Model Advisor Report - model.slx

Simulink version: 10.5
System: model

Model version: 1.4
Current run: 25-Mar-2022 16:41:20

Run Summary

Incomplete	Failed	Warning	Justified	Passed	Not Run	Total
0	0	7	0	35	17	59

By Task

1 Modeling Physical Systems

0 0 0 0 1 1

Check consistency of block parameter units

Identify Simscape blocks with ambiguous setting of parameter units. For example, a block parameter expected in 'Hz' may be specified in the dialog with unit of 'rad/s'. Such settings could lead to unexpected conversion factors applied to the numerical value.

Passed
No Simscape blocks with ambiguous unit setting found in the model.

Check for dry hydraulic nodes

Not Run

2 Replacing Blocks That Will Be Removed

0 0 0 0 1 0

Identify Environment Controller blocks to be replaced with Variant Source blocks

Passed
The model does not contain any Environment Controller blocks.

3 Simulation Accuracy

0 0 0 0 1 0

Check for non-continuous signals driving derivative ports

Passed

4 Simulation Runtime Accuracy Diagnostics

0 0 0 0 2 0

Runtime diagnostics for S-functions

Passed

Check if Read/Write diagnostics are enabled for Data Store blocks

Passed

5 Managing Data Store Memory Blocks

0 0 1 0 0 3

Check Data Store Memory blocks for multitasking, strong typing, and shadowing issues

Duplicate data store names checking is not set to 'error'. Duplicate usage of data store names can lead to unintended shadowing of data stores of higher model scope. Consider changing the Duplicate data store names setting to 'error'.

Check data store block sample times for modeling errors

Not Run

Check for potential ordering issues involving data store access

Not Run

Check for relative execution order change for Data Store Read and Data Store Write blocks

Not Run

6 Simulink Model File Integrity 0 0 0 0 1 0

Check Model History properties

Check models for edited Model History property values
Check that parameters in the Model Properties dialog History pane use the default tags. In the MDL file format you can configure some model properties to make use of source control tool keyword substitution. If you save your model in SLX format, source control tools cannot perform keyword substitution. Any information in the model file from such keyword substitution is cached when you first save the MDL file as SLX, and is never updated again. The Model Properties History pane and any Model Info blocks in your model show stale information from then on.

Passed
This model uses the default value for property ModifiedByFormat.

Passed
This model uses the default value for property ModifiedDateFormat.

Passed
This model uses the default value for property ModelVersionFormat.

7 S-function Checks 0 0 0 0 1 0

Check S-functions in the model

There are no user-defined S-functions in the model.

8 Units Inconsistencies 0 0 0 0 5 0

Identify unit mismatches in the model

Check for unit mismatches in the model.

Passed
No unit mismatches found.

Identify automatic unit conversions in the model

Check for automatic unit conversions.

Passed
No automatic unit conversions found.

Identify disallowed unit systems in the model

Check for disallowed unit systems.

Passed
No disallowed unit systems were found.

Identify undefined units in the model

Check for undefined units.

Passed
No undefined units were found.

Identify ambiguous units in the model

Check for ambiguous units.

Passed
No ambiguous units were found.

9 Modeling Signals and Parameters using Buses 0 0 0 0 1 2

Check for optimal bus virtuality

Passed

Check structure parameter usage with bus signals

Not Run

Check bus signals treated as vectors

Not Run

10 Modeling Single-Precision Systems 0 0 1 0 0 0

Identify questionable operations for strict single-precision design

Check model settings related to single-precision design
This check verifies the status of model settings that will help you achieve a strict single-precision design.

Passed
No questionable model settings were found.

Check for double precision operations
This check identifies blocks that introduce double-precision operations. For each block that the check identifies, make sure that its port data types and intermediate settings are set correctly.

