Model Advisor Report –

Wrong_Way_Driver_Warning.slx

System:	H: 10.1		Current run: 19-Oct-2020 20:45:19		
Wrong_Way_Driver_Warning					
Treat as Referenced Model: off		628 item	628 items with a timestamp different than 19-Oct-2020 20:45:19		
Run Summary Pass	Fail	Warning	Not Run	Total	
6 00	2	<u>111</u>	364	1077	
□ By Task					
□ Modeling P	hysical Systems	⊘ 0 ③ 0 ▲ 0 ■ 2			
Check consist	tency of block pa	rameter units			
Check for dry Not Run	hydraulic nodes				
Simulink Co	de Inspector co	mpatibility checks	⊘ 0 ⊗ 0 △ 0 □	69	
Check code g	eneration setting	gs			
Check data in	nport and export	settings			

Check diagnostic settings Not Run
Check hardware implementation settings Not Run
Check math and data types settings Not Run
Check solver settings Not Run
Check for unconnected objects in the model Not Run
Check system target file setting Not Run
Check function specification setting Not Run
Check for usage of fixed-point instrumentation Not Run
Check for unsupported blocks Not Run
Check storage class for workspace variables Not Run
Check GetSet storage class for workspace variables Not Run

Check for sample times in the model Not Run	
Check usage of Sources blocks Not Run	
Check usage of Signal Routing blocks Not Run	
Check usage of Math Operations blocks Not Run	
Check usage of Signal Attributes blocks Not Run	
Check usage of Logical and Bit Operations blocks Not Run	
Check usage of Lookup Tables blocks Not Run	
Check usage of User-Defined Function blocks Not Run	
Check usage of Ports and Subsystems blocks Not Run	
Check usage of Discontinuities blocks Not Run	

Check usage of Sinks blocks Not Run
Check usage of Discrete blocks Not Run
Check usage of root Outport blocks Not Run
Check for unsupported Signal Conversion blocks automatically inserted at signals entering block input ports Not Run
Check usage of buses Not Run
Check for usage of synthesized local data stores Not Run
Check usage of global data stores Not Run
Check global data stores' name shadow Not Run
Check for root Outport blocks being conditionally assigned Not Run
Check conditional input branch execution setting Not Run

Check usage of Stateflow blocks Not Run
Check for Stateflow machine data Not Run
Check for Stateflow machine events Not Run
Check usage of Stateflow charts Not Run
Check usage of Stateflow data Not Run
Check usage of Stateflow events Not Run
Check usage of Stateflow states Not Run
Check usage of Stateflow junctions Not Run
Check usage of Stateflow transitions Not Run
Check usage of Stateflow graphical functions Not Run
Check usage of Stateflow truth tables Not Run

Check Loop unrolling threshold setting Not Run
Check destinations of If and Switchcase blocks Not Run
Check for root Outport blocks that have non-auto storage class Not Run
Check for Terminator blocks connected to Model Reference block outports Not Run
Check for unsupported propagation of initial condition values Not Run
Check data type replacement names Not Run
Check usage of MATLAB Function Blocks Not Run
Check usage of Data in MATLAB Functions Not Run
Check usage of Code in MATLAB Functions Not Run
Check MATLAB Code Analyzer messages Not Run

Check for multiple sample times in model used as a model reference target Not Run
Check Treat each discrete rate as a separate task setting Not Run
Check model for commented out blocks Not Run
Check model for instrumented signals Not Run
Check model for void_void subsystems that use the same function name Not Run
Check n-D Lookup Table blocks for incompatible breakpoint data type Not Run
Check model for reusable subsystems that use the same function interfaces Not Run
Check for usage of shared synthesized local data stores Not Run
Check the code generation folder structure for the model Not Run
Check for unsupported Code Mapping settings Not Run
Check model for compiled and graphical block sorted order Not Run

□ Check usage of String blocks
 Not Run
 □ Check usage of shared utilities
 Not Run
 □ Check model arguments for storage classes
 Not Run
 □ Check usage of Stateflow MATLAB action language
 Not Run
 □ Check usage of Stateflow MATLAB action language
 Not Run
 □ Modeling Standards for DO-178C/DO-331
 ☑ Pisplay model version information (19-Oct-2020 20:30:59)

Model configuration and checksum information

Display model configuration and checksum information.

Attribute	Value
Model Version	1.138
Author	Jayesh Patil
Date	Mon Oct 19 18:15:32 2020
Model Checksum	3934919800 188903040 3653151760 1357945227





Check usage of Abs blocks (19-Oct-2020 20:30:59)

Identify Abs blocks that have unreachable code or produce overflows

Passed

No Abs blocks found causing unreachable code or produce overflows.

Check usage of Math Function blocks (rem and reciprocal functions) (19-Oct-2020 20:30:59)

Identify Math Function blocks using rem and reciprocal functions that cause non-finite results

Passed

All Math Function blocks in the model use operators appropriately.

Check usage of Math Function blocks (log and log10 functions) (19-Oct-2020 20:30:59)

Identify Math Function blocks using log and log10 functions that cause non-finite results

Passed

All Math Function blocks in the model use operators appropriately.

Check usage of While Iterator blocks (19-Oct-2020 20:30:59)

Identify While Iterator blocks that do not have a positive value for the maximum number of iterations

Passed

No While Iterator blocks found that might cause infinite loops

Check usage of For and While Iterator subsystems (19-Oct-2020 20:30:59)

Identify sample time-dependent blocks in While and For Iterator subsystems.

Passed

No sample time-dependent blocks in For or While Iterator subsystems.

Check usage of For Iterator blocks (19-Oct-2020 20:30:59)

Identify For Iterator blocks that cause variable loops

Passed

No For Iterator blocks found that cause variable loops.

Check usage of If blocks and If Action Subsystem blocks (19-Oct-2020 20:30:59)
Identify If and If Action Subsystem blocks without else conditions

Passed

No If blocks with questionable configurations or connections were found.

Check usage of Switch Case blocks and Switch Case Action Subsystem blocks (19-Oct-2020 20:30:59)
Identify inappropriately used Switch Case blocks and Switch Case Action Subsystem blocks

Passed

No Switch Case blocks with questionable configurations or connections were found.

Check usage of conditionally executed subsystems (19-Oct-2020 20:30:59) Identify inappropriate blocks in conditionally executed subsystems.

Passed

No blocks with improper sample times or asynchronously executed sample-time dependent blocks were found.

Check usage of Merge blocks (19-Oct-2020 20:30:59)

Identify Merge blocks constructs which can lead to ambiguous behavior.

Passed

No merge blocks found which can lead to ambiguous behavior.

Check Relational Operator blocks equating floating-point types (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that equate floating-point types

Passed

No Relational Operator blocks found that equate floating-point types.

Check usage of Relational Operator blocks (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that operate on different data types or have a non-boolean output

Passed

No Relational Operator blocks found that operate on different data types or have a non-boolean output.

Check usage of Logical Operator blocks (19-Oct-2020 20:30:59)

Identify Logical Operator blocks that operate on non-boolean data types

Passed

No Logical Operator blocks found that operate on non-boolean data types.

Check usage of bit operation blocks (19-Oct-2020 20:30:59)

Identify bit operation blocks with signed data types as inputs

Passed

No bit operation blocks found with signed data types as inputs.

Check for blocks not recommended for C/C++ production code deployment (19-Oct-2020 20:30:59) Identify blocks not supported by code generation or not recommended for C/C++ production code deployment.

Passed

No blocks found which are not recommended for C/C++ production code deployment.

Check for inconsistent vector indexing methods (19-Oct-2020 20:30:59)

Identify inconsistent usage of vector indexing methods across the model or subsystem

Passed

No blocks found using inconsistent indexing modes.

Check data types for blocks with index signals (19-Oct-2020 20:30:59)

Identify blocks with index signals that have data types other than integers or enums.

Passed

No blocks or charts found with index signals or variables that have data types other than integer or enums.

Check usage of variant blocks (19-Oct-2020 20:30:59)

Check variant block settings that might result in code that doesn't trace back to requirements.

Passed

There are no variant blocks that have "Generate preprocessor conditionals" active.

Check usage of lookup table blocks (19-Oct-2020 20:30:59)

Check for Lookup Table blocks, Prelookup blocks and Interpolation blocks that do not generate outof-range checking code.

Passed

No lookup table blocks found to not generate out-of-range checking code.



Check usage of Signal Routing blocks (19-Oct-2020 20:30:59)

Identify usage of Signal Routing blocks in Simulink that might impact safety

Passed

No Switch blocks that might generate code with inequality operations (~=) in expressions where at least one side of the expression is a floating-point variable or constant were found.



Check for root Inports with missing properties (19-Oct-2020 20:30:59)

Identify Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong_Way_Driver_Warning/ActiveState
- Wrong_Way_Driver_Warning/Current_DataOnOff
- Wrong_Way_Driver_Warning/Data_CountryCode
- Wrong Way Driver Warning/Data DrivingSide
- Wrong Way Driver Warning/Data NumberLaneDrivingDirection
- Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection
- Wrong_Way_Driver_Warning/Data_OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong Way Driver Warning/Diagnostics MissingData

- Wrong_Way_Driver_Warning/DrivingReverse
- Wrong_Way_Driver_Warning/Sensor_SignAboveRoad
- Wrong_Way_Driver_Warning/Sensor_SignConfidence
- Wrong_Way_Driver_Warning/Sensor_SignID
- Wrong_Way_Driver_Warning/Sensor_SignPositionLateral
- Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong_Way_Driver_Warning/Sensor_SignTrackingState
- Wrong_Way_Driver_Warning/Sensor_SignType
- Wrong_Way_Driver_Warning/Suppressed_Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Recommended Action

Specify port dimension for the listed Inport blocks or Simulink signal objects.

Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong_Way_Driver_Warning/ActiveState
- Wrong_Way_Driver_Warning/Current_DataOnOff

- Wrong_Way_Driver_Warning/Data_CountryCode
- Wrong_Way_Driver_Warning/Data_DrivingSide
- Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection
- Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection
- Wrong_Way_Driver_Warning/Data_OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong_Way_Driver_Warning/Diagnostics_MissingData
- Wrong_Way_Driver_Warning/DrivingReverse
- Wrong_Way_Driver_Warning/Sensor_SignAboveRoad
- Wrong Way Driver Warning/Sensor SignConfidence
- Wrong_Way_Driver_Warning/Sensor_SignID
- Wrong_Way_Driver_Warning/Sensor_SignPositionLateral
- Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong Way Driver Warning/Sensor SignTrackingState
- Wrong_Way_Driver_Warning/Sensor_SignType
- Wrong_Way_Driver_Warning/Suppressed_Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Recommended Action

Specify sample time information for the listed Inport blocks or Simulink signal objects. Note: The sample time of root Inports with bus type must match the sample times specified at the leaf elements of the bus object.

Check for root Inports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Inport blocks with missing or erroneous minimum or maximum values. Inport block minimum and maximum values are specified with block parameters or Simulink signal objects that

explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Inport range properties at the model root level.

Check for root Outports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Outport blocks with missing or erroneous minimum or maximum values. Outport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Outport range properties at the model root level.

Note: Root Outports with inherited data types are not analyzed by this check.

Check usage of Assignment blocks (19-Oct-2020 20:30:59)

Identify Assignment blocks whose array fields are not initialized.

Passed

All Assignment blocks are configured with block parameter "Action if any output element is not assigned" set to Warning or Error.

Check global variables in graphical functions (19-Oct-2020 20:30:59)

Identify expressions that both read and write to the same global data.

Passed

No expressions found that both read and write to the same global data.

Identify Gain blocks with value which resolves to 1

Warning

The following Gain blocks have value which resolves to 1.

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•	•	

Recommended Action

Consider remodeling to remove the Gain blocks with values that resolve to 1

△ Check for length of user-defined object names (19-Oct-2020 20:30:59)

Identify user-defined object names with length greater than threshold

Warning

The following data objects have name length greater than threshold (31).

Data Objects	Source
Data_NumberLaneOppositeDirection	WWDW_dd.sldd
Sensor_SignPositionLongitudional	WWDW_dd.sldd

Recommended Action

Change the names of mentioned data objects to have length less than 31.



Identify loop control variables using non-integer data types.

Passed

No For Iterator blocks or MATLAB Function blocks found using non-integer data type for loop control counter variable.



Check state machine type of Stateflow charts (19-Oct-2020 20:30:59)

Identify Stateflow Charts whose State Machine Type differs from the type set in the Model Advisor Configuration Editor.

Passed

No Stateflow Charts found that deviate from recommended state machine type.

Check Stateflow charts for ordering of states and transitions (19-Oct-2020 20:30:59)

Identify Stateflow charts that do not use explicit ordering of parallel states and transitions.

Passed

No Stateflow Charts found that deviate from recommended state/transition execution order settings.

Check usage of bitwise operations in Stateflow charts (19-Oct-2020 20:30:59)

Identify usage of signed data type operands to bitwise operations in Stateflow charts.

Passed

No Stateflow objects found that use signed data type operands with bitwise operations.

Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59)

Verify configuration settings for strong data typing on the boundaries between Simulink and

Verify configuration settings for strong data typing on the boundaries between Simulink and Stateflow

Passed

No Stateflow charts found that set 'Use Strong Data Typing with Simulink I/O' to off.

Check Stateflow debugging options (19-Oct-2020 20:30:59)
Identify whether Stateflow debugging options are set appropriately

Passed

All Stateflow debugging options are set appropriately.

Check Stateflow charts for transition paths that cross parallel state boundaries (19-Oct-2020 20:30:59) Identify transition paths that cross parallel state boundaries in Stateflow charts.

Passed

No transition paths crossing parallel state boundaries were found in Stateflow charts.

Check for inappropriate use of transition paths (19-Oct-2020 20:30:59)

Identify transition paths that go into and out of a state without ending on a substate.

Passed

No transition paths found that go into and out of a state without ending on a substate.

Check Stateflow charts for strong data typing (19-Oct-2020 20:30:59)

Identify expressions with variables and parameters of different data types in Stateflow objects.

Passed

No expressions were found with variables and parameters of different data types.

Check naming of ports in Stateflow charts (19-Oct-2020 20:30:59)

Identify mismatches between names of Stateflow ports and associated signals

Passed

There are no name mismatches between Stateflow ports and associated signals

Check scoping of Stateflow data objects (19-Oct-2020 20:30:59)

Identify Stateflow data objects with local scope that are not scoped at the chart level or below

Passed

All Stateflow data objects are properly scoped.

Check Stateflow charts for uniquely defined data objects (19-Oct-2020 20:30:59)

Identify local data identifiers that are defined in multiple scopes within a chart.

Passed

No Stateflow data identifiers found to be defined in multiple scopes.

Check usage of shift operations for Stateflow data (19-Oct-2020 20:30:59)

Identify usage of Stateflow bit-shifting operations that might impact safety.

Passed

There are no Stateflow bit-shifting operations greater than the bit-width of the input or output type.

Check assignment operations in Stateflow charts (19-Oct-2020 20:30:59)

Identify assignment operations in Stateflow objects which cast integer and fixed-point calculations to wider datatype.

Passed

No assignment operations were found which cast integer and fixed-point calculations to wider datatype.

Check Stateflow charts for unary operators (19-Oct-2020 20:30:59)

Identify unary minus operators on unsigned data types in Stateflow objects.

Passed

No unary minus operations on unsigned data types were found in Stateflow objects.



Check usage of standardized MATLAB function headers (19-Oct-2020 20:30:59) Identify usage of standardized function headers in MATLAB function.

Passed

No MATLAB function blocks found without standardized function headers.

Check for MATLAB Function interfaces with inherited properties (19-Oct-2020 20:30:59)

Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity or data type properties.

Passed

No MATLAB Function interfaces with inherited complexity or data type properties found.

Check MATLAB Function metrics (19-Oct-2020 20:30:59)

Identify MATLAB Functions that violate code and complexity metrics.

Passed

No MATLAB Function blocks found that violate code and complexity metrics.

Check MATLAB Code Analyzer messages (19-Oct-2020 20:30:59)

Check MATLAB functions for %#codegen directive, MATLAB Code Analyzer messages, and justification message IDs.

Passed

No MATLAB Function blocks found with Code Analyzer messages, missing %#codegen directive or inappropriate usage of justification message IDs.

Check if/elseif/else patterns in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify if/elseif/else patterns without appropriate else conditions in embedded MATLAB code

Passed

No inappropriate if/elseif/else patterns found.

Check switch statements in MATLAB Function blocks (19-Oct-2020 20:30:59) Identify inappropriately used switch statements in embedded MATLAB code

Passed

No inappropriately used switch statements found.

Check usage of relational operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify relational operators operating on operands of different data types in MATLAB Function blocks.

Passed

No relational operators found operating on operands of different data types.

Check usage of equality operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify equality operators used with floating-point operands in MATLAB Function blocks.

Passed

No equality operators found operating on floating-point operands.

Check usage of logical operators and functions in MATLAB Function blocks (19-Oct-2020 20:30:59) Identify logical operators and functions operating on operands with numerical data types.

Passed

No logical operators or functions found operating on operands with numerical data types.

Check type and size of condition expressions (19-Oct-2020 20:30:59) Identify condition expressions which are not logical scalars.

Passed

No condition expressions found which are not logical scalars.

\bigcirc Configuration \bigcirc 0 \bigcirc 0 \bigcirc 0 \bigcirc 32
Check safety-related diagnostic settings for data store memory Not Run
Check safety-related diagnostic settings for saving Not Run
Check safety-related model referencing settings Not Run
Check safety-related code generation settings for comments Not Run
Check safety-related code generation interface settings Not Run
Check safety-related solver settings for simulation time Not Run
Check safety-related solver settings for solver options Not Run
Check safety-related solver settings for tasking and sample-time Not Run
Check safety-related diagnostic settings for solvers Not Run
Check safety-related diagnostic settings for sample time Not Run

Check safety-related optimization settings for logic signals Not Run
Check safety-related block reduction optimization settings Not Run
Check safety-related code generation settings for code style Not Run
Check safety-related optimization settings for application lifespan Not Run
Check safety-related code generation identifier settings Not Run
Check safety-related optimization settings for loop unrolling threshold Not Run
Check safety-related optimization settings for data initialization Not Run
Check safety-related optimization settings for data type conversions Not Run
Check safety-related optimization settings for division arithmetic exceptions Not Run
Check safety-related optimization settings for specified minimum and maximum values Not Run
Check safety-related diagnostic settings for compatibility Not Run

Check safety-related diagnostic settings for parameters Not Run
Check safety-related diagnostic settings for Merge blocks Not Run
Check safety-related diagnostic settings for model initialization Not Run
Check safety-related diagnostic settings for data used for debugging Not Run
Check safety-related diagnostic settings for signal connectivity Not Run
Check safety-related diagnostic settings for bus connectivity Not Run
Check safety-related diagnostic settings that apply to function-call connectivity Not Run
Check safety-related diagnostic settings for type conversions Not Run
Check safety-related diagnostic settings for model referencing Not Run
Check safety-related diagnostic settings for Stateflow Not Run

Check safety-related diagnostic settings for signal da	ita
Not Run	

Naming	⊘ 1 ⊗ 0 △ 1 □ 0
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⊘ Check model file name (19-Oct-2020 20:43:45)

Identify inappropriate characters and length issues in model file name

Passed

No issues found with model file name.



△ Check model object names (19-Oct-2020 20:43:45)

Identify invalid names of following model objects (first invalid name fragment is highlighted):

- **Blocks**
- Signals
- **Parameters**
- **Buses**
- Stateflow elements

Warning

The following model objects have invalid names:

Block	Name
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection"	
title="Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional"	
title="Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLan eOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_Numb erLaneOppositeDirection	

	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	SliderGain5
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain5	

	T
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7"	SliderGain7
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain7	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8"	SliderGain8
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain8	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant"	CompareToCons tant
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1"	CompareToCons tant1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator"	LogicalOperator

	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1	LogicalOperator 1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2	LogicalOperator 2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1	RelationalOpera tor1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2	RelationalOpera tor2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider	SliderGain

Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider	SliderGain1
Gain1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain4"	SliderGain4
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain4	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider	SliderGain5
Gain5" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain6	

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/RelationalOperator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Later al_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Lateral_Sign_Value_in_ISO_Coordinates	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator	LogicalOperator
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator1	LogicalOperator 1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relat ional Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relat ional Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator1	RelationalOpera tor1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator2"	RelationalOpera tor2

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator3"	RelationalOpera tor3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign _Positional_Longitudional/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Sign_Positional_Longitudional/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3	

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_C onversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion	Vehicle_Speed_ Conversion
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_ Conversion	Yaw_Rate_Conv ersion

Signal	Name
Wrong_Way_Driver_Warning	
Wrong_Way_Driver_Warning	

Parameter used in	Name	Defined in
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection		data dictionary
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional		data dictionary

Recommended Action

Change flagged names of model objects





Check for model elements that do not link to requirements

Not Run

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Check for blocks not recommended for MISRA C:2012 (19-Oct-2020 20:30:59)

Identify blocks that are not recommended for MISRA C:2012 compliant code generation.

Passed

None of the blocks are defined as "not recommended" for MISRA C:2012 compliant code generation.

Check configuration parameters for MISRA C:2012 (19-Oct-2020 20:30:59)

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

Passed

All constraints on model configuration parameters have been met.

Sta tus	Parameter	Current Value	Recommended Values	Prerequisites
Pas s	Model Verification block enabling (AssertControl)	DisableAll	DisableAll	
D - Pas s	Shared code placement (UtilityFuncGeneration)	Shared location	Shared location	
Pas s	Generate shared constants (GenerateSharedConst ants)	off	off	UtilityFuncGe neration

D - Pas s	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pas s	continuous time (SupportContinuousTi me)	off	off	SystemTarge tFile
Pas s	non-inlined S-functions (SupportNonInlinedSFc ns)	off	off	SystemTarge tFile
Pas s	MAT-file logging (MatFileLogging)	off	off	
Pas s	Code replacement library (CodeReplacementLibr ary)	None	None, AUTOSAR 4.0	
Pas s	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTarge tFile
Pas s	Casting modes (CastingMode)	Standards	Standards	SystemTarge tFile
Pas s	System-generated identifiers (InternalIdentifier)	Shortened	Shortened	SystemTarge tFile
Pas s	Signed integer division rounds to (ProdIntDivRoundTo)	Zero	Zero, Floor	
Pas s	Use division for fixed- point net slope computation (UseDivisionForNetSlop eComputation)	UseDivisionForReciprocal sOfIntegersOnly	on, UseDivisionForReciprocal sOfIntegersOnly	
Pas s	Replace multiplications by powers of two with signed bitwise shifts (EnableSignedLeftShifts)	off	off	SystemTarge tFile

Pas s	Allow right shifts on signed integers (EnableSignedRightShifts)	off	off	SystemTarge tFile
Pas s	Wrap on overflow (IntegerOverflowMsg)	error	warning, error	
Pas s	Inf or NaN block output (SignalInfNanChecking)	error	warning, error	
Pas s	Dynamic memory allocation in MATLAB functions (MATLABDynamicMem Alloc)	off	off	
Pas s	External mode (ExtMode)	off	off	
Pas s	Undirected event broadcasts (SFUndirectedBroadcas tEventsDiag)	error	error	
Pas s	Compile-time recursion limit for MATLAB functions (CompileTimeRecursion Limit)	0	0	
Pas s	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursi on)	off	off	
D - Pas s	Include comments (GenerateComments)	on	on	
Pas s	MATLAB user comments (MATLABFcnDesc)	on	on	GenerateCo mments,

		SystemTarge tFile



Passed



Check for Discrete-Time Integrator blocks with initial condition uncertainty (19-Oct-2020 20:30:59)



△ Check root model Inport block specifications (19-Oct-2020 20:30:59)

Your model contains root-level Inport blocks with undefined attributes, such as dimensions, sample time, or data type. If you do not explicitly define these attributes, Simulink will use back-propagation from downstream blocks to assign values to the attributes when updating the model. This can lead to undesired simulation results. To avoid this, fully define the attributes of all of your model's root-level Inport blocks.

The following root-level Inport blocks have undefined attributes:

Wrong_Way_Driver_Warning/VehicleSpeed

Wrong_Way_Driver_Warning/DrivingReverse

Wrong_Way_Driver_Warning/YawRate

Wrong_Way_Driver_Warning/ActiveState

Wrong_Way_Driver_Warning/Data_DrivingSide

Wrong_Way_Driver_Warning/Data_CountryCode

Wrong_Way_Driver_Warning/Diagnostics_MissingData

Wrong_Way_Driver_Warning/Data_OffRoad

Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection

Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection

Wrong_Way_Driver_Warning/Data_TurnAngle

Wrong_Way_Driver_Warning/Sensor_SignID

Wrong_Way_Driver_Warning/Sensor_SignType

Wrong_Way_Driver_Warning/Sensor_SignTrackingState

Wrong_Way_Driver_Warning/Sensor_SignConfidence

Wrong_Way_Driver_Warning/Sensor_SignPositionLateral

Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional

Wrong_Way_Driver_Warning/Sensor_SignRelevance

Wrong_Way_Driver_Warning/Sensor_SignAboveRoad

Wrong_Way_Driver_Warning/Suppressed_Data

✓ Identify unconnected lines, input ports, and output ports (19-Oct-2020 20:30:59)

Identify unconnected lines, input ports, and output ports in the model

Passed

There are no unconnected lines, input ports, and output ports in this model.

Check usage of tunable parameters in blocks (19-Oct-2020 20:30:59)

Identify tunable parameters used to specify expressions, data type conversions, or indexing operations.

Passed

Tunable parameters are not used in the model.

Check for blocks that have constraints on tunable parameters (19-Oct-2020 20:30:59) Identify Lookup Table blocks that have constraints on tunable parameters.

Check usage of Lookup Table blocks

Passed

No Lookup Table blocks with tunable parameters found.

Check usage of Lookup Table (2-D) blocks

Passed

No Lookup Table (2-D) blocks with tunable parameters found.

Check usage of n-D Lookup Table blocks

Passed

No n-D Lookup Table blocks with tunable parameters found.

Identify questionable subsystem settings (19-Oct-2020 20:30:59)

Passed

Subsystem blocks do not specify their Function packaging option as Nonreusable function.

Passed

Subsystems that specify the Function packaging option as Reusable function are not checked since the Model Configuration Parameter Shared code placement is set to Shared location.



Check bus signals treated as vectors (19-Oct-2020 20:30:59)

Bus signal treated as vector

Identify bus signals in the model that are treated as vectors by the Simulink software.

Passed

The model uses bus signals properly. Model is configured to detect future changes that might result in improper bus signal usage.

Check for potentially delayed function-call block return values (19-Oct-2020 20:30:59)

Passed



⊘ Check usage of Merge blocks (19-Oct-2020 20:30:59)

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





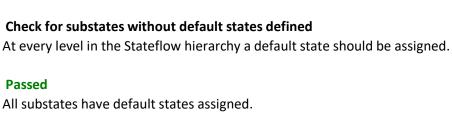
Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59) Check whether labeled input and output signals are strongly typed. **Passed** No Stateflow charts have **Use Strong Data Typing with Simulink I/O** cleared. Check definition of Stateflow data (19-Oct-2020 20:30:59) Identify the Scope value set on Stateflow data defined at machine level. **Passed** All Stateflow data at machine level has been defined as per guideline. Check usage of exclusive and default states in state machines (19-Oct-2020 20:30:59) Identify Stateflow charts and substates that incorrectly use or define exclusive and default states. **Check Stateflow charts for exclusive states** Identify Stateflow charts that have singular exclusive (OR) states. **Passed** The Stateflow charts do not have singular exclusive (OR) states. **Check Stateflow charts for undefined default states** Identify Stateflow charts that do not define default states. **Passed** Each Stateflow chart defines a default state. Check for multiple states assigned as the default state At the root level in the Stateflow hierarchy only one state should be assigned as the default. The root level of the chart has only one default state assigned.

Check for substates with singular OR states

States configured as OR should always be part of a group of states.

Passed

No singular OR states were detected.

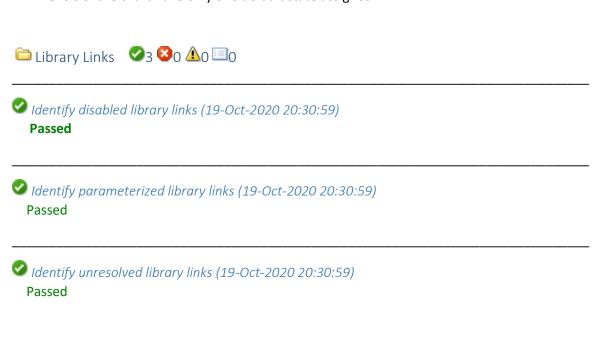


Check for substates with multiple default states defined

At every level in the Stateflow hierarchy only one state should be assigned as the default.

Passed

All levels of the chart have only one default state assigned.



Check for model reference configuration mismatch (19-Oct-2020 20:30:59)

Passed

⊘ Check for parameter tunability information ignored for referenced models (19-Oct-2020 20:30:59)

Passed



Identify requirement links that specify invalid locations within documents (19-Oct-2020 20:30:59) Passed
✓ Identify requirement links with missing documents (19-Oct-2020 20:30:59) Passed
✓ Identify requirement links with path type inconsistent with preferences (19-Oct-2020 20:30:59) Passed
✓ Identify selection-based links having description fields that do not match their requirements document text (19-Oct-2020 20:30:59) Passed
Simulink Coder ♥3 ♥0 ♠0 □0
Check sample times and tasking mode (19-Oct-2020 20:30:59)
Passed
Check solver for code generation (19-Oct-2020 20:30:59)
Passed
Check the hardware implementation (19-Oct-2020 20:30:59) Check 'Byte ordering' and 'Signed integer division rounds to' parameters Identify inconsistencies or underspecification of hardware attributes that can lead to incorrect and inefficient generated code.
Passed Target specification is consistent.

Check whether 'Production hardware' and 'Test hardware' match

Search for 'Test hardware is the same as production hardware' in the Configuration Parameters dialog box and check if it is selected. If it is cleared, identify whether target specifications match.

Passed

'Test hardware is the same as production hardware' is selected or is cleared and the target specifications match.





△ Display bug reports for DO Qualification Kit (19-Oct-2020 20:30:59)

Display bug reports for DO Qualification Kit (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 4 DO Qualification Kit bug reports for release R2020a

ID	Bug Report Summary	Modified
2324478	DO Qualification Kit - Simulink Check Tool Operational Requirements contains incorrect hyperlink to the high-integrity guidelines	29 Sep 2020
2248344	DO Qualification Kit - Data unnecessary for a TQL-5 tool qualification included in the Simulink Code Inspector Tool Qualification Plan artifact	16 Sep 2020
2238079	DO Qualification Kit - Simulation plots in the Simulink Test expected results are incorrect	16 Sep 2020
2250083	DO Qualification Kit - Discrepancy in model version between the Simulink Coverage test case and expected report	16 Sep 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Embedded Coder (19-Oct-2020 20:30:59)

Display bug reports for Embedded Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 75 Embedded Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Embedded Coder - Incorrect Code Generation: err output port of NR Polar	19 Oct
2284457	Decoder gives wrong answer	2020
	Embedded Coder - Code generation may error with a 'Unrecognized method,	19 Oct
2309735	property, or field 'Identifier' for class 'RTW.DataImplementation' message	2020
	Embedded Coder - Code generation report creation fails when using	19 Oct
2309212	rtwreport function	2020
	Embedded Coder - Getter function for bus arrays, which return by value,	19 Oct
2308491	used as a pointer return in the algorithm code	2020
	Embedded Coder - Names of logged signals are not propagated during SIL	19 Oct
2292131	and PIL simulations	2020

222222	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	19 Oct
2328023	for MATLAB code in which the loop bounds are unknown at compile time and the lower bound is greater than the upper bound	2020
	Embedded Coder - Incorrect Code Generation: Model produces incorrect	19 Oct
2315073	answer when one or more reusable subsystems receive 1-D input and N-D input in row-major layout	2020
	Embedded Coder - Incorrect Code Generation: Incorrect result might occur	08 Oct
2306193	when a MATLAB System block calls a Simulink function that contains a Data Store Read or Data Store Write block	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	07 Oct
2321014	for a model that contains a Model block	2020
	Embedded Coder - Incorrect Code Generation: Model reference call gets	30 Sep
2301617	removed when a Bus outport is directly attached to a Model block	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	23 Sep
2297280	for a model that contains a referenced model	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2029502	for a model containing multiple Reusable custom storage class with a branched root Inport	2020
	Embedded Coder - Incorrect Code Generation: Model that uses row-major	16 Sep
2131505	array layout and complex types containing fixed-point data types might generate incorrect results	2020
2100010	Embedded Coder - Code generator places code for asynchronously triggered	16 Sep
2133942	atomic subsystem in wrong location	2020
2476220	Embedded Coder - Embedded Coder fails to generate correct code from a	16 Sep
2176228	Simulink Code Inspector compatible model if it defines instance parameters	2020
04440=0	Embedded Coder - Persistent global variable used within a Parallel for-	16 Sep
2111370	Loops(parfor) present in a MATLAB Function block or MATLAB System block may result in code that does not compile	2020
	·	46.6
2192558	Embedded Coder - Incorrect Code Generation : Customized step function prototype with custom storage class on Root-level Outport might generate	16 Sep 2020
2132330	incorrect code	2020
	Embedded Coder - Incorrect Code Generation: Incorrect initial value for	16 Sep
2189985	block output inside reusable subsystem	2020
	Embedded Coder - Incorrect Code Generation: Tunable parameters in non-	16 Sep
2191117	inlined S-function might lead to incorrect code	2020

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2181053	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a series of directly connected Bus Creator blocks	16 Sep 2020
2190935	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing Data Store Memory and MATLAB System blocks	16 Sep 2020
2209352	Embedded Coder - Code generation error with global Data Store Memory and Export-Function model	16 Sep 2020
2176178	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a bus data type across a reusable atomic subsystem	16 Sep 2020
2213080	Embedded Coder - MATLAB might crash when generating code for a model that contains subsystems	16 Sep 2020
2218742	Embedded Coder - Incorrect Code Generation : Generated code does not initialize instance-specific parameters for models that specify dynamic allocation	16 Sep 2020
2197821	MATLAB Coder - Incorrect Code Generation : Output of set operations with the 'rows' option might not be in sortrows order when NaNs are present	16 Sep 2020
2192241	Embedded Coder - XCP-based external mode fails for binaries with debug symbols for empty compilation units	16 Sep 2020
2190021	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a Selector block that connects to a Unit Delay block	16 Sep 2020
2216985	Embedded Coder - Incorrect Code Generation : Incorrect code generation for a function-call, triggered, or enabled and triggered subsystem that is configured for reusable function packaging	16 Sep 2020
2199240	Embedded Coder - Code generation error when subsystem contains Stateflow chart and execution time profiling is enabled	16 Sep 2020
2215349	Embedded Coder - MATLAB may crash when using the getDataInterfaces function of Code Descriptor API	16 Sep 2020
2218634	Embedded Coder - Missing example files in documentation topic "Access Data Through Functions by Using Storage Classes in Embedded Coder Dictionary"	16 Sep 2020
2178595	Embedded Coder - SIL simulation with Microsoft Visual C++ compiler option /TP produces compiler error	16 Sep 2020
2207911	Embedded Coder - Incorrect Code Generation : Incorrect generated code for model with DQ Limiter block and Inverse Park Transform block	16 Sep 2020
2232273	Embedded Coder - Incorrect Code Generation : Constant sample time output signal in referenced model might lead to incorrect code	16 Sep 2020

	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2221392	for a model with a Unit Delay block inside a For Iterator or While Iterator	2020
	subsystem	
	Embedded Coder - Incorrect Code Generation: Numerical mismatch between	16 Sep
2221375	normal and accelerator mode simulation for variable dimension inputs when	2020
	the configuration parameter UseRowMajorAlgorithm is selected	
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2122070	for a model with Unit Delay block inside a For Each Subsystem block	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2192341	for a model with Stateflow chart	2020
	Embedded Coder - Incorrect Code Generation: Incorrect code might be	16 Sep
2244678	generated for a model containing a MATLAB Function block with similar	2020
	expressions over struct type variables	
	Embedded Coder - Uncompilable generated code might occur for MATLAB	16 Sep
2203079	code containing a loop that operates on variables of different data types with	2020
	SIMD enabled	
	Embedded Coder - Incorrect Code Generation: Signal object InitialValue	16 Sep
2204585	ignored on root inputs of referenced models when storage class is 'Model	2020
	default'	
	Embedded Coder - AUTOSAR Diagnostic Event Manager event failure or	16 Sep
2210185	success not flagged if event ID counter exceeds rather than meets threshold	2020
	Embedded Coder - Incorrect Code Generation: Incorrect initial value for	16 Sep
2247270	block output inside reusable subsystem	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2249030	for a model with Reset Function block	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Sep
2248045	for a model containing Data Store Memory block and a For Iterator Subsystem	2020
	or a While Iterator Subsystem	
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	16 Sep
2248226	for a model containing a Data Store Memory block interacting with a reusable	2020
	subsystem configured to minimize algebraic loop occurrences	
	Embedded Coder - Stateflow chart inside rate grouped Simulink Function	16 Sep
2119697	might lead to assertion during code generation	2020
	Embedded Coder - Overwritten Embedded Coder Dictionary in Simulink data	16 Sep
2275086	dictionary	2020

