tilt_up	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope

Table 7. Ramp Block Properties

Name	Slope	Start	Initial Output
Ramp	0	1	0
Ramp1	0	-1	0
Ramp2	0	0	2
Ramp3	0	0	-2

System - MirrorSubsystemrepo/Enabled Subsystem/If Action Subsystem

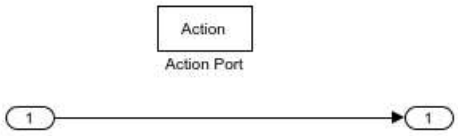

Table 8. ActionPort Block Properties

Name	Initialize States	Propagate Var Size
Action Port	held	Only when execution is resumed

Table 9. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Output

Table 10. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value	Vector Params As 1DFor Out When Unconnected	Used By Blk
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope

System - MirrorSubsystemrepo/Enabled Subsystem/If Action Subsystem1

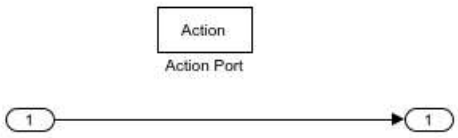

Table 11. ActionPort Block Properties

Name	Initialize States	Propagate Var Size
Action Port	held	Only when execution is resumed

Table 12. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Output

Table 13. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value	Vector Params As 1DFor Out When Unconnected	Used By Blk
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope

System - MirrorSubsystemrepo/Enabled Subsystem/If Action Subsystem2

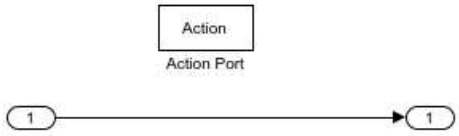

Table 14. ActionPort Block Properties

Name	Initialize States	Propagate Var Size
Action Port	held	Only when execution is resumed

Table 15. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Output

Table 16. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value	Vector Params As 1DFor Out When Unconnected	Used By Blk
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope

System - MirrorSubsystemrepo/Enabled Subsystem/If Action Subsystem3

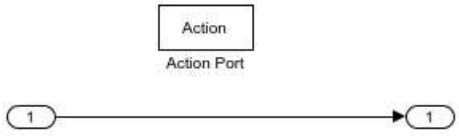

Table 17. ActionPort Block Properties

Name	Initialize States	Propagate Var Size
Action Port	held	Only when execution is resumed

Table 18. Inport Block Properties

Name	Port	Defined In Blk
In1	1	Output

Table 19. Outport Block Properties

Name	Port	Storage Class	Icon Display	Lock Scale	Unit	Var Size Sig	Signal Type	Ensure Outport Is Virtual	Source Of Initial Output Value	Output When Disabled	Must Resolve To Signal Object	Output When Un Connected	Output When Unconnected Value	Vector Params As 1DFor Out When Unconnected	Used By Blk
Out1	1	Auto	Port number	off	inherit	Inherit	auto	off	Dialog	held	off	off	0	on	Scope

Appendix

Table 20. Block Type Count

BlockType	Count	Block Names
Outport	8	Out1, Out1, Out1, Out1, Out2, Out3, Out4, Tilt_up
SubSystem	5	Enabled Subsystem, If Action Subsystem, If Action Subsystem1, If Action Subsystem2, If Action Subsystem3
Inport	5	In1, In1, In1, In1, In1

BlockType	Count	Block Names
Ramp (m)	4	Ramp, Ramp1, Ramp2, Ramp3
ActionPort	4	Action Port, Action Port, Action Port, Action Port
Sigbuilder block (m)	1	Signal Builder
Scope	1	Scope
If	1	If
EnablePort	1	Enable
Constant	1	Constant

Table 21. Model Functions

Function Name	Parent Blocks	Calling character vector
start	Ramp Ramp1 Ramp2 Ramp3	`start` `start` `start` `start`