Warning
The following blocks use double-precision floating-point operations:

- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/K1 model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/K1 model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/Integ4 model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/Integ4 model/Subsystem/RMS/RMS
- model/Subsystem/RMS/TrueRMS /Mean value/Model/K1 model/Subsystem/RMS/TrueRMS
- model/Subsystem/RMS/TrueRMS /Mean value/Model/Integ4 model/Subsystem/RMS/TrueRMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/K1 model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/K1 model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/Integ4 model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/Integ4 model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/TrueRMS /Mean value/Model/K1 model/Subsystem/RMS1/TrueRMS
- model/Subsystem/RMS1/TrueRMS /Mean value/Model/Integ4 model/Subsystem/RMS1/TrueRMS
- model/PMSG/Electrical model/abc2qd/Elementary Math
- model/PMSG/Electrical model/qd2abc/Fcn
- model/PMSG/Electrical model/qd2abc/Fcn1
- model/PMSG/Electrical model/Te
- model/Gain
- model/Voltage Measurement/do not delete this gain
- model/Current Measurement/do not delete this gain

- model/First-Order Filter/Model/sum1
- model/First-Order Filter/Model/D
- model/First-Order Filter/Model/C
- model/Scope
- model/First-Order Filter/Model/A*x(k) + B*u(k)
- model/First-Order Filter/Model/A
- model/First-Order Filter/Model/B
- model/12.3kW Wind Turbine /1//wind_base
- model/V m//s
- model/Product2
- model/12.3kW Wind Turbine /Avoid division by zero
- model/12.3kW Wind Turbine /pu->pu
- model/12.3kW Wind Turbine /Product
- model/12.3kW Wind Turbine /lambda_nom
- model/12.3kW Wind Turbine /Saturation1
- model/12.3kW Wind Turbine /cp(lambda,beta)/Fcn
- model/12.3kW Wind Turbine /Avoid division by zero
- model/12.3kW Wind Turbine /Product
- model/Constant
- model/12.3kW Wind Turbine /cp(lambda,beta)/Fcn1
- model/12.3kW Wind Turbine /1//cp_nom
- model/12.3kW Wind Turbine /wind_speed^3
- model/12.3kW Wind Turbine /pu->pu
- model/12.3kW Wind Turbine /Product2
- model/12.3kW Wind Turbine /Gain
- model/PMSG/Mechanical model/Gain
- model/PMSG/Electrical model/abc2qd/Fcn3
  model/PMSG/Electrical model/abc2qd/Fcn2
- model/PMSG/Electrical model/iq,id/id/Sum
- model/PMSG/Electrical model/abc2qd/Fcn3
- model/PMSG/Electrical model/iq,id/id/1//Ld
- model/PMSG/Electrical model/iq,id/id/R//Ld
- model/PMSG/Electrical model/iq,id/id/Product
- model/PMSG/Electrical model/iq,id/id/Lq//Ld
- model/PMSG/Electrical model/iq,id/iq/Sum1
- model/PMSG/Electrical model/abc2qd/Fcn2
- model/PMSG/Electrical model/iq,id/iq/1//Lq
- model/PMSG/Electrical model/iq,id/iq/R//Lq
- model/PMSG/Electrical model/iq,id/iq/Product1
- model/PMSG/Electrical model/iq,id/iq/Ld//Lq
- model/PMSG/Electrical model/iq,id/iq/Iam//Lq
- model/PMSG/Mechanical model/Coulomb & Viscous Friction/Sign
- model/PMSG/Mechanical model/Sum
- model/Product1
- model/Pm
- model/wr
- model/Product
- model/PMSG/Mechanical model/Coulomb & Viscous Friction/Sum
- model/PMSG/Mechanical model/Coulomb & Viscous Friction/Gain1
- model/PMSG/Mechanical model/Coulomb & Viscous Friction/Gain
- model/PMSG/Mechanical model/Gain2
- model/Subsystem/RMS/RMS /Fourier1/Product1
- model/Subsystem/RMS/RMS /Fourier1/Product1
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/K1
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/K1
- model/Subsystem/RMS/RMS /Fourier1/Product
- model/Subsystem/RMS/RMS /Fourier1/Product
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/K1
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/K1
- model/Subsystem/RMS/RMS /Fourier1/cos(wt)
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/cos(wt)
- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/Integ4
- model/Subsystem/RMS/RMS /Fourier1/Mean/Model/Integ4
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- ..../RMS/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS

- model/Subsystem/RMS/RMS /Fourier1/sin(wt)
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/RMS /Fourier1/sin(wt)
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/Integ4
- model/Subsystem/RMS/RMS /Fourier1/Mean value1/Model/Integ4
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- ..../RMS/RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function
  model/Subsystem/RMS/RMS /Enable
  model/Subsystem/RMS/RMS
- model/Subsystem/RMS/Data Type Conversion
  model/Subsystem/RMS/Constant
- model/Subsystem/RMS/Data Type Conversion
- model/Subsystem/RMS/TrueRMS /Product
- model/Subsystem/RMS/TrueRMS /Product
  model/Subsystem/RMS/TrueRMS /Enable
  model/Subsystem/RMS/TrueRMS
- model/Subsystem/RMS/TrueRMS /Mean value/Model/K1
  model/Subsystem/RMS/TrueRMS /Enable
  model/Subsystem/RMS/TrueRMS
- model/Subsystem/RMS/TrueRMS /Mean value/Model/K1
- model/Subsystem/RMS/TrueRMS /Mean value/Model/Integ4
- model/Subsystem/RMS/TrueRMS /Mean value/Model/Integ4
  model/Subsystem/RMS/TrueRMS /Enable
  model/Subsystem/RMS/TrueRMS
- ..../RMS/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function
  model/Subsystem/RMS/TrueRMS /Enable
  model/Subsystem/RMS/TrueRMS
- model/Subsystem/RMS1/RMS /Fourier1/Product1
- model/Subsystem/RMS1/RMS /Fourier1/Product1
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/K1
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/K1
- model/Subsystem/RMS1/RMS /Fourier1/Product
- model/Subsystem/RMS1/RMS /Fourier1/Product
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/K1
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/K1
- model/Subsystem/RMS1/RMS /Fourier1/cos(wt)
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/cos(wt)
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/Integ4
- model/Subsystem/RMS1/RMS /Fourier1/Mean/Model/Integ4
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- ..../RMS1/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/sin(wt)
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/RMS /Fourier1/sin(wt)
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/Integ4
- model/Subsystem/RMS1/RMS /Fourier1/Mean value1/Model/Integ4
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- ..../RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function
  model/Subsystem/RMS1/RMS /Enable
  model/Subsystem/RMS1/RMS
- model/Subsystem/RMS1/Data Type Conversion
  model/Subsystem/RMS1/Constant
- model/Subsystem/RMS1/Data Type Conversion
- model/Subsystem/RMS1/TrueRMS /Product
- model/Subsystem/RMS1/TrueRMS /Product
  model/Subsystem/RMS1/TrueRMS /Enable
  model/Subsystem/RMS1/TrueRMS
- model/Subsystem/RMS1/TrueRMS /Mean value/Model/K1
  model/Subsystem/RMS1/TrueRMS /Enable
  model/Subsystem/RMS1/TrueRMS
- model/Subsystem/RMS1/TrueRMS /Mean value/Model/K1

- model/Subsystem/RMS1/TrueRMS /Mean value/Model/Integ4
- model/Subsystem/RMS1/TrueRMS /Mean value/Model/Integ4 model/Subsystem/RMS1/TrueRMS /Enable model/Subsystem/RMS1/TrueRMS
- ..../RMS1/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS1/TrueRMS /Enable model/Subsystem/RMS1/TrueRMS
- model/Vdc/do not delete this gain
- model/Idc1/do not delete this gain
- model/PandO MPPT/P(n)
- model/PandO MPPT/Sum
- model/PandO MPPT/P(n-1)
- model/PandO MPPT/dV<0
- model/PandO MPPT/dV<0 model/PandO MPPT/Switch
- model/PandO MPPT/Sum1
- model/PandO MPPT/dV>0
- model/PandO MPPT/Switch
- model/PandO MPPT/d=d-dD
- model/PandO MPPT/dV>0 model/PandO MPPT/Switch
- model/PandO MPPT/d=d+dD
- model/PandO MPPT/dD
- model/PandO MPPT/Saturation
- model/Repeating Sequence/startTime
- model/IGBT//Diode/Model/Data Type Conversion
- model/GreaterThan
- model/Repeating Sequence/Math Function
- model/Repeating Sequence/Sum
- model/Repeating Sequence/Clock
- model/Repeating Sequence/Sum model/Repeating Sequence/startTime
- model/Repeating Sequence/Constant
- model/Repeating Sequence/Look-Up Table1
- model/Vout/do not delete this gain
- model/Mean1/Model/K1
- model/Mean1/Model/Digital Clock
- model/Mean1/Model/Relational Operator
- model/Mean1/Model/Switch
- model/Mean1/Model/Sum5 model/Mean1/Model/Switch
- model/Mean1/Model/Product model/Mean1/Model/Switch
- model/Mean1/Model/Sum7 model/Mean1/Model/Switch
- model/Mean1/Model/K2
- model/Mean1/Model/Sum1 model/Mean1/Model/Switch
- model/Mean1/Model/Gain1
- model/Mean1/Model/Gain1 model/Mean1/Model/Switch
- model/Mean1/Model/Gain model/Mean1/Model/Switch
- model/Mean1/Model/Gain
- model/Scope1
- model/Io/do not delete this gain
- model/Mean2/Model/K1
- model/Mean2/Model/Digital Clock
- model/Mean2/Model/Relational Operator
- model/Mean2/Model/Switch
- model/Mean2/Model/Sum5 model/Mean2/Model/Switch
- model/Mean2/Model/Product model/Mean2/Model/Switch
- model/Mean2/Model/Sum7 model/Mean2/Model/Switch
- model/Mean2/Model/K2
- model/Mean2/Model/Sum1 model/Mean2/Model/Switch
- model/Mean2/Model/Gain1
- model/Mean2/Model/Gain1 model/Mean2/Model/Switch
- model/Mean2/Model/Gain model/Mean2/Model/Switch
- model/Mean2/Model/Gain
- model/Product3
- model/Gain1
- model/Scope2