2284691	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Write block inside a reusable subsystem that interacts with another subsystem that has an initialization function	16 Sep 2020
2184447	Embedded Coder - MATLAB crashes when generating code for a model that receives a message with an Enumeration or bus data type	16 Sep 2020
2293745	Embedded Coder - PIL:pil:ModelBlockLUTTableIsInput error from Model block SIL/PIL simulations with lookup table objects that are mapped to non-Auto storage class	16 Sep 2020
2292939	Embedded Coder - Incorrect Code Generation : Incorrect results might occur when a scalar signal that uses a custom storage class authored in TLC selects an element of a bus array	16 Sep 2020
2286124	Embedded Coder - Incorrect Code Generation : SIMD code generation results in incorrect answers for min/max operations operating on NaN inputs	16 Sep 2020
2282444	Embedded Coder - Code View hangs after post-processing generated code	16 Sep 2020
2211416	Embedded Coder - Accelerator mode model block simulation fails if referenced model uses storage classes on root-level ports	16 Sep 2020
2225876	Embedded Coder - Error in Code view after running SIL/PIL simulation	16 Sep 2020
2306101	Embedded Coder - Incorrect Code Generation: Incorrect results might occur for a model that contains a Unit Delay block connected to Stateflow chart output	11 Sep 2020
2313905	Embedded Coder - Code generation assertion when using matrix multiply operation in MATLAB Function Block with variable sized matrices	04 Sep 2020
2306102	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Simulink Function block	01 Sep 2020
2294390	Embedded Coder - Code View fails to display generated code	25 Aug 2020
2204486	Embedded Coder - Incorrect Code Generation : Undefined simulation and code generation behavior might occur when signal that drives two Outport blocks resolves to a Simulink.Signal object	14 Aug 2020
2284700	Embedded Coder - Incorrect Code Generation : Top model may not initialize global variable associated with signal originating in referenced model	11 Aug 2020

	Embedded Coder - Incorrect Code Generation: AUTOSAR generated code	16 Jul
2063366	might write uninitialized value if array data is conditionally and partially	2020
	written to root outport	
	Embedded Coder - Error when calling TLC library function	11 Jun
2238014	LibBlockInputSignalAllowScalarExpandedExpr	2020
	Embedded Coder - SIL/PIL simulation fails if model contains Reset Function	14 May
2166906	block and model step function uses function prototype control	2020
	Embedded Coder - Performance regression caused during code generation	06 Apr
2194951	for models with large data set	2020
	Embedded Coder - MATLAB might crash when generating code for a model	06 Feb
2133775	containing C action language Stateflow Chart with shift operation applied to	2020
	custom storage class	
	Embedded Coder - Model block SIL or PIL simulation produces error for	06 Feb
1934700	AUTOSAR software component with model workspace parameters mapped to	2020
	SharedParameter	
	Embedded Coder - Code generation error for AUTOSAR model in which	19 Dec
2106435	Simulink Function sends message to root outport	2019
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	11 Oct
2072645	for C++ std::string in MATLAB Function block	2019
	Embedded Coder - Incorrect Code Generation: Incorrect results are possible	16 Aug
1999672	for a model with a For Each subsystem block	2019
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	16 Aug
2007592	for a model with a Bus Assignment block and an Assignment block	2019
	Embedded Coder - MATLAB might crash while building a model with a	24 Apr
1955846	Reusable custom storage class specification on root i/o	2019
	Embedded Coder - Generated code for Stateflow Chart may contain dead	12 Feb
1709275	initialization code	2018

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Polyspace Code Prover (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Polyspace Code Prover bug reports for release R2020a

ID	Bug Report Summary	Modified
2053304	Polyspace Code Prover - Polyspace analysis stops with error: declaration is incompatible with "void OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	19 Oct 2020
2142882	Polyspace Code Prover - External constraints are not recognized on arguments passed by reference to stubbed functions	16 Sep 2020
2184422	Polyspace Code Prover - Incorrect Function not called check when using compiler pragma inline=never	16 Sep 2020
1654557	Polyspace Code Prover - Operation using wrapped values from a previous orange overflow is green even if tooltip indicates a possible second overflow	16 Sep 2020
2234024	Polyspace Code Prover - Error with behavior specification options in Polyspace analysis in client-server mode	16 Sep 2020

	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020
	Polyspace Code Prover - Error during compilation of C++ file: stl_tree.h, line	22 Apr
2190091	2142: error: no instance of constructor	2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover Server (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 5 Polyspace Code Prover Server bug reports for release R2020a

ID	Bug Report Summary	Modified

	Polyspace Code Prover - Polyspace analysis stops with error: declaration is	19 Oct
2053304	incompatible with "void	2020
	OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	
	Polyspace Code Prover - Incorrect Function not called check when using	16 Sep
2184422	compiler pragma inline=never	2020
	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Bug Finder (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 11 Polyspace Bug Finder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Bug Finder - False positive violations of AUTOSAR C++14 rule M8-	22 Sep
2301358	4-4 on function calls to static methods from objects	2020
	Polyspace Bug Finder - Polyspace fails to report some results, with the error:	21 Sep
2287440	Database::connect: failed to open the interprocess mutex	2020
	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous	16 Sep
2211362	union members	2020
	Polyspace Bug Finder - Launching an analysis from MATLAB generates the	16 Sep
2198724	error: Product required for 'pslinkrunImpl' not installed	2020
	Polyspace Bug Finder - Polyspace code metrics values saturate at	16 Sep
2292126	2147483647	2020
	Polyspace Bug Finder - polyspace-configure could not open options file	16 Sep
2196298		2020
	Polyspace Bug Finder - Missing source files or compiler options in Polyspace	16 Sep
2151011	project when polyspace-configure fails to read compiler options file	2020
	Polyspace Bug Finder - polyspace-access command in Linux crashes or fails	16 Sep
2276516	to upload or download results	2020
	Polyspace Bug Finder - Polyspace annotation not correctly applied when	16 Sep
2088723	syntax incomplete or severity field missing	2020
	Polyspace Bug Finder - polyspace-configure could not open temporary	25 Aug
2132811	options file when using Renesas SH	2020
	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined	31 Jul
2260058	macro	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Bug Finder Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder Server (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 7 Polyspace Bug Finder Server bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Bug Finder - Polyspace fails to report some results, with the	21 Sep
2287440	error: Database::connect: failed to open the interprocess mutex	2020
	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous	16 Sep
2211362	union members	2020
	Polyspace Bug Finder - Launching an analysis from MATLAB generates the	16 Sep
2198724	error: Product required for 'pslinkrunImpl' not installed	2020
	Polyspace Bug Finder - Polyspace code metrics values saturate at	16 Sep
2292126	2147483647	2020
	Polyspace Bug Finder - Polyspace annotation not correctly applied when	16 Sep
2088723	syntax incomplete or severity field missing	2020
	Polyspace Bug Finder - polyspace-configure could not open temporary	25 Aug
2132811	options file when using Renesas SH	2020

	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined	31 Jul	1
2260058	macro	2020	

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Code Inspector (19-Oct-2020 20:30:59)

Display bug reports for Simulink Code Inspector (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 5 Simulink Code Inspector bug reports for release R2020a

ID	Bug Report Summary	Modified
2310529	Simulink Code Inspector - Code inspection fails for a model containing a MATLAB Function block that accesses a nested bus	19 Oct 2020
2319094	Simulink Code Inspector - Simulink Code Inspector might fail to verify the initial value of outports of an enabled subsystem in a referenced model	18 Sep 2020

2194591	Simulink Code Inspector - Simulink Code Inspector fails code inspection when a lookup table object is passed as an argument to a referenced model	16 Sep 2020
2195404	Simulink Code Inspector - Simulink Code Inspector fails to inspect compatible shared utilities	30 Mar 2020
815642	Simulink Code Inspector - Simulink Code Inspector might fail to verify code generated from a model with redundant modeling constructs	27 Sep 2012

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Report Generator (19-Oct-2020 20:30:59)

Display bug reports for Simulink Report Generator (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 2 Simulink Report Generator bug reports for release R2020a

ID	Bug Report Summary	Modified

2198852	Simulink Report Generator - Simulink Diagram and ElementDiagram reporters error for models with custom background color	16 Sep 2020
2247728	Simulink Report Generator - Annotations not reported in Report Explorer form-based reports	16 Sep 2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Check (19-Oct-2020 20:30:59)

Display bug reports for Simulink Check (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 24 Simulink Check bug reports for release R2020a

ID	Bug Report Summary	Modified
2319269	Simulink Requirements - Requirements Traceability Report for MATLAB code file mentions obsolete file type	19 Oct 2020

2256035	Simulink Check - Model Metrics Dashboard crashes MATLAB when collecting metric data for a demo model	12 Oct 2020
2282734	Simulink Check - MAAB check Stateflow transition appearance incorrectly flags transitions crossing junctions	18 Sep 2020
2266293	Simulink Check - Check trigger signal names flags Simulink functions nested in stateflow charts	18 Sep 2020
2172579	Simulink Check - Incorrect warning with Check use of default variants(mathworks.maab.na_0036) for Label variant control mode	18 Sep 2020
2195350	Simulink Check - The check for JMAAB Check Stateflow transition appearance (mathworks.jmaab.db_0129) displays an incorrect warning	16 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2173909	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep 2020
2181624	Simulink Check - Model Transformer tool generates an error while refactoring a model to eliminate Data Store Memory blocks	16 Sep 2020
2227557	Simulink Check - Model Advisor check Check usage of Merge block flags Initialize Function block	16 Sep 2020
2231694	Simulink Check - Model Advisor check Data type selection for index signals produces an error	16 Sep 2020
2255599	Simulink Check - The Model Advisor check Check for optimal bus virtuality (ID: mathworks.design.OptBusVirtuality) flags virtual bus crossing model boundary	16 Sep 2020
2254719	Simulink Check - Model Advisor checks fail when executed by using the command line API with parallel mode option	16 Sep 2020
2253699	Simulink Check - MATLAB crashes when collecting model metrics on a model that references a protected model	16 Sep 2020
2294944	Simulink Check - Check for model elements that do not link to requirement results in an abnormal exit	16 Sep 2020
2244386	Simulink Check - JMAAB check Consistency in model element names incorrectly flags models with Bus Selector block	16 Sep 2020

2302437	Simulink Check - JMAAB check Prohibition of logical value comparison in Stateflow incorrectly flags transitions where no logical constants are used	26 Aug 2020
2302437	Statenow incorrectly mags transitions where no logical constants are used	2020
	Simulink Check - JMAAB check Condition actions and transition actions in	26 Aug
2299587	Stateflow incorrectly flags condition actions with C-style comments	2020
	Simulink Check - JMAAB check Use of named Stateflow parameters and	26 Aug
2299606	constants incorrectly flags numeric literal 1 used in increment or decrement	2020
	statement	
	Simulink Check - JMAAB check Prohibited use of implicit type casting in	24 Aug
2305505	Stateflow reports issue when comparing same enumeration type	2020
	Simulink Check - JMAAB check Comment position in transition label reports	24 Aug
2303251	issue for correctly positioned comment	2020
	Simulink Check - The model advisor check Check safety-related optimization	17 Aug
2301018	settings for data initialization displays incorrect recommended action	2020
	when Code interface packaging is set to C++	
	Simulink Check - JMAAB check "Check usage of transition conditions in	14 Aug
2302551	Stateflow transitions" (ID: mathworks.jmaab.jc_0772) incorrectly flags single	2020
	internal transitions in a Stateflow chart	

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Coverage (19-Oct-2020 20:30:59)

Display bug reports for Simulink Coverage (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Simulink Coverage bug reports for release R2020a

ID	Bug Report Summary	Modified
2304122	Simulink Coverage - Aggregated coverage data description missing from coverage report	13 Oct 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2183237	Simulink Coverage - Generating a model coverage report using an exported object can cause an error	16 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2179804	Simulink Coverage - An error occurs when a Simulink Subsystem Harness contains a block and subsystem with identical names	16 Sep 2020
2247819	Simulink Coverage - An error occurs in the Simulink Test Manager while aggregating coverage data for a Subsystem Harness if the subsystem contains a call to an external MATLAB file	16 Sep 2020
2276842	Simulink Coverage - Generating a coverage report in the Test Manager for subsystem harnesses at different levels in a library causes an assertion failure	16 Sep 2020
2267735	Simulink Coverage - Scoping coverage to requirements-based tests causes 0% coverage for subsystem test harnesses	29 Jun 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Test (19-Oct-2020 20:30:59)

Display bug reports for Simulink Test (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Test bug reports for release R2020a

ID	Bug Report Summary	Modified
2249151	Simulink Test - ModelCoveragePlugin used with Project errors or returns incorrect coverage metrics when running tests using the MATLAB Unit TestRunner	19 Oct 2020
2290935	Simulink Test - Test execution failure with parameter overrides and SIL or PIL simulation mode	09 Oct 2020
2253936	Simulink Test - Signals specified for test case in Test Manager Simulation Output section not included in results	01 Oct 2020
2326680	Simulink Test - Plot index specified in Test Manager Simulation Output Logged Signal Set not applied correctly	21 Sep 2020
2286940	Simulink Test - Project does not automatically rename usages of data dictionaries inside internal test harnesses	18 Sep 2020

2194996	Simulink Test - Results export or import fails when custom criteria diagnostic contains a null character	16 Sep 2020
2212150	Simulink Test - Incorrect override of parameters in Simulink Test	16 Sep 2020
2160783	Simulink Test - Observer port moved to new signal shows link to original signal	16 Sep 2020
2210475	Simulink Test - Test suite and test file cleanup callbacks are executed before all test cases are complete	16 Sep 2020
2204045	Simulink Test - MATLAB might crash when capturing a baseline to a spreadsheet	16 Sep 2020
2224093	Simulink Test - Cannot override logging for data store defined in data dictionary using Test Manager.	16 Sep 2020
2236833	Simulink Test - Recovered Stateflow Charts block inserted in Subsystem Reference test harness	16 Sep 2020
2249535	Simulink Test - Test result report that includes Signal Editor block data values produces an error	16 Sep 2020
2252259	Simulink Test - Iterations configured for Fast Restart mode run in Normal mode	16 Sep 2020
2267804	Simulink Test - Simulink Test Manager might crash when running tests that collect coverage	16 Sep 2020
2257194	Simulink Test - MATLAB stalls during test execution	16 Sep 2020
2201774	Simulink Test - Running steps in Test Sequence are not highlighted in the animation during simulation	16 Sep 2020
2248616	Simulink Test - Test For Model Component wizard errors when generating tests for models with configuration set references	16 Sep 2020
2261095	Simulink Test - Simulink tests using MATLAB Unit Test framework might fail if signals are logged from referenced models and iterations run in fast restart mode	25 Aug 2020
2255433	Simulink Test - Loading externally saved test harness using load_system might cause MATLAB to crash.	01 Jul 2020
2241749	Simulink Test - Running R2015a test cases with mapped inputs in R2020a might fail in Test Manager	15 Jun 2020

	Simulink Test - Running a test file containing test cases with external test	11 Jun
2249557	harnesses that contain a Signal Builder block might error	2020
	Simulink Test - Testing a component in a library when simulation mode is	11 Jun
2248003	overridden to not use model settings might fail	2020
	Simulink Test - Test execution compiles model multiple times	11 Jun
2239108		2020
	Simulink Test - Changed ports in an observer model do not highlight	11 Jun
2237793	correctly in Manager Observer dialog box	2020
	Simulink Test - Dragging ports of a subsystem interface might cause lost	11 Jun
2237774	connections in associated test harnesses	2020
	Simulink Test - Test using sltest.testmanager.run on models with fast restart	11 Jun
2236006	fail, but pass when using Test Manager	2020
	Simulink Test - Comparison results for complex signals produce "Signals not	13 Dec
2120213	aligned" warning	2019
	Simulink Test - Running test harnesses using Run with Stepper button on	13 Dec
2114999	toolstrip is not supported	2019
	Simulink Test - Test that overrides Signal Editor scenario and includes inputs	13 Dec
2112483	in the results produces an error	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Design Verifier (19-Oct-2020 20:30:59)

Display bug reports for Simulink Design Verifier (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 28 Simulink Design Verifier bug reports for release R2020a

ID	Bug Report Summary	Modified
2321185	Simulink Design Verifier - Simulink Design Verifier ignores certain justification rules in filter files	13 Oct 2020
2245496	Simulink Design Verifier - Error with exporting the test cases generated by Simulink Design Verifier to Simulink Test to a Signal Builder harness	13 Oct 2020
2316213	Simulink Design Verifier - Simulation of a SLDV generated harness containing a Stateflow chart does not use JIT	23 Sep 2020
2308596	Simulink Design Verifier - MATLAB crashes when extending manually generated test cases using Simulink Design Verifier	18 Sep 2020
2289718	Simulink Design Verifier - Simulink Design Verifier might fail to complete normally when performing Out of bound array access detection on models containing matrix-typed data with an InitialValue	18 Sep 2020
2187119	Simulink Design Verifier - sldvisactive may incorrectly return false when translating a model with model blocks	18 Sep 2020
2181612	Simulink Design Verifier - MATLAB crashes in Test Extension workflow when the configured parameters result in dead logic	18 Sep 2020
2069355	Simulink Design Verifier - Range Collection Mode as Derived ranges in Fixed-point Tool fails for export function models	18 Sep 2020
2298193	Simulink Design Verifier - slvnvmakeharness and sldvmakeharness error out and pauses the simulation when the Bus element port is of inherit:auto data type	17 Sep 2020

2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2118180	Simulink Design Verifier - Compatibility check fails for models with erroneous block specific copy action callbacks	16 Sep 2020
2126877	Simulink Design Verifier - Reusing Simulink cache file errors out when no replacement model is generated for a custom block replacement rule	16 Sep 2020
2209498	Simulink Design Verifier - Incorrect objective status reported when a model is analyzed in Accelerator simulation mode	16 Sep 2020
2202755	Simulink Design Verifier - Simulation mode set to Normal mode, once the analysis is finished	16 Sep 2020
2202754	Simulink Design Verifier - Fast Restart mode gets disabled after Simulink Design Verifier analysis	16 Sep 2020
2026246	Simulink Design Verifier - Compatibility check may fail for models containing Data Store Memory blocks	16 Sep 2020
2150560	Simulink Design Verifier - Compatibility check may fail for models containing Subsystem Reference blocks	16 Sep 2020
2172228	Simulink Design Verifier - The Simulink Design Verifier generated harness model does not simulate with design model having Out Bus Elements of heterogeneous types	16 Sep 2020
2167393	Simulink Design Verifier - Incorrect error message with sldvlogsignals when its first argument refers to a model with bus element port blocks	16 Sep 2020
1796913	Simulink Design Verifier - Incorrect Code Generation: Incorrect dead logic reported for multiport switch having constant array as control input	16 Sep 2020
2172875	Simulink Design Verifier - The change in enabled status of Proof Objective is not considered while rerunning property proving analysis	16 Sep 2020
2221035	Simulink Design Verifier - Simulink Design Verifier throws a nonintuitive error message on certain models containing MATLAB Function blocks	16 Sep 2020
2149712	Simulink Design Verifier - Compatibility check results in unclear error message for a model with Initialize-Reset-Terminate (IRT) Subsystem inside a Model Reference	16 Sep 2020
2165435	Simulink Design Verifier - Testcases are not extended when the configured parameters are of fixed-point type	16 Sep 2020
2168044	Simulink Design Verifier - Incorrect results for the Relational operator block when the block input is a nonscalar complex signal	16 Sep 2020

	Simulink Design Verifier - Incorrect analysis results on certain models	16 Sep
2278458	containing Sqrt blocks with fixed-point input signal	2020
	Simulink Design Verifier - Block replacement fails for models containing	16 Sep
2294121	Saturation Dynamic block	2020
	Simulink Design Verifier - Generating tests based on existing coverage data	27 Jul
2263987	may fail to complete normally for models with Logical Operator blocks having	2020
	unsatisfiable objectives	

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Requirements (19-Oct-2020 20:30:59)

Display bug reports for Simulink Requirements (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Requirements bug reports for release R2020a

ID	Bug Report Summary	Modified
2326401	Simulink Requirements - Import from IBM DOORS Next not working when configuration management is enabled for project	19 Oct 2020
2319269	Simulink Requirements - Requirements Traceability Report for MATLAB code file mentions obsolete file type	19 Oct 2020
2299729	Simulink Requirements - Error when creating link with IBM DOORS Next (DNG)	18 Sep 2020
2286619	Simulink Requirements - Requirements Editor might not display images in description for requirements imported with ReqIF	18 Sep 2020
2206550	Simulink Requirements - Requirements report displays unrelated text with requirement description	18 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2172917	Simulink Requirements - Links to imported DOORS Next items not listed in browser popup window on DOORS Next side	16 Sep 2020
2182761	Simulink Requirements - Requirements Editor might become frozen after deleting multiple objects	16 Sep 2020
2161457	Simulink Requirements - Import or Update from Microsoft Word fails with an error popup	16 Sep 2020
2173909	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep 2020
2200430	Simulink Requirements - Import from IBM DOORS Next Generation broken for non-default server instance	16 Sep 2020
2191769	Simulink Requirements - Requirements links lost in round trip workflow when exporting with ReqIF	16 Sep 2020
2192264	Simulink Requirements - Simulink Requirements exported ReqIF file has wrong attribute definition references	16 Sep 2020
2210569	Simulink Requirements - Unrecgonized date-time format error when importing DOORS module	16 Sep 2020

2172030	Simulink Requirements - Requirements Editor becomes slow when opening requirement sets with large number of incoming links	16 Sep 2020
2222794	Simulink Requirements - Traceability link from Requirement to Simulink Test Case appears unresolved	16 Sep 2020
2282997	Simulink Requirements - Failure to login to IBM DOORS Next when performing oslc.configure() procedure	16 Sep 2020
2277377	Simulink Requirements - Import from DOORS Next module or query does not work with port number 443	16 Sep 2020
2123991	Simulink Requirements - Requirements imported from IBM DOORS Next missing "Updated on" Revision information	16 Sep 2020
2292859	Simulink Requirements - Error when trying to enter a numeric DNG ID into the Location field of Outgoing Links dialog	25 Aug 2020
2253967	Simulink Requirements - MATLAB stops responding after updating previously imported requirements in Requirements Editor	30 Jul 2020
2251452	Simulink Requirements - ReqIF ID values might change between revisions when exporting to ReqIF	30 Jul 2020
2247892	Simulink Requirements - Traceability Matrix does not render link icons correctly	11 Jun 2020
2247724	Simulink Requirements - Failure to connect with IBM DOORS Next (DNG) when importing requirements	11 Jun 2020
2210749	Simulink Requirements - 3rd-Party requirements tool does not accept ReqIF exported by Simulink Requirements	11 Jun 2020
2232550	Simulink Requirements - Displayed column widths in Requirements Editor might be reset	14 May 2020
2205640	Simulink Requirements - MATLAB crashes while updating requirement from IBM DOORS Next server	22 Apr 2020
2163041	Simulink Requirements - Missing requirement links for Stateflow objects in library after resolve-push	06 Feb 2020
1970160	Simulink Requirements - Error when clicking Show in document for references imported from IBM Rational DOORS Next Generation module	24 Apr 2019

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink (19-Oct-2020 20:30:59)

Display bug reports for Simulink (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 138 Simulink bug reports for release R2020a

ID	Bug Report Summary	
		Modified
	Simulink - Subsystem Reference block's port properties are lost on reloading	19 Oct
2191445	the model or if the contents of the Subysystem Reference block are refreshed	2020
	Simulink - Simulink message blocks display an error when signal range	19 Oct
2331693	checking is enabled	2020
	Simulink - MATLAB might crash when linked library blocks are opened and	19 Oct
2321058	closed repeatedly without clearing global data objects	2020
	Simulink - Signal Editor fails to import more than one signal from a CSV file	19 Oct
2336629		2020

2288774	Simulink - Connections inside a Subsystem Reference block appears broken when a model is loaded	19 Oct 2020
2250114	Simulink - MATLAB might crash when using Simulink buses in a MATLAB Function block	19 Oct 2020
2315337	Simulink - Closed data dictionary might cause unnecessary rebuild of model reference simulation or code generation target	19 Oct 2020
2298515	Simulink - Variant Subsystem may generate unconditional global data corresponding to the global data store memory	08 Oct 2020
2244485	Simulink - Discrete-Time Integrator block logs incorrect minimum and maximum values for fixed-point data types with slope and bias scaling	06 Oct 2020
2327253	Simulink - Variant Subsystem block ' <block name="">' contains no active variant controls error with Allow zero active variant controls</block>	30 Sep 2020
2220171	Simulink - Failure to display differences in configuration objects stored in Simulink data dictionaries	25 Sep 2020
2294354	Simulink - Delays while editing Simulink model with Simscape blocks	18 Sep 2020
2284137	Simulink - Autorename fails for a Simulink bus object containing multiple bus elements.	18 Sep 2020
2237803	Simulink - Shared utility code folder error for modified Vehicle Dynamics Blockset and Powertrain Blockset example	18 Sep 2020
2138826	Simulink - Incorrect Code Generation: Incorrect overflow in Simulink.LookupTable and Simulink.Breakpoint objects when number of breakpoints exceed the limit for derived Tunable Size data type	18 Sep 2020
2199445	Simulink - Simulating a model hierarchy with model arguments that span multiple levels might produce incorrect results	18 Sep 2020
2199426	Simulink - Incorrect Code Generation: Simulink might not rebuild rapid accelerator target when accelerator target is up to date	18 Sep 2020
2184507	Simulink - Incorrect Code Generation: Incorrect simulation results for some simulation modes for models containing model reference hierarchy with particular LUT object struct order settings using Simulink.LookupTableObject as model argument	18 Sep 2020
2183524	Simulink - MATLAB crashes during model update when adding in previously missing custom source code	18 Sep 2020
2301599	Simulink - MATLAB might crash when querying the input elements of a Bus Selector block with get_param	18 Sep 2020

2051822	Simulink - Rapid Accelerator mode does not work on systems running CentOS 6.1	16 Sep 2020
2102580	Simulink - Signal hierarchy for buses cannot be accessed from within the InitFcn callback	16 Sep 2020
2102941	Simulink - Simulink blocks with non-ASCII white space in their name may cause errors when running scripts or editing Simulink models	16 Sep 2020
2149061	Simulink - Inconsistent return type for bus port properties CompiledPortDesignMin and CompiledPortDesignMax	16 Sep 2020
1716548	Simulink - Incorrect Code Generation: A disabled mask parameter on a linked block with mask-on-mask evaluates to model workspace value if it references to model argument	16 Sep 2020
2173514	Simulink - A model with string data with non-Auto custom storage class can generate code that does not compile	16 Sep 2020
2174691	Simulink - Model workspace variables cannot be tuned using SimulationInput with Fast Restart	16 Sep 2020
2178009	Simulink - Saving a model with Subsystem Reference having Simulink Function block fails	16 Sep 2020
2166363	Simulink - Model simulation is slow or hangs if certain UI components are open during simulation	16 Sep 2020
2185362	Simulink - Cannot set Number of Newton's iterations or Extrapolation order parameters with odeN solver and implicit integration method	16 Sep 2020
2161202	Simulink - Simulation error when C Caller block calls a function which has a struct containing single element array field	16 Sep 2020
2175593	Simulink - Incorrect Code Generation: Changing value of global variable used in non-tunable block parameter does not trigger rebuild of model reference code	16 Sep 2020
2177472	Simulink - Dataflow execution domains might produce incorrect results when AdvancedOptControl parameter is set to -SLCI	16 Sep 2020
2194030	Simulink - MATLAB might crash when opening MATLAB System block	16 Sep 2020
2142188	Simulink - Incorrect Code Generation: In a model containing blocks from the SoC Blockset and asynchronous sample time, the sorted order might be incorrect	16 Sep 2020
2204299	Simulink - Incorrect Code Generation: Runtime error not reported when switch expression is non-finite valued in MATLAB function	16 Sep 2020

2188608	Simulink - Model update hangs at "Configuring subsystem output ports"	16 Sep 2020
2183028	Simulink - Incorrect Code Generation: Blocks that use elapsed sample time (such as Discrete Time Integrator or Weighted Sample Time Math) might produce wrong answers if placed inside an aperiodic partition	16 Sep 2020
2181168	Simulink - Incorrect Code Generation: Block reduction might result in incorrect simulation results for a model containing a Signal Conversion block	16 Sep 2020
2204425	Simulink - MATLAB might crash during rtwbuild for a model with reference arguments and mask parameter callbacks	16 Sep 2020
2146419	Simulink - packNGo fails to package files extracted from protected model	16 Sep 2020
2197825	Simulink - Incorrect Code Generation: Unit Conversion block returns incorrect generated code for conversions with offsets and fixed-point data types with bias	16 Sep 2020
2190732	Simulink - Incorrect Code Generation: Incorrect simulation results for models containing model reference hierarchy using Simulink.LookupTableObject as model argument with inconsistent LUT object struct order settings between parent and child models	16 Sep 2020
2190649	Simulink - Incorrect Code Generation: Simulation results may be incorrect in the Accelerator and Rapid Accelerator mode for models with Assignment blocks inside a For Iterator subsystem	16 Sep 2020
2182575	Simulink - MATLAB renders the project root incorrectly and throws NullPointerException when creating a project from a Simulink Model Manifest	16 Sep 2020
2190539	Simulink - Variable change of IC block parameter ignored for referenced model running in accelerator mode with fast restart	16 Sep 2020
2195177	Simulink - Error using rapid accelerator for referenced model using parameter with Identifier specified	16 Sep 2020
2180415	Simulink - In batch mode, MATLAB incorrectly opens a dialog box.	16 Sep 2020
2207651	Simulink - MATLAB might crash when the Property Inspector updates	16 Sep 2020
2210165	Simulink - Simulink Toolstrip is blank when username contains non-ASCII characters	16 Sep 2020
2181581	Simulink - Update diagram might crash for model reference hierarchy in accelerator mode with enumerated types in data dictionary	16 Sep 2020

2194990	Simulink - Error occurs when AliasType used in a C Function block with no external typedef is provided	16 Sep 2020
2199363	Simulink - Simulink.io.SignalBuilderSpreadsheet export method on signal or dataset containing signal with duplicate points might error	16 Sep 2020
2140354	Simulink - Incorrect code generation for models configured for concurrent execution when the subsystems mapped to tasks contain inline variant blocks	16 Sep 2020
2145541	Simulink - Incorrect Code Generation: Incorrect results with Variant Source blocks connected to duplicate inports referenced from top model	16 Sep 2020
2226484	Simulink - Simulink crashes while saving a model containing a Subsystem Reference block	16 Sep 2020
2207599	Simulink - Using keyboard shortcuts while editing a signal name might result in unexpected behavior	16 Sep 2020
2217654	Simulink - Subsystem Reference changes cannot be saved from the top model, if it is inside a Model Reference	16 Sep 2020
2122052	Simulink - Error when Bus Creator block specifies one input and the signal name	16 Sep 2020
2228853	Simulink - Signal Editor prematurely indicates that a save operation is complete	16 Sep 2020
1963239	Simulink - Sample time colors overwrite the block foreground colors	16 Sep 2020
2230896	Simulink - Simulink fails to simulate tool-coupling FMU in slave MATLAB session if model contains one-dimensional vector signal as a root input or output	16 Sep 2020
2214176	Simulink - C Function block local variables defined as extern are visible in generated code	16 Sep 2020
2200332	Simulink - Incorrect Code Generation: Simulink.Parameter object with 64-bit integer value not checked against Min and Max properties	16 Sep 2020
2196562	Simulink - Incorrect error message with variants and mask workspace variables during Fast Restart mode	16 Sep 2020
2188555	Simulink - Rapid accelerator simulation fails on Windows with generic error	16 Sep 2020
2138382	Simulink - Generating multicore code from a model configured for concurrent execution might produce a TLC error	16 Sep 2020

2137825	Simulink - Update diagram fails for referenced model when anonymous structure type matches multiple bus types	16 Sep 2020
2201427	Simulink - C Function block may use code specified in the section were MATLAB_MEX_FILE was supposed to be defined when simulated in model reference accelerated mode	16 Sep 2020
2233543	Simulink - MATLAB might crash when simulating or generating code for dataflow domains that contain virtual subsystems	16 Sep 2020
2231832	Simulink - Merge block is incorrectly linearized to zero when in a specific configset setting and directly driven by concatenate block	16 Sep 2020
2117950	Simulink - Delays while editing Simulink model with variant and Simscape blocks	16 Sep 2020
1961332	Simulink - Incorrect Code Generation: Simulink ignores the runtime value of a model argument when used as a Model Workspace data object's value	16 Sep 2020
2196385	Simulink - Ignored values for model diagnostic parameters NonCurrentReleaseOperatingPointMsg and OperatingPointInterfaceChecksumMismatchMsg	16 Sep 2020
2116338	Simulink - Configuration Parameters dialog shows empty search results	16 Sep 2020
2197396	Simulink - Check for root Inports with missing properties incorrectly flags inherited sample time	16 Sep 2020
2240185	Simulink - MATLAB might crash while opening Simulink Library Browser with incorrectly configured custom libraries	16 Sep 2020
2249569	Simulink - Blockset Designer project takes a long time to load	16 Sep 2020
2257593	Simulink - MATLAB might crash while opening/closing model in Simulink Onramp	16 Sep 2020
2263307	Simulink - Incorrect Code Generation: Discrepancy between results for normal vs. SIL/PIL simulation for export-function Model block with Initialize port	16 Sep 2020
2266916	Simulink - Simulink toolstrip appears blank when proxy information set in MATLAB preferences	16 Sep 2020
2189094	Simulink - Slow comparison and merge for Simulink models with a large number of signal line changes.	16 Sep 2020
2265093	Simulink - When using Signal Editor interface, duplicating or using copy and paste on signal plotted inside dataset might cause non-stop spinner	16 Sep 2020

2257216	Simulink - Performance degradation when simulating nesting export-function models with run time check	16 Sep 2020
2253512	Simulink - Edits in Signal Editor interface might not be saved when editing a signal value in table with duplicate time points	16 Sep 2020
2252279	Simulink - Project Upgrade fails for Simulink libraries with nested library blocks	16 Sep 2020
2220717	Simulink - Slow comparison and merge for Simulink models that contain a large number of Stateflow charts and states.	16 Sep 2020
2210169	Simulink - MATLAB might crash when printing in System Composer or AUTOSAR	16 Sep 2020
2200254	Simulink - Incorrect Code Generation: Improper sample time propagation to nonvirtual blocks outside of Initialize, Reset and Terminate subsystems	16 Sep 2020
2282394	Simulink - Simulink models with calls to functions utilizing sparse matrices may produce an unexpected error during simulation and C++ code generation	16 Sep 2020
2166629	Simulink - Creating a model from a template using new_system does not execute PreLoadFcn	16 Sep 2020
2270797	Simulink - Incorrect Code Generation: Direct Lookup Table block might produce incorrect results in simulation and generated code when table is provided as block input with underspecified data type	16 Sep 2020
2282944	Simulink - Simulink might crash when multiple models simulate simultaneously, but the models finishing last contain string signals	16 Sep 2020
2264575	Simulink - Incorrect Code Generation: Complex to Magnitude-Angle block returns incorrect value at angle output port when input is NaN	16 Sep 2020
2260188	Simulink - Incorrect Code Generation: HDL Reciprocal block produces wrong answer for zero-valued fixed-point inputs	16 Sep 2020
2215680	Simulink - Incorrect Code Generation: Logging Queue block's output might cause issues when simulating using rapid accelerator mode, simulating referenced models in accelerator mode, or running generated code	16 Sep 2020
2275719	Simulink - Branched lines might be disconnected while automatically arranging system	16 Sep 2020
2276174	Simulink - Simulation Data Inspector archive run limit does not limit the size of data logged in temp directory	16 Sep 2020
2269322	Simulink - Lookup Table blocks unable to perform numerical perturbation when using Cubic spline or Akima spline interpolation method	16 Sep 2020

2226392	Simulink - S-Function Builder may fail to build when specifying non-ASCII include paths	16 Sep 2020
2288311	Simulink - Renaming the root node in the Blockset Tree panel in Simulink Blockset Designer causes an error	16 Sep 2020
2263719	Simulink - Incorrect Code Generation: Incorrect output from IC block when using Parameter Writer block to set IC block's initial value parameter	16 Sep 2020
2116344	Simulink - Warning for S-Function Builder version when the number of inputs or outputs is 0	16 Sep 2020
2276193	Simulink - Simulating a model with ToFile block inside a subsystem reference with parsim throws an error	16 Sep 2020
2324683	Simulink - Masked block with Custom Table errors out during simulation with open mask dialog	15 Sep 2020
2318628	Simulink - Incorrect Code Generation: Mask popup parameter values may not apply correctly on refreshing the linked blocks	08 Sep 2020
2269636	Simulink - MATLAB crash during Simulink simulation if you launch Simulation Data Inspector or Logic Analyzer for the first time.	02 Sep 2020
2283497	Simulink - A large number of global data shows up for some Schedule Editor models in the Model Comparison Tool	27 Aug 2020
2254912	Simulink - Simulink may crash when fixed-point logging is enabled and dataflow execution domains contain LMS blocks	18 Aug 2020
2291040	Simulink - Simulink may crash when calling a scoped Simulink function inside a referenced model from a MATLAB System block using the model name instead of the block name	17 Aug 2020
2306699	Simulink - Web-based UI controls (Simulink Toolstrip, Stateflow Symbols pane, Interface Editor, etc.) might appear blank	10 Aug 2020
2175826	Simulink - Some model hierarchies might throw an incorrect error when simulated	30 Jul 2020
2288727	Simulink - Calculate Best-Precision Scaling button in Sqrt block dialog does not work	20 Jul 2020
2257263	Simulink - Error when launching the Bus Editor from a data dictionary in the Model Explorer	02 Jul 2020
2249105	Simulink - Comparing Simulink models that contain one or more Subsystem Reference blocks might cause MATLAB to crash	22 Jun 2020

2249246	Simulink - Deletion/corruption of the boost_interprocess shared subdirectory created by C++ Boost interprocess when opening a Simulink model	22 Jun 2020
2223907	Simulink - Export-function error when creating a protected model from some models with a scoped Simulink function	15 Jun 2020
2248321	Simulink - MATLAB occasionally crashes when opening a library block attached to a Bus Selector block that contains out-of-date bus information	12 Jun 2020
2236991	Simulink - MATLAB might crash on Mac OSX Mojave	09 Jun 2020
2244012	Simulink - Incorrect Code Generation: Specify output when source is unconnected may be ignored for value mapped to name "ground"	04 Jun 2020
2244372	Simulink - Incorrect Code Generation: Incorrect variant condition propagation with referenced protected model	04 Jun 2020
2183254	Simulink - MATLAB crashes when linearizing Interpolation Using Prelookup block with lookup table object	29 May 2020
2206122	Simulink - Incorrect Code Generation: Lookup table might produce incorrect answers for fixed-point Breakpoints with non-trivial slope and Table Data of single data type	12 May 2020
2092463	Simulink - Favorited buttons in Simulink Toolstrip might not be saved immediately between MATLAB and Simulink sessions	13 Dec 2019
2076821	Simulink - MATLAB might crash after running a model with Simulink Editor side panes open	11 Oct 2019
2068223	Simulink - Unable to open variant using Simulink Toolstrip	11 Oct 2019
2093701	Simulink - Incorrect Code Generation: Incorrect simulation results for coding pattern involving While loop with empty body	11 Oct 2019
2048807	Simulink - Schedule Editor comparison in Model Comparison tool is missing.	11 Oct 2019
1879774	Simulink - MATLAB might hang when a Simulink modal dialog box and .NET form or WPF app are open	02 Oct 2019
2036507	Simulink - Incorrect Code Generation: External initial condition applied instead of Initial state configuration parameter for block in referenced model	20 Sep 2019
2006881	Simulink - Accessing property of signal object in model workspace can crash MATLAB	16 Aug 2019

2017043	Simulink - n-D Lookup table block run-time object reports incorrect number of DWorks for certain block configurations	15 Jul 2019
2034803	Simulink - MATLAB might crash during model update when sample time colors are enabled	12 Jul 2019
1865227	Simulink - Mapping Simulink port with bus object data type to AUTOSAR port might crash MATLAB	26 Mar 2019
1919278	Simulink - Uncompilable code in model reference hierarchy when Block Parameter is a MATLAB Structure	13 Mar 2019
1887969	Simulink - Figure shown in parsim example is incorrect	14 Jan 2019
1735332	Simulink - Integrator with reset behaves differently when adding limit output with the limits set to -inf and inf	17 Dec 2018
1646194	Simulink - MATLAB may crash when updating or simulating a model on a Rational ClearCase MultiVersion File System (MVFS)	16 Oct 2017

Λ Less

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

Modeling Standards for DO-254
✓0 <a>©0 <a>00 <a>00
©

Display model version information

Not Run

78

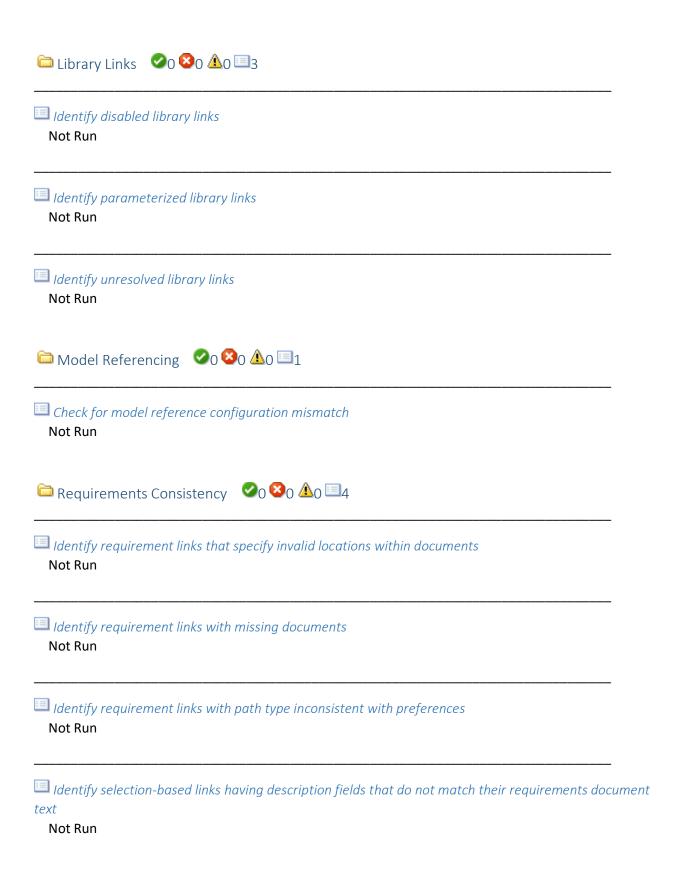
□ High-Integrity Systems ○ ○ ○ ○ ○ □ 48
© Simulink
Check usage of Abs blocks Not Run
Check usage of conditionally executed subsystems Not Run
Check Relational Operator blocks equating floating-point types Not Run
Check usage of Relational Operator blocks Not Run
Check usage of Logical Operator blocks Not Run
Check usage of bit operation blocks Not Run
Check for inconsistent vector indexing methods Not Run
Check data types for blocks with index signals Not Run
Check for root Inports with missing properties Not Run

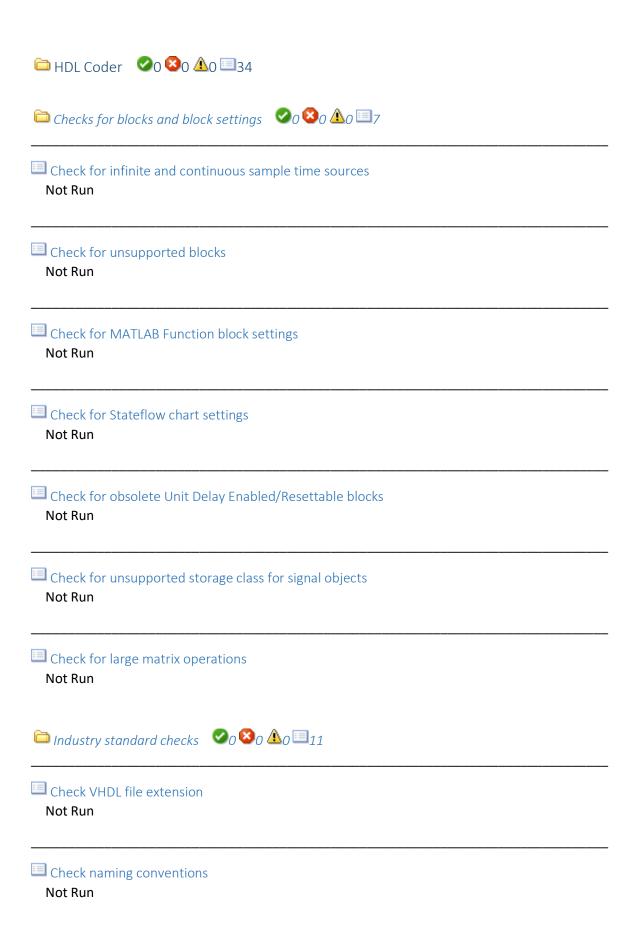
Check for root Inports with missing range definitions Not Run
Check for root Outports with missing range definitions Not Run
Check usage of Assignment blocks Not Run
Check global variables in graphical functions Not Run
Check usage of Gain blocks Not Run
Check for length of user-defined object names Not Run
Check data type of loop control variables Not Run
☐ Stateflow ✓0 🗷 0 🗓 11
Check Stateflow charts for ordering of states and transitions Not Run
Check usage of bitwise operations in Stateflow charts Not Run
Check for Strong Data Typing with Simulink I/O Not Run

Check Stateflow debugging options Not Run
Check Stateflow charts for transition paths that cross parallel state boundaries Not Run
Check for inappropriate use of transition paths Not Run
Check naming of ports in Stateflow charts Not Run
Check scoping of Stateflow data objects Not Run
Check Stateflow charts for uniquely defined data objects Not Run
Check usage of shift operations for Stateflow data Not Run
Check Stateflow charts for unary operators Not Run
MATLAB ✓0 🖎 0 Å0 💷 7
Check usage of standardized MATLAB function headers Not Run
Check MATLAB Code Analyzer messages Not Run

Check if/elseif/else patterns in MATLAB Function blocks Not Run
Check switch statements in MATLAB Function blocks Not Run
Check usage of relational operators in MATLAB Function blocks Not Run
Check usage of equality operators in MATLAB Function blocks Not Run
Check usage of logical operators and functions in MATLAB Function blocks Not Run
© Configuration ♥0 ♥0 ♠0 □11
Check safety-related diagnostic settings for saving Not Run
Check safety-related model referencing settings Not Run
Check safety-related block reduction optimization settings Not Run
Check safety-related diagnostic settings for parameters Not Run
Check safety-related diagnostic settings for model initialization Not Run

Check safety-related diagnostic settings for signal connectivity Not Run
Check safety-related diagnostic settings for bus connectivity Not Run
Check safety-related diagnostic settings for type conversions Not Run
Check safety-related diagnostic settings for model referencing Not Run
Check safety-related diagnostic settings for Stateflow Not Run
Check safety-related diagnostic settings for signal data Not Run
Check model file name Not Run
Check model object names Not Run
Check for model elements that do not link to requirements Not Run





Check top-level subsystem/port names Not Run
Check module/entity names Not Run
Check package file names Not Run
Check signal and port names Not Run
Check generics Not Run
Check clock, reset, and enable signals Not Run
Check architecture name Not Run
Check entity and architecture Not Run
Check clock settings Not Run
Check for safe model parameters Not Run

Check for global reset setting for Xilinx and Altera devices Not Run
Check inline configurations setting Not Run
Check for visualization settings Not Run
Check delay balancing setting Not Run
Check algebraic loops Not Run
ightharpoonup Native Floating Point checks $ ightharpoonup 0$ $ ig$
Check for blocks with nonzero output latency Not Run
Check blocks with nonzero ulp error Not Run
Check for single datatypes in the model Not Run
Check for double datatypes in the model with Native Floating Point Not Run
Check for Data Type Conversion blocks with incompatible settings Not Run



Simulink 0 0 0 0 0 0 0
Check usage of Abs blocks Not Run
Check usage of Math Function blocks (rem and reciprocal functions) Not Run
Check usage of Math Function blocks (log and log10 functions) Not Run
Check usage of While Iterator blocks Not Run
Check usage of For and While Iterator subsystems Not Run
Check usage of For Iterator blocks Not Run
Check usage of If blocks and If Action Subsystem blocks Not Run
Check usage of Switch Case blocks and Switch Case Action Subsystem blocks Not Run
Check usage of conditionally executed subsystems Not Run
Check usage of Merge blocks Not Run

Check Relational Operator blocks equating floating-point types Not Run
Check usage of Relational Operator blocks Not Run
Check usage of Logical Operator blocks Not Run
Check usage of bit operation blocks Not Run
Check for blocks not recommended for C/C++ production code deployment Not Run
Check for inconsistent vector indexing methods Not Run
Check data types for blocks with index signals Not Run
Check usage of variant blocks Not Run
Check usage of lookup table blocks Not Run
Check usage of Signal Routing blocks Not Run
Check for root Inports with missing properties Not Run

Check for root Inports with missing range definitions Not Run
Check for root Outports with missing range definitions Not Run
Check usage of Assignment blocks Not Run
Check global variables in graphical functions Not Run
Check usage of Gain blocks Not Run
Check for length of user-defined object names Not Run
Check data type of loop control variables Not Run
☐ Stateflow O O O O O O O
Check state machine type of Stateflow charts Not Run
Check Stateflow charts for ordering of states and transitions Not Run
Check usage of bitwise operations in Stateflow charts Not Run

Check for Strong Data Typing with Simulink I/O Not Run
Check Stateflow debugging options Not Run
Check Stateflow charts for transition paths that cross parallel state boundaries Not Run
Check for inappropriate use of transition paths Not Run
Check Stateflow charts for strong data typing Not Run
Check naming of ports in Stateflow charts Not Run
Check scoping of Stateflow data objects Not Run
Check Stateflow charts for uniquely defined data objects Not Run
Check usage of shift operations for Stateflow data Not Run
Check assignment operations in Stateflow charts Not Run

Check Stateflow charts for unary operators Not Run
Check usage of standardized MATLAB function headers Not Run
Check for MATLAB Function interfaces with inherited properties Not Run
Check MATLAB Function metrics Not Run
Check MATLAB Code Analyzer messages Not Run
Check if/elseif/else patterns in MATLAB Function blocks Not Run
Check switch statements in MATLAB Function blocks Not Run
Check usage of relational operators in MATLAB Function blocks Not Run
Check usage of equality operators in MATLAB Function blocks Not Run
Check usage of logical operators and functions in MATLAB Function blocks Not Run

Check type and size of condition expressions Not Run
© Configuration ♥0 ♥0 ♠0 □32
Check safety-related diagnostic settings for data store memory Not Run
Check safety-related diagnostic settings for saving Not Run
Check safety-related model referencing settings Not Run
Check safety-related code generation settings for comments Not Run
Check safety-related code generation interface settings Not Run
Check safety-related solver settings for simulation time Not Run
Check safety-related solver settings for solver options Not Run
Check safety-related solver settings for tasking and sample-time Not Run
Check safety-related diagnostic settings for solvers Not Run

Check safety-related diagnostic settings for sample time Not Run
Check safety-related optimization settings for logic signals Not Run
Check safety-related block reduction optimization settings Not Run
Check safety-related code generation settings for code style Not Run
Check safety-related optimization settings for application lifespan Not Run
Check safety-related code generation identifier settings Not Run
Check safety-related optimization settings for loop unrolling threshold Not Run
Check safety-related optimization settings for data initialization Not Run
Check safety-related optimization settings for data type conversions Not Run
Check safety-related optimization settings for division arithmetic exceptions Not Run
Check safety-related optimization settings for specified minimum and maximum values Not Run

Check safety-related diagnostic settings for compatibility Not Run
Check safety-related diagnostic settings for parameters Not Run
Check safety-related diagnostic settings for Merge blocks Not Run
Check safety-related diagnostic settings for model initialization Not Run
Check safety-related diagnostic settings for data used for debugging Not Run
Check safety-related diagnostic settings for signal connectivity Not Run
Check safety-related diagnostic settings for bus connectivity Not Run
Check safety-related diagnostic settings that apply to function-call connectivity Not Run
Check safety-related diagnostic settings for type conversions Not Run
Check safety-related diagnostic settings for model referencing Not Run

Check safety-related diagnostic settings for Stateflow Not Run
Check safety-related diagnostic settings for signal data Not Run
Check model file name Not Run
Check model object names Not Run
Check for model elements that do not link to requirements Not Run
© Code
Check for blocks not recommended for MISRA C:2012 Not Run
Check configuration parameters for MISRA C:2012 Not Run
□ Bug Reports □ 0 0 0 0 0 14
Display bug reports for Embedded Coder Not Run

Display bug reports for IEC Certification Kit Not Run
Display bug reports for Polyspace Code Prover Not Run
Display bug reports for Polyspace Bug Finder Not Run
Display bug reports for Polyspace Code Prover Server Not Run
Display bug reports for Polyspace Bug Finder Server Not Run
Display bug reports for Simulink Design Verifier Not Run
Display bug reports for Simulink PLC Coder Not Run
Display bug reports for Simulink Check Not Run
Display bug reports for Simulink Coverage Not Run
Display bug reports for Simulink Test Not Run
Display bug reports for Simulink Requirements Not Run

Display bug reports for AUTOSAR Blockset Not Run	
Display bug reports for HDL Coder Not Run	
Modeling Standards for IEC 62304	36 ❷0 ▲16 ℡4

Display configuration management data (19-Oct-2020 20:30:59)

Display model configuration and checksum information

Model configuration and checksum information

Attribute	Value
Model Version	1.138
Author	Jayesh Patil
Date	Mon Oct 19 18:15:32 2020
Model Checksum	3934919800 188903040 3653151760 1357945227

Display model metrics and complexity report (19-Oct-2020 20:30:59)

Display number of elements and name, level, and depth of subsystems for the model or subsystem

Model metrics information

Display number of elements for Simulink blocks and Stateflow constructs

Summary

Element Type	Count
Inport	72
Outport	66
SubSystem	34

Simulink

Block Type	Count
Inport	72
Outport	66
SubSystem	34
Constant	17
RelationalOperator	9
Logic	6
Switch	5
Gain	3

Model complexity information

Display name, level, and depth of subsystems

Maximum Subsystem Depth: 5

Subsystem Depth

Subsystem Name	Lev el	Dep th
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner"	1	4
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change"	2	2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1		

	1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning	2	2
Torning		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit	3	1
ioning/Slider Gain		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider	3	1
Gain1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain2		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider	3	1
Gain3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain4"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain4		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain5"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain6"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain6		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	2	3
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional	3	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positi onal_Longitudional/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional/Slider Gain	4	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain3"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Convers ion "	2	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conver sion	2	1

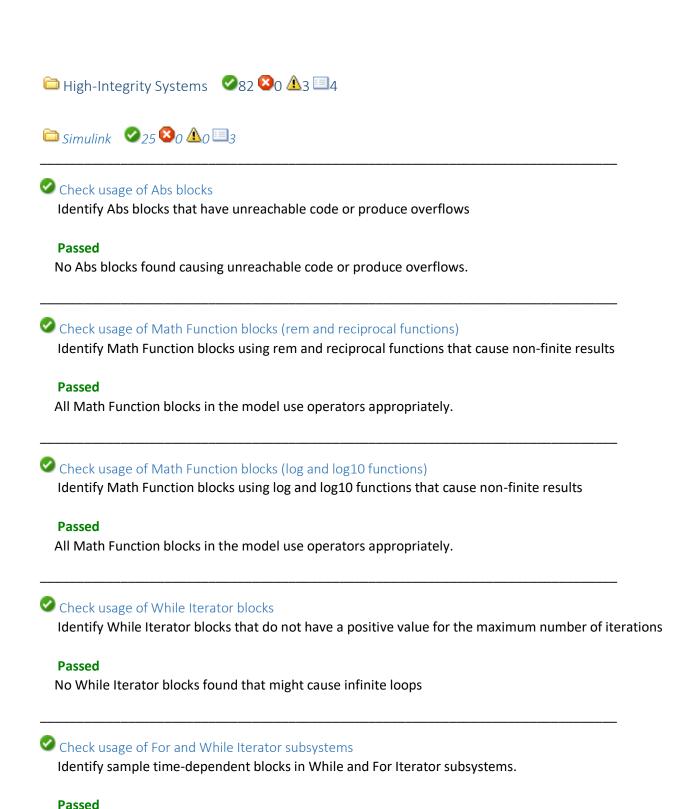
Λ Less

Check for unconnected objects (19-Oct-2020 20:30:59)

Identify unconnected lines, input ports, and output ports in the model

Passed

There are no unconnected lines, input ports, and output ports in this model.



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No sample time-dependent blocks in For or While Iterator subsystems.

Check usage of For Iterator blocks

Identify For Iterator blocks that cause variable loops

Passed

No For Iterator blocks found that cause variable loops.

Check usage of If blocks and If Action Subsystem blocks

Identify If and If Action Subsystem blocks without else conditions

Passed

No If blocks with questionable configurations or connections were found.

Check usage of Switch Case blocks and Switch Case Action Subsystem blocks

Identify inappropriately used Switch Case blocks and Switch Case Action Subsystem blocks

Passed

No Switch Case blocks with questionable configurations or connections were found.

Check usage of conditionally executed subsystems

Identify inappropriate blocks in conditionally executed subsystems.

Passed

No blocks with improper sample times or asynchronously executed sample-time dependent blocks were found.

Check usage of Merge blocks

Identify Merge blocks constructs which can lead to ambiguous behavior.

Passed

No merge blocks found which can lead to ambiguous behavior.

Check Relational Operator blocks equating floating-point types

Identify Relational Operator blocks that equate floating-point types

Passed

No Relational Operator blocks found that equate floating-point types.

Check usage of Relational Operator blocks

Identify Relational Operator blocks that operate on different data types or have a non-boolean output

Passed

No Relational Operator blocks found that operate on different data types or have a non-boolean output.

Check usage of Logical Operator blocks

Identify Logical Operator blocks that operate on non-boolean data types

Passed

No Logical Operator blocks found that operate on non-boolean data types.

Check usage of bit operation blocks

Identify bit operation blocks with signed data types as inputs

Passed

No bit operation blocks found with signed data types as inputs.

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

Identify blocks not supported by code generation or not recommended for C/C++ production code deployment.

Passed

No blocks found which are not recommended for C/C++ production code deployment.

Check for inconsistent vector indexing methods

Identify inconsistent usage of vector indexing methods across the model or subsystem

Passed

No blocks found using inconsistent indexing modes.

Check data types for blocks with index signals

Identify blocks with index signals that have data types other than integers or enums.

Passed

No blocks or charts found with index signals or variables that have data types other than integer or enums.

Check usage of variant blocks

Check variant block settings that might result in code that doesn't trace back to requirements.

Passed

There are no variant blocks that have "Generate preprocessor conditionals" active.

Check usage of lookup table blocks

Check for Lookup Table blocks, Prelookup blocks and Interpolation blocks that do not generate out-of-range checking code.

Passed

No lookup table blocks found to not generate out-of-range checking code.

Check usage of Signal Routing blocks

Identify usage of Signal Routing blocks in Simulink that might impact safety

Passed

No Switch blocks that might generate code with inequality operations (\sim =) in expressions where at least one side of the expression is a floating-point variable or constant were found.

Check for root Inports with missing properties

Not Run

Check for root Inports with missing range definitions

Identify root-level Inport blocks with missing or erroneous minimum or maximum values. Inport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Inport range properties at the model root level.

Check for root Outports with missing range definitions

Identify root-level Outport blocks with missing or erroneous minimum or maximum values. Outport block minimum and maximum values are specified with block parameters or Simulink signal objects

that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Outport range properties at the model root level.

Note: Root Outports with inherited data types are not analyzed by this check.

Check usage of Assignment blocks

Identify Assignment blocks whose array fields are not initialized.

Passed

All Assignment blocks are configured with block parameter "Action if any output element is not assigned" set to Warning or Error.

Check global variables in graphical functions

Identify expressions that both read and write to the same global data.

Passed

No expressions found that both read and write to the same global data.

Check usage of Gain blocks

Not Run

Check for length of user-defined object names

Not Run

Check data type of loop control variables

Identify loop control variables using non-integer data types.

Passed

No For Iterator blocks or MATLAB Function blocks found using non-integer data type for loop control counter variable.



Check state machine type of Stateflow charts

Identify Stateflow Charts whose State Machine Type differs from the type set in the Model Advisor Configuration Editor.

Passed

No Stateflow Charts found that deviate from recommended state machine type.

Check Stateflow charts for ordering of states and transitions

Identify Stateflow charts that do not use explicit ordering of parallel states and transitions.

Passed

No Stateflow Charts found that deviate from recommended state/transition execution order settings.

Check usage of bitwise operations in Stateflow charts

Identify usage of signed data type operands to bitwise operations in Stateflow charts.

Passed

No Stateflow objects found that use signed data type operands with bitwise operations.

Check for Strong Data Typing with Simulink I/O

Verify configuration settings for strong data typing on the boundaries between Simulink and Stateflow

Passed

No Stateflow charts found that set 'Use Strong Data Typing with Simulink I/O' to off.

Check Stateflow debugging options

Identify whether Stateflow debugging options are set appropriately

Passed

All Stateflow debugging options are set appropriately.

Check Stateflow charts for transition paths that cross parallel state boundaries Identify transition paths that cross parallel state boundaries in Stateflow charts.

Passed

No transition paths crossing parallel state boundaries were found in Stateflow charts.

Check for inappropriate use of transition paths

Identify transition paths that go into and out of a state without ending on a substate.

Passed

No transition paths found that go into and out of a state without ending on a substate.

Check Stateflow charts for strong data typing

Identify expressions with variables and parameters of different data types in Stateflow objects.

Passed

No expressions were found with variables and parameters of different data types.

Check naming of ports in Stateflow charts

Identify mismatches between names of Stateflow ports and associated signals

Passed

There are no name mismatches between Stateflow ports and associated signals

Check scoping of Stateflow data objects

Identify Stateflow data objects with local scope that are not scoped at the chart level or below

Passed

All Stateflow data objects are properly scoped.

Check Stateflow charts for uniquely defined data objects

Identify local data identifiers that are defined in multiple scopes within a chart.

Passed

No Stateflow data identifiers found to be defined in multiple scopes.

Check usage of shift operations for Stateflow data

Identify usage of Stateflow bit-shifting operations that might impact safety.

Passed

There are no Stateflow bit-shifting operations greater than the bit-width of the input or output type.

Check assignment operations in Stateflow charts

Identify assignment operations in Stateflow objects which cast integer and fixed-point calculations to wider datatype.

Passed

No assignment operations were found which cast integer and fixed-point calculations to wider datatype.

Check Stateflow charts for unary operators

Identify unary minus operators on unsigned data types in Stateflow objects.

Passed

No unary minus operations on unsigned data types were found in Stateflow objects.



Check usage of standardized MATLAB function headers

Identify usage of standardized function headers in MATLAB function.

Passed

No MATLAB function blocks found without standardized function headers.

⊘ Check for MATLAB Function interfaces with inherited properties

Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity or data type properties.

Passed

No MATLAB Function interfaces with inherited complexity or data type properties found.

Check MATLAB Function metrics

Identify MATLAB Functions that violate code and complexity metrics.

Passed

No MATLAB Function blocks found that violate code and complexity metrics.

⊘ Check MATLAB Code Analyzer messages

Check MATLAB functions for %#codegen directive, MATLAB Code Analyzer messages, and justification message IDs.

Passed

No MATLAB Function blocks found with Code Analyzer messages, missing %#codegen directive or inappropriate usage of justification message IDs.

Check if/elseif/else patterns in MATLAB Function blocks

Identify if/elseif/else patterns without appropriate else conditions in embedded MATLAB code

Passed

No inappropriate if/elseif/else patterns found.

Check switch statements in MATLAB Function blocks

Identify inappropriately used switch statements in embedded MATLAB code

Passed

No inappropriately used switch statements found.

Check usage of relational operators in MATLAB Function blocks

Identify relational operators operating on operands of different data types in MATLAB Function blocks.

Passed

No relational operators found operating on operands of different data types.

Check usage of equality operators in MATLAB Function blocks

Identify equality operators used with floating-point operands in MATLAB Function blocks.

Passed

No equality operators found operating on floating-point operands.

Check usage of logical operators and functions in MATLAB Function blocks

Identify logical operators and functions operating on operands with numerical data types.

Passed

No logical operators or functions found operating on operands with numerical data types.

Check type and size of condition expressions

Identify condition expressions which are not logical scalars.

Passed

No condition expressions found which are not logical scalars.



☑ Check safety-related diagnostic settings for data store memory

Check diagnostic settings in the model configuration that apply to data store memory and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended
Status			Values
Pass	Detect read before write		EnableAllAsError
	(ReadBeforeWriteMsg)	EnableAllAsError	
Pass	Detect write after read (WriteAfterReadMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Detect write after write (WriteAfterWriteMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Multitask data store (MultiTaskDSMMsg)	error	error
Pass	Duplicate data store names	error	error
	(UniqueDataStoreMsg)		

igstar	Check	safety	/-related	diagnostic	settings	for	saving
	CITCCI	Juicty	/ I Clutcu	alagilostic	Jettings	101	JUVILIE

Check diagnostic settings in the model configuration that apply to saving model files.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block diagram contains disabled library links (SaveWithDisabledLinksMsg)	error	error
Pass	Block diagram contains parameterized library links (SaveWithParameterizedLinksMsg)	error	error

⊘ Check safety-related model referencing settings

Check model referencing settings in the model configuration that might impact safety.

Passed

	Parameter	Current Value	Recommended Values
Stat			
us			

Pass	Rebuild (UpdateModelReferenceTargets)	IfOutOfDateOrStructuralC hange	AssumeUpToDate, IfOutOfDateOrStructuralC hange
Pass	Pass fixed-size scalar root inputs by value for code generation (ModelReferencePassRootInputsByR eference) *	on	on
Pass	Minimize algebraic loop occurrences (ModelReferenceMinAlgLoopOccurre nces)	off	off

Recommended Action

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check safety-related code generation settings for comments

Check code generation settings in the model configuration that apply comments and might impact safety.

Passed

	Parameter	Current	Recommended	Prerequisites
Status		Value	Values	

Pass	Include comments	on	on	
	(GenerateComments)			
Pass	Simulink block comments (SimulinkBlockComments)	on	on	GenerateComments
Pass	Show eliminated blocks (ShowEliminatedStatement)	on	on	GenerateComments
D -	System target file	ERT	ERT based	
Pass	(SystemTargetFile)	based	target	
		target		
Pass	Verbose comments for 'Model default' storage class (ForceParamTrailComments)	on	on	GenerateComments
D -	Include comments	on	on	
Pass	(GenerateComments)			
Pass	Requirements in block comments	on	on	SystemTargetFile,
	(ReqsInCode)			GenerateComments



Check code generation interface settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	non-finite numbers (SupportNonFinite)	off	off	
Pass	absolute time (SupportAbsoluteTime)	off	off	SystemTargetFile

Pass	continuous time	off	off	
	(SupportContinuousTime)			SystemTargetFile
D -	System target file (SystemTargetFile)	ERT	ERT based	
Pass		based	target	
		target		
Pass	non-inlined S-functions	off	off	
	(SupportNonInlinedSFcns)			SystemTargetFile
Pass	Classic call interface (GRTInterface)	off	off	
Pass	Single output/update function	on	on	
	(CombineOutputUpdateFcns)			
Pass	Terminate function required	off	off	
	(IncludeMdlTerminateFcn)			SystemTargetFile
Pass	Remove error status field in real-time	on	on	
	model data structure			SystemTargetFile
	(SuppressErrorStatus)			
Pass	MAT-file logging (MatFileLogging)	off	off	

Check safety-related solver settings for simulation time

Identify if the model Start time is set to 0 and Stop time is less than the Application Life Span.

Passed

No issues found with solver settings for simulation time.

Check safety-related solver settings for solver options

Check solver settings in the model configuration that apply to solvers and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Type (SolverType)	Fixed-step	Fixed-step
Pass	Solver (SolverName)	FixedStepDiscrete	FixedStepDiscrete

△ Check safety-related solver settings for tasking and sample-time

Check solver settings in the model configuration that apply to tasking and sample-time constraints and might impact safety.

Warning

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

Status	Parameter	Current Value	Not Recommended Values
Warning	Automatically handle rate transition for data transfer (AutoInsertRateTranBlk)	on	on

Recommended Action

Clear Automatically handle rate transition for data transfer checkbox.



Check safety-related diagnostic settings for solvers

Check diagnostic settings in the model configuration that apply to solvers and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Algebraic loop (AlgebraicLoopMsg)	error	error
Pass	Minimize algebraic loop (ArtificialAlgebraicLoopMsg)	error	error
Pass	Block priority violation (BlockPriorityViolationMsg)	error	error
Pass	Automatic solver parameter selection (SolverPrmCheckMsg)	error	error
Pass	State name clash (StateNameClashWarn)	warning	warning

Check safety-related diagnostic settings for sample time

Check diagnostic settings in the model configuration that apply to sample time and might impact safety.

Passed

	Parameter	Current	Recommended
Status		Value	Values
Pass	Source block specifies -1 sample time (InheritedTsInSrcMsg)	error	error
Pass	Multitask rate transition (MultiTaskRateTransMsg)	error	error

Pass	Multitask conditionally executed subsystem (MultiTaskCondExecSysMsg)	error	error
Pass	Enforce sample times specified by Signal Specification blocks (SigSpecEnsureSampleTimeMsg)	error	error
Pass	Single task rate transition (SingleTaskRateTransMsg)	error	error
Pass	Tasks with equal priority (TasksWithSamePriorityMsg)	error	error
Pass	Unspecified inheritability of sample time (UnknownTsInhSupMsg)	error	error



Check optimization settings in the model configuration that apply to logic signals and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Implement logic signals as Boolean data (vs. double) (BooleanDataType)	on	on

Check safety-related block reduction optimization settings

Check block reduction optimization settings in the model configuration that might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block reduction (BlockReduction)	off	off

Check safety-related code generation settings for code style

Check code generation settings in the model configuration that apply to code style and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTargetFile
Pass	Preserve operand order in expression (PreserveExpressionOrder)	on	on	SystemTargetFile
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	

⊘ Check safety-related optimization settings for application lifespan

Check optimization settings in the model configuration that apply to application lifespan and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Application lifespan (days) (LifeSpan)	inf	Inf

✓ Check safety-related code generation identifier settings

Check code generation identifier settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Not Recommended Values	Prerequisites
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target		
Pass	Minimum mangle length (MangleLength)	4		1, 2, 3	SystemTargetFile

Check safety-related optimization settings for loop unrolling threshold

Check optimization settings in the model configuration that apply to loop unrolling threshold and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Not Recommended Values
Pass	Loop unrolling threshold (RollThreshold)	5	0, 1

△ Check safety-related optimization settings for data initialization

Check optimization settings in the model configuration that apply to data initialization and might impact safety.

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	Remove root level I/O zero initialization (ZeroExternalMemoryAtStartup) *	off	on	SystemTargetFile
Warning	Remove internal data zero initialization (ZeroInternalMemoryAtStartup) *	off	on	SystemTargetFile

Recommended Action

Follow the links in the result table to modify the model configuration parameters.

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check safety-related optimization settings for data type conversions

Check optimization settings in the model configuration that apply to data type conversions and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Remove code from floating-point to integer conversions that wraps out-of-range values (EfficientFloat2IntCast)	on	on



Check safety-related optimization settings for division arithmetic exceptions

Check optimization settings in the model configuration that apply to division arithmetic exceptions and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values	Prerequisites
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pass	Remove code that protects against division arithmetic exceptions (NoFixptDivByZeroProtection)	off	off	SystemTargetFile

Check safety-related optimization settings for specified minimum and maximum values

Check optimization settings in the model configuration that apply to specified minimum and maximum values and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Optimize using the specified minimum and maximum values (UseSpecifiedMinMax)	off	off	SystemTargetFile

D -	System target file (SystemTargetFile)	ERT	ERT based target	
Pass		based		
		target		

⊘ Check safety-related diagnostic settings for compatibility

Check diagnostic settings in the model configuration that affect compatibility and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	S-function upgrades needed (SFcnCompatibilityMsg)	error	error

Check safety-related diagnostic settings for parameters

Check diagnostic settings in the model configuration that apply to parameters and might impact safety.

Passed

	Parameter	Current	Recommended
Status		Value	Values
Pass	Detect downcast (ParameterDowncastMsg)	error	error
Pass	Detect underflow (ParameterUnderflowMsg)	error	error
Pass	Detect overflow (ParameterOverflowMsg)	error	error
Pass	Detect precision loss (ParameterPrecisionLossMsg)	error	error
Pass	Detect loss of tunability (ParameterTunabilityLossMsg)	error	error

⊘ Check safety-related diagnostic settings for Merge blocks

Check diagnostic settings in the model configuration that apply to Merge blocks and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Detect multiple driving blocks executing at the same time step (MergeDetectMultiDrivingBlocksExec)	error	error

Check safety-related diagnostic settings for model initialization

Check diagnostic settings in the model configuration that affect model initialization and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Underspecified initialization detection (UnderspecifiedInitializationDetection)	Simplified	Simplified

Check safety-related diagnostic settings for data used for debugging

Check diagnostic settings in the model configuration that apply to data used for debugging and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Model Verification block enabling (AssertControl)	DisableAll	DisableAll

Check safety-related diagnostic settings for signal connectivity

Check diagnostic settings in the model configuration that apply to signal connectivity and might impact safety.