- model/PMSG/Mechanical model/Discrete-Time Integrator1
- model/PMSG/Electrical model/iq,id/iq/Discrete-Time Integrator
- model/PMSG/Electrical model/iq,id/id/Discrete-Time Integrator
- model/PMSG/Mechanical model/Discrete-Time Integrator
- model/PandO MPPT/Memory2
- model/PandO MPPT/Memory
- model/PandO MPPT/Memory1
- model/First-Order Filter/Model/Delay_x
- model/Mean1/Model/Integ4
- model/Mean1/Model/Unit Delay
- model/Mean1/Model/Unit Delay1
- model/Mean2/Model/Integ4
- model/Mean2/Model/Unit Delay
- model/Mean2/Model/Unit Delay1
- model/powergui/EquivalentModel1/Sources/SwitchCurrents
- model/Diode/Model/eee
- model/Universal Bridge/g
- model/powergui/EquivalentModel1/State-Space
- ..../RMS/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS/RMS
- ..../RMS/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function
- ..../RMS/RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS/RMS
- ..../RMS/RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function
- ..../RMS/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS/TrueRMS
- ..../RMS/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function
- ..../RMS1/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS1/RMS
- ..../RMS1/RMS /Fourier1/Mean/Model/Discrete Variable Time Delay/S-Function
- ..../RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS1/RMS
- ..../RMS /Fourier1/Mean value1/Model/Discrete Variable Time Delay/S-Function
- ..../RMS1/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function model/Subsystem/RMS1/TrueRMS
- ..../RMS1/TrueRMS /Mean value/Model/Discrete Variable Time Delay/S-Function
- model/Mean1/Model/Discrete Variable Time Delay/S-Function
- model/Mean2/Model/Discrete Variable Time Delay/S-Function

∧ **Less**

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11 Migrating to Simplified Initialization mode

0 0 0 0 4 0

Check usage of Merge blocks

Check usage of Merge blocks
This check finds and reports issues related to merge blocks for migrating to simplified initialization mode.

See Also

- Check usage of Merge blocks
- Underspecified initialization detection

Passed

Check usage of Outport blocks

Check usage of Outport blocks
This check finds and reports issues related to Outport blocks and Conditional Subsystems for migrating to simplified initialization mode.

See Also

- Check usage of Outport blocks
- Underspecified initialization detection

Passed

Check usage of Discrete-Time Integrator blocks

Check usage of Discrete-Time Integrator blocks
This check finds and reports issues related to Discrete-Time Integrator blocks for migrating to simplified initialization mode

See Also

- Check usage of Discrete-Time Integrator blocks
- Underspecified initialization detection

Passed

Check model settings for migration to simplified initialization mode

Check for model level messages
This check finds and reports model level messages for migrating to simplified initialization mode.

See Also

- Check model settings for migration to simplified initialization mode
- Underspecified initialization detection

Passed

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12 Model Referencing 0 0 0 0 4 2

Check diagnostic settings ignored during accelerated model reference simulation

The configuration parameter settings passed the check.

Check for parameter tunability information ignored for referenced models

Passed

Check for implicit signal resolution

Passed

Check bus signals treated as vectors

Not Run

Check root model Inport block specifications

Passed

Check for large number of function arguments from virtual bus across model reference boundary

Not Run

13 Managing Library Links And Variants 0 0 1 0 3 0

Identify disabled library links

Warning
The blocks listed below are disabled library links. To resolve the link, right-click the block in the Simulink diagram, and choose 'Restore Link' from the 'Library Link' menu.