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	Signal label mismatch (SignalLabelMismatchMsg)	error	error
Pass	Unconnected block input ports (UnconnectedInputMsg)	error	error
Pass	Unconnected block output ports (UnconnectedOutputMsg)	error	error
Pass	Unconnected line (UnconnectedLineMsg)	error	error



Check safety-related diagnostic settings for bus connectivity

Check diagnostic settings in the model configuration that apply to bus connectivity and might impact safety.

Passed

	Parameter	Current Value	Recommended Values
Statu			
s			
Pass	Unspecified bus object at root	error	error
	Outport block		

	(RootOutportRequireBusObject)		
Pass	Element name mismatch (BusObjectLabelMismatch)	error	error
Pass	Bus signal treated as vector (StrictBusMsg)	ErrorOnBusTreatedAsVecto r	ErrorOnBusTreatedAsVecto r
Pass	Non-bus signals treated as bus signals (NonBusSignalsTreatedAsBus)	error	error

Check safety-related diagnostic settings that apply to function-call connectivity

Check diagnostic settings in the model configuration that apply to function-call connectivity and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	InvalidFcnCallConnMsg	error	error
Pass	Context-dependent inputs (FcnCallInpInsideContextMsg)	error	error

Check safety-related diagnostic settings for type conversions

Check diagnostic settings in the model configuration that apply to type conversions and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unnecessary type conversions (UnnecessaryDatatypeConvMsg)	warning	warning
Pass	Vector/matrix block input conversion (VectorMatrixConversionMsg)	error	error
Pass	32-bit integer to single precision float conversion (Int32ToFloatConvMsg)	warning	warning

Check safety-related diagnostic settings for model referencing

Check diagnostic settings in the model configuration that apply to model referencing and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Port and parameter mismatch (ModelReferenceIOMismatchMessage)	error	error

Pass	Invalid root Inport/Outport block connection (ModelReferenceIOMsg)	error	error
Pass	Unsupported data logging (ModelReferenceDataLoggingMessage)	error	error

✓ Check safety-related diagnostic settings for Stateflow

Check diagnostic settings in the model configuration that apply to Stateflow and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Unexpected backtracking (SFUnexpectedBacktrackingDiag)	error	error
Pass	Invalid input data access in chart initialization	error	error
	(SFInvalidInputDataAccessInChartInitDiag)		
Pass	No unconditional default transitions	error	error
	(SFNoUnconditionalDefaultTransitionDiag)		
Pass	Transition outside natural parent	error	error
	(SFTransitionOutsideNaturalParentDiag)		
Pass	Unreachable execution path	error	error
	(SFUnreachableExecutionPathDiag)		
Pass	Undirected event broadcasts	error	error
	(SFUndirectedBroadcastEventsDiag)		
Pass	Transition action specified before condition action	error	error
	(SFTransitionActionBeforeConditionDiag)		



Check diagnostic settings in the model configuration that apply to signal data and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended
Status			Values
Pass	Signal resolution (SignalResolutionControl)		None,
		UseLocalSettings	UseLocalSettings
Pass	Division by singular matrix	error	error
	(CheckMatrixSingularityMsg)		
Pass	Underspecified data types	error	error
	(UnderSpecifiedDataTypeMsg)		
Pass	Wrap on overflow (IntegerOverflowMsg)	error	error
Pass	Saturate on overflow (IntegerSaturationMsg)	error	error
Pass	Inf or NaN block output (SignalInfNanChecking)	error	error
Pass	"rt" prefix for identifiers (RTPrefix)	error	error
Pass	Simulation range checking	error	error
	(SignalRangeChecking)		







Identify inappropriate characters and length issues in model file name

No issues found with model file name.



⚠ Check model object names

Identify invalid names of following model objects (first invalid name fragment is highlighted):

- **Blocks**
- Signals
- **Parameters**
- **Buses**
- Stateflow elements

Warning

The following model objects have invalid names:

Block	Name
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection"	
title="Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional"	
title="Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional"	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional	

SliderGain
SliderGain1
SliderGain2
SliderGain3
SliderGain5
SliderGain6
SliderGain7

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da	SliderGain8
ta_Conditioning/Slider Gain8	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant"	CompareToCons tant
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1"	CompareToCons tant1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1	

	T
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2	LogicalOperator 2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1	RelationalOpera tor1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2	RelationalOpera tor2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain1"	SliderGain1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain4"	SliderGain4
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain4	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider	SliderGain5
Gain5" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Suppressed Output/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Later	

al_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Lateral_Sign_Value_in_ISO_Coordinates	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al	LogicalOperator
Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al	LogicalOperator
Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator1"	RelationalOpera tor1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor2
Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor3
Operator3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator3	

	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign _Positional_Longitudional/Slider Gain"	Silderdain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Sign_Positional_Longitudional/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_C onversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion	Vehicle_Speed_ Conversion
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_ Conversion	Yaw_Rate_Conv ersion

Signal	Name
Wrong_Way_Driver_Warning	
Wrong_Way_Driver_Warning	

Parameter used in	Name	Defined in
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection		data dictionary
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional		data dictionary

Recommended Action

Change flagged names of model objects



Check for model elements that do not link to requirements

Not Run



Check for blocks not recommended for MISRA C:2012

Identify blocks that are not recommended for MISRA C:2012 compliant code generation.

Passed

None of the blocks are defined as "not recommended" for MISRA C:2012 compliant code generation.



⊘ Check configuration parameters for MISRA C:2012

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

Passed

Sta tus	Parameter	Current Value	Recommended Values	Prerequisites
Pas s	Model Verification block enabling (AssertControl)	DisableAll	DisableAll	
D - Pas s	Shared code placement (UtilityFuncGeneration)	Shared location	Shared location	
Pas s	Generate shared constants (GenerateSharedConst ants)	off	off	UtilityFuncGe neration
D - Pas s	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pas s	continuous time (SupportContinuousTi me)	off	off	SystemTarge tFile
Pas s	non-inlined S-functions (SupportNonInlinedSFc ns)	off	off	SystemTarge tFile

Pas s	MAT-file logging (MatFileLogging)	off	off	
Pas s	Code replacement library (CodeReplacementLibr ary)	None	None, AUTOSAR 4.0	
Pas s	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTarge tFile
Pas s	Casting modes (CastingMode)	Standards	Standards	SystemTarge tFile
Pas s	System-generated identifiers (InternalIdentifier)	Shortened	Shortened	SystemTarge tFile
Pas s	Signed integer division rounds to (ProdIntDivRoundTo)	Zero	Zero, Floor	
Pas s	Use division for fixed- point net slope computation (UseDivisionForNetSlop eComputation)	UseDivisionForReciprocal sOfIntegersOnly	on, UseDivisionForReciprocal sOfIntegersOnly	
Pas s	Replace multiplications by powers of two with signed bitwise shifts (EnableSignedLeftShifts)	off	off	SystemTarge tFile
Pas s	Allow right shifts on signed integers (EnableSignedRightShifts)	off	off	SystemTarge tFile
Pas s	Wrap on overflow (IntegerOverflowMsg)	error	warning, error	

Pas s	Inf or NaN block output (SignalInfNanChecking)	error	warning, error	
Pas s	Dynamic memory allocation in MATLAB functions (MATLABDynamicMem Alloc)	off	off	
Pas s	External mode (ExtMode)	off	off	
Pas s	Undirected event broadcasts (SFUndirectedBroadcas tEventsDiag)	error	error	
Pas s	Compile-time recursion limit for MATLAB functions (CompileTimeRecursion Limit)	0	0	
Pas s	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursi on)	off	off	
D - Pas s	Include comments (GenerateComments)	on	on	
Pas s	MATLAB user comments (MATLABFcnDesc)	on	on	GenerateCo mments, SystemTarge tFile



△ Display bug reports for Embedded Coder (19-Oct-2020 20:30:59)

Display bug reports for Embedded Coder (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 75 Embedded Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Embedded Coder - Incorrect Code Generation: err output port of NR Polar	19 Oct
2284457	Decoder gives wrong answer	2020
	Embedded Coder - Code generation may error with a 'Unrecognized method,	19 Oct
2309735	property, or field 'Identifier' for class 'RTW.DataImplementation' message	2020
	Embedded Coder - Code generation report creation fails when using	19 Oct
2309212	rtwreport function	2020
	Embedded Coder - Getter function for bus arrays, which return by value,	19 Oct
2308491	used as a pointer return in the algorithm code	2020
	Embedded Coder - Names of logged signals are not propagated during SIL	19 Oct
2292131	and PIL simulations	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	19 Oct
2328023	for MATLAB code in which the loop bounds are unknown at compile time and	2020
	the lower bound is greater than the upper bound	
	Embedded Coder - Incorrect Code Generation: Model produces incorrect	19 Oct
2315073	answer when one or more reusable subsystems receive 1-D input and N-D	2020
	input in row-major layout	

2306193	Embedded Coder - Incorrect Code Generation: Incorrect result might occur when a MATLAB System block calls a Simulink function that contains a Data Store Read or Data Store Write block	08 Oct 2020
2321014	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Model block	07 Oct 2020
2301617	Embedded Coder - Incorrect Code Generation: Model reference call gets removed when a Bus outport is directly attached to a Model block	30 Sep 2020
2297280	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a referenced model	23 Sep 2020
2029502	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing multiple Reusable custom storage class with a branched root Inport	16 Sep 2020
2131505	Embedded Coder - Incorrect Code Generation : Model that uses row-major array layout and complex types containing fixed-point data types might generate incorrect results	16 Sep 2020
2133942	Embedded Coder - Code generator places code for asynchronously triggered atomic subsystem in wrong location	16 Sep 2020
2176228	Embedded Coder - Embedded Coder fails to generate correct code from a Simulink Code Inspector compatible model if it defines instance parameters	16 Sep 2020
2111370	Embedded Coder - Persistent global variable used within a Parallel for- Loops(parfor) present in a MATLAB Function block or MATLAB System block may result in code that does not compile	16 Sep 2020
2192558	Embedded Coder - Incorrect Code Generation : Customized step function prototype with custom storage class on Root-level Outport might generate incorrect code	16 Sep 2020
2189985	Embedded Coder - Incorrect Code Generation : Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2191117	Embedded Coder - Incorrect Code Generation : Tunable parameters in non-inlined S-function might lead to incorrect code	16 Sep 2020
2181053	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing a series of directly connected Bus Creator blocks	16 Sep 2020
2190935	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing Data Store Memory and MATLAB System blocks	16 Sep 2020
2209352	Embedded Coder - Code generation error with global Data Store Memory and Export-Function model	16 Sep 2020

2176178	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a bus data type across a reusable atomic subsystem	16 Sep 2020
2213080	Embedded Coder - MATLAB might crash when generating code for a model that contains subsystems	16 Sep 2020
2218742	Embedded Coder - Incorrect Code Generation : Generated code does not initialize instance-specific parameters for models that specify dynamic allocation	16 Sep 2020
2197821	MATLAB Coder - Incorrect Code Generation : Output of set operations with the 'rows' option might not be in sortrows order when NaNs are present	16 Sep 2020
2192241	Embedded Coder - XCP-based external mode fails for binaries with debug symbols for empty compilation units	16 Sep 2020
2190021	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a Selector block that connects to a Unit Delay block	16 Sep 2020
2216985	Embedded Coder - Incorrect Code Generation : Incorrect code generation for a function-call, triggered, or enabled and triggered subsystem that is configured for reusable function packaging	16 Sep 2020
2199240	Embedded Coder - Code generation error when subsystem contains Stateflow chart and execution time profiling is enabled	16 Sep 2020
2215349	Embedded Coder - MATLAB may crash when using the getDataInterfaces function of Code Descriptor API	16 Sep 2020
2218634	Embedded Coder - Missing example files in documentation topic "Access Data Through Functions by Using Storage Classes in Embedded Coder Dictionary"	16 Sep 2020
2178595	Embedded Coder - SIL simulation with Microsoft Visual C++ compiler option /TP produces compiler error	16 Sep 2020
2207911	Embedded Coder - Incorrect Code Generation : Incorrect generated code for model with DQ Limiter block and Inverse Park Transform block	16 Sep 2020
2232273	Embedded Coder - Incorrect Code Generation: Constant sample time output signal in referenced model might lead to incorrect code	16 Sep 2020
2221392	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a Unit Delay block inside a For Iterator or While Iterator subsystem	16 Sep 2020
2221375	Embedded Coder - Incorrect Code Generation : Numerical mismatch between normal and accelerator mode simulation for variable dimension inputs when the configuration parameter UseRowMajorAlgorithm is selected	16 Sep 2020

2122070	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Unit Delay block inside a For Each Subsystem block	16 Sep 2020
2192341	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Stateflow chart	16 Sep 2020
2244678	Embedded Coder - Incorrect Code Generation: Incorrect code might be generated for a model containing a MATLAB Function block with similar expressions over struct type variables	16 Sep 2020
2203079	Embedded Coder - Uncompilable generated code might occur for MATLAB code containing a loop that operates on variables of different data types with SIMD enabled	16 Sep 2020
2204585	Embedded Coder - Incorrect Code Generation: Signal object InitialValue ignored on root inputs of referenced models when storage class is 'Model default'	16 Sep 2020
2210185	Embedded Coder - AUTOSAR Diagnostic Event Manager event failure or success not flagged if event ID counter exceeds rather than meets threshold	16 Sep 2020
2247270	Embedded Coder - Incorrect Code Generation : Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2249030	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Reset Function block	16 Sep 2020
2248045	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing Data Store Memory block and a For Iterator Subsystem or a While Iterator Subsystem	16 Sep 2020
2248226	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Memory block interacting with a reusable subsystem configured to minimize algebraic loop occurrences	16 Sep 2020
2119697	Embedded Coder - Stateflow chart inside rate grouped Simulink Function might lead to assertion during code generation	16 Sep 2020
2275086	Embedded Coder - Overwritten Embedded Coder Dictionary in Simulink data dictionary	16 Sep 2020
2284691	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Write block inside a reusable subsystem that interacts with another subsystem that has an initialization function	16 Sep 2020
2184447	Embedded Coder - MATLAB crashes when generating code for a model that receives a message with an Enumeration or bus data type	16 Sep 2020

	Embedded Coder - PIL:pil:ModelBlockLUTTableIsInput error from Model	16 Sep
2293745	block SIL/PIL simulations with lookup table objects that are mapped to non-	2020
	Auto storage class	
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	16 Sep
2292939	when a scalar signal that uses a custom storage class authored in TLC selects	2020
223233	an element of a bus array	2020
	an element of a bas analy	
	Embedded Coder - Incorrect Code Generation: SIMD code generation results	16 Sep
2286124	in incorrect answers for min/max operations operating on NaN inputs	2020
	Embedded Coder - Code View hangs after post-processing generated code	16 Sep
2282444		2020
	Embedded Coder - Accelerator mode model block simulation fails if	16 Sep
2211416	referenced model uses storage classes on root-level ports	2020
2211410	·	2020
	Embedded Coder - Error in Code view after running SIL/PIL simulation	16 Sep
2225876		2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	11 Sep
2306101	for a model that contains a Unit Delay block connected to Stateflow chart	2020
	output	
	Embedded Coder - Code generation assertion when using matrix multiply	04 Sep
2313905	operation in MATLAB Function Block with variable sized matrices	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	01 Sep
2306102	for a model that contains a Simulink Function block	2020
	Embedded Coder - Code View fails to display generated code	2E Aug
2294390	Embedded Coder - Code view fails to display generated code	25 Aug 2020
2234330		2020
	Embedded Coder - Incorrect Code Generation: Undefined simulation and	14 Aug
2204486	code generation behavior might occur when signal that drives two Outport	2020
	blocks resolves to a Simulink.Signal object	
	Embedded Coder - Incorrect Code Generation: Top model may not initialize	11 Aug
2284700	global variable associated with signal originating in referenced model	2020
	Emboddod Codor Incomest Code Coronation: ALITOCAD coments desired	16 1
2063366	Embedded Coder - Incorrect Code Generation : AUTOSAR generated code might write uninitialized value if array data is conditionally and partially	16 Jul 2020
2003300	written to root outport	2020
	whiteh to root outport	
	Embedded Coder - Error when calling TLC library function	11 Jun
2238014	LibBlockInputSignalAllowScalarExpandedExpr	2020
	Embedded Coder - SIL/PIL simulation fails if model contains Reset Function	14 May
2166906	block and model step function uses function prototype control	2020

2194951	Embedded Coder - Performance regression caused during code generation for models with large data set	06 Apr 2020
2133775	Embedded Coder - MATLAB might crash when generating code for a model containing C action language Stateflow Chart with shift operation applied to custom storage class	06 Feb 2020
1934700	Embedded Coder - Model block SIL or PIL simulation produces error for AUTOSAR software component with model workspace parameters mapped to SharedParameter	06 Feb 2020
2106435	Embedded Coder - Code generation error for AUTOSAR model in which Simulink Function sends message to root outport	19 Dec 2019
2072645	Embedded Coder - Incorrect Code Generation: Incorrect results might occur for C++ std::string in MATLAB Function block	11 Oct 2019
1999672	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a For Each subsystem block	16 Aug 2019
2007592	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model with a Bus Assignment block and an Assignment block	16 Aug 2019
1955846	Embedded Coder - MATLAB might crash while building a model with a Reusable custom storage class specification on root i/o	24 Apr 2019
1709275	Embedded Coder - Generated code for Stateflow Chart may contain dead initialization code	12 Feb 2018

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



Display bug reports for IEC Certification Kit (19-Oct-2020 20:30:59)

Display bug reports for IEC Certification Kit (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Passed

There are no IEC Certification Kit bug reports for release R2020a.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Polyspace Code Prover (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Polyspace Code Prover bug reports for release R2020a

ID	Bug Report Summary	Modified
2053304	Polyspace Code Prover - Polyspace analysis stops with error: declaration is incompatible with "void OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	19 Oct 2020
2142882	Polyspace Code Prover - External constraints are not recognized on arguments passed by reference to stubbed functions	16 Sep 2020
2184422	Polyspace Code Prover - Incorrect Function not called check when using compiler pragma inline=never	16 Sep 2020

	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Error with behavior specification options in	16 Sep
2234024	Polyspace analysis in client-server mode	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020
	Polyspace Code Prover - Error during compilation of C++ file: stl_tree.h, line	22 Apr
2190091	2142: error: no instance of constructor	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Bug Finder (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 11 Polyspace Bug Finder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Bug Finder - False positive violations of AUTOSAR C++14 rule M8-	22 Sep
2301358	4-4 on function calls to static methods from objects	2020
	Polyspace Bug Finder - Polyspace fails to report some results, with the error:	21 Sep
2287440	Database::connect: failed to open the interprocess mutex	2020
	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous	16 Sep
2211362	union members	2020
	Polyspace Bug Finder - Launching an analysis from MATLAB generates the	16 Sep
2198724	error: Product required for 'pslinkrunImpl' not installed	2020
	Polyspace Bug Finder - Polyspace code metrics values saturate at	16 Sep
2292126	2147483647	2020
	Polyspace Bug Finder - polyspace-configure could not open options file	16 Sep
2196298		2020
	Polyspace Bug Finder - Missing source files or compiler options in Polyspace	16 Sep
2151011	project when polyspace-configure fails to read compiler options file	2020
	Polyspace Bug Finder - polyspace-access command in Linux crashes or fails	16 Sep
2276516	to upload or download results	2020
	Polyspace Bug Finder - Polyspace annotation not correctly applied when	16 Sep
2088723	syntax incomplete or severity field missing	2020
	Polyspace Bug Finder - polyspace-configure could not open temporary	25 Aug
2132811	options file when using Renesas SH	2020
	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined	31 Jul
2260058	macro	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover Server (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 5 Polyspace Code Prover Server bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Code Prover - Polyspace analysis stops with error: declaration is	19 Oct
2053304	incompatible with "void	2020
	OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	
	Polyspace Code Prover - Incorrect Function not called check when using	16 Sep
2184422	compiler pragma inline=never	2020
	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Polyspace Bug Finder Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder Server (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 7 Polyspace Bug Finder Server bug reports for release R2020a

ID	Bug Report Summary	Modified
2287440	Polyspace Bug Finder - Polyspace fails to report some results, with the error: Database::connect: failed to open the interprocess mutex	21 Sep 2020
2211362	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous union members	16 Sep 2020
2198724	Polyspace Bug Finder - Launching an analysis from MATLAB generates the error: Product required for 'pslinkrunImpl' not installed	16 Sep 2020
2292126	Polyspace Bug Finder - Polyspace code metrics values saturate at 2147483647	16 Sep 2020
2088723	Polyspace Bug Finder - Polyspace annotation not correctly applied when syntax incomplete or severity field missing	16 Sep 2020

2132811	Polyspace Bug Finder - polyspace-configure could not open temporary options file when using Renesas SH	25 Aug 2020
2260058	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined macro	31 Jul 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Design Verifier (19-Oct-2020 20:30:59)

Display bug reports for Simulink Design Verifier (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 28 Simulink Design Verifier bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Design Verifier - Simulink Design Verifier ignores certain	13 Oct
2321185	justification rules in filter files	2020

Simulink Design Verifier to Simulink Test to a Signal Builder harness 2020 Simulink Design Verifier - Simulation of a SLDV generated harness containing a Stateflow chart does not use JIT Simulink Design Verifier - MATLAB crashes when extending manually generated test cases using Simulink Design Verifier might fail to complete normally when performing Out of bound array access detection on models containing matrix-typed data with an Initial/Value Simulink Design Verifier - Simulink Design Verifier might fail to complete normally when performing Out of bound array access detection on models containing matrix-typed data with an Initial/Value Simulink Design Verifier - Sidvisactive may incorrectly return false when translating a model with model blocks Simulink Design Verifier - MATLAB crashes in Test Extension workflow when the configured parameters result in dead logic Simulink Design Verifier - Range Collection Mode as Derived ranges in Fixed-point Tool fails for export function models Simulink Design Verifier - Sinvnwnakeharness and sldvmakeharness error out and pauses the simulation when the Bus element port is of inherit:auto data type Simulink Design Verifier - Sinvnwnakeharness and sldvmakeharness error out and pauses the simulation when the Bus element port is of inherit:auto data type Simulink Check - Error message with Function-Call Subsystem added as slice 2020 Simulink Design Verifier - Compatibility check fails for models with erroneous block specific copy action callbacks Simulink Design Verifier - Reusing Simulink cache file errors out when no replacement model is generated for a custom block replacement rule Simulink Design Verifier - Fast Restart mode gets disabled after Simulink Design Verifier analysis Simulink Design Verifier - Fast Restart mode gets disabled after Simulink Design Verifier analysis Simulink Design Verifier - Compatibility check may fail for models containing Simulink Design Verifier - Compatibility check may fail for models containing Simulink Design Verifie		Simulink Design Verifier - Error with exporting the test cases generated by	13 Oct
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2202754 Design Verifier analysis Simulink Design Verifier - Compatibility check may fail for models containing Data Store Memory blocks Simulink Design Verifier - Compatibility check may fail for models containing 16 Sep 2020	2202755	analysis is finished	2020
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Simulink Design Verifier - Compatibility check may fail for models containing 16 Sep			· ·
	2026246	Data Store Memory blocks	2020
2150560 Subsystem Reference blocks 2020			-
	2150560	Subsystem Reference blocks	2020

2172228	Simulink Design Verifier - The Simulink Design Verifier generated harness model does not simulate with design model having Out Bus Elements of heterogeneous types	16 Sep 2020
2167393	Simulink Design Verifier - Incorrect error message with sldvlogsignals when its first argument refers to a model with bus element port blocks	16 Sep 2020
1796913	Simulink Design Verifier - Incorrect Code Generation: Incorrect dead logic reported for multiport switch having constant array as control input	16 Sep 2020
2172875	Simulink Design Verifier - The change in enabled status of Proof Objective is not considered while rerunning property proving analysis	16 Sep 2020
2221035	Simulink Design Verifier - Simulink Design Verifier throws a nonintuitive error message on certain models containing MATLAB Function blocks	16 Sep 2020
2149712	Simulink Design Verifier - Compatibility check results in unclear error message for a model with Initialize-Reset-Terminate (IRT) Subsystem inside a Model Reference	16 Sep 2020
2165435	Simulink Design Verifier - Testcases are not extended when the configured parameters are of fixed-point type	16 Sep 2020
2168044	Simulink Design Verifier - Incorrect results for the Relational operator block when the block input is a nonscalar complex signal	16 Sep 2020
2278458	Simulink Design Verifier - Incorrect analysis results on certain models containing Sqrt blocks with fixed-point input signal	16 Sep 2020
2294121	Simulink Design Verifier - Block replacement fails for models containing Saturation Dynamic block	16 Sep 2020
2263987	Simulink Design Verifier - Generating tests based on existing coverage data may fail to complete normally for models with Logical Operator blocks having unsatisfiable objectives	27 Jul 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink PLC Coder (19-Oct-2020 20:30:59)

Display bug reports for Simulink PLC Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 14 Simulink PLC Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2147418	for CODESYS target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2220730	for PC Worx 6.0 target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Simulink PLC coder throws a typecast assertion during	16 Sep
2182040	code generation	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generated	16 Sep
2147686	when using y=f(y) style MATLAB function in a Simulink function inside a Stateflow chart	2020
	Simulink PLC Coder - Incorrect Code Generation: Output variables not	16 Sep
2176576	updated for sub-function block calls related to initialization	2020
	Simulink PLC Coder - Simulink PLC Coder does not support the	16 Sep
2180371	Simulink.LookupTable, Simulink.Breakpoint, and	2020
	Simulink.DualScaledParameter objects for code generation	

	Simulink PLC Coder - Incorrect Code Generation: Generated PLC code might	16 Sep
2201973	produce incorrect results due to automated type conversion from unsigned to	2020
	signed integer	
	3,5,1,0,4,11,10,5,0,1	
	Simulink PLC Coder - Incorrect Code Generation: Code generated for the TIA	16 Sep
2208060	Portal: Double Precision target IDE could experience inconsistent behavior	2020
	when type casting a floating-point data type to an integer data type.	
	Simulink PLC Coder - Code generation errors out for tunable parameters	16 Sep
2092179	having fixed-point data type	2020
	Simulink PLC Coder - Multi-testbench signal group time range check may	16 Sep
2221963	cause multi-testbench code generation workflow to error	2020
	Simulink PLC Coder - Incorrect Code Generation: Bus signal connecting Unit	16 Sep
2265288	delay block to MATLAB function block may generate wrong code	2020
	Simulink PLC Coder - Incorrect Code Generation: Simulink.CoderInfo object	16 Sep
2261693	that has Identifier property set causes missing initial values in generated PLC code	2020
	Simulink PLC Coder - MATLAB might crash when generating PLC code for a	11 Jun
2216089	model that uses Simulink.Signal	2020
	Simulink PLC Coder - Incorrect Code Generation: PLC Coder generates wrong	11 Oct
2062037	code for the Discrete-time Integrator block using unsupported integrator methods	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Check (19-Oct-2020 20:30:59)

Display bug reports for Simulink Check (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 24 Simulink Check bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Requirements - Requirements Traceability Report for MATLAB code	19 Oct
2319269	file mentions obsolete file type	2020
	Simulink Check - Model Metrics Dashboard crashes MATLAB when collecting	12 Oct
2256035	metric data for a demo model	2020
	Simulink Check - MAAB check Stateflow transition appearance incorrectly	18 Sep
2282734	flags transitions crossing junctions	2020
	Simulink Check - Check trigger signal names flags Simulink functions nested	18 Sep
2266293	in stateflow charts	2020
	Simulink Check - Incorrect warning with Check use of default	18 Sep
2172579	variants(mathworks.maab.na_0036) for Label variant control mode	2020
	Simulink Check - The check for JMAAB Check Stateflow transition appearance	16 Sep
2195350	(mathworks.jmaab.db_0129) displays an incorrect warning	2020
	Simulink Check - Error message with Function-Call Subsystem added as slice	16 Sep
2179943	component using addSliceComponent	2020
	Simulink Coverage - Incorrect execution coverage for referenced export-	16 Sep
2198087	function model	2020
	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep
2173909		2020
	Simulink Check - Model Transformer tool generates an error while	16 Sep
2181624	refactoring a model to eliminate Data Store Memory blocks	2020

2227557	Simulink Check - Model Advisor check Check usage of Merge block flags Initialize Function block	16 Sep 2020
2231694	Simulink Check - Model Advisor check Data type selection for index signals produces an error	16 Sep 2020
2255599	Simulink Check - The Model Advisor check Check for optimal bus virtuality (ID: mathworks.design.OptBusVirtuality) flags virtual bus crossing model boundary	16 Sep 2020
2254719	Simulink Check - Model Advisor checks fail when executed by using the command line API with parallel mode option	16 Sep 2020
2253699	Simulink Check - MATLAB crashes when collecting model metrics on a model that references a protected model	16 Sep 2020
2294944	Simulink Check - Check for model elements that do not link to requirement results in an abnormal exit	16 Sep 2020
2244386	Simulink Check - JMAAB check Consistency in model element names incorrectly flags models with Bus Selector block	16 Sep 2020
2302437	Simulink Check - JMAAB check Prohibition of logical value comparison in Stateflow incorrectly flags transitions where no logical constants are used	26 Aug 2020
2299587	Simulink Check - JMAAB check Condition actions and transition actions in Stateflow incorrectly flags condition actions with C-style comments	26 Aug 2020
2299606	Simulink Check - JMAAB check Use of named Stateflow parameters and constants incorrectly flags numeric literal 1 used in increment or decrement statement	26 Aug 2020
2305505	Simulink Check - JMAAB check Prohibited use of implicit type casting in Stateflow reports issue when comparing same enumeration type	24 Aug 2020
2303251	Simulink Check - JMAAB check Comment position in transition label reports issue for correctly positioned comment	24 Aug 2020
2301018	Simulink Check - The model advisor check Check safety-related optimization settings for data initialization displays incorrect recommended action when Code interface packaging is set to C++	17 Aug 2020
2302551	Simulink Check - JMAAB check "Check usage of transition conditions in Stateflow transitions" (ID: mathworks.jmaab.jc_0772) incorrectly flags single internal transitions in a Stateflow chart	14 Aug 2020
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Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Coverage (19-Oct-2020 20:30:59)

Display bug reports for Simulink Coverage (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Simulink Coverage bug reports for release R2020a

ID	Bug Report Summary	Modified
2304122	Simulink Coverage - Aggregated coverage data description missing from coverage report	13 Oct 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2183237	Simulink Coverage - Generating a model coverage report using an exported object can cause an error	16 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020

	Simulink Coverage - An error occurs when a Simulink Subsystem Harness	16 Sep
2179804	contains a block and subsystem with identical names	2020
	Simulink Coverage - An error occurs in the Simulink Test Manager while	16 Sep
2247819	aggregating coverage data for a Subsystem Harness if the subsystem contains	2020
	a call to an external MATLAB file	
	Simulink Coverage - Generating a coverage report in the Test Manager for	16 Sep
2276842	subsystem harnesses at different levels in a library causes an assertion failure	2020
	Simulink Coverage - Scoping coverage to requirements-based tests causes	29 Jun
2267735	0% coverage for subsystem test harnesses	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Test (19-Oct-2020 20:30:59)

Display bug reports for Simulink Test (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Test bug reports for release R2020a

ID	Bug Report Summary	Modified
2249151	Simulink Test - ModelCoveragePlugin used with Project errors or returns incorrect coverage metrics when running tests using the MATLAB Unit TestRunner	19 Oct 2020
2290935	Simulink Test - Test execution failure with parameter overrides and SIL or PIL simulation mode	09 Oct 2020
2253936	Simulink Test - Signals specified for test case in Test Manager Simulation Output section not included in results	01 Oct 2020
2326680	Simulink Test - Plot index specified in Test Manager Simulation Output Logged Signal Set not applied correctly	21 Sep 2020
2286940	Simulink Test - Project does not automatically rename usages of data dictionaries inside internal test harnesses	18 Sep 2020
2194996	Simulink Test - Results export or import fails when custom criteria diagnostic contains a null character	16 Sep 2020
2212150	Simulink Test - Incorrect override of parameters in Simulink Test	16 Sep 2020
2160783	Simulink Test - Observer port moved to new signal shows link to original signal	16 Sep 2020
2210475	Simulink Test - Test suite and test file cleanup callbacks are executed before all test cases are complete	16 Sep 2020
2204045	Simulink Test - MATLAB might crash when capturing a baseline to a spreadsheet	16 Sep 2020
2224093	Simulink Test - Cannot override logging for data store defined in data dictionary using Test Manager.	16 Sep 2020
2236833	Simulink Test - Recovered Stateflow Charts block inserted in Subsystem Reference test harness	16 Sep 2020
2249535	Simulink Test - Test result report that includes Signal Editor block data values produces an error	16 Sep 2020
2252259	Simulink Test - Iterations configured for Fast Restart mode run in Normal mode	16 Sep 2020
2267804	Simulink Test - Simulink Test Manager might crash when running tests that collect coverage	16 Sep 2020
2257194	Simulink Test - MATLAB stalls during test execution	16 Sep 2020

2201774	Simulink Test - Running steps in Test Sequence are not highlighted in the animation during simulation	16 Sep 2020
2248616	Simulink Test - Test For Model Component wizard errors when generating tests for models with configuration set references	16 Sep 2020
2261095	Simulink Test - Simulink tests using MATLAB Unit Test framework might fail if signals are logged from referenced models and iterations run in fast restart mode	25 Aug 2020
2255433	Simulink Test - Loading externally saved test harness using load_system might cause MATLAB to crash.	01 Jul 2020
2241749	Simulink Test - Running R2015a test cases with mapped inputs in R2020a might fail in Test Manager	15 Jun 2020
2249557	Simulink Test - Running a test file containing test cases with external test harnesses that contain a Signal Builder block might error	11 Jun 2020
2248003	Simulink Test - Testing a component in a library when simulation mode is overridden to not use model settings might fail	11 Jun 2020
2239108	Simulink Test - Test execution compiles model multiple times	11 Jun 2020
2237793	Simulink Test - Changed ports in an observer model do not highlight correctly in Manager Observer dialog box	11 Jun 2020
2237774	Simulink Test - Dragging ports of a subsystem interface might cause lost connections in associated test harnesses	11 Jun 2020
2236006	Simulink Test - Test using sltest.testmanager.run on models with fast restart fail, but pass when using Test Manager	11 Jun 2020
2120213	Simulink Test - Comparison results for complex signals produce "Signals not aligned" warning	13 Dec 2019
2114999	Simulink Test - Running test harnesses using Run with Stepper button on toolstrip is not supported	13 Dec 2019
2112483	Simulink Test - Test that overrides Signal Editor scenario and includes inputs in the results produces an error	13 Dec 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Requirements (19-Oct-2020 20:30:59)

Display bug reports for Simulink Requirements (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Requirements bug reports for release R2020a

ID	Bug Report Summary	Modified
2326401	Simulink Requirements - Import from IBM DOORS Next not working when configuration management is enabled for project	19 Oct 2020
2319269	Simulink Requirements - Requirements Traceability Report for MATLAB code file mentions obsolete file type	19 Oct 2020
2299729	Simulink Requirements - Error when creating link with IBM DOORS Next (DNG)	18 Sep 2020
2286619	Simulink Requirements - Requirements Editor might not display images in description for requirements imported with ReqIF	18 Sep 2020
2206550	Simulink Requirements - Requirements report displays unrelated text with requirement description	18 Sep 2020

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2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2172917	Simulink Requirements - Links to imported DOORS Next items not listed in browser popup window on DOORS Next side	16 Sep 2020
2182761	Simulink Requirements - Requirements Editor might become frozen after deleting multiple objects	16 Sep 2020
2161457	Simulink Requirements - Import or Update from Microsoft Word fails with an error popup	16 Sep 2020
2173909	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep 2020
2200430	Simulink Requirements - Import from IBM DOORS Next Generation broken for non-default server instance	16 Sep 2020
2191769	Simulink Requirements - Requirements links lost in round trip workflow when exporting with ReqIF	16 Sep 2020
2192264	Simulink Requirements - Simulink Requirements exported ReqIF file has wrong attribute definition references	16 Sep 2020
2210569	Simulink Requirements - Unrecgonized date-time format error when importing DOORS module	16 Sep 2020
2172030	Simulink Requirements - Requirements Editor becomes slow when opening requirement sets with large number of incoming links	16 Sep 2020
2222794	Simulink Requirements - Traceability link from Requirement to Simulink Test Case appears unresolved	16 Sep 2020
2282997	Simulink Requirements - Failure to login to IBM DOORS Next when performing oslc.configure() procedure	16 Sep 2020
2277377	Simulink Requirements - Import from DOORS Next module or query does not work with port number 443	16 Sep 2020
2123991	Simulink Requirements - Requirements imported from IBM DOORS Next missing "Updated on" Revision information	16 Sep 2020
2292859	Simulink Requirements - Error when trying to enter a numeric DNG ID into the Location field of Outgoing Links dialog	25 Aug 2020
2253967	Simulink Requirements - MATLAB stops responding after updating previously imported requirements in Requirements Editor	30 Jul 2020

2251452	Simulink Requirements - ReqIF ID values might change between revisions when exporting to ReqIF	30 Jul 2020
2247892	Simulink Requirements - Traceability Matrix does not render link icons correctly	11 Jun 2020
2247724	Simulink Requirements - Failure to connect with IBM DOORS Next (DNG) when importing requirements	11 Jun 2020
2210749	Simulink Requirements - 3rd-Party requirements tool does not accept ReqIF exported by Simulink Requirements	11 Jun 2020
2232550	Simulink Requirements - Displayed column widths in Requirements Editor might be reset	14 May 2020
2205640	Simulink Requirements - MATLAB crashes while updating requirement from IBM DOORS Next server	22 Apr 2020
2163041	Simulink Requirements - Missing requirement links for Stateflow objects in library after resolve-push	06 Feb 2020
1970160	Simulink Requirements - Error when clicking Show in document for references imported from IBM Rational DOORS Next Generation module	24 Apr 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for AUTOSAR Blockset (19-Oct-2020 20:30:59)

Display bug reports for AUTOSAR Blockset (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 27 AUTOSAR Blockset bug reports for release R2020a

ID	Bug Report Summary	Modified
2177276	AUTOSAR Blockset - Using file enum (derived from Simulink.IntEnumType) generates error on code generation	16 Sep 2020
2176249	AUTOSAR Blockset - Storage class for data objects in the model workspace not honored for models with AUTOSAR target	16 Sep 2020
2169930	AUTOSAR Blockset - Error during integration of AUTOSAR Adaptive artifacts from an existing model into another one	16 Sep 2020
2186553	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an array of fixed-point data	16 Sep 2020
2186526	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an enumeration	16 Sep 2020
2181174	AUTOSAR Blockset - Header file name for enumeration data types is not validated against the AUTOSAR Adaptive Platform standard	16 Sep 2020
2140480	AUTOSAR Blockset - Build error for AUTOSAR model with bus inports and Concatenate block	16 Sep 2020
2172258	AUTOSAR Blockset - Code generated from model configured for the AUTOSAR Adaptive Platform does not honor function interface configuration settings for Function Caller blocks	16 Sep 2020
2169925	AUTOSAR Blockset - AUTOSAR Component Quick Start for adaptive models does not honor specified component package	16 Sep 2020
2190882	AUTOSAR Blockset - Code generation error for AUTOSAR model that uses AUTOSAR.Parameter in Simulink.Variant object	16 Sep 2020
2191143	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software component errors out when an ApplicationDataType is mapped to an AUTOSAR Adaptive Platform type	16 Sep 2020

	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software	16 Sep
2199121	component validates existing enumerations against header file requirements	2020
	for AUTOSAR Classic Platform instead of AUTOSAR Adaptive Platform	
	AUTOSAR Blockset - Incorrect Code Generation: Incorrect Rte read function	16 Sep
2196883	call generated for AUTOSAR model with bus ports and ErrorStatus inport	2020
	AUTOSAR Blockset - ARXML import of enumeration data type for AUTOSAR	16 Sep
2195897	adaptive software component does not create Simulink enumeration data	2020
2133037	type	2020
	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software	16 Sep
2195328	component ignores data types specified as STD-CPP-IMPLEMENTATION-	2020
	DATA-TYPE of category TYPE_REFERENCE	
	AUTOSAR Blockset - ARXML export from an AUTOSAR adaptive model	16 Sep
2192435	generates incorrect tag, IMPLEMENTATION-DATA-TYPE, for Enumeration data	2020
	types and references inside DataTypeMaps	
	AUTOSAR Blockset - AUTOSAR XML import fails with Unrecognized method,	16 Sep
2194672	property, or field 'IsApplication' for class 'M3I.Object'	2020
		46.6
2204000	AUTOSAR Blockset - Incorrect Code Generation: Code generation assertion	16 Sep
2204908	or incorrect code generated for model containing error-status ports for two elements of the same AUTOSAR receiver port	2020
	elements of the same AOTOSAN receiver port	
	AUTOSAR Blockset - AUTOSAR mappings for blocks within referenced	16 Sep
2194284	subsystem do not persist when model is reopened	2020
	AUTOSAR Blockset - Code generation assertion for AUTOSAR model with	16 Sep
2263759	corrupt signal, state, or data store mapping	2020
	AUTOSAR Blockset - Incorrect Code Generation: Code generation might	16 Sep
2266489	ignore AUTOSAR per-instance properties of mapped signal, state, or data	2020
	store	
	AUTOSAR Blockset - Model Advisor check for an AUTOSAR adaptive model	16 Sep
2198048	with message root I/O crashes MATLAB	2020
2130040		
	AUTOSAR Blockset - MATLAB might crash when opening AUTOSAR model in	30 Jul
2275260	which blocks are linked to a library	2020
	AUTOSAR Blockset - Component creation from ARXML fails if	30 Jan
2134859	ClientServerOperation arguments are 64-bit integers	2020
	AUTOSAR Blockset - MATLAB crashes during code generation for an	30 Jan
2160270	AUTOSAR model that has mapped signals, states, or data stores	2020
	•• • • • • • • • • • • • • • • • • • • •	

	AUTOSAR Blockset - Incorrect Code Generation: Incorrect event data	13 Dec
2118436	received in AUTOSAR adaptive model when Message Receive block	2019
	specifies Use initial value for Value source when queue is empty	
	AUTOSAR Blockset - AUTOSAR model build fails with "Unrecognized function	13 Dec
2123864	or variable 'calPrmGraphicalName'"	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for HDL Coder (19-Oct-2020 20:30:59)

Display bug reports for HDL Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 84 HDL Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
2309546	HDL Coder - NCO HDL Optimized HDL simulation doesn't match Simulink simulation when reset is applied at reset input port	19 Oct 2020
2312936	HDL Coder - Stateflow charts that perform floating point operations might assert during HDL code generation in Native Floating Point mode	19 Oct 2020
2334589	HDL Coder - Gain block whose gain constant is a boolean vector generates internal assertion during HDL code generation	14 Oct 2020
2330221	HDL Coder - NCO HDL Optimized block errors out when phase increment is zero and you are using frame-based output	02 Oct 2020
2312398	HDL Coder - Configuring Subsystem configured with Treat as atomic unit containing bus element ports generates internal assertion during HDL code generation	30 Sep 2020
2205228	HDL Coder - Generated Verilog code for Moore charts due to mix of blocking (=) and non-blocking (<=) assignments in the same process	23 Sep 2020
2218200	HDL Coder - Potential HDL test bench simulation error for models containing Selector blocks with one-based indexing and index ports	22 Sep 2020
2186960	HDL Coder - Xilinx System Generator and HDL Coder integration broken due to Vivado incompatible upgrades	22 Sep 2020
2307924	HDL Coder - Multiply-Accumulate block in Serial architecture generates internal assertion during HDL code generation when input bit width exceeds 63 bits	21 Sep 2020
2202192	HDL Coder - Incorrect Code Generation: MATLAB Function block using MATLAB Datapath architecture might result in mismatch with nested user function calls	18 Sep 2020
2302723	HDL Coder - Assertion thrown during HDL code generation from a Simulink model containing Gain blocks that are operating in "u*K" mode	18 Sep 2020
2255441	HDL Coder - Incorrect Code Generation: Lookup Table(n-D) block with fixed point inputs containing negative fraction length generates incorrect HDL code	18 Sep 2020
2251486	HDL Coder - Incorrect Code Generation: Lookup Table block with linear interpolation and output word length less than or equal to table word length causes HDL mismatch	18 Sep 2020
2226722	HDL Coder - Incorrect Code Generation: Streaming and sharing of resources that are clock-rate pipelined can cause HDL mismatch	18 Sep 2020

	HDL Coder - Incorrect Code Generation: Mismatch in value of parameter	18 Sep
2221957	Scalarize vector ports between protected model and model in which it is used	2020
	generates incorrect HDL code	
	HDL Coder - Incorrect Code Generation: HDL coder might generate incorrect	18 Sep
2216400	code for 1-bit HDL Counter with step value of -1	2020
	HDL Coder - Initial values of RAMs created during HDL code generation of	16 Sep
2134208	MATLAB Function blocks with MATLAB Datapath architecture have lower	2020
	precision	
	HDL Coder - HDL code generated from models containing Bus Element ports	16 Sep
2118903	may have incorrect syntax with Traceability Style set to Line Level	2020
	HDL Coder - Streaming and sharing on same resource fails when clock-rate	16 Sep
2118897	pipelining is enabled	2020
	HDL Coder - HDL Code generation errors out for a model with n-D Lookup	16 Sep
2109833	Table block indicating incompatible extrapolation method	2020
	HDL Coder - Incorrect Code Generation: Masked For Each Subsystem when	16 Sep
2117374	used as a top-level DUT generates incorrect HDL code	2020
	HDL Coder - HDL code generation error for Matrix Multiply block using	16 Sep
2169597	DotProductStrategy other than fully parallel with floating-point types	2020
	HDL Coder - Incorrect Code Generation: Potential validation model mismatch	16 Sep
2129524	for model with redundant logic in presence of streaming and clock rate	2020
	pipelining	
	HDL Coder - Generated VHDL code fails to compile when HDL RAM System	16 Sep
2195750	blocks have initial value of data type fixdt(0,1, 0)	2020
	HDL Coder - Incorrect Code Generation: MATLAB Function block that	16 Sep
2187160	performs comparisons with constant value in LHS generates incorrect HDL	2020
	code with MATLAB Datapath architecture	
	HDL Coder - Extract Equations step in Simscape HDL Workflow Advisor does	16 Sep
2198765	not terminate when Stop time of a model is Inf	2020
	HDL Coder - Error when generating VHDL code for models that contain	16 Sep
2112830	signals ending in terminators	2020
	HDL Coder - Error when generating HDL code for Product block set to matrix	16 Sep
2164887	multiply using serial multiply-accumulate DotProductStrategy	2020
	HDL Coder - MATLAB might crash when generating HDL code for large	16 Sep
2137919	models that contain Switch blocks with unconnected output ports	2020

	HDL Coder - Modifications to HDL Block Properties of blocks inside	16 Sep
2212672	Subsystem Reference are not saved on to the model	2020
	HDL Coder - Divide block with ShiftAdd architecture generates internal error	16 Sep
2205741	for vector dividend and scalar divisor	2020
	HDL Coder - State-space parameter extraction fails in Extract Equations task	16 Sep
2176417	of Simscape HDL Workflow Advisor though Check switched linear task might	2020
	pass for unsupported Simscape elements	
	HDL Coder - Signal logging might cause issues with clock rate pipelining and	16 Sep
2242229	delay balancing	2020
	HDL Coder - Wrong sample time inferred in HDL implementation model	16 Sep
2218161	when model base rate is faster than Simscape solver sample time	2020
	HDL Coder - Index exceeds array dimensions error thrown while running HDL	16 Sep
2244823	implementation model generated from Simscape HDL Workflow Advisor	2020
	HDL Coder - MATLAB Datapath architecture for MATLAB Function blocks	16 Sep
2180948	incorrectly throws error about unsupported functions using complex	2020
	integer types	
	HDL Coder - Fixed-Point Designer > Matrix Operations Library blocks throw	16 Sep
2180068	confusing errors for MATLAB Function blocks during HDL code generation with floating-point types	2020
2224407	HDL Coder - Incorrect Code Generation: Precision error in double-typed	16 Sep
2231197	initial values in RAM blocks inferred during HDL code generation from persistent variables in MATLAB function block	2020
2176072	HDL Coder - Error message generated for reals in Stateflow Chart does not	16 Sep
2176073	show location of unsupported code when Native Floating Point is used	2020
	HDL Coder - Internal assertion during HDL code generation for RAM mapping	16 Sep
2117385	of double-typed persistent variables using MATLAB Function block in Native	2020
	Floating Point mode	
24.52.53	HDL Coder - MATLAB might crash when generating HDL code for models	16 Sep
2160410	configured for IP Core Generation workflow that introduce blocks with unused ports and have critical path estimation enabled	2020
222705.0	HDL Coder - HDL code generation error when sending an array of bus signal	16 Sep
2227856	into both an Assignment block and a For Each Subsystem block	2020
	HDL Coder - Error when generating VHDL test bench for model reference as	16 Sep
2221682	DUT when ScalarizePorts value mismatches between top and referenced	2020
	model and referenced model contains Single Port RAM	

2207625	HDL Coder - Internal assertion during HDL code generation for certain operators with mix of single and double types in Native Floating Point mode for MATLAB Function block	16 Sep 2020
2204655	HDL Coder - Traceability report in HDL Coder leads to cryptic error message during code generation.	16 Sep 2020
2191543	HDL Coder - Internal assertion during HDL code generation for Matrix Multiply block with a row vector output and sharing or streaming optimization	16 Sep 2020
2169298	HDL Coder - MATLAB Datapath architecture of MATLAB Function block generates internal error when coder pragma is used as an input to a function	16 Sep 2020
2195553	HDL Coder - Generating code for Bus Creator with bus inputs can lead to assertion indicating Empty records are present	16 Sep 2020
2210576	HDL Coder - Internal assertion generated during HDL code generation for floating-point operators inside model reference in Native Floating Point mode	16 Sep 2020
2265492	HDL Coder - Incorrect Code Generation: Simscape HDL Workflow Advisor run might run incorrectly when filter input setting used for Simulink to physical signal converter blocks	16 Sep 2020
2247328	HDL Coder - Error during HDL code generation from hierarchical masked and enable subsystems if signal logging is enabled	16 Sep 2020
2281688	HDL Coder - Streaming modes of Multiply-Accumulate block might fail to generate HDL test bench	16 Sep 2020
2281502	HDL Coder - Persistent variable access inside an if condition preceded by a for loop can generate an assertion during HDL code generation	16 Sep 2020
2251493	HDL Coder - Bus input for blocks inside model reference can generate HDL code generation error when optimizations are enabled.	16 Sep 2020
2272652	HDL Coder - VHDLLibraryName customization is ignored during HDL test bench generation	16 Sep 2020
2257170	HDL Coder - Sharing report is incorrect when clock-rate pipelining is enabled on blocks inside a feedback loop with specified oversampling factor	16 Sep 2020
2253404	HDL Coder - MATLAB crash when generating HDL code for model with hierarchy flattening applied when a black box subsystem is used inside For Each Subsystem	16 Sep 2020
2250162	HDL Coder - Sine HDL Optimized block shows incorrect port label for exp function.	16 Sep 2020

2199761	HDL Coder - Annotation comments with color leads to collapsed HDL code generation check report	16 Sep 2020
2181835	HDL Coder - Design having RAM block under masked subsystems with HDL optimizations applied generates unusable generated model	16 Sep 2020
2157017	HDL Coder - hdlset_param function for specifying synthesis tool is case sensitive	16 Sep 2020
2258428	HDL Coder - HDL code generation error when Generated Model check box is disabled and optimizations such as Hierarchical Distributed Pipelining is enabled	16 Sep 2020
2175122	HDL Coder - HDL Coder generates ambiguous error for design having bus element port as input to model reference	16 Sep 2020
2286765	HDL Coder - Delay balancing might fail during HDL code generation in the presence of From and Goto blocks implementing a feedback loop in large complex models	16 Sep 2020
2256046	HDL Coder - HDL code generation fails for Simulink model that has bus element ports at the interface level of model reference blocks	16 Sep 2020
2163039	HDL Coder - For Each Subsystem generates assertion during HDL code generation if Partition Dimension is greater than 2	16 Sep 2020
2228896	HDL Coder - Sqrt block with SqrtNewton architecture reports incorrect message when generating HDL code for multirate model	14 Sep 2020
2301208	HDL Coder - Assertion generated during HDL code generation for model using complex matrices with MATLAB Function block	25 Aug 2020
2189551	HDL Coder - Assertion generated when bus input with input port parameter Latch input by delaying outside signal selected is input to a Triggered Subsystem	25 Aug 2020
2221487	HDL Coder - Assertion generated during HDL code generation with Optimization Report turned on	24 Aug 2020
2300111	HDL Coder - Incorrect Code Generation: Stateflow charts with nonzero initial values for outputs can generate incorrect HDL code when the chart contains input events	20 Aug 2020
2305463	HDL Coder - Error during model generation when generating HDL code for a model with large number of test points	10 Aug 2020
2152847	HDL Coder - Code generation time increases significantly for complex designs with reporting features	06 Aug 2020

2294775	HDL Coder - Incorrect Code Generation: Gain block with fixed point inputs and Multiplication block parameter set to Matrix(K*u) (u vector) generates incorrect HDL code.	03 Aug 2020
2181877	HDL Coder - Incorrect Code Generation: Data mismatch between Simulink and HDL simulation for partly serial architecture of Discrete FIR Filter HDL Optimized block	30 Jul 2020
2275090	HDL Coder - Physical signals at the same level as the DUT subsystem might generate errors when creating HDL test bench	28 Jul 2020
2264840	HDL Coder - Unhelpful error message when delay balancing is unsuccesful for a multirate model with resource sharing	23 Jul 2020
2237349	HDL Coder - Incorrect Code Generation: Delay introduced in locally upsampled regions leads to mismatch in validation model	20 Jul 2020
2212077	HDL Coder - Matrix multiplication in Simulink causes long code generation times for large matrices	01 Jul 2020
2214596	HDL Coder - Error when generating VHDL test bench for model reference used as DUT with mismatch in value of ScalarizePorts property between the top model and referenced model	11 Jun 2020
2082623	HDL Coder - HDL implementation model with validation logic can generate assertions during simulation for default Validation logic tolerance setting	11 Jun 2020
2214587	HDL Coder - Incorrect Code Generation: Potentially incorrect VHDL test bench code generated for multirate design with a vector port named phase at DUT interface and ScalarizePorts parameter set to on	11 Jun 2020
2226678	HDL Coder - Incorrect Code Generation: Accumulation operations modeled in Simulink using feedback loops might cause HDL mismatch due to latency introduced by optimizations upstream	19 May 2020
2005355	HDL Coder - Incorrect Code Generation: Sharing with certain configurations of enabled subsystems results in a mismatch in the validation model	16 Aug 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



Display configuration management data (19-Oct-2020 20:30:59)

Display model configuration and checksum information

Model configuration and checksum information

Attribute	Value
Model Version	1.138
Author	Jayesh Patil
Date	Mon Oct 19 18:15:32 2020
Model Checksum	3934919800 188903040 3653151760 1357945227

Display model metrics and complexity report (19-Oct-2020 20:30:59)

Display number of elements and name, level, and depth of subsystems for the model or subsystem

Model metrics information

Display number of elements for Simulink blocks and Stateflow constructs

Summary

Element Type	Count
Inport	72
Outport	66
SubSystem	34

Simulink

Block Type	Count
Inport	72
Outport	66
SubSystem	34
Constant	17
RelationalOperator	9
Logic	6
Switch	5
Gain	3

Model complexity information

Display name, level, and depth of subsystems

Maximum Subsystem Depth: 5

Subsystem Depth

Subsystem Name	Lev	Dep
	el	th
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner	1	4
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning"	2	2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1	3	1

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning ioning	2	2
Toming	+	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning 3 /Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit	3	1
ioning/Slider Gain		
156, 55 5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning 3 /Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain2		
/Slider	3	1
Gain3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain4"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain4		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain6" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit	3	1
ioning/Slider Gain6 Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput t	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	2	3
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional	3	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positi onal_Longitudional/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional/Slider Gain	4	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain3"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Convers ion "	2	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion "title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion	2	1

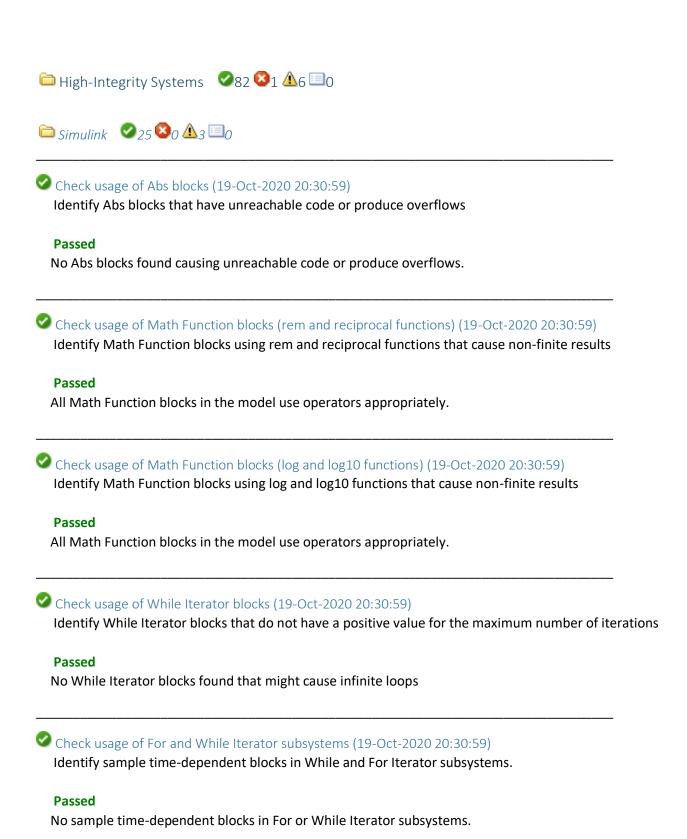
Λ Less

Check for unconnected objects (19-Oct-2020 20:30:59)

Identify unconnected lines, input ports, and output ports in the model

Passed

There are no unconnected lines, input ports, and output ports in this model.



Check usage of For Iterator blocks (19-Oct-2020 20:30:59)

Identify For Iterator blocks that cause variable loops

Passed

No For Iterator blocks found that cause variable loops.

Check usage of If blocks and If Action Subsystem blocks (19-Oct-2020 20:30:59)

Identify If and If Action Subsystem blocks without else conditions

Passed

No If blocks with questionable configurations or connections were found.

Check usage of Switch Case blocks and Switch Case Action Subsystem blocks (19-Oct-2020 20:30:59)

Identify inappropriately used Switch Case blocks and Switch Case Action Subsystem blocks

Passed

No Switch Case blocks with questionable configurations or connections were found.

Check usage of conditionally executed subsystems (19-Oct-2020 20:30:59)

Identify inappropriate blocks in conditionally executed subsystems.

Passed

No blocks with improper sample times or asynchronously executed sample-time dependent blocks were found.

✓ Check usage of Merge blocks (19-Oct-2020 20:30:59)

Identify Merge blocks constructs which can lead to ambiguous behavior.

Passed

No merge blocks found which can lead to ambiguous behavior.

Check Relational Operator blocks equating floating-point types (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that equate floating-point types

Passed

No Relational Operator blocks found that equate floating-point types.

Check usage of Relational Operator blocks (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that operate on different data types or have a non-boolean output

Passed

No Relational Operator blocks found that operate on different data types or have a non-boolean output.

Check usage of Logical Operator blocks (19-Oct-2020 20:30:59)

Identify Logical Operator blocks that operate on non-boolean data types

Passed

No Logical Operator blocks found that operate on non-boolean data types.

Check usage of bit operation blocks (19-Oct-2020 20:30:59)

Identify bit operation blocks with signed data types as inputs

Passed

No bit operation blocks found with signed data types as inputs.

Check for blocks not recommended for C/C++ production code deployment (19-Oct-2020 20:30:59) Identify blocks not supported by code generation or not recommended for C/C++ production code deployment.

Passed

No blocks found which are not recommended for C/C++ production code deployment.

Check for inconsistent vector indexing methods (19-Oct-2020 20:30:59)

Identify inconsistent usage of vector indexing methods across the model or subsystem

Passed

No blocks found using inconsistent indexing modes.

Check data types for blocks with index signals (19-Oct-2020 20:30:59)

Identify blocks with index signals that have data types other than integers or enums.

Passed

No blocks or charts found with index signals or variables that have data types other than integer or enums.

Check usage of variant blocks (19-Oct-2020 20:30:59)

Check variant block settings that might result in code that doesn't trace back to requirements.

Passed

There are no variant blocks that have "Generate preprocessor conditionals" active.

Check usage of lookup table blocks (19-Oct-2020 20:30:59)

Check for Lookup Table blocks, Prelookup blocks and Interpolation blocks that do not generate outof-range checking code.

Passed

No lookup table blocks found to not generate out-of-range checking code.

Check usage of Signal Routing blocks (19-Oct-2020 20:30:59)

Identify usage of Signal Routing blocks in Simulink that might impact safety

Passed

No Switch blocks that might generate code with inequality operations (~=) in expressions where at least one side of the expression is a floating-point variable or constant were found.

Check for root Inports with missing properties (19-Oct-2020 20:30:59)

Identify Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong Way Driver Warning/ActiveState
- Wrong Way Driver Warning/Current DataOnOff
- Wrong_Way_Driver_Warning/Data_CountryCode

- Wrong Way Driver Warning/Data DrivingSide
- Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection
- Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection
- Wrong_Way_Driver_Warning/Data_OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong_Way_Driver_Warning/Diagnostics_MissingData
- Wrong_Way_Driver_Warning/DrivingReverse
- Wrong_Way_Driver_Warning/Sensor_SignAboveRoad
- Wrong_Way_Driver_Warning/Sensor_SignConfidence
- Wrong Way Driver Warning/Sensor SignID
- Wrong_Way_Driver_Warning/Sensor_SignPositionLateral
- Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong_Way_Driver_Warning/Sensor_SignTrackingState
- Wrong Way Driver Warning/Sensor SignType
- Wrong_Way_Driver_Warning/Suppressed_Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Λ Less

Recommended Action

Specify port dimension for the listed Inport blocks or Simulink signal objects.				
Identify	,			
Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.				

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong_Way_Driver_Warning/ActiveState
- Wrong_Way_Driver_Warning/Current_DataOnOff
- Wrong_Way_Driver_Warning/Data_CountryCode
- Wrong_Way_Driver_Warning/Data_DrivingSide
- Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection
- Wrong Way Driver Warning/Data NumberLaneOppositeDirection
- Wrong Way Driver Warning/Data OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong_Way_Driver_Warning/Diagnostics_MissingData
- Wrong_Way_Driver_Warning/DrivingReverse
- Wrong Way Driver Warning/Sensor SignAboveRoad
- Wrong_Way_Driver_Warning/Sensor_SignConfidence
- Wrong_Way_Driver_Warning/Sensor_SignID
- Wrong Way Driver Warning/Sensor SignPositionLateral
- Wrong Way Driver Warning/Sensor SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong_Way_Driver_Warning/Sensor_SignTrackingState
- Wrong_Way_Driver_Warning/Sensor_SignType
- Wrong Way Driver Warning/Suppressed Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Λ Less

Recommended Action

Specify sample time information for the listed Inport blocks or Simulink signal objects. Note: The sample time of root Inports with bus type must match the sample times specified at the leaf elements of the bus object.

Check for root Inports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Inport blocks with missing or erroneous minimum or maximum values. Inport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Inport range properties at the model root level.

Check for root Outports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Outport blocks with missing or erroneous minimum or maximum values. Outport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Outport range properties at the model root level. Note: Root Outports with inherited data types are not analyzed by this check.

Check usage of Assignment blocks (19-Oct-2020 20:30:59)

Identify Assignment blocks whose array fields are not initialized.

All Assignment blocks are configured with block parameter "Action if any output element is not assigned" set to Warning or Error.

Check global variables in graphical functions (19-Oct-2020 20:30:59)

Identify expressions that both read and write to the same global data.

Passed

No expressions found that both read and write to the same global data.

Check usage of Gain blocks (19-Oct-2020 20:30:59)

Identify Gain blocks with value which resolves to 1

Warning

The following Gain blocks have value which resolves to 1.

- •
- •
- •
- _
- •
- _
- _

- _

- _

- •
- •
- .
- _

Λ Less

Recommended Action

Consider remodeling to remove the Gain blocks with values that resolve to 1

△ Check for length of user-defined object names (19-Oct-2020 20:30:59)

Identify user-defined object names with length greater than threshold

Warning

The following data objects have name length greater than threshold (31).

Data Objects	Source		
Data_NumberLaneOppositeDirection	WWDW_dd.sldd		
Sensor_SignPositionLongitudional	WWDW_dd.sldd		

Recommended Action

Change the names of mentioned data objects to have length less than 31.



Check data type of loop control variables (19-Oct-2020 20:30:59)

Identify loop control variables using non-integer data types.

Passed

No For Iterator blocks or MATLAB Function blocks found using non-integer data type for loop control counter variable.





Check state machine type of Stateflow charts (19-Oct-2020 20:30:59)

Identify Stateflow Charts whose State Machine Type differs from the type set in the Model Advisor Configuration Editor.

Passed

No Stateflow Charts found that deviate from recommended state machine type.

Check Stateflow charts for ordering of states and transitions (19-Oct-2020 20:30:59)

Identify Stateflow charts that do not use explicit ordering of parallel states and transitions.

Passed

No Stateflow Charts found that deviate from recommended state/transition execution order settings.

Check usage of bitwise operations in Stateflow charts (19-Oct-2020 20:30:59)
Identify usage of signed data type operands to bitwise operations in Stateflow charts.

Passed

No Stateflow objects found that use signed data type operands with bitwise operations.

Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59)

Verify configuration settings for strong data typing on the boundaries between Simulink and Stateflow

Passed

No Stateflow charts found that set 'Use Strong Data Typing with Simulink I/O' to off.

Check Stateflow debugging options (19-Oct-2020 20:30:59)

Identify whether Stateflow debugging options are set appropriately

Passed

All Stateflow debugging options are set appropriately.

Check Stateflow charts for transition paths that cross parallel state boundaries (19-Oct-2020 20:30:59) Identify transition paths that cross parallel state boundaries in Stateflow charts.

Passed

No transition paths crossing parallel state boundaries were found in Stateflow charts.

Check for inappropriate use of transition paths (19-Oct-2020 20:30:59)

Identify transition paths that go into and out of a state without ending on a substate.

Passed

No transition paths found that go into and out of a state without ending on a substate.

Check Stateflow charts for strong data typing (19-Oct-2020 20:30:59)

Identify expressions with variables and parameters of different data types in Stateflow objects.

Passed

No expressions were found with variables and parameters of different data types.

Check naming of ports in Stateflow charts (19-Oct-2020 20:30:59) Identify mismatches between names of Stateflow ports and associated signals

Passed

There are no name mismatches between Stateflow ports and associated signals

Check scoping of Stateflow data objects (19-Oct-2020 20:30:59)

Identify Stateflow data objects with local scope that are not scoped at the chart level or below

Passed

All Stateflow data objects are properly scoped.

Check Stateflow charts for uniquely defined data objects (19-Oct-2020 20:30:59) Identify local data identifiers that are defined in multiple scopes within a chart.

Passed

No Stateflow data identifiers found to be defined in multiple scopes.

Check usage of shift operations for Stateflow data (19-Oct-2020 20:30:59)

Identify usage of Stateflow bit-shifting operations that might impact safety.

Passed

There are no Stateflow bit-shifting operations greater than the bit-width of the input or output type.

Check assignment operations in Stateflow charts (19-Oct-2020 20:30:59)

Identify assignment operations in Stateflow objects which cast integer and fixed-point calculations to wider datatype.

Passed

No assignment operations were found which cast integer and fixed-point calculations to wider datatype.

Check Stateflow charts for unary operators (19-Oct-2020 20:30:59)

Identify unary minus operators on unsigned data types in Stateflow objects.

Passed

No unary minus operations on unsigned data types were found in Stateflow objects.



Check usage of standardized MATLAB function headers (19-Oct-2020 20:30:59)

Identify usage of standardized function headers in MATLAB function.

Passed

No MATLAB function blocks found without standardized function headers.

Check for MATLAB Function interfaces with inherited properties (19-Oct-2020 20:30:59)
Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity or data type properties.

Passed

No MATLAB Function interfaces with inherited complexity or data type properties found.

Check MATLAB Function metrics (19-Oct-2020 20:30:59)

Identify MATLAB Functions that violate code and complexity metrics.

Passed

No MATLAB Function blocks found that violate code and complexity metrics.

Check MATLAB Code Analyzer messages (19-Oct-2020 20:30:59)

Check MATLAB functions for %#codegen directive, MATLAB Code Analyzer messages, and justification message IDs.

Passed

No MATLAB Function blocks found with Code Analyzer messages, missing %#codegen directive or inappropriate usage of justification message IDs.

Check if/elseif/else patterns in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify if/elseif/else patterns without appropriate else conditions in embedded MATLAB code

Passed

No inappropriate if/elseif/else patterns found.

Check switch statements in MATLAB Function blocks (19-Oct-2020 20:30:59)
Identify inappropriately used switch statements in embedded MATLAB code

Passed

No inappropriately used switch statements found.

Check usage of relational operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify relational operators operating on operands of different data types in MATLAB Function blocks.

Passed

No relational operators found operating on operands of different data types.

Check usage of equality operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify equality operators used with floating-point operands in MATLAB Function blocks.

Passed

No equality operators found operating on floating-point operands.

Check usage of logical operators and functions in MATLAB Function blocks (19-Oct-2020 20:30:59) Identify logical operators and functions operating on operands with numerical data types.

Passed

No logical operators or functions found operating on operands with numerical data types.

Check type and size of condition expressions (19-Oct-2020 20:30:59)

Identify condition expressions which are not logical scalars.

Passed

No condition expressions found which are not logical scalars.





✓ Check safety-related diagnostic settings for data store memory (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to data store memory and might impact safety.

Passed

	Parameter	Current Value	Recommended
Status			Values
Pass	Detect read before write		EnableAllAsError
	(ReadBeforeWriteMsg)	EnableAllAsError	
Pass	Detect write after read (WriteAfterReadMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Detect write after write (WriteAfterWriteMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Multitask data store (MultiTaskDSMMsg)	error	error
Pass	Duplicate data store names	error	error
	(UniqueDataStoreMsg)		

Check diagnostic settings in the model configuration that apply to saving model files.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block diagram contains disabled library links (SaveWithDisabledLinksMsg)	error	error
Pass	Block diagram contains parameterized library links (SaveWithParameterizedLinksMsg)	error	error

✓ Check safety-related model referencing settings (19-Oct-2020 20:30:59)

Check model referencing settings in the model configuration that might impact safety.

Passed

	Parameter	Current Value	Recommended Values
Stat			
us			

Pass	Rebuild (UpdateModelReferenceTargets)	IfOutOfDateOrStructuralC hange	Assume Up To Date, If Out Of Date Or Structural C hange
Pass	Pass fixed-size scalar root inputs by value for code generation (ModelReferencePassRootInputsByR eference) *	on	on
Pass	Minimize algebraic loop occurrences (ModelReferenceMinAlgLoopOccurre nces)	off	off

Recommended Action

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check code generation settings in the model configuration that apply comments and might impact safety.

Passed

	Parameter	Current	Recommended	Prerequisites
Status		Value	Values	

Pass	Include comments	on	on	
	(GenerateComments)			
Pass	Simulink block comments (SimulinkBlockComments)	on	on	GenerateComments
Pass	Show eliminated blocks (ShowEliminatedStatement)	on	on	GenerateComments
D -	System target file	ERT	ERT based	
Pass	(SystemTargetFile)	based	target	
		target		
Pass	Verbose comments for 'Model default' storage class (ForceParamTrailComments)	on	on	GenerateComments
D -	Include comments	on	on	
Pass	(GenerateComments)			
Pass	Requirements in block comments	on	on	SystemTargetFile,
	(ReqsInCode)			GenerateComments



Check code generation interface settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	non-finite numbers (SupportNonFinite)	off	off	
Pass	absolute time (SupportAbsoluteTime)	off	off	SystemTargetFile

Pass	continuous time	off	off	
	(SupportContinuousTime)			SystemTargetFile
D -	System target file (SystemTargetFile)	ERT	ERT based	
Pass		based	target	
		target		
Pass	non-inlined S-functions	off	off	
	(SupportNonInlinedSFcns)			SystemTargetFile
Pass	Classic call interface (GRTInterface)	off	off	
Pass	Single output/update function	on	on	
	(CombineOutputUpdateFcns)			
Pass	Terminate function required	off	off	
	(IncludeMdlTerminateFcn)			SystemTargetFile
Pass	Remove error status field in real-time	on	on	
	model data structure			SystemTargetFile
	(SuppressErrorStatus)			
Pass	MAT-file logging (MatFileLogging)	off	off	

Check safety-related solver settings for simulation time (19-Oct-2020 20:30:59)

Identify if the model Start time is set to 0 and Stop time is less than the Application Life Span.

Passed

No issues found with solver settings for simulation time.

✓ Check safety-related solver settings for solver options (19-Oct-2020 20:30:59)

Check solver settings in the model configuration that apply to solvers and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Type (SolverType)	Fixed-step	Fixed-step
Pass	Solver (SolverName)	FixedStepDiscrete	FixedStepDiscrete

△ Check safety-related solver settings for tasking and sample-time (19-Oct-2020 20:30:59)

Check solver settings in the model configuration that apply to tasking and sample-time constraints and might impact safety.

Warning

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

Status	Parameter	Current Value	Not Recommended Values
Warning	Automatically handle rate transition for data transfer (AutoInsertRateTranBlk)	on	on

Recommended Action

Clear Automatically handle rate transition for data transfer checkbox.



Check safety-related diagnostic settings for solvers (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to solvers and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Algebraic loop (AlgebraicLoopMsg)	error	error
Pass	Minimize algebraic loop (ArtificialAlgebraicLoopMsg)	error	error
Pass	Block priority violation (BlockPriorityViolationMsg)	error	error
Pass	Automatic solver parameter selection (SolverPrmCheckMsg)	error	error
Pass	State name clash (StateNameClashWarn)	warning	warning

Check safety-related diagnostic settings for sample time (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to sample time and might impact safety.