- model/powergui

Identify parameterized library links

Passed

Identify unresolved library links

Passed

Identify configurable subsystem blocks in the model for converting to variant subsystem blocks.

Identify and upgrade Configurable Subsystem blocks in the model or subsystem level.

Passed
No configurable subsystem blocks found.

14 Data Transfer Efficiency

0 0 0 0 1 0

Check Delay, Unit Delay and Zero-Order Hold blocks for rate transition

Passed
The model does not contain Delay, Unit Delay or Zero-Order Hold blocks that perform rate transition.

15 Modeling Standards for MISRA C:2012

0 0 1 0 6 6

Check configuration parameters for MISRA C:2012

Identify configuration parameters that might impact MISRA C:2012 compliant code generation.

Warning
The model configuration parameters are not set to the recommended values specified in the data file.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	UtilityFuncGeneration	Auto	Shared location	
Warning	GenerateSharedConstants	*Prerequisite constraint not met.*	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	*Prerequisite constraint not met.*	Standards, Maximum	SystemTargetFile
Warning	CastingMode	*Prerequisite constraint not met.*	Standards	SystemTargetFile
Warning	InternalIdentifier	*Prerequisite constraint not met.*	Shortened	SystemTargetFile
Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB	50	0	

	functions (CompileTimeRecursionLimit)			
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile

∧ **Less**

Recommended Action
Modify the configuration parameters listed above to the recommended values.

Check for blocks not recommended for C/C++ production code deployment

Passed

Check for blocks not recommended for MISRA C:2012

Passed

Check for unsupported block names

Passed

Check usage of Assignment blocks

Passed

Check for switch case expressions without a default case

Identify switch case expressions that do not have a default case.

Passed
All switch case expressions have default cases.

Check for missing error ports in AUTOSAR receiver interfaces

Identify AUTOSAR receiver interface ports that do not have a matching error port.

Passed
Model is not configured as an AUTOSAR target.

Check for bitwise operations on signed integers

Not Run

Check for recursive function calls

Not Run

Check for equality and inequality operations on floating-point values

Not Run

Check for missing const qualifiers in model functions

Not Run

Check integer word lengths

Not Run

Check bus object names that are used as bus element names

Not Run

16 Modeling Standards for Secure Coding (CERT C, CWE, ISO/IEC TS 17961)

0 0 2 0 4 3

Check configuration parameters for secure coding standards

Identify configuration parameters that might impact secure coding standards compliant code generation.

Warning
The model configuration parameters are not set to the recommended values specified in the data file.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile

∧ **Less**

Recommended Action
Modify the configuration parameters listed above to the recommended values.

Check for blocks not recommended for C/C++ production code deployment

Passed

Check for blocks not recommended for secure coding standards

Passed

Check usage of Assignment blocks

Passed

Check for switch case expressions without a default case

Identify switch case expressions that do not have a default case.

Passed
All switch case expressions have default cases.

Check for bitwise operations on signed integers

Not Run

Check for equality and inequality operations on floating-point values

Not Run

Check integer word lengths

Not Run

16.1 High-Integrity Systems 0 0 1 0 0 0

16.1.1 Code 0 0 1 0 0 0

Check configuration parameters for MISRA C:2012

Identify configuration parameters that might impact MISRA C:2012 compliant code generation.

Warning
The model configuration parameters are not set to the recommended values specified in the data file.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	UtilityFuncGeneration	Auto	Shared location	
Warning	GenerateSharedConstants	*Prerequisite constraint not met.*	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	*Prerequisite constraint not met.*	Standards, Maximum	SystemTargetFile
Warning	CastingMode	*Prerequisite constraint not met.*	Standards	SystemTargetFile
Warning	InternalIdentifier	*Prerequisite constraint not met.*	Shortened	SystemTargetFile
Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile

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Recommended Action
Modify the configuration parameters listed above to the recommended values.

17 Upgrading to the Current Simulink Version

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Open the Upgrade Advisor

Warning
To check for upgrade issues, open the Upgrade Advisor.

Recommended Action
Click the link below to close the Model Advisor and open the Upgrade Advisor for model.
Open the Upgrade Advisor