Passed

	Parameter	Current	Recommended
Status		Value	Values
Pass	Source block specifies -1 sample time (InheritedTsInSrcMsg)	error	error
Pass	Multitask rate transition (MultiTaskRateTransMsg)	error	error

Pass	Multitask conditionally executed subsystem (MultiTaskCondExecSysMsg)	error	error
Pass	Enforce sample times specified by Signal Specification blocks (SigSpecEnsureSampleTimeMsg)	error	error
Pass	Single task rate transition (SingleTaskRateTransMsg)	error	error
Pass	Tasks with equal priority (TasksWithSamePriorityMsg)	error	error
Pass	Unspecified inheritability of sample time (UnknownTsInhSupMsg)	error	error



Check optimization settings in the model configuration that apply to logic signals and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Implement logic signals as Boolean data (vs. double) (BooleanDataType)	on	on

Check safety-related block reduction optimization settings (19-Oct-2020 20:30:59)

Check block reduction optimization settings in the model configuration that might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block reduction (BlockReduction)	off	off

✓ Check safety-related code generation settings for code style (19-Oct-2020 20:30:59)

Check code generation settings in the model configuration that apply to code style and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTargetFile
Pass	Preserve operand order in expression (PreserveExpressionOrder)	on	on	SystemTargetFile
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	

Check optimization settings in the model configuration that apply to application lifespan and might impact safety.

[✓] Check safety-related optimization settings for application lifespan (19-Oct-2020 20:30:59)

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Application lifespan (days) (LifeSpan)	inf	Inf

Check safety-related code generation identifier settings (19-Oct-2020 20:30:59)

Check code generation identifier settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Not Recommended Values	Prerequisites
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target		
Pass	Minimum mangle length (MangleLength)	4		1, 2, 3	SystemTargetFile

Check safety-related optimization settings for loop unrolling threshold (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to loop unrolling threshold and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Not Recommended Values
Pass	Loop unrolling threshold (RollThreshold)	5	0, 1

Α

Check safety-related optimization settings for data initialization (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to data initialization and might impact safety.

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	Remove root level I/O zero initialization (ZeroExternalMemoryAtStartup) *	off	on	SystemTargetFile
Warning	Remove internal data zero initialization (ZeroInternalMemoryAtStartup) *	off	on	SystemTargetFile

Recommended Action

Follow the links in the result table to modify the model configuration parameters.

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check safety-related optimization settings for data type conversions (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to data type conversions and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Remove code from floating-point to integer conversions that wraps out-of-range values (EfficientFloat2IntCast)	on	on

Check safety-related optimization settings for division arithmetic exceptions (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to division arithmetic exceptions and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended	Prerequisites
Status		Value	Values	
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pass	Remove code that protects against division arithmetic exceptions (NoFixptDivByZeroProtection)	off	off	SystemTargetFile

Check safety-related optimization settings for specified minimum and maximum values (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to specified minimum and maximum values and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Optimize using the specified minimum and maximum values (UseSpecifiedMinMax)	off	off	SystemTargetFile

D -	System target file (SystemTargetFile)	ERT	ERT based target	
Pass		based		
		target		

Check safety-related diagnostic settings for compatibility (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that affect compatibility and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	S-function upgrades needed (SFcnCompatibilityMsg)	error	error

Check safety-related diagnostic settings for parameters (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to parameters and might impact safety.

Passed

	Parameter	Current	Recommended
Status		Value	Values
Pass	Detect downcast (ParameterDowncastMsg)	error	error
Pass	Detect underflow (ParameterUnderflowMsg)	error	error
Pass	Detect overflow (ParameterOverflowMsg)	error	error
Pass	Detect precision loss (ParameterPrecisionLossMsg)	error	error
Pass	Detect loss of tunability (ParameterTunabilityLossMsg)	error	error

Check safety-related diagnostic settings for Merge blocks (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to Merge blocks and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Detect multiple driving blocks executing at the same time step (MergeDetectMultiDrivingBlocksExec)	error	error

Check safety-related diagnostic settings for model initialization (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that affect model initialization and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Underspecified initialization detection (UnderspecifiedInitializationDetection)	Simplified	Simplified

✓ Check safety-related diagnostic settings for data used for debugging (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to data used for debugging and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Model Verification block enabling (AssertControl)	DisableAll	DisableAll

Check safety-related diagnostic settings for signal connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to signal connectivity and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Signal label mismatch (SignalLabelMismatchMsg)	error	error
Pass	Unconnected block input ports (UnconnectedInputMsg)	error	error
Pass	Unconnected block output ports (UnconnectedOutputMsg)	error	error
Pass	Unconnected line (UnconnectedLineMsg)	error	error



⊘ Check safety-related diagnostic settings for bus connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to bus connectivity and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Statu s	Parameter	Current Value	Recommended Values
Pass	Unspecified bus object at root Outport block	error	error

	(RootOutportRequireBusObject)		
Pass	Element name mismatch (BusObjectLabelMismatch)	error	error
Pass	Bus signal treated as vector (StrictBusMsg)	ErrorOnBusTreatedAsVecto r	ErrorOnBusTreatedAsVecto r
Pass	Non-bus signals treated as bus signals (NonBusSignalsTreatedAsBus)	error	error

Check safety-related diagnostic settings that apply to function-call connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to function-call connectivity and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	InvalidFcnCallConnMsg	error	error
Pass	Context-dependent inputs (FcnCallInpInsideContextMsg)	error	error

Check safety-related diagnostic settings for type conversions (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to type conversions and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	Unnecessary type conversions (UnnecessaryDatatypeConvMsg)	warning	warning
Pass	Vector/matrix block input conversion (VectorMatrixConversionMsg)	error	error
Pass	32-bit integer to single precision float conversion (Int32ToFloatConvMsg)	warning	warning

⊘ Check safety-related diagnostic settings for model referencing (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to model referencing and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Port and parameter mismatch (ModelReferencelOMismatchMessage)	error	error

Pass	Invalid root Inport/Outport block connection (ModelReferenceIOMsg)	error	error
Pass	Unsupported data logging (ModelReferenceDataLoggingMessage)	error	error

⊘ Check safety-related diagnostic settings for Stateflow (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to Stateflow and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unexpected backtracking (SFUnexpectedBacktrackingDiag)	error	error
Pass	Invalid input data access in chart initialization (SFInvalidInputDataAccessInChartInitDiag)	error	error
Pass	No unconditional default transitions (SFNoUnconditionalDefaultTransitionDiag)	error	error
Pass	Transition outside natural parent (SFTransitionOutsideNaturalParentDiag)	error	error
Pass	Unreachable execution path (SFUnreachableExecutionPathDiag)	error	error
Pass	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	error	error
Pass	Transition action specified before condition action (SFTransitionActionBeforeConditionDiag)	error	error

✓ Check safety-related diagnostic settings for signal data (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to signal data and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended
Status			Values
Pass	Signal resolution (SignalResolutionControl)		None,
		UseLocalSettings	UseLocalSettings
Pass	Division by singular matrix	error	error
	(CheckMatrixSingularityMsg)		
Pass	Underspecified data types	error	error
	(UnderSpecifiedDataTypeMsg)		
Pass	Wrap on overflow (IntegerOverflowMsg)	error	error
Pass	Saturate on overflow (IntegerSaturationMsg)	error	error
Pass	Inf or NaN block output (SignalInfNanChecking)	error	error
Pass	"rt" prefix for identifiers (RTPrefix)	error	error
Pass	Simulation range checking	error	error
	(SignalRangeChecking)		





Identify inappropriate characters and length issues in model file name

Passed

No issues found with model file name.



△ Check model object names (19-Oct-2020 20:30:59)

Identify invalid names of following model objects (first invalid name fragment is highlighted):

- **Blocks**
- Signals
- **Parameters**
- **Buses**
- Stateflow elements

Warning

The following model objects have invalid names:

Block	Name
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection"	
title="Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional"	
title="Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional"	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional	

	CITAL COST
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	SliderGain5
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7"	SliderGain7

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da	SliderGain8
ta_Conditioning/Slider Gain8	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledDat a/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant"	CompareToCons tant
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1"	CompareToCons tant1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1	

	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2	LogicalOperator 2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1	RelationalOpera tor1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2	RelationalOpera tor2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain1"	SliderGain1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain4"	SliderGain4
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain4	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider	SliderGain5
Gain5" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Suppressed Output/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Later	

al_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Lateral_Sign_Value_in_ISO_Coordinates	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al	LogicalOperator
Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al	LogicalOperator
Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator1"	RelationalOpera tor1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor2
Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor3
Operator3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator3	

	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign _Positional_Longitudional/Slider Gain"	Silderdaili
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Sign_Positional_Longitudional/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_C onversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion	Vehicle_Speed_ Conversion
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_ Conversion	Yaw_Rate_Conv ersion

Signal	Name
Wrong_Way_Driver_Warning	
Wrong_Way_Driver_Warning	

Parameter used in	Name	Defined in
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection		data dictionary
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional		data dictionary

Change flagged names of model objects



Check for model elements that do not link to requirements (19-Oct-2020 20:30:59)

Abnormal exit: Invalid Simulink object name: simulink/Math Operations/Slider Gain



Check for blocks not recommended for MISRA C:2012 (19-Oct-2020 20:30:59)

Identify blocks that are not recommended for MISRA C:2012 compliant code generation.

Passed

None of the blocks are defined as "not recommended" for MISRA C:2012 compliant code generation.

Check configuration parameters for MISRA C:2012 (19-Oct-2020 20:30:59)

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

Passed

All constraints on model configuration parameters have been met.

Sta tus	Parameter	Current Value	Recommended Values	Prerequisites
Pas s	Model Verification block enabling (AssertControl)	DisableAll	DisableAll	
D - Pas s	Shared code placement (UtilityFuncGeneration)	Shared location	Shared location	
Pas s	Generate shared constants (GenerateSharedConst ants)	off	off	UtilityFuncGe neration
D - Pas s	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pas s	continuous time (SupportContinuousTi me)	off	off	SystemTarge tFile
Pas s	non-inlined S-functions (SupportNonInlinedSFc ns)	off	off	SystemTarge tFile

Pas s	MAT-file logging (MatFileLogging)	off	off	
Pas s	Code replacement library (CodeReplacementLibr ary)	None	None, AUTOSAR 4.0	
Pas s	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTarge tFile
Pas s	Casting modes (CastingMode)	Standards	Standards	SystemTarge tFile
Pas s	System-generated identifiers (InternalIdentifier)	Shortened	Shortened	SystemTarge tFile
Pas s	Signed integer division rounds to (ProdIntDivRoundTo)	Zero	Zero, Floor	
Pas s	Use division for fixed- point net slope computation (UseDivisionForNetSlop eComputation)	UseDivisionForReciprocal sOfIntegersOnly	on, UseDivisionForReciprocal sOfIntegersOnly	
Pas s	Replace multiplications by powers of two with signed bitwise shifts (EnableSignedLeftShifts)	off	off	SystemTarge tFile
Pas s	Allow right shifts on signed integers (EnableSignedRightShifts)	off	off	SystemTarge tFile
Pas s	Wrap on overflow (IntegerOverflowMsg)	error	warning, error	

Pas s	Inf or NaN block output (SignalInfNanChecking)	error	warning, error	
Pas s	Dynamic memory allocation in MATLAB functions (MATLABDynamicMem Alloc)	off	off	
Pas s	External mode (ExtMode)	off	off	
Pas s	Undirected event broadcasts (SFUndirectedBroadcas tEventsDiag)	error	error	
Pas s	Compile-time recursion limit for MATLAB functions (CompileTimeRecursion Limit)	0	0	
Pas s	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursi on)	off	off	
D - Pas s	Include comments (GenerateComments)	on	on	
Pas s	MATLAB user comments (MATLABFcnDesc)	on	on	GenerateCo mments, SystemTarge tFile





△ Display bug reports for Embedded Coder (19-Oct-2020 20:30:59)

Display bug reports for Embedded Coder (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 75 Embedded Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Embedded Coder - Incorrect Code Generation: err output port of NR Polar	19 Oct
2284457	Decoder gives wrong answer	2020
	Embedded Coder - Code generation may error with a 'Unrecognized method,	19 Oct
2309735	property, or field 'Identifier' for class 'RTW.DataImplementation' message	2020
	Embedded Coder - Code generation report creation fails when using	19 Oct
2309212	rtwreport function	2020
	Embedded Coder - Getter function for bus arrays, which return by value,	19 Oct
2308491	used as a pointer return in the algorithm code	2020
	Embedded Coder - Names of logged signals are not propagated during SIL	19 Oct
2292131	and PIL simulations	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	19 Oct
2328023	for MATLAB code in which the loop bounds are unknown at compile time and	2020
	the lower bound is greater than the upper bound	
	Embedded Coder - Incorrect Code Generation: Model produces incorrect	19 Oct
2315073	answer when one or more reusable subsystems receive 1-D input and N-D	2020
	input in row-major layout	

2306193	Embedded Coder - Incorrect Code Generation: Incorrect result might occur when a MATLAB System block calls a Simulink function that contains a Data Store Read or Data Store Write block	08 Oct 2020
2321014	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Model block	07 Oct 2020
2301617	Embedded Coder - Incorrect Code Generation: Model reference call gets removed when a Bus outport is directly attached to a Model block	30 Sep 2020
2297280	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a referenced model	23 Sep 2020
2029502	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing multiple Reusable custom storage class with a branched root Inport	16 Sep 2020
2131505	Embedded Coder - Incorrect Code Generation: Model that uses row-major array layout and complex types containing fixed-point data types might generate incorrect results	16 Sep 2020
2133942	Embedded Coder - Code generator places code for asynchronously triggered atomic subsystem in wrong location	16 Sep 2020
2176228	Embedded Coder - Embedded Coder fails to generate correct code from a Simulink Code Inspector compatible model if it defines instance parameters	16 Sep 2020
2111370	Embedded Coder - Persistent global variable used within a Parallel for- Loops(parfor) present in a MATLAB Function block or MATLAB System block may result in code that does not compile	16 Sep 2020
2192558	Embedded Coder - Incorrect Code Generation: Customized step function prototype with custom storage class on Root-level Outport might generate incorrect code	16 Sep 2020
2189985	Embedded Coder - Incorrect Code Generation: Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2191117	Embedded Coder - Incorrect Code Generation : Tunable parameters in non-inlined S-function might lead to incorrect code	16 Sep 2020
2181053	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing a series of directly connected Bus Creator blocks	16 Sep 2020
2190935	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing Data Store Memory and MATLAB System blocks	16 Sep 2020
2209352	Embedded Coder - Code generation error with global Data Store Memory and Export-Function model	16 Sep 2020

2176178	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a bus data type across a reusable atomic subsystem	16 Sep 2020
2213080	Embedded Coder - MATLAB might crash when generating code for a model that contains subsystems	16 Sep 2020
2218742	Embedded Coder - Incorrect Code Generation : Generated code does not initialize instance-specific parameters for models that specify dynamic allocation	16 Sep 2020
2197821	MATLAB Coder - Incorrect Code Generation : Output of set operations with the 'rows' option might not be in sortrows order when NaNs are present	16 Sep 2020
2192241	Embedded Coder - XCP-based external mode fails for binaries with debug symbols for empty compilation units	16 Sep 2020
2190021	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a Selector block that connects to a Unit Delay block	16 Sep 2020
2216985	Embedded Coder - Incorrect Code Generation : Incorrect code generation for a function-call, triggered, or enabled and triggered subsystem that is configured for reusable function packaging	16 Sep 2020
2199240	Embedded Coder - Code generation error when subsystem contains Stateflow chart and execution time profiling is enabled	16 Sep 2020
2215349	Embedded Coder - MATLAB may crash when using the getDataInterfaces function of Code Descriptor API	16 Sep 2020
2218634	Embedded Coder - Missing example files in documentation topic "Access Data Through Functions by Using Storage Classes in Embedded Coder Dictionary"	16 Sep 2020
2178595	Embedded Coder - SIL simulation with Microsoft Visual C++ compiler option /TP produces compiler error	16 Sep 2020
2207911	Embedded Coder - Incorrect Code Generation : Incorrect generated code for model with DQ Limiter block and Inverse Park Transform block	16 Sep 2020
2232273	Embedded Coder - Incorrect Code Generation: Constant sample time output signal in referenced model might lead to incorrect code	16 Sep 2020
2221392	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a Unit Delay block inside a For Iterator or While Iterator subsystem	16 Sep 2020
2221375	Embedded Coder - Incorrect Code Generation : Numerical mismatch between normal and accelerator mode simulation for variable dimension inputs when the configuration parameter UseRowMajorAlgorithm is selected	16 Sep 2020

2122070	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Unit Delay block inside a For Each Subsystem block	16 Sep 2020
2192341	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Stateflow chart	16 Sep 2020
2244678	Embedded Coder - Incorrect Code Generation: Incorrect code might be generated for a model containing a MATLAB Function block with similar expressions over struct type variables	16 Sep 2020
2203079	Embedded Coder - Uncompilable generated code might occur for MATLAB code containing a loop that operates on variables of different data types with SIMD enabled	16 Sep 2020
2204585	Embedded Coder - Incorrect Code Generation: Signal object InitialValue ignored on root inputs of referenced models when storage class is 'Model default'	16 Sep 2020
2210185	Embedded Coder - AUTOSAR Diagnostic Event Manager event failure or success not flagged if event ID counter exceeds rather than meets threshold	16 Sep 2020
2247270	Embedded Coder - Incorrect Code Generation : Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2249030	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Reset Function block	16 Sep 2020
2248045	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing Data Store Memory block and a For Iterator Subsystem or a While Iterator Subsystem	16 Sep 2020
2248226	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Memory block interacting with a reusable subsystem configured to minimize algebraic loop occurrences	16 Sep 2020
2119697	Embedded Coder - Stateflow chart inside rate grouped Simulink Function might lead to assertion during code generation	16 Sep 2020
2275086	Embedded Coder - Overwritten Embedded Coder Dictionary in Simulink data dictionary	16 Sep 2020
2284691	Embedded Coder - Incorrect Code Generation: Incorrect results might occur for a model containing a Data Store Write block inside a reusable subsystem that interacts with another subsystem that has an initialization function	16 Sep 2020
2184447	Embedded Coder - MATLAB crashes when generating code for a model that receives a message with an Enumeration or bus data type	16 Sep 2020

2293745	Embedded Coder - PIL:pil:ModelBlockLUTTableIsInput error from Model block SIL/PIL simulations with lookup table objects that are mapped to non-Auto storage class	16 Sep 2020
2292939	Embedded Coder - Incorrect Code Generation : Incorrect results might occur when a scalar signal that uses a custom storage class authored in TLC selects an element of a bus array	16 Sep 2020
2286124	Embedded Coder - Incorrect Code Generation : SIMD code generation results in incorrect answers for min/max operations operating on NaN inputs	16 Sep 2020
2282444	Embedded Coder - Code View hangs after post-processing generated code	16 Sep 2020
2211416	Embedded Coder - Accelerator mode model block simulation fails if referenced model uses storage classes on root-level ports	16 Sep 2020
2225876	Embedded Coder - Error in Code view after running SIL/PIL simulation	16 Sep 2020
2306101	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Unit Delay block connected to Stateflow chart output	11 Sep 2020
2313905	Embedded Coder - Code generation assertion when using matrix multiply operation in MATLAB Function Block with variable sized matrices	04 Sep 2020
2306102	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Simulink Function block	01 Sep 2020
2294390	Embedded Coder - Code View fails to display generated code	25 Aug 2020
2204486	Embedded Coder - Incorrect Code Generation: Undefined simulation and code generation behavior might occur when signal that drives two Outport blocks resolves to a Simulink.Signal object	14 Aug 2020
2284700	Embedded Coder - Incorrect Code Generation : Top model may not initialize global variable associated with signal originating in referenced model	11 Aug 2020
2063366	Embedded Coder - Incorrect Code Generation : AUTOSAR generated code might write uninitialized value if array data is conditionally and partially written to root outport	16 Jul 2020
2238014	Embedded Coder - Error when calling TLC library function LibBlockInputSignalAllowScalarExpandedExpr	11 Jun 2020
2166906	Embedded Coder - SIL/PIL simulation fails if model contains Reset Function block and model step function uses function prototype control	14 May 2020

2194951	Embedded Coder - Performance regression caused during code generation for models with large data set	06 Apr 2020
2133775	Embedded Coder - MATLAB might crash when generating code for a model containing C action language Stateflow Chart with shift operation applied to custom storage class	06 Feb 2020
1934700	Embedded Coder - Model block SIL or PIL simulation produces error for AUTOSAR software component with model workspace parameters mapped to SharedParameter	06 Feb 2020
2106435	Embedded Coder - Code generation error for AUTOSAR model in which Simulink Function sends message to root outport	19 Dec 2019
2072645	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for C++ std::string in MATLAB Function block	11 Oct 2019
1999672	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a For Each subsystem block	16 Aug 2019
2007592	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model with a Bus Assignment block and an Assignment block	16 Aug 2019
1955846	Embedded Coder - MATLAB might crash while building a model with a Reusable custom storage class specification on root i/o	24 Apr 2019
1709275	Embedded Coder - Generated code for Stateflow Chart may contain dead initialization code	12 Feb 2018

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



Display bug reports for IEC Certification Kit (19-Oct-2020 20:30:59)

Display bug reports for IEC Certification Kit (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Passed

There are no IEC Certification Kit bug reports for release R2020a.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Polyspace Code Prover bug reports for release R2020a

ID	Bug Report Summary	Modified
2053304	Polyspace Code Prover - Polyspace analysis stops with error: declaration is incompatible with "void OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	19 Oct 2020
2142882	Polyspace Code Prover - External constraints are not recognized on arguments passed by reference to stubbed functions	16 Sep 2020
2184422	Polyspace Code Prover - Incorrect Function not called check when using compiler pragma inline=never	16 Sep 2020

	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Error with behavior specification options in	16 Sep
2234024	Polyspace analysis in client-server mode	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020
	Polyspace Code Prover - Error during compilation of C++ file: stl_tree.h, line	22 Apr
2190091	2142: error: no instance of constructor	2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Bug Finder (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 11 Polyspace Bug Finder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Bug Finder - False positive violations of AUTOSAR C++14 rule M8-	22 Sep
2301358	4-4 on function calls to static methods from objects	2020
	Polyspace Bug Finder - Polyspace fails to report some results, with the error:	21 Sep
2287440	Database::connect: failed to open the interprocess mutex	2020
	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous	16 Sep
2211362	union members	2020
	Polyspace Bug Finder - Launching an analysis from MATLAB generates the	16 Sep
2198724	error: Product required for 'pslinkrunImpl' not installed	2020
	Polyspace Bug Finder - Polyspace code metrics values saturate at	16 Sep
2292126	2147483647	2020
	Polyspace Bug Finder - polyspace-configure could not open options file	16 Sep
2196298		2020
	Polyspace Bug Finder - Missing source files or compiler options in Polyspace	16 Sep
2151011	project when polyspace-configure fails to read compiler options file	2020
	Polyspace Bug Finder - polyspace-access command in Linux crashes or fails	16 Sep
2276516	to upload or download results	2020
	Polyspace Bug Finder - Polyspace annotation not correctly applied when	16 Sep
2088723	syntax incomplete or severity field missing	2020
	Polyspace Bug Finder - polyspace-configure could not open temporary	25 Aug
2132811	options file when using Renesas SH	2020
	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined	31 Jul
2260058	macro	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover Server (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 5 Polyspace Code Prover Server bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Code Prover - Polyspace analysis stops with error: declaration is	19 Oct
2053304	incompatible with "void	2020
	OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	
	Polyspace Code Prover - Incorrect Function not called check when using	16 Sep
2184422	compiler pragma inline=never	2020
	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Polyspace Bug Finder Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder Server (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 7 Polyspace Bug Finder Server bug reports for release R2020a

ID	Bug Report Summary	Modified
2287440	Polyspace Bug Finder - Polyspace fails to report some results, with the error: Database::connect: failed to open the interprocess mutex	21 Sep 2020
2211362	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous union members	16 Sep 2020
2198724	Polyspace Bug Finder - Launching an analysis from MATLAB generates the error: Product required for 'pslinkrunImpl' not installed	16 Sep 2020
2292126	Polyspace Bug Finder - Polyspace code metrics values saturate at 2147483647	16 Sep 2020
2088723	Polyspace Bug Finder - Polyspace annotation not correctly applied when syntax incomplete or severity field missing	16 Sep 2020

2132811	Polyspace Bug Finder - polyspace-configure could not open temporary options file when using Renesas SH	25 Aug 2020
2260058	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined macro	31 Jul 2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Design Verifier (19-Oct-2020 20:30:59)

Display bug reports for Simulink Design Verifier (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 28 Simulink Design Verifier bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Design Verifier - Simulink Design Verifier ignores certain	13 Oct
2321185	justification rules in filter files	2020

2245496	Simulink Design Verifier - Error with exporting the test cases generated by Simulink Design Verifier to Simulink Test to a Signal Builder harness	13 Oct 2020
2316213	Simulink Design Verifier - Simulation of a SLDV generated harness containing a Stateflow chart does not use JIT	23 Sep 2020
2308596	Simulink Design Verifier - MATLAB crashes when extending manually generated test cases using Simulink Design Verifier	18 Sep 2020
2289718	Simulink Design Verifier - Simulink Design Verifier might fail to complete normally when performing Out of bound array access detection on models containing matrix-typed data with an InitialValue	18 Sep 2020
2187119	Simulink Design Verifier - sldvisactive may incorrectly return false when translating a model with model blocks	18 Sep 2020
2181612	Simulink Design Verifier - MATLAB crashes in Test Extension workflow when the configured parameters result in dead logic	18 Sep 2020
2069355	Simulink Design Verifier - Range Collection Mode as Derived ranges in Fixed-point Tool fails for export function models	18 Sep 2020
2298193	Simulink Design Verifier - slvnvmakeharness and sldvmakeharness error out and pauses the simulation when the Bus element port is of inherit:auto data type	17 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2118180	Simulink Design Verifier - Compatibility check fails for models with erroneous block specific copy action callbacks	16 Sep 2020
2126877	Simulink Design Verifier - Reusing Simulink cache file errors out when no replacement model is generated for a custom block replacement rule	16 Sep 2020
2209498	Simulink Design Verifier - Incorrect objective status reported when a model is analyzed in Accelerator simulation mode	16 Sep 2020
2202755	Simulink Design Verifier - Simulation mode set to Normal mode, once the analysis is finished	16 Sep 2020
2202754	Simulink Design Verifier - Fast Restart mode gets disabled after Simulink Design Verifier analysis	16 Sep 2020
2026246	Simulink Design Verifier - Compatibility check may fail for models containing Data Store Memory blocks	16 Sep 2020
2150560	Simulink Design Verifier - Compatibility check may fail for models containing Subsystem Reference blocks	16 Sep 2020

2172228	Simulink Design Verifier - The Simulink Design Verifier generated harness model does not simulate with design model having Out Bus Elements of heterogeneous types	16 Sep 2020
2167393	Simulink Design Verifier - Incorrect error message with sldvlogsignals when its first argument refers to a model with bus element port blocks	16 Sep 2020
1796913	Simulink Design Verifier - Incorrect Code Generation: Incorrect dead logic reported for multiport switch having constant array as control input	16 Sep 2020
2172875	Simulink Design Verifier - The change in enabled status of Proof Objective is not considered while rerunning property proving analysis	16 Sep 2020
2221035	Simulink Design Verifier - Simulink Design Verifier throws a nonintuitive error message on certain models containing MATLAB Function blocks	16 Sep 2020
2149712	Simulink Design Verifier - Compatibility check results in unclear error message for a model with Initialize-Reset-Terminate (IRT) Subsystem inside a Model Reference	16 Sep 2020
2165435	Simulink Design Verifier - Testcases are not extended when the configured parameters are of fixed-point type	16 Sep 2020
2168044	Simulink Design Verifier - Incorrect results for the Relational operator block when the block input is a nonscalar complex signal	16 Sep 2020
2278458	Simulink Design Verifier - Incorrect analysis results on certain models containing Sqrt blocks with fixed-point input signal	16 Sep 2020
2294121	Simulink Design Verifier - Block replacement fails for models containing Saturation Dynamic block	16 Sep 2020
2263987	Simulink Design Verifier - Generating tests based on existing coverage data may fail to complete normally for models with Logical Operator blocks having unsatisfiable objectives	27 Jul 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink PLC Coder (19-Oct-2020 20:30:59)

Display bug reports for Simulink PLC Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 14 Simulink PLC Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2147418	for CODESYS target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2220730	for PC Worx 6.0 target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Simulink PLC coder throws a typecast assertion during	16 Sep
2182040	code generation	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generated	16 Sep
2147686	when using y=f(y) style MATLAB function in a Simulink function inside a Stateflow chart	2020
	Simulink PLC Coder - Incorrect Code Generation: Output variables not	16 Sep
2176576	updated for sub-function block calls related to initialization	2020
	Simulink PLC Coder - Simulink PLC Coder does not support the	16 Sep
2180371	Simulink.LookupTable, Simulink.Breakpoint, and	2020
	Simulink.DualScaledParameter objects for code generation	

2201973	Simulink PLC Coder - Incorrect Code Generation: Generated PLC code might produce incorrect results due to automated type conversion from unsigned to signed integer	16 Sep 2020
2208060	Simulink PLC Coder - Incorrect Code Generation: Code generated for the TIA Portal: Double Precision target IDE could experience inconsistent behavior when type casting a floating-point data type to an integer data type.	16 Sep 2020
2092179	Simulink PLC Coder - Code generation errors out for tunable parameters having fixed-point data type	16 Sep 2020
2221963	Simulink PLC Coder - Multi-testbench signal group time range check may cause multi-testbench code generation workflow to error	16 Sep 2020
2265288	Simulink PLC Coder - Incorrect Code Generation: Bus signal connecting Unit delay block to MATLAB function block may generate wrong code	16 Sep 2020
2261693	Simulink PLC Coder - Incorrect Code Generation: Simulink.CoderInfo object that has Identifier property set causes missing initial values in generated PLC code	16 Sep 2020
2216089	Simulink PLC Coder - MATLAB might crash when generating PLC code for a model that uses Simulink.Signal	11 Jun 2020
2062037	Simulink PLC Coder - Incorrect Code Generation: PLC Coder generates wrong code for the Discrete-time Integrator block using unsupported integrator methods	11 Oct 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Check (19-Oct-2020 20:30:59)

Display bug reports for Simulink Check (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 24 Simulink Check bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Requirements - Requirements Traceability Report for MATLAB code	19 Oct
2319269	file mentions obsolete file type	2020
	Simulink Check - Model Metrics Dashboard crashes MATLAB when collecting	12 Oct
2256035	metric data for a demo model	2020
	Simulink Check - MAAB check Stateflow transition appearance incorrectly	18 Sep
2282734	flags transitions crossing junctions	2020
	Simulink Check - Check trigger signal names flags Simulink functions nested	18 Sep
2266293	in stateflow charts	2020
	Simulink Check - Incorrect warning with Check use of default	18 Sep
2172579	variants(mathworks.maab.na_0036) for Label variant control mode	2020
	Simulink Check - The check for JMAAB Check Stateflow transition appearance	16 Sep
2195350	(mathworks.jmaab.db_0129) displays an incorrect warning	2020
	Simulink Check - Error message with Function-Call Subsystem added as slice	16 Sep
2179943	component using addSliceComponent	2020
	Simulink Coverage - Incorrect execution coverage for referenced export-	16 Sep
2198087	function model	2020
	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep
2173909		2020
	Simulink Check - Model Transformer tool generates an error while	16 Sep
2181624	refactoring a model to eliminate Data Store Memory blocks	2020

	Simulink Check - Model Advisor check Check usage of Merge block flags	16 Sep
2227557	Initialize Function block	2020
2231694	Simulink Check - Model Advisor check Data type selection for index signals produces an error	16 Sep 2020
2255599	Simulink Check - The Model Advisor check Check for optimal bus virtuality (ID: mathworks.design.OptBusVirtuality) flags virtual bus crossing model boundary	16 Sep 2020
2254719	Simulink Check - Model Advisor checks fail when executed by using the command line API with parallel mode option	16 Sep 2020
2253699	Simulink Check - MATLAB crashes when collecting model metrics on a model that references a protected model	16 Sep 2020
2294944	Simulink Check - Check for model elements that do not link to requirement results in an abnormal exit	16 Sep 2020
2244386	Simulink Check - JMAAB check Consistency in model element names incorrectly flags models with Bus Selector block	16 Sep 2020
2302437	Simulink Check - JMAAB check Prohibition of logical value comparison in Stateflow incorrectly flags transitions where no logical constants are used	26 Aug 2020
2299587	Simulink Check - JMAAB check Condition actions and transition actions in Stateflow incorrectly flags condition actions with C-style comments	26 Aug 2020
2299606	Simulink Check - JMAAB check Use of named Stateflow parameters and constants incorrectly flags numeric literal 1 used in increment or decrement statement	26 Aug 2020
2305505	Simulink Check - JMAAB check Prohibited use of implicit type casting in Stateflow reports issue when comparing same enumeration type	24 Aug 2020
2303251	Simulink Check - JMAAB check Comment position in transition label reports issue for correctly positioned comment	24 Aug 2020
2301018	Simulink Check - The model advisor check Check safety-related optimization settings for data initialization displays incorrect recommended action when Code interface packaging is set to C++	17 Aug 2020
2302551	Simulink Check - JMAAB check "Check usage of transition conditions in Stateflow transitions" (ID: mathworks.jmaab.jc_0772) incorrectly flags single internal transitions in a Stateflow chart	14 Aug 2020
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To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Coverage (19-Oct-2020 20:30:59)

Display bug reports for Simulink Coverage (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Simulink Coverage bug reports for release R2020a

ID	Bug Report Summary	Modified
2304122	Simulink Coverage - Aggregated coverage data description missing from coverage report	13 Oct 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2183237	Simulink Coverage - Generating a model coverage report using an exported object can cause an error	16 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020

	Simulink Coverage - An error occurs when a Simulink Subsystem Harness	16 Sep
2179804	contains a block and subsystem with identical names	2020
	Simulink Coverage - An error occurs in the Simulink Test Manager while	16 Sep
2247819	aggregating coverage data for a Subsystem Harness if the subsystem contains	2020
	a call to an external MATLAB file	
	Simulink Coverage - Generating a coverage report in the Test Manager for	16 Sep
2276842	subsystem harnesses at different levels in a library causes an assertion failure	2020
	Simulink Coverage - Scoping coverage to requirements-based tests causes	29 Jun
2267735	0% coverage for subsystem test harnesses	2020

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Test (19-Oct-2020 20:30:59)

Display bug reports for Simulink Test (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Test bug reports for release R2020a

ID	Bug Report Summary	Modified
2249151	Simulink Test - ModelCoveragePlugin used with Project errors or returns incorrect coverage metrics when running tests using the MATLAB Unit TestRunner	19 Oct 2020
2290935	Simulink Test - Test execution failure with parameter overrides and SIL or PIL simulation mode	09 Oct 2020
2253936	Simulink Test - Signals specified for test case in Test Manager Simulation Output section not included in results	01 Oct 2020
2326680	Simulink Test - Plot index specified in Test Manager Simulation Output Logged Signal Set not applied correctly	21 Sep 2020
2286940	Simulink Test - Project does not automatically rename usages of data dictionaries inside internal test harnesses	18 Sep 2020
2194996	Simulink Test - Results export or import fails when custom criteria diagnostic contains a null character	16 Sep 2020
2212150	Simulink Test - Incorrect override of parameters in Simulink Test	16 Sep 2020
2160783	Simulink Test - Observer port moved to new signal shows link to original signal	16 Sep 2020
2210475	Simulink Test - Test suite and test file cleanup callbacks are executed before all test cases are complete	16 Sep 2020
2204045	Simulink Test - MATLAB might crash when capturing a baseline to a spreadsheet	16 Sep 2020
2224093	Simulink Test - Cannot override logging for data store defined in data dictionary using Test Manager.	16 Sep 2020
2236833	Simulink Test - Recovered Stateflow Charts block inserted in Subsystem Reference test harness	16 Sep 2020
2249535	Simulink Test - Test result report that includes Signal Editor block data values produces an error	16 Sep 2020
2252259	Simulink Test - Iterations configured for Fast Restart mode run in Normal mode	16 Sep 2020
2267804	Simulink Test - Simulink Test Manager might crash when running tests that collect coverage	16 Sep 2020
2257194	Simulink Test - MATLAB stalls during test execution	16 Sep 2020

2201774	Simulink Test - Running steps in Test Sequence are not highlighted in the animation during simulation	16 Sep 2020
2248616	Simulink Test - Test For Model Component wizard errors when generating tests for models with configuration set references	16 Sep 2020
2261095	Simulink Test - Simulink tests using MATLAB Unit Test framework might fail if signals are logged from referenced models and iterations run in fast restart mode	25 Aug 2020
2255433	Simulink Test - Loading externally saved test harness using load_system might cause MATLAB to crash.	01 Jul 2020
2241749	Simulink Test - Running R2015a test cases with mapped inputs in R2020a might fail in Test Manager	15 Jun 2020
2249557	Simulink Test - Running a test file containing test cases with external test harnesses that contain a Signal Builder block might error	11 Jun 2020
2248003	Simulink Test - Testing a component in a library when simulation mode is overridden to not use model settings might fail	11 Jun 2020
2239108	Simulink Test - Test execution compiles model multiple times	11 Jun 2020
2237793	Simulink Test - Changed ports in an observer model do not highlight correctly in Manager Observer dialog box	11 Jun 2020
2237774	Simulink Test - Dragging ports of a subsystem interface might cause lost connections in associated test harnesses	11 Jun 2020
2236006	Simulink Test - Test using sltest.testmanager.run on models with fast restart fail, but pass when using Test Manager	11 Jun 2020
2120213	Simulink Test - Comparison results for complex signals produce "Signals not aligned" warning	13 Dec 2019
2114999	Simulink Test - Running test harnesses using Run with Stepper button on toolstrip is not supported	13 Dec 2019
2112483	Simulink Test - Test that overrides Signal Editor scenario and includes inputs in the results produces an error	13 Dec 2019

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Requirements (19-Oct-2020 20:30:59)

Display bug reports for Simulink Requirements (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Requirements bug reports for release R2020a

ID	Bug Report Summary	Modified
2326401	Simulink Requirements - Import from IBM DOORS Next not working when configuration management is enabled for project	19 Oct 2020
2319269	Simulink Requirements - Requirements Traceability Report for MATLAB code file mentions obsolete file type	19 Oct 2020
2299729	Simulink Requirements - Error when creating link with IBM DOORS Next (DNG)	18 Sep 2020
2286619	Simulink Requirements - Requirements Editor might not display images in description for requirements imported with ReqIF	18 Sep 2020
2206550	Simulink Requirements - Requirements report displays unrelated text with requirement description	18 Sep 2020

		1
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2172917	Simulink Requirements - Links to imported DOORS Next items not listed in browser popup window on DOORS Next side	16 Sep 2020
2182761	Simulink Requirements - Requirements Editor might become frozen after deleting multiple objects	16 Sep 2020
2161457	Simulink Requirements - Import or Update from Microsoft Word fails with an error popup	16 Sep 2020
2173909	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep 2020
2200430	Simulink Requirements - Import from IBM DOORS Next Generation broken for non-default server instance	16 Sep 2020
2191769	Simulink Requirements - Requirements links lost in round trip workflow when exporting with ReqIF	16 Sep 2020
2192264	Simulink Requirements - Simulink Requirements exported ReqIF file has wrong attribute definition references	16 Sep 2020
2210569	Simulink Requirements - Unrecgonized date-time format error when importing DOORS module	16 Sep 2020
2172030	Simulink Requirements - Requirements Editor becomes slow when opening requirement sets with large number of incoming links	16 Sep 2020
2222794	Simulink Requirements - Traceability link from Requirement to Simulink Test Case appears unresolved	16 Sep 2020
2282997	Simulink Requirements - Failure to login to IBM DOORS Next when performing oslc.configure() procedure	16 Sep 2020
2277377	Simulink Requirements - Import from DOORS Next module or query does not work with port number 443	16 Sep 2020
2123991	Simulink Requirements - Requirements imported from IBM DOORS Next missing "Updated on" Revision information	16 Sep 2020
2292859	Simulink Requirements - Error when trying to enter a numeric DNG ID into the Location field of Outgoing Links dialog	25 Aug 2020
2253967	Simulink Requirements - MATLAB stops responding after updating previously imported requirements in Requirements Editor	30 Jul 2020

	Simulink Requirements - ReqIF ID values might change between revisions	30 Jul
2251452	when exporting to ReqIF	2020
	Simulink Requirements - Traceability Matrix does not render link icons	11 Jun
2247892	correctly	2020
	Simulink Requirements - Failure to connect with IBM DOORS Next (DNG)	11 Jun
2247724	when importing requirements	2020
	Simulink Requirements - 3rd-Party requirements tool does not accept ReqIF	11 Jun
2210749	exported by Simulink Requirements	2020
	Simulink Requirements - Displayed column widths in Requirements Editor	14 May
2232550	might be reset	2020
	Simulink Requirements - MATLAB crashes while updating requirement from	22 Apr
2205640	IBM DOORS Next server	2020
	Simulink Requirements - Missing requirement links for Stateflow objects in	06 Feb
2163041	library after resolve-push	2020
	Simulink Requirements - Error when clicking Show in document for	24 Apr
1970160	references imported from IBM Rational DOORS Next Generation module	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for AUTOSAR Blockset (19-Oct-2020 20:30:59)

Display bug reports for AUTOSAR Blockset (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 27 AUTOSAR Blockset bug reports for release R2020a

ID	Bug Report Summary	Modified
2177276	AUTOSAR Blockset - Using file enum (derived from Simulink.IntEnumType) generates error on code generation	16 Sep 2020
2176249	AUTOSAR Blockset - Storage class for data objects in the model workspace not honored for models with AUTOSAR target	16 Sep 2020
2169930	AUTOSAR Blockset - Error during integration of AUTOSAR Adaptive artifacts from an existing model into another one	16 Sep 2020
2186553	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an array of fixed-point data	16 Sep 2020
2186526	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an enumeration	16 Sep 2020
2181174	AUTOSAR Blockset - Header file name for enumeration data types is not validated against the AUTOSAR Adaptive Platform standard	16 Sep 2020
2140480	AUTOSAR Blockset - Build error for AUTOSAR model with bus inports and Concatenate block	16 Sep 2020
2172258	AUTOSAR Blockset - Code generated from model configured for the AUTOSAR Adaptive Platform does not honor function interface configuration settings for Function Caller blocks	16 Sep 2020
2169925	AUTOSAR Blockset - AUTOSAR Component Quick Start for adaptive models does not honor specified component package	16 Sep 2020
2190882	AUTOSAR Blockset - Code generation error for AUTOSAR model that uses AUTOSAR.Parameter in Simulink.Variant object	16 Sep 2020
2191143	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software component errors out when an ApplicationDataType is mapped to an AUTOSAR Adaptive Platform type	16 Sep 2020

2199121	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software component validates existing enumerations against header file requirements for AUTOSAR Classic Platform instead of AUTOSAR Adaptive Platform	16 Sep 2020
2196883	AUTOSAR Blockset - Incorrect Code Generation: Incorrect Rte read function call generated for AUTOSAR model with bus ports and ErrorStatus inport	16 Sep 2020
2195897	AUTOSAR Blockset - ARXML import of enumeration data type for AUTOSAR adaptive software component does not create Simulink enumeration data type	16 Sep 2020
2195328	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software component ignores data types specified as STD-CPP-IMPLEMENTATION-DATA-TYPE of category TYPE_REFERENCE	16 Sep 2020
2192435	AUTOSAR Blockset - ARXML export from an AUTOSAR adaptive model generates incorrect tag, IMPLEMENTATION-DATA-TYPE, for Enumeration data types and references inside DataTypeMaps	16 Sep 2020
2194672	AUTOSAR Blockset - AUTOSAR XML import fails with Unrecognized method, property, or field 'IsApplication' for class 'M3I.Object'	16 Sep 2020
2204908	AUTOSAR Blockset - Incorrect Code Generation: Code generation assertion or incorrect code generated for model containing error-status ports for two elements of the same AUTOSAR receiver port	16 Sep 2020
2194284	AUTOSAR Blockset - AUTOSAR mappings for blocks within referenced subsystem do not persist when model is reopened	16 Sep 2020
2263759	AUTOSAR Blockset - Code generation assertion for AUTOSAR model with corrupt signal, state, or data store mapping	16 Sep 2020
2266489	AUTOSAR Blockset - Incorrect Code Generation: Code generation might ignore AUTOSAR per-instance properties of mapped signal, state, or data store	16 Sep 2020
2198048	AUTOSAR Blockset - Model Advisor check for an AUTOSAR adaptive model with message root I/O crashes MATLAB	16 Sep 2020
2275260	AUTOSAR Blockset - MATLAB might crash when opening AUTOSAR model in which blocks are linked to a library	30 Jul 2020
2134859	AUTOSAR Blockset - Component creation from ARXML fails if ClientServerOperation arguments are 64-bit integers	30 Jan 2020
2160270	AUTOSAR Blockset - MATLAB crashes during code generation for an AUTOSAR model that has mapped signals, states, or data stores	30 Jan 2020

	AUTOSAR Blockset - Incorrect Code Generation: Incorrect event data	13 Dec
2118436	received in AUTOSAR adaptive model when Message Receive block	2019
	specifies Use initial value for Value source when queue is empty	
	AUTOSAR Blockset - AUTOSAR model build fails with "Unrecognized function	13 Dec
2123864	or variable 'calPrmGraphicalName'"	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for HDL Coder (19-Oct-2020 20:30:59)

Display bug reports for HDL Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 84 HDL Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
2309546	HDL Coder - NCO HDL Optimized HDL simulation doesn't match Simulink simulation when reset is applied at reset input port	19 Oct 2020
2312936	HDL Coder - Stateflow charts that perform floating point operations might assert during HDL code generation in Native Floating Point mode	19 Oct 2020
2334589	HDL Coder - Gain block whose gain constant is a boolean vector generates internal assertion during HDL code generation	14 Oct 2020
2330221	HDL Coder - NCO HDL Optimized block errors out when phase increment is zero and you are using frame-based output	02 Oct 2020
2312398	HDL Coder - Configuring Subsystem configured with Treat as atomic unit containing bus element ports generates internal assertion during HDL code generation	30 Sep 2020
2205228	HDL Coder - Generated Verilog code for Moore charts due to mix of blocking (=) and non-blocking (<=) assignments in the same process	23 Sep 2020
2218200	HDL Coder - Potential HDL test bench simulation error for models containing Selector blocks with one-based indexing and index ports	22 Sep 2020
2186960	HDL Coder - Xilinx System Generator and HDL Coder integration broken due to Vivado incompatible upgrades	22 Sep 2020
2307924	HDL Coder - Multiply-Accumulate block in Serial architecture generates internal assertion during HDL code generation when input bit width exceeds 63 bits	21 Sep 2020
2202192	HDL Coder - Incorrect Code Generation: MATLAB Function block using MATLAB Datapath architecture might result in mismatch with nested user function calls	18 Sep 2020
2302723	HDL Coder - Assertion thrown during HDL code generation from a Simulink model containing Gain blocks that are operating in "u*K" mode	18 Sep 2020
2255441	HDL Coder - Incorrect Code Generation: Lookup Table(n-D) block with fixed point inputs containing negative fraction length generates incorrect HDL code	18 Sep 2020
2251486	HDL Coder - Incorrect Code Generation: Lookup Table block with linear interpolation and output word length less than or equal to table word length causes HDL mismatch	18 Sep 2020
2226722	HDL Coder - Incorrect Code Generation: Streaming and sharing of resources that are clock-rate pipelined can cause HDL mismatch	18 Sep 2020

	HDL Coder - Incorrect Code Generation: Mismatch in value of parameter	18 Sep
2221957	Scalarize vector ports between protected model and model in which it is used	2020
	generates incorrect HDL code	
	HDL Coder - Incorrect Code Generation: HDL coder might generate incorrect	18 Sep
2216400	code for 1-bit HDL Counter with step value of -1	2020
	HDL Coder - Initial values of RAMs created during HDL code generation of	16 Sep
2134208	MATLAB Function blocks with MATLAB Datapath architecture have lower	2020
	precision	
	HDL Coder - HDL code generated from models containing Bus Element ports	16 Sep
2118903	may have incorrect syntax with Traceability Style set to Line Level	2020
	HDL Coder - Streaming and sharing on same resource fails when clock-rate	16 Sep
2118897	pipelining is enabled	2020
	HDL Coder - HDL Code generation errors out for a model with n-D Lookup	16 Sep
2109833	Table block indicating incompatible extrapolation method	2020
	HDL Coder - Incorrect Code Generation: Masked For Each Subsystem when	16 Sep
2117374	used as a top-level DUT generates incorrect HDL code	2020
		16.600
2169597	HDL Coder - HDL code generation error for Matrix Multiply block using DotProductStrategy other than fully parallel with floating-point types	16 Sep 2020
2129524	HDL Coder - Incorrect Code Generation: Potential validation model mismatch for model with redundant logic in presence of streaming and clock rate	16 Sep 2020
2129324	pipelining	2020
		46.6
2195750	HDL Coder - Generated VHDL code fails to compile when HDL RAM System blocks have initial value of data type fixdt(0,1, 0)	16 Sep 2020
2193730		2020
2407460	HDL Coder - Incorrect Code Generation: MATLAB Function block that	16 Sep
2187160	performs comparisons with constant value in LHS generates incorrect HDL code with MATLAB Datapath architecture	2020
	code with MATLAB Datapath architecture	
2405757	HDL Coder - Extract Equations step in Simscape HDL Workflow Advisor does	16 Sep
2198765	not terminate when Stop time of a model is Inf	2020
	HDL Coder - Error when generating VHDL code for models that contain	16 Sep
2112830	signals ending in terminators	2020
	HDL Coder - Error when generating HDL code for Product block set to matrix	16 Sep
2164887	multiply using serial multiply-accumulate DotProductStrategy	2020
	HDL Coder - MATLAB might crash when generating HDL code for large	16 Sep
2137919	models that contain Switch blocks with unconnected output ports	2020

		1
2212672	HDL Coder - Modifications to HDL Block Properties of blocks inside Subsystem Reference are not saved on to the model	16 Sep 2020
2205741	HDL Coder - Divide block with ShiftAdd architecture generates internal error for vector dividend and scalar divisor	
2176417	HDL Coder - State-space parameter extraction fails in Extract Equations task of Simscape HDL Workflow Advisor though Check switched linear task might pass for unsupported Simscape elements	
2242229	HDL Coder - Signal logging might cause issues with clock rate pipelining and delay balancing	16 Sep 2020
2218161	HDL Coder - Wrong sample time inferred in HDL implementation model when model base rate is faster than Simscape solver sample time	16 Sep 2020
2244823	HDL Coder - Index exceeds array dimensions error thrown while running HDL implementation model generated from Simscape HDL Workflow Advisor	16 Sep 2020
2180948	HDL Coder - MATLAB Datapath architecture for MATLAB Function blocks incorrectly throws error about unsupported functions using complex integer types	16 Sep 2020
2180068	HDL Coder - Fixed-Point Designer > Matrix Operations Library blocks throw confusing errors for MATLAB Function blocks during HDL code generation with floating-point types	16 Sep 2020
2231197	HDL Coder - Incorrect Code Generation: Precision error in double-typed initial values in RAM blocks inferred during HDL code generation from persistent variables in MATLAB function block	16 Sep 2020
2176073	HDL Coder - Error message generated for reals in Stateflow Chart does not show location of unsupported code when Native Floating Point is used	16 Sep 2020
2117385	HDL Coder - Internal assertion during HDL code generation for RAM mapping of double-typed persistent variables using MATLAB Function block in Native Floating Point mode	16 Sep 2020
2160410	HDL Coder - MATLAB might crash when generating HDL code for models configured for IP Core Generation workflow that introduce blocks with unused ports and have critical path estimation enabled	16 Sep 2020
2227856	HDL Coder - HDL code generation error when sending an array of bus signal into both an Assignment block and a For Each Subsystem block	16 Sep 2020
2221682	HDL Coder - Error when generating VHDL test bench for model reference as DUT when ScalarizePorts value mismatches between top and referenced model and referenced model contains Single Port RAM	16 Sep 2020

2207625	HDL Coder - Internal assertion during HDL code generation for certain operators with mix of single and double types in Native Floating Point mode for MATLAB Function block	16 Sep 2020
2204655	HDL Coder - Traceability report in HDL Coder leads to cryptic error message during code generation.	16 Sep 2020
2191543	HDL Coder - Internal assertion during HDL code generation for Matrix Multiply block with a row vector output and sharing or streaming optimization	16 Sep 2020
2169298	HDL Coder - MATLAB Datapath architecture of MATLAB Function block generates internal error when coder pragma is used as an input to a function	16 Sep 2020
2195553	HDL Coder - Generating code for Bus Creator with bus inputs can lead to assertion indicating Empty records are present	16 Sep 2020
2210576	HDL Coder - Internal assertion generated during HDL code generation for floating-point operators inside model reference in Native Floating Point mode	16 Sep 2020
2265492	HDL Coder - Incorrect Code Generation: Simscape HDL Workflow Advisor run might run incorrectly when filter input setting used for Simulink to physical signal converter blocks	16 Sep 2020
2247328	HDL Coder - Error during HDL code generation from hierarchical masked and enable subsystems if signal logging is enabled	16 Sep 2020
2281688	HDL Coder - Streaming modes of Multiply-Accumulate block might fail to generate HDL test bench	16 Sep 2020
2281502	HDL Coder - Persistent variable access inside an if condition preceded by a for loop can generate an assertion during HDL code generation	16 Sep 2020
2251493	HDL Coder - Bus input for blocks inside model reference can generate HDL code generation error when optimizations are enabled.	16 Sep 2020
2272652	HDL Coder - VHDLLibraryName customization is ignored during HDL test bench generation	16 Sep 2020
2257170	HDL Coder - Sharing report is incorrect when clock-rate pipelining is enabled on blocks inside a feedback loop with specified oversampling factor	16 Sep 2020
2253404	HDL Coder - MATLAB crash when generating HDL code for model with hierarchy flattening applied when a black box subsystem is used inside For Each Subsystem	16 Sep 2020
2250162	HDL Coder - Sine HDL Optimized block shows incorrect port label for exp function.	16 Sep 2020

2199761	HDL Coder - Annotation comments with color leads to collapsed HDL code generation check report	16 Sep 2020
2181835	HDL Coder - Design having RAM block under masked subsystems with HDL optimizations applied generates unusable generated model	
2157017	HDL Coder - hdlset_param function for specifying synthesis tool is case sensitive	16 Sep 2020
2258428	HDL Coder - HDL code generation error when Generated Model check box is disabled and optimizations such as Hierarchical Distributed Pipelining is enabled	
2175122	HDL Coder - HDL Coder generates ambiguous error for design having bus element port as input to model reference	16 Sep 2020
2286765	HDL Coder - Delay balancing might fail during HDL code generation in the presence of From and Goto blocks implementing a feedback loop in large complex models	16 Sep 2020
2256046	HDL Coder - HDL code generation fails for Simulink model that has bus element ports at the interface level of model reference blocks	
2163039	HDL Coder - For Each Subsystem generates assertion during HDL code generation if Partition Dimension is greater than 2	16 Sep 2020
2228896	HDL Coder - Sqrt block with SqrtNewton architecture reports incorrect message when generating HDL code for multirate model	
2301208	HDL Coder - Assertion generated during HDL code generation for model using complex matrices with MATLAB Function block	25 Aug 2020
2189551	HDL Coder - Assertion generated when bus input with input port parameter Latch input by delaying outside signal selected is input to a Triggered Subsystem	25 Aug 2020
2221487	HDL Coder - Assertion generated during HDL code generation with Optimization Report turned on	24 Aug 2020
2300111	HDL Coder - Incorrect Code Generation: Stateflow charts with nonzero initial values for outputs can generate incorrect HDL code when the chart contains input events	20 Aug 2020
2305463	HDL Coder - Error during model generation when generating HDL code for a model with large number of test points	10 Aug 2020
2152847	HDL Coder - Code generation time increases significantly for complex designs with reporting features	06 Aug 2020

2294775	HDL Coder - Incorrect Code Generation: Gain block with fixed point inputs and Multiplication block parameter set to Matrix(K*u) (u vector) generates incorrect HDL code.	03 Aug 2020
2181877	HDL Coder - Incorrect Code Generation: Data mismatch between Simulink and HDL simulation for partly serial architecture of Discrete FIR Filter HDL Optimized block	
2275090	HDL Coder - Physical signals at the same level as the DUT subsystem might generate errors when creating HDL test bench	28 Jul 2020
2264840	HDL Coder - Unhelpful error message when delay balancing is unsuccesful for a multirate model with resource sharing	23 Jul 2020
2237349	HDL Coder - Incorrect Code Generation: Delay introduced in locally upsampled regions leads to mismatch in validation model	20 Jul 2020
2212077	HDL Coder - Matrix multiplication in Simulink causes long code generation times for large matrices	01 Jul 2020
2214596	HDL Coder - Error when generating VHDL test bench for model reference used as DUT with mismatch in value of ScalarizePorts property between the top model and referenced model	11 Jun 2020
2082623	HDL Coder - HDL implementation model with validation logic can generate assertions during simulation for default Validation logic tolerance setting	11 Jun 2020
2214587	HDL Coder - Incorrect Code Generation: Potentially incorrect VHDL test bench code generated for multirate design with a vector port named phase at DUT interface and ScalarizePorts parameter set to on	11 Jun 2020
2226678	HDL Coder - Incorrect Code Generation: Accumulation operations modeled in Simulink using feedback loops might cause HDL mismatch due to latency introduced by optimizations upstream	19 May 2020
2005355	HDL Coder - Incorrect Code Generation: Sharing with certain configurations of enabled subsystems results in a mismatch in the validation model	16 Aug 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



Display configuration management data (19-Oct-2020 20:30:59)

Display model configuration and checksum information

Model configuration and checksum information

Attribute	Value
Model Version	1.138
Author	Jayesh Patil
Date	Mon Oct 19 18:15:32 2020
Model Checksum	3934919800 188903040 3653151760 1357945227

Display model metrics and complexity report (19-Oct-2020 20:30:59)

Display number of elements and name, level, and depth of subsystems for the model or subsystem

Model metrics information

Display number of elements for Simulink blocks and Stateflow constructs

Summary

Element Type	Count
Inport	72
Outport	66
SubSystem	34

Simulink

Block Type	Count
Inport	72
Outport	66
SubSystem	34
Constant	17
RelationalOperator	9
Logic	6
Switch	5
Gain	3

Model complexity information

Display name, level, and depth of subsystems

Maximum Subsystem Depth: 5

Subsystem Depth

Subsystem Name		
Subsystem Nume	Lev el	Dep th
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner	1	4
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain6		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change"	2	2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Ch ange/Compare To Constant1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1		

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain1	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain2	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain3	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain4" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain4	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain5"	3	1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit		
ioning/Slider Gain5		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning /Slider Gain6"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain6		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput	2	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	2	3
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates	3	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional	3	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional/Slider Gain	4	1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning	2	2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain"	3	1

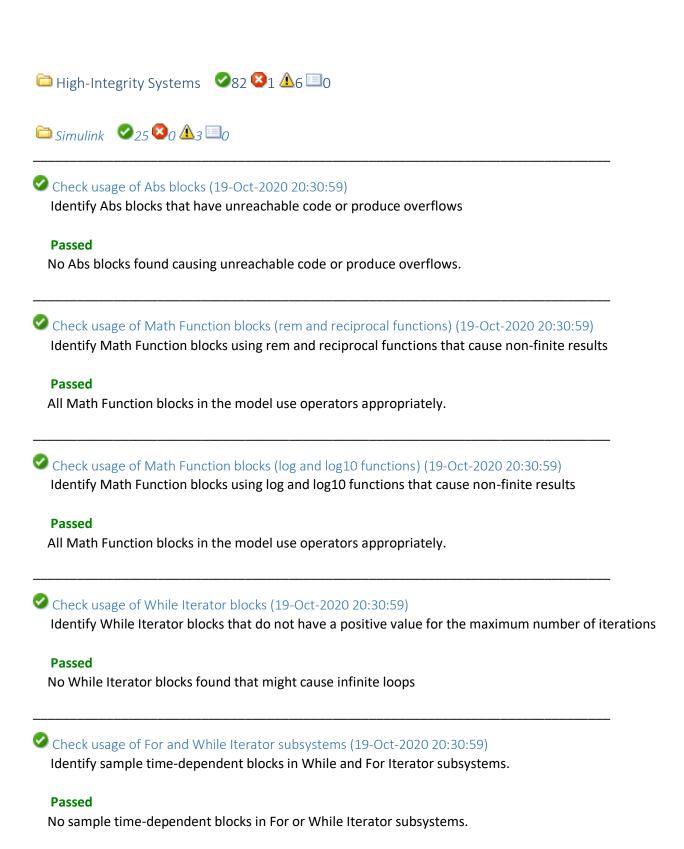
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain1"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain2"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Condition ing/Slider Gain3"	3	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Convers ion "	2	1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion		
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion	2	1

Check for unconnected objects (19-Oct-2020 20:30:59)

Identify unconnected lines, input ports, and output ports in the model

Passed

There are no unconnected lines, input ports, and output ports in this model.



Check usage of For Iterator blocks (19-Oct-2020 20:30:59)

Identify For Iterator blocks that cause variable loops

Passed

No For Iterator blocks found that cause variable loops.

Check usage of If blocks and If Action Subsystem blocks (19-Oct-2020 20:30:59)

Identify If and If Action Subsystem blocks without else conditions

No If blocks with questionable configurations or connections were found.

Check usage of Switch Case blocks and Switch Case Action Subsystem blocks (19-Oct-2020 20:30:59)

Identify inappropriately used Switch Case blocks and Switch Case Action Subsystem blocks

Passed

Passed

No Switch Case blocks with questionable configurations or connections were found.

Check usage of conditionally executed subsystems (19-Oct-2020 20:30:59)

Identify inappropriate blocks in conditionally executed subsystems.

Passed

No blocks with improper sample times or asynchronously executed sample-time dependent blocks were found.

Check usage of Merge blocks (19-Oct-2020 20:30:59)

Identify Merge blocks constructs which can lead to ambiguous behavior.

Passed

No merge blocks found which can lead to ambiguous behavior.

Check Relational Operator blocks equating floating-point types (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that equate floating-point types

Passed

No Relational Operator blocks found that equate floating-point types.

Check usage of Relational Operator blocks (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that operate on different data types or have a non-boolean output

Passed

No Relational Operator blocks found that operate on different data types or have a non-boolean output.

Check usage of Logical Operator blocks (19-Oct-2020 20:30:59)

Identify Logical Operator blocks that operate on non-boolean data types

Passed

No Logical Operator blocks found that operate on non-boolean data types.

Check usage of bit operation blocks (19-Oct-2020 20:30:59)

Identify bit operation blocks with signed data types as inputs

Passed

No bit operation blocks found with signed data types as inputs.

Check for blocks not recommended for C/C++ production code deployment (19-Oct-2020 20:30:59) Identify blocks not supported by code generation or not recommended for C/C++ production code deployment.

Passed

No blocks found which are not recommended for C/C++ production code deployment.

Check for inconsistent vector indexing methods (19-Oct-2020 20:30:59)

Identify inconsistent usage of vector indexing methods across the model or subsystem

Passed

No blocks found using inconsistent indexing modes.

Check data types for blocks with index signals (19-Oct-2020 20:30:59)

Identify blocks with index signals that have data types other than integers or enums.

Passed

No blocks or charts found with index signals or variables that have data types other than integer or enums.

Check usage of variant blocks (19-Oct-2020 20:30:59)

Check variant block settings that might result in code that doesn't trace back to requirements.

Passed

There are no variant blocks that have "Generate preprocessor conditionals" active.

Check usage of lookup table blocks (19-Oct-2020 20:30:59)

Check for Lookup Table blocks, Prelookup blocks and Interpolation blocks that do not generate outof-range checking code.

Passed

No lookup table blocks found to not generate out-of-range checking code.

Check usage of Signal Routing blocks (19-Oct-2020 20:30:59)

Identify usage of Signal Routing blocks in Simulink that might impact safety

Passed

No Switch blocks that might generate code with inequality operations (~=) in expressions where at least one side of the expression is a floating-point variable or constant were found.

Check for root Inports with missing properties (19-Oct-2020 20:30:59)

Identify Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong Way Driver Warning/ActiveState
- Wrong Way Driver Warning/Current DataOnOff
- Wrong_Way_Driver_Warning/Data_CountryCode

- Wrong Way Driver Warning/Data DrivingSide
- Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection
- Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection
- Wrong_Way_Driver_Warning/Data_OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong_Way_Driver_Warning/Diagnostics_MissingData
- Wrong_Way_Driver_Warning/DrivingReverse
- Wrong_Way_Driver_Warning/Sensor_SignAboveRoad
- Wrong_Way_Driver_Warning/Sensor_SignConfidence
- Wrong Way Driver Warning/Sensor SignID
- Wrong_Way_Driver_Warning/Sensor_SignPositionLateral
- Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong_Way_Driver_Warning/Sensor_SignTrackingState
- Wrong Way Driver Warning/Sensor SignType
- Wrong_Way_Driver_Warning/Suppressed_Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Recommended Action

Specify port dimension for the listed Inport blocks or Simulink signal objects.				
Identify				
Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions. Inport block properties are specified with block parameters or Simulink signal data objects that explicitly resolve to the connected signal lines.				

Warning

The following Inport blocks have undefined or inherited sample times, data types or port dimensions:

- Wrong_Way_Driver_Warning/ActiveState
- Wrong Way Driver Warning/Current DataOnOff
- Wrong_Way_Driver_Warning/Data_CountryCode
- Wrong_Way_Driver_Warning/Data_DrivingSide
- Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection
- Wrong Way Driver Warning/Data NumberLaneOppositeDirection
- Wrong Way Driver Warning/Data OffRoad
- Wrong_Way_Driver_Warning/Data_TurnAngle
- Wrong_Way_Driver_Warning/Diagnostics_MissingData
- Wrong Way Driver Warning/DrivingReverse
- Wrong Way Driver Warning/Sensor SignAboveRoad
- Wrong_Way_Driver_Warning/Sensor_SignConfidence
- Wrong_Way_Driver_Warning/Sensor_SignID
- Wrong Way Driver Warning/Sensor SignPositionLateral
- Wrong Way Driver Warning/Sensor SignPositionLongitudional
- Wrong_Way_Driver_Warning/Sensor_SignRelevance
- Wrong_Way_Driver_Warning/Sensor_SignTrackingState
- Wrong_Way_Driver_Warning/Sensor_SignType
- Wrong Way Driver Warning/Suppressed Data
- Wrong_Way_Driver_Warning/VehicleSpeed
- Wrong_Way_Driver_Warning/YawRate

Λ Less

Recommended Action

Specify sample time information for the listed Inport blocks or Simulink signal objects. Note: The sample time of root Inports with bus type must match the sample times specified at the leaf elements of the bus object.

Check for root Inports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Inport blocks with missing or erroneous minimum or maximum values. Inport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Inport range properties at the model root level.

Check for root Outports with missing range definitions (19-Oct-2020 20:30:59)

Identify root-level Outport blocks with missing or erroneous minimum or maximum values. Outport block minimum and maximum values are specified with block parameters or Simulink signal objects that explicitly resolve to the connected signal lines.

Passed

There are no missing or erroneous Outport range properties at the model root level. Note: Root Outports with inherited data types are not analyzed by this check.

Check usage of Assignment blocks (19-Oct-2020 20:30:59)

Identify Assignment blocks whose array fields are not initialized.

All Assignment blocks are configured with block parameter "Action if any output element is not assigned" set to Warning or Error.



Check global variables in graphical functions (19-Oct-2020 20:30:59)

Identify expressions that both read and write to the same global data.

Passed

No expressions found that both read and write to the same global data.



Check usage of Gain blocks (19-Oct-2020 20:30:59)

Identify Gain blocks with value which resolves to 1

Warning

The following Gain blocks have value which resolves to 1.

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- .
- _

Λ Less

Recommended Action

Consider remodeling to remove the Gain blocks with values that resolve to 1



△ Check for length of user-defined object names (19-Oct-2020 20:30:59)

Identify user-defined object names with length greater than threshold

Warning

The following data objects have name length greater than threshold (31).

Data Objects	Source
Data_NumberLaneOppositeDirection	WWDW_dd.sldd
Sensor_SignPositionLongitudional	WWDW_dd.sldd

Recommended Action

Change the names of mentioned data objects to have length less than 31.



Check data type of loop control variables (19-Oct-2020 20:30:59)

Identify loop control variables using non-integer data types.

Passed

No For Iterator blocks or MATLAB Function blocks found using non-integer data type for loop control counter variable.





Check state machine type of Stateflow charts (19-Oct-2020 20:30:59)

Identify Stateflow Charts whose State Machine Type differs from the type set in the Model Advisor Configuration Editor.

Passed

No Stateflow Charts found that deviate from recommended state machine type.

Check Stateflow charts for ordering of states and transitions (19-Oct-2020 20:30:59)

Identify Stateflow charts that do not use explicit ordering of parallel states and transitions.

Passed

No Stateflow Charts found that deviate from recommended state/transition execution order settings.

.....

Check usage of bitwise operations in Stateflow charts (19-Oct-2020 20:30:59)

Identify usage of signed data type operands to bitwise operations in Stateflow charts.

Passed

No Stateflow objects found that use signed data type operands with bitwise operations.

Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59)

Verify configuration settings for strong data typing on the boundaries between Simulink and Stateflow

Passed

No Stateflow charts found that set 'Use Strong Data Typing with Simulink I/O' to off.

Check Stateflow debugging options (19-Oct-2020 20:30:59)

Identify whether Stateflow debugging options are set appropriately

Passed

All Stateflow debugging options are set appropriately.

Check Stateflow charts for transition paths that cross parallel state boundaries (19-Oct-2020 20:30:59) Identify transition paths that cross parallel state boundaries in Stateflow charts.

Passed

No transition paths crossing parallel state boundaries were found in Stateflow charts.

Check for inappropriate use of transition paths (19-Oct-2020 20:30:59)

Identify transition paths that go into and out of a state without ending on a substate.

Passed

No transition paths found that go into and out of a state without ending on a substate.

Check Stateflow charts for strong data typing (19-Oct-2020 20:30:59)

Identify expressions with variables and parameters of different data types in Stateflow objects.

Passed

No expressions were found with variables and parameters of different data types.

Check naming of ports in Stateflow charts (19-Oct-2020 20:30:59)

Identify mismatches between names of Stateflow ports and associated signals

Passed

There are no name mismatches between Stateflow ports and associated signals

Check scoping of Stateflow data objects (19-Oct-2020 20:30:59)

Identify Stateflow data objects with local scope that are not scoped at the chart level or below

Passed

All Stateflow data objects are properly scoped.

Check Stateflow charts for uniquely defined data objects (19-Oct-2020 20:30:59) Identify local data identifiers that are defined in multiple scopes within a chart.

Passed

No Stateflow data identifiers found to be defined in multiple scopes.

Check usage of shift operations for Stateflow data (19-Oct-2020 20:30:59)

Identify usage of Stateflow bit-shifting operations that might impact safety.

Passed

There are no Stateflow bit-shifting operations greater than the bit-width of the input or output type.

Check assignment operations in Stateflow charts (19-Oct-2020 20:30:59)

Identify assignment operations in Stateflow objects which cast integer and fixed-point calculations to wider datatype.

Passed

No assignment operations were found which cast integer and fixed-point calculations to wider datatype.

Check Stateflow charts for unary operators (19-Oct-2020 20:30:59)

Identify unary minus operators on unsigned data types in Stateflow objects.

Passed

No unary minus operations on unsigned data types were found in Stateflow objects.



Check usage of standardized MATLAB function headers (19-Oct-2020 20:30:59)

Identify usage of standardized function headers in MATLAB function.

Passed

No MATLAB function blocks found without standardized function headers.

Check for MATLAB Function interfaces with inherited properties (19-Oct-2020 20:30:59)

Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity or data type properties.

Passed

No MATLAB Function interfaces with inherited complexity or data type properties found.

Check MATLAB Function metrics (19-Oct-2020 20:30:59)

Identify MATLAB Functions that violate code and complexity metrics.

Passed

No MATLAB Function blocks found that violate code and complexity metrics.

Check MATLAB Code Analyzer messages (19-Oct-2020 20:30:59)

Check MATLAB functions for %#codegen directive, MATLAB Code Analyzer messages, and justification message IDs.

Passed

No MATLAB Function blocks found with Code Analyzer messages, missing %#codegen directive or inappropriate usage of justification message IDs.

Check if/elseif/else patterns in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify if/elseif/else patterns without appropriate else conditions in embedded MATLAB code

Passed

No inappropriate if/elseif/else patterns found.

Check switch statements in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify inappropriately used switch statements in embedded MATLAB code

Passed

No inappropriately used switch statements found.

Check usage of relational operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify relational operators operating on operands of different data types in MATLAB Function blocks.

Passed

No relational operators found operating on operands of different data types.

Check usage of equality operators in MATLAB Function blocks (19-Oct-2020 20:30:59)

Identify equality operators used with floating-point operands in MATLAB Function blocks.

Passed

No equality operators found operating on floating-point operands.

Check usage of logical operators and functions in MATLAB Function blocks (19-Oct-2020 20:30:59) Identify logical operators and functions operating on operands with numerical data types.

Passed

No logical operators or functions found operating on operands with numerical data types.

Check type and size of condition expressions (19-Oct-2020 20:30:59)

Identify condition expressions which are not logical scalars.

Passed

No condition expressions found which are not logical scalars.





✓ Check safety-related diagnostic settings for data store memory (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to data store memory and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended
Status			Values
Pass	Detect read before write		EnableAllAsError
	(ReadBeforeWriteMsg)	EnableAllAsError	
Pass	Detect write after read (WriteAfterReadMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Detect write after write (WriteAfterWriteMsg)		EnableAllAsError
		EnableAllAsError	
Pass	Multitask data store (MultiTaskDSMMsg)	error	error
Pass	Duplicate data store names	error	error
	(UniqueDataStoreMsg)		

$oldsymbol{\lozenge}$	Check safety	v-related	diagnostic	settings	for saving	(19-Oct-2020	20:30:59)
	CITCON SUICE	y i Ciatca	alagilostic	Jettings	TOT SUVILING	113 000 2020	20.50.55

Check diagnostic settings in the model configuration that apply to saving model files.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block diagram contains disabled library links (SaveWithDisabledLinksMsg)	error	error
Pass	Block diagram contains parameterized library links (SaveWithParameterizedLinksMsg)	error	error

✓ Check safety-related model referencing settings (19-Oct-2020 20:30:59)

Check model referencing settings in the model configuration that might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended Values
Stat			
us			

Pass	Rebuild (UpdateModelReferenceTargets)	IfOutOfDateOrStructuralC hange	Assume Up To Date, If Out Of Date Or Structural C hange
Pass	Pass fixed-size scalar root inputs by value for code generation (ModelReferencePassRootInputsByR eference) *	on	on
Pass	Minimize algebraic loop occurrences (ModelReferenceMinAlgLoopOccurre nces)	off	off

Recommended Action

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check safety-related code generation settings for comments (19-Oct-2020 20:30:59)

Check code generation settings in the model configuration that apply comments and might impact safety.

Passed

	Parameter	Current	Recommended	Prerequisites
Status		Value	Values	

Pass	Include comments	on	on	
	(GenerateComments)			
Pass	Simulink block comments (SimulinkBlockComments)	on	on	GenerateComments
Pass	Show eliminated blocks (ShowEliminatedStatement)	on	on	GenerateComments
D -	System target file	ERT	ERT based	
Pass	(SystemTargetFile)	based	target	
		target		
Pass	Verbose comments for 'Model default' storage class (ForceParamTrailComments)	on	on	GenerateComments
D -	Include comments	on	on	
Pass	(GenerateComments)			
Pass	Requirements in block comments	on	on	SystemTargetFile,
	(ReqsInCode)			GenerateComments



Check code generation interface settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	non-finite numbers (SupportNonFinite)	off	off	
Pass	absolute time (SupportAbsoluteTime)	off	off	SystemTargetFile

Pass	continuous time	off	off	
	(SupportContinuousTime)			SystemTargetFile
D -	System target file (SystemTargetFile)	ERT	ERT based	
Pass		based target	target	
Pass	non-inlined S-functions	off	off	
	(SupportNonInlinedSFcns)			SystemTargetFile
Pass	Classic call interface (GRTInterface)	off	off	
Pass	Single output/update function (CombineOutputUpdateFcns)	on	on	
Pass	Terminate function required	off	off	
	(IncludeMdlTerminateFcn)			SystemTargetFile
Pass	Remove error status field in real-time	on	on	
	model data structure			SystemTargetFile
	(SuppressErrorStatus)			
Pass	MAT-file logging (MatFileLogging)	off	off	

Check safety-related solver settings for simulation time (19-Oct-2020 20:30:59)

Identify if the model Start time is set to 0 and Stop time is less than the Application Life Span.

Passed

No issues found with solver settings for simulation time.

✓ Check safety-related solver settings for solver options (19-Oct-2020 20:30:59)

Check solver settings in the model configuration that apply to solvers and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Type (SolverType)	Fixed-step	Fixed-step
Pass	Solver (SolverName)	FixedStepDiscrete	FixedStepDiscrete

△ Check safety-related solver settings for tasking and sample-time (19-Oct-2020 20:30:59)

Check solver settings in the model configuration that apply to tasking and sample-time constraints and might impact safety.

Warning

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

Status	Parameter	Current Value	Not Recommended Values
Warning	Automatically handle rate transition for data transfer (AutoInsertRateTranBlk)	on	on

Recommended Action

Clear Automatically handle rate transition for data transfer checkbox.



Check safety-related diagnostic settings for solvers (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to solvers and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	Algebraic loop (AlgebraicLoopMsg)	error	error
Pass	Minimize algebraic loop (ArtificialAlgebraicLoopMsg)	error	error
Pass	Block priority violation (BlockPriorityViolationMsg)	error	error
Pass	Automatic solver parameter selection (SolverPrmCheckMsg)	error	error
Pass	State name clash (StateNameClashWarn)	warning	warning

Check safety-related diagnostic settings for sample time (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to sample time and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Source block specifies -1 sample time (InheritedTsInSrcMsg)	error	error
Pass	Multitask rate transition (MultiTaskRateTransMsg)	error	error

Pass	Multitask conditionally executed subsystem (MultiTaskCondExecSysMsg)	error	error
Pass	Enforce sample times specified by Signal Specification blocks (SigSpecEnsureSampleTimeMsg)	error	error
Pass	Single task rate transition (SingleTaskRateTransMsg)	error	error
Pass	Tasks with equal priority (TasksWithSamePriorityMsg)	error	error
Pass	Unspecified inheritability of sample time (UnknownTsInhSupMsg)	error	error



Check optimization settings in the model configuration that apply to logic signals and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Implement logic signals as Boolean data (vs. double) (BooleanDataType)	on	on

Check safety-related block reduction optimization settings (19-Oct-2020 20:30:59)

Check block reduction optimization settings in the model configuration that might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Block reduction (BlockReduction)	off	off

Check safety-related code generation settings for code style (19-Oct-2020 20:30:59)

Check code generation settings in the model configuration that apply to code style and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTargetFile
Pass	Preserve operand order in expression (PreserveExpressionOrder)	on	on	SystemTargetFile
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	

[✓] Check safety-related optimization settings for application lifespan (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to application lifespan and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Application lifespan (days) (LifeSpan)	inf	Inf

✓ Check safety-related code generation identifier settings (19-Oct-2020 20:30:59)

Check code generation identifier settings in the model configuration that might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Not Recommended Values	Prerequisites
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target		
Pass	Minimum mangle length (MangleLength)	4		1, 2, 3	SystemTargetFile

Check safety-related optimization settings for loop unrolling threshold (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to loop unrolling threshold and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Not Recommended Values
Pass	Loop unrolling threshold (RollThreshold)	5	0, 1



Check safety-related optimization settings for data initialization (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to data initialization and might impact safety.

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	Remove root level I/O zero initialization (ZeroExternalMemoryAtStartup) *	off	on	SystemTargetFile
Warning	Remove internal data zero initialization (ZeroInternalMemoryAtStartup) *	off	on	SystemTargetFile

Recommended Action

Follow the links in the result table to modify the model configuration parameters.

* The Command-Line values provided in the table are reverse of the settings in the Configuration Parameters Dialog. Therefore, 'on' in the Command-Line corresponds to an "Off" setting in the dialog, and 'off' in the Command-Line corresponds to an "On" setting in the dialog.



Check safety-related optimization settings for data type conversions (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to data type conversions and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Remove code from floating-point to integer conversions that wraps out-of-range values (EfficientFloat2IntCast)	on	on

Check safety-related optimization settings for division arithmetic exceptions (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to division arithmetic exceptions and might impact safety.

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended	Prerequisites
Status		Value	Values	
D - Pass	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pass	Remove code that protects against division arithmetic exceptions (NoFixptDivByZeroProtection)	off	off	SystemTargetFile

Check safety-related optimization settings for specified minimum and maximum values (19-Oct-2020 20:30:59)

Check optimization settings in the model configuration that apply to specified minimum and maximum values and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values	Prerequisites
Pass	Optimize using the specified minimum and maximum values (UseSpecifiedMinMax)	off	off	SystemTargetFile

D -	System target file (SystemTargetFile)	ERT	ERT based target	
Pass		based		
		target		

Check safety-related diagnostic settings for compatibility (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that affect compatibility and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	S-function upgrades needed (SFcnCompatibilityMsg)	error	error

Check safety-related diagnostic settings for parameters (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to parameters and might impact safety.

Passed

	Parameter	Current	Recommended
Status		Value	Values
Pass	Detect downcast (ParameterDowncastMsg)	error	error
Pass	Detect underflow (ParameterUnderflowMsg)	error	error
Pass	Detect overflow (ParameterOverflowMsg)	error	error
Pass	Detect precision loss (ParameterPrecisionLossMsg)	error	error
Pass	Detect loss of tunability (ParameterTunabilityLossMsg)	error	error



Check diagnostic settings in the model configuration that apply to Merge blocks and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Detect multiple driving blocks executing at the same time step (MergeDetectMultiDrivingBlocksExec)	error	error

Check safety-related diagnostic settings for model initialization (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that affect model initialization and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Underspecified initialization detection (UnderspecifiedInitializationDetection)	Simplified	Simplified

✓ Check safety-related diagnostic settings for data used for debugging (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to data used for debugging and might impact safety.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Model Verification block enabling (AssertControl)	DisableAll	DisableAll

Check safety-related diagnostic settings for signal connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to signal connectivity and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Signal label mismatch (SignalLabelMismatchMsg)	error	error
Pass	Unconnected block input ports (UnconnectedInputMsg)	error	error
Pass	Unconnected block output ports (UnconnectedOutputMsg)	error	error
Pass	Unconnected line (UnconnectedLineMsg)	error	error



⊘ Check safety-related diagnostic settings for bus connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to bus connectivity and might impact safety.

Passed

Statu s	Parameter	Current Value	Recommended Values
Pass	Unspecified bus object at root Outport block	error	error

	(RootOutportRequireBusObject)		
Pass	Element name mismatch (BusObjectLabelMismatch)	error	error
Pass	Bus signal treated as vector (StrictBusMsg)	ErrorOnBusTreatedAsVecto r	ErrorOnBusTreatedAsVecto r
Pass	Non-bus signals treated as bus signals (NonBusSignalsTreatedAsBus)	error	error

Check safety-related diagnostic settings that apply to function-call connectivity (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to function-call connectivity and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	InvalidFcnCallConnMsg	error	error
Pass	Context-dependent inputs (FcnCallInpInsideContextMsg)	error	error

Check safety-related diagnostic settings for type conversions (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to type conversions and might impact safety.

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unnecessary type conversions (UnnecessaryDatatypeConvMsg)	warning	warning
Pass	Vector/matrix block input conversion (VectorMatrixConversionMsg)	error	error
Pass	32-bit integer to single precision float conversion (Int32ToFloatConvMsg)	warning	warning

Check safety-related diagnostic settings for model referencing (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to model referencing and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Port and parameter mismatch (ModelReferencelOMismatchMessage)	error	error

Pass	Invalid root Inport/Outport block connection (ModelReferenceIOMsg)	error	error
Pass	Unsupported data logging (ModelReferenceDataLoggingMessage)	error	error

⊘ Check safety-related diagnostic settings for Stateflow (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to Stateflow and might impact safety.

Passed

Status	Parameter	Current Value	Recommended Values
Pass	Unexpected backtracking (SFUnexpectedBacktrackingDiag)	error	error
Pass	Invalid input data access in chart initialization (SFInvalidInputDataAccessInChartInitDiag)	error	error
Pass	No unconditional default transitions (SFNoUnconditionalDefaultTransitionDiag)	error	error
Pass	Transition outside natural parent (SFTransitionOutsideNaturalParentDiag)	error	error
Pass	Unreachable execution path (SFUnreachableExecutionPathDiag)	error	error
Pass	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	error	error
Pass	Transition action specified before condition action (SFTransitionActionBeforeConditionDiag)	error	error

✓ Check safety-related diagnostic settings for signal data (19-Oct-2020 20:30:59)

Check diagnostic settings in the model configuration that apply to signal data and might impact safety.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current Value	Recommended
Status			Values
Pass	Signal resolution (SignalResolutionControl)		None,
		UseLocalSettings	UseLocalSettings
Pass	Division by singular matrix	error	error
	(CheckMatrixSingularityMsg)		
Pass	Underspecified data types	error	error
	(UnderSpecifiedDataTypeMsg)		
Pass	Wrap on overflow (IntegerOverflowMsg)	error	error
Pass	Saturate on overflow (IntegerSaturationMsg)	error	error
Pass	Inf or NaN block output (SignalInfNanChecking)	error	error
Pass	"rt" prefix for identifiers (RTPrefix)	error	error
Pass	Simulation range checking	error	error
	(SignalRangeChecking)		





Identify inappropriate characters and length issues in model file name

No issues found with model file name.



△ Check model object names (19-Oct-2020 20:30:59)

Identify invalid names of following model objects (first invalid name fragment is highlighted):

- **Blocks**
- Signals
- **Parameters**
- **Buses**
- Stateflow elements

Warning

The following model objects have invalid names:

Block	Name
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection"	
title="Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional"	
title="Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Sensor_SignPositionLongitudional"	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Sensor_SignPositionLongitudional	

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain5"	SliderGain5
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider	SliderGain6
Gain6" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain7"	SliderGain7

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da ta_Conditioning/Slider Gain7	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning/Slider Gain8" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Da	SliderGain8
ta_Conditioning/Slider Gain8	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledDat a/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant"	CompareToCons tant
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1"	CompareToCons tant1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Compare To Constant1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator1	

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Logical Operator2	LogicalOperator 2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator	RelationalOpera tor
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator1	RelationalOpera tor1
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Relational Operator2	RelationalOpera tor2
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Data_NumberLaneOppositeDirection" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Data_NumberLaneOppositeDirection	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning/Slider Gain	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain1"	SliderGain1

title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain4"	SliderGain4
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain4	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider	SliderGain5
Gain5" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain5	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Condit ioning/Slider Gain6"	SliderGain6
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_ Conditioning/Slider Gain6	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Suppressed Output/Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Later	

al_Sign_Value_in_ISO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Lateral_Sign_Value_in_ISO_Coordinates	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al	LogicalOperator
Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logic al Operator1"	LogicalOperator
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Logical Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator"	RelationalOpera tor
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator1"	RelationalOpera tor1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor2
Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal /Relational Operator2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational	RelationalOpera tor3
Operator3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Relational Operator3	

	SliderGain
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign _Positional_Longitudional/Slider Gain"	Silderdaili
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal_/Sign_Positional_Longitudional/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain"	SliderGain
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain1"	SliderGain1
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain1	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain2"	SliderGain2
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain2	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning/Slider Gain3"	SliderGain3
title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Dat a_Conditioning/Slider Gain3	
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_C onversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion	Vehicle_Speed_ Conversion
Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion " title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_ Conversion	Yaw_Rate_Conv ersion

Signal	Name
Wrong_Way_Driver_Warning	
Wrong_Way_Driver_Warning	

Parameter used in	Name	Defined in
Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection		data dictionary
Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional		data dictionary

Recommended Action

Change flagged names of model objects





Check for model elements that do not link to requirements (19-Oct-2020 20:30:59)

Abnormal exit: Invalid Simulink object name: simulink/Math Operations/Slider Gain



Check for blocks not recommended for MISRA C:2012 (19-Oct-2020 20:30:59)

Identify blocks that are not recommended for MISRA C:2012 compliant code generation.

None of the blocks are defined as "not recommended" for MISRA C:2012 compliant code generation.

Check configuration parameters for MISRA C:2012 (19-Oct-2020 20:30:59)

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

Passed

Sta tus	Parameter	Current Value	Recommended Values	Prerequisites
Pas s	Model Verification block enabling (AssertControl)	DisableAll	DisableAll	
D - Pas s	Shared code placement (UtilityFuncGeneration)	Shared location	Shared location	
Pas s	Generate shared constants (GenerateSharedConst ants)	off	off	UtilityFuncGe neration
D - Pas s	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pas s	continuous time (SupportContinuousTi me)	off	off	SystemTarge tFile
Pas s	non-inlined S-functions (SupportNonInlinedSFc ns)	off	off	SystemTarge tFile

Pas s	MAT-file logging (MatFileLogging)	off	off	
Pas s	Code replacement library (CodeReplacementLibr ary)	None	None, AUTOSAR 4.0	
Pas s	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTarge tFile
Pas s	Casting modes (CastingMode)	Standards	Standards	SystemTarge tFile
Pas s	System-generated identifiers (InternalIdentifier)	Shortened	Shortened	SystemTarge tFile
Pas s	Signed integer division rounds to (ProdIntDivRoundTo)	Zero	Zero, Floor	
Pas s	Use division for fixed- point net slope computation (UseDivisionForNetSlop eComputation)	UseDivisionForReciprocal sOfIntegersOnly	on, UseDivisionForReciprocal sOfIntegersOnly	
Pas s	Replace multiplications by powers of two with signed bitwise shifts (EnableSignedLeftShifts)	off	off	SystemTarge tFile
Pas s	Allow right shifts on signed integers (EnableSignedRightShifts)	off	off	SystemTarge tFile
Pas s	Wrap on overflow (IntegerOverflowMsg)	error	warning, error	

Pas s	Inf or NaN block output (SignalInfNanChecking)	error	warning, error	
Pas s	Dynamic memory allocation in MATLAB functions (MATLABDynamicMem Alloc)	off	off	
Pas s	External mode (ExtMode)	off	off	
Pas s	Undirected event broadcasts (SFUndirectedBroadcas tEventsDiag)	error	error	
Pas s	Compile-time recursion limit for MATLAB functions (CompileTimeRecursion Limit)	0	0	
Pas s	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursi on)	off	off	
D - Pas s	Include comments (GenerateComments)	on	on	
Pas s	MATLAB user comments (MATLABFcnDesc)	on	on	GenerateCo mments, SystemTarge tFile

Λ Less



△ Display bug reports for Embedded Coder (19-Oct-2020 20:30:59)

Display bug reports for Embedded Coder (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 75 Embedded Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Embedded Coder - Incorrect Code Generation: err output port of NR Polar	19 Oct
2284457	Decoder gives wrong answer	2020
	Embedded Coder - Code generation may error with a 'Unrecognized method,	19 Oct
2309735	property, or field 'Identifier' for class 'RTW.DataImplementation' message	2020
	Embedded Coder - Code generation report creation fails when using	19 Oct
2309212	rtwreport function	2020
	Embedded Coder - Getter function for bus arrays, which return by value,	19 Oct
2308491	used as a pointer return in the algorithm code	2020
	Embedded Coder - Names of logged signals are not propagated during SIL	19 Oct
2292131	and PIL simulations	2020
	Embedded Coder - Incorrect Code Generation: Incorrect results might occur	19 Oct
2328023	for MATLAB code in which the loop bounds are unknown at compile time and	2020
	the lower bound is greater than the upper bound	
	Embedded Coder - Incorrect Code Generation: Model produces incorrect	19 Oct
2315073	answer when one or more reusable subsystems receive 1-D input and N-D	2020
	input in row-major layout	

2306193	Embedded Coder - Incorrect Code Generation: Incorrect result might occur when a MATLAB System block calls a Simulink function that contains a Data Store Read or Data Store Write block	08 Oct 2020
2321014	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Model block	07 Oct 2020
2301617	Embedded Coder - Incorrect Code Generation: Model reference call gets removed when a Bus outport is directly attached to a Model block	30 Sep 2020
2297280	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a referenced model	23 Sep 2020
2029502	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing multiple Reusable custom storage class with a branched root Inport	16 Sep 2020
2131505	Embedded Coder - Incorrect Code Generation: Model that uses row-major array layout and complex types containing fixed-point data types might generate incorrect results	16 Sep 2020
2133942	Embedded Coder - Code generator places code for asynchronously triggered atomic subsystem in wrong location	16 Sep 2020
2176228	Embedded Coder - Embedded Coder fails to generate correct code from a Simulink Code Inspector compatible model if it defines instance parameters	16 Sep 2020
2111370	Embedded Coder - Persistent global variable used within a Parallel for- Loops(parfor) present in a MATLAB Function block or MATLAB System block may result in code that does not compile	16 Sep 2020
2192558	Embedded Coder - Incorrect Code Generation: Customized step function prototype with custom storage class on Root-level Outport might generate incorrect code	16 Sep 2020
2189985	Embedded Coder - Incorrect Code Generation: Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2191117	Embedded Coder - Incorrect Code Generation : Tunable parameters in non-inlined S-function might lead to incorrect code	16 Sep 2020
2181053	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing a series of directly connected Bus Creator blocks	16 Sep 2020
2190935	Embedded Coder - Incorrect Code Generation: Incorrect results are possible for a model containing Data Store Memory and MATLAB System blocks	16 Sep 2020
2209352	Embedded Coder - Code generation error with global Data Store Memory and Export-Function model	16 Sep 2020

2176178	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a bus data type across a reusable atomic subsystem	16 Sep 2020
2213080	Embedded Coder - MATLAB might crash when generating code for a model that contains subsystems	16 Sep 2020
2218742	Embedded Coder - Incorrect Code Generation : Generated code does not initialize instance-specific parameters for models that specify dynamic allocation	16 Sep 2020
2197821	MATLAB Coder - Incorrect Code Generation : Output of set operations with the 'rows' option might not be in sortrows order when NaNs are present	16 Sep 2020
2192241	Embedded Coder - XCP-based external mode fails for binaries with debug symbols for empty compilation units	16 Sep 2020
2190021	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing a Selector block that connects to a Unit Delay block	16 Sep 2020
2216985	Embedded Coder - Incorrect Code Generation : Incorrect code generation for a function-call, triggered, or enabled and triggered subsystem that is configured for reusable function packaging	16 Sep 2020
2199240	Embedded Coder - Code generation error when subsystem contains Stateflow chart and execution time profiling is enabled	16 Sep 2020
2215349	Embedded Coder - MATLAB may crash when using the getDataInterfaces function of Code Descriptor API	16 Sep 2020
2218634	Embedded Coder - Missing example files in documentation topic "Access Data Through Functions by Using Storage Classes in Embedded Coder Dictionary"	16 Sep 2020
2178595	Embedded Coder - SIL simulation with Microsoft Visual C++ compiler option /TP produces compiler error	16 Sep 2020
2207911	Embedded Coder - Incorrect Code Generation : Incorrect generated code for model with DQ Limiter block and Inverse Park Transform block	16 Sep 2020
2232273	Embedded Coder - Incorrect Code Generation: Constant sample time output signal in referenced model might lead to incorrect code	16 Sep 2020
2221392	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a Unit Delay block inside a For Iterator or While Iterator subsystem	16 Sep 2020
2221375	Embedded Coder - Incorrect Code Generation : Numerical mismatch between normal and accelerator mode simulation for variable dimension inputs when the configuration parameter UseRowMajorAlgorithm is selected	16 Sep 2020

2122070	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Unit Delay block inside a For Each Subsystem block	16 Sep 2020
2192341	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Stateflow chart	16 Sep 2020
2244678	Embedded Coder - Incorrect Code Generation: Incorrect code might be generated for a model containing a MATLAB Function block with similar expressions over struct type variables	16 Sep 2020
2203079	Embedded Coder - Uncompilable generated code might occur for MATLAB code containing a loop that operates on variables of different data types with SIMD enabled	16 Sep 2020
2204585	Embedded Coder - Incorrect Code Generation: Signal object InitialValue ignored on root inputs of referenced models when storage class is 'Model default'	16 Sep 2020
2210185	Embedded Coder - AUTOSAR Diagnostic Event Manager event failure or success not flagged if event ID counter exceeds rather than meets threshold	16 Sep 2020
2247270	Embedded Coder - Incorrect Code Generation: Incorrect initial value for block output inside reusable subsystem	16 Sep 2020
2249030	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with Reset Function block	16 Sep 2020
2248045	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model containing Data Store Memory block and a For Iterator Subsystem or a While Iterator Subsystem	16 Sep 2020
2248226	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Memory block interacting with a reusable subsystem configured to minimize algebraic loop occurrences	16 Sep 2020
2119697	Embedded Coder - Stateflow chart inside rate grouped Simulink Function might lead to assertion during code generation	16 Sep 2020
2275086	Embedded Coder - Overwritten Embedded Coder Dictionary in Simulink data dictionary	16 Sep 2020
2284691	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model containing a Data Store Write block inside a reusable subsystem that interacts with another subsystem that has an initialization function	16 Sep 2020
2184447	Embedded Coder - MATLAB crashes when generating code for a model that receives a message with an Enumeration or bus data type	16 Sep 2020

2293745	Embedded Coder - PIL:pil:ModelBlockLUTTableIsInput error from Model block SIL/PIL simulations with lookup table objects that are mapped to non-Auto storage class	16 Sep 2020
2292939	Embedded Coder - Incorrect Code Generation : Incorrect results might occur when a scalar signal that uses a custom storage class authored in TLC selects an element of a bus array	16 Sep 2020
2286124	Embedded Coder - Incorrect Code Generation : SIMD code generation results in incorrect answers for min/max operations operating on NaN inputs	16 Sep 2020
2282444	Embedded Coder - Code View hangs after post-processing generated code	16 Sep 2020
2211416	Embedded Coder - Accelerator mode model block simulation fails if referenced model uses storage classes on root-level ports	16 Sep 2020
2225876	Embedded Coder - Error in Code view after running SIL/PIL simulation	16 Sep 2020
2306101	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Unit Delay block connected to Stateflow chart output	11 Sep 2020
2313905	Embedded Coder - Code generation assertion when using matrix multiply operation in MATLAB Function Block with variable sized matrices	04 Sep 2020
2306102	Embedded Coder - Incorrect Code Generation : Incorrect results might occur for a model that contains a Simulink Function block	01 Sep 2020
2294390	Embedded Coder - Code View fails to display generated code	25 Aug 2020
2204486	Embedded Coder - Incorrect Code Generation: Undefined simulation and code generation behavior might occur when signal that drives two Outport blocks resolves to a Simulink.Signal object	14 Aug 2020
2284700	Embedded Coder - Incorrect Code Generation : Top model may not initialize global variable associated with signal originating in referenced model	11 Aug 2020
2063366	Embedded Coder - Incorrect Code Generation : AUTOSAR generated code might write uninitialized value if array data is conditionally and partially written to root outport	16 Jul 2020
2238014	Embedded Coder - Error when calling TLC library function LibBlockInputSignalAllowScalarExpandedExpr	11 Jun 2020
2166906	Embedded Coder - SIL/PIL simulation fails if model contains Reset Function block and model step function uses function prototype control	14 May 2020

2194951	Embedded Coder - Performance regression caused during code generation for models with large data set	06 Apr 2020
2133775	Embedded Coder - MATLAB might crash when generating code for a model containing C action language Stateflow Chart with shift operation applied to custom storage class	06 Feb 2020
1934700	Embedded Coder - Model block SIL or PIL simulation produces error for AUTOSAR software component with model workspace parameters mapped to SharedParameter	06 Feb 2020
2106435	Embedded Coder - Code generation error for AUTOSAR model in which Simulink Function sends message to root outport	19 Dec 2019
2072645	Embedded Coder - Incorrect Code Generation: Incorrect results might occur for C++ std::string in MATLAB Function block	11 Oct 2019
1999672	Embedded Coder - Incorrect Code Generation : Incorrect results are possible for a model with a For Each subsystem block	16 Aug 2019
2007592	Embedded Coder - Incorrect Code Generation: Incorrect results might occur for a model with a Bus Assignment block and an Assignment block	16 Aug 2019
1955846	Embedded Coder - MATLAB might crash while building a model with a Reusable custom storage class specification on root i/o	24 Apr 2019
1709275	Embedded Coder - Generated code for Stateflow Chart may contain dead initialization code	12 Feb 2018

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Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



Display bug reports for IEC Certification Kit (19-Oct-2020 20:30:59)

Display bug reports for IEC Certification Kit (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Passed

There are no IEC Certification Kit bug reports for release R2020a.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Polyspace Code Prover bug reports for release R2020a

ID	Bug Report Summary	Modified
2053304	Polyspace Code Prover - Polyspace analysis stops with error: declaration is incompatible with "void OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	19 Oct 2020
2142882	Polyspace Code Prover - External constraints are not recognized on arguments passed by reference to stubbed functions	16 Sep 2020
2184422	Polyspace Code Prover - Incorrect Function not called check when using compiler pragma inline=never	16 Sep 2020

1654557	Polyspace Code Prover - Operation using wrapped values from a previous orange overflow is green even if tooltip indicates a possible second overflow	16 Sep 2020
2234024	Polyspace Code Prover - Error with behavior specification options in Polyspace analysis in client-server mode	16 Sep 2020
2283507	Polyspace Code Prover - Polyspace on Windows crashes in the C to intermediate language translation phase	16 Sep 2020
2291238	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are ignored on header files	18 Aug 2020
2190091	Polyspace Code Prover - Error during compilation of C++ file: stl_tree.h, line 2142: error: no instance of constructor	22 Apr 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Bug Finder (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 11 Polyspace Bug Finder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Bug Finder - False positive violations of AUTOSAR C++14 rule M8-	22 Sep
2301358	4-4 on function calls to static methods from objects	2020
	Polyspace Bug Finder - Polyspace fails to report some results, with the error:	21 Sep
2287440	Database::connect: failed to open the interprocess mutex	2020
	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous	16 Sep
2211362	union members	2020
	Polyspace Bug Finder - Launching an analysis from MATLAB generates the	16 Sep
2198724	error: Product required for 'pslinkrunImpl' not installed	2020
	Polyspace Bug Finder - Polyspace code metrics values saturate at	16 Sep
2292126	2147483647	2020
	Polyspace Bug Finder - polyspace-configure could not open options file	16 Sep
2196298		2020
	Polyspace Bug Finder - Missing source files or compiler options in Polyspace	16 Sep
2151011	project when polyspace-configure fails to read compiler options file	2020
	Polyspace Bug Finder - polyspace-access command in Linux crashes or fails	16 Sep
2276516	to upload or download results	2020
	Polyspace Bug Finder - Polyspace annotation not correctly applied when	16 Sep
2088723	syntax incomplete or severity field missing	2020
	Polyspace Bug Finder - polyspace-configure could not open temporary	25 Aug
2132811	options file when using Renesas SH	2020
	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined	31 Jul
2260058	macro	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Polyspace Code Prover Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Code Prover Server (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 5 Polyspace Code Prover Server bug reports for release R2020a

ID	Bug Report Summary	Modified
	Polyspace Code Prover - Polyspace analysis stops with error: declaration is	19 Oct
2053304	incompatible with "void	2020
	OSEK_polyspace_ActivateTask(OSEK_polyspace_task_type)"	
	Polyspace Code Prover - Incorrect Function not called check when using	16 Sep
2184422	compiler pragma inline=never	2020
	Polyspace Code Prover - Operation using wrapped values from a previous	16 Sep
1654557	orange overflow is green even if tooltip indicates a possible second overflow	2020
	Polyspace Code Prover - Polyspace on Windows crashes in the C to	16 Sep
2283507	intermediate language translation phase	2020
	Polyspace Code Prover - In unit-by-unit mode Polyspace annotations are	18 Aug
2291238	ignored on header files	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Polyspace Bug Finder Server (19-Oct-2020 20:30:59)

Display bug reports for Polyspace Bug Finder Server (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 7 Polyspace Bug Finder Server bug reports for release R2020a

ID	Bug Report Summary	Modified
2287440	Polyspace Bug Finder - Polyspace fails to report some results, with the error: Database::connect: failed to open the interprocess mutex	21 Sep 2020
2211362	Polyspace Bug Finder - Polyspace analysis fails with error about anonymous union members	16 Sep 2020
2198724	Polyspace Bug Finder - Launching an analysis from MATLAB generates the error: Product required for 'pslinkrunImpl' not installed	16 Sep 2020
2292126	Polyspace Bug Finder - Polyspace code metrics values saturate at 2147483647	16 Sep 2020
2088723	Polyspace Bug Finder - Polyspace annotation not correctly applied when syntax incomplete or severity field missing	16 Sep 2020

2132811	Polyspace Bug Finder - polyspace-configure could not open temporary options file when using Renesas SH	25 Aug 2020
2260058	Polyspace Bug Finder - Incorrect MISRA-C:2012 5.4 violation for undefined macro	31 Jul 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Design Verifier (19-Oct-2020 20:30:59)

Display bug reports for Simulink Design Verifier (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 28 Simulink Design Verifier bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Design Verifier - Simulink Design Verifier ignores certain	13 Oct
2321185	justification rules in filter files	2020

2245496	Simulink Design Verifier - Error with exporting the test cases generated by Simulink Design Verifier to Simulink Test to a Signal Builder harness	13 Oct 2020
2316213	Simulink Design Verifier - Simulation of a SLDV generated harness containing a Stateflow chart does not use JIT	23 Sep 2020
2308596	Simulink Design Verifier - MATLAB crashes when extending manually generated test cases using Simulink Design Verifier	18 Sep 2020
2289718	Simulink Design Verifier - Simulink Design Verifier might fail to complete normally when performing Out of bound array access detection on models containing matrix-typed data with an InitialValue	18 Sep 2020
2187119	Simulink Design Verifier - sldvisactive may incorrectly return false when translating a model with model blocks	18 Sep 2020
2181612	Simulink Design Verifier - MATLAB crashes in Test Extension workflow when the configured parameters result in dead logic	18 Sep 2020
2069355	Simulink Design Verifier - Range Collection Mode as Derived ranges in Fixed-point Tool fails for export function models	18 Sep 2020
2298193	Simulink Design Verifier - slvnvmakeharness and sldvmakeharness error out and pauses the simulation when the Bus element port is of inherit:auto data type	17 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2118180	Simulink Design Verifier - Compatibility check fails for models with erroneous block specific copy action callbacks	16 Sep 2020
2126877	Simulink Design Verifier - Reusing Simulink cache file errors out when no replacement model is generated for a custom block replacement rule	16 Sep 2020
2209498	Simulink Design Verifier - Incorrect objective status reported when a model is analyzed in Accelerator simulation mode	16 Sep 2020
2202755	Simulink Design Verifier - Simulation mode set to Normal mode, once the analysis is finished	16 Sep 2020
2202754	Simulink Design Verifier - Fast Restart mode gets disabled after Simulink Design Verifier analysis	16 Sep 2020
2026246	Simulink Design Verifier - Compatibility check may fail for models containing Data Store Memory blocks	16 Sep 2020
2150560	Simulink Design Verifier - Compatibility check may fail for models containing Subsystem Reference blocks	16 Sep 2020

2172228	Simulink Design Verifier - The Simulink Design Verifier generated harness model does not simulate with design model having Out Bus Elements of heterogeneous types	16 Sep 2020
2167393	Simulink Design Verifier - Incorrect error message with sldvlogsignals when its first argument refers to a model with bus element port blocks	16 Sep 2020
1796913	Simulink Design Verifier - Incorrect Code Generation: Incorrect dead logic reported for multiport switch having constant array as control input	16 Sep 2020
2172875	Simulink Design Verifier - The change in enabled status of Proof Objective is not considered while rerunning property proving analysis	16 Sep 2020
2221035	Simulink Design Verifier - Simulink Design Verifier throws a nonintuitive error message on certain models containing MATLAB Function blocks	16 Sep 2020
2149712	Simulink Design Verifier - Compatibility check results in unclear error message for a model with Initialize-Reset-Terminate (IRT) Subsystem inside a Model Reference	16 Sep 2020
2165435	Simulink Design Verifier - Testcases are not extended when the configured parameters are of fixed-point type	16 Sep 2020
2168044	Simulink Design Verifier - Incorrect results for the Relational operator block when the block input is a nonscalar complex signal	16 Sep 2020
2278458	Simulink Design Verifier - Incorrect analysis results on certain models containing Sqrt blocks with fixed-point input signal	16 Sep 2020
2294121	Simulink Design Verifier - Block replacement fails for models containing Saturation Dynamic block	16 Sep 2020
2263987	Simulink Design Verifier - Generating tests based on existing coverage data may fail to complete normally for models with Logical Operator blocks having unsatisfiable objectives	27 Jul 2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink PLC Coder (19-Oct-2020 20:30:59)

Display bug reports for Simulink PLC Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 14 Simulink PLC Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2147418	for CODESYS target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generation	18 Sep
2220730	for PC Worx 6.0 target when using models with Shift Arithmetic blocks	2020
	Simulink PLC Coder - Simulink PLC coder throws a typecast assertion during	16 Sep
2182040	code generation	2020
	Simulink PLC Coder - Incorrect Code Generation: Incorrect code generated	16 Sep
2147686	when using y=f(y) style MATLAB function in a Simulink function inside a Stateflow chart	2020
	Simulink PLC Coder - Incorrect Code Generation: Output variables not	16 Sep
2176576	updated for sub-function block calls related to initialization	2020
	Simulink PLC Coder - Simulink PLC Coder does not support the	16 Sep
2180371	Simulink.LookupTable, Simulink.Breakpoint, and	2020
	Simulink.DualScaledParameter objects for code generation	

	Simulink PLC Coder - Incorrect Code Generation: Generated PLC code might	16 Sep
2201973	produce incorrect results due to automated type conversion from unsigned to	2020
	signed integer	
	3,5,1,0,4,11,10,5,0,1	
	Simulink PLC Coder - Incorrect Code Generation: Code generated for the TIA	16 Sep
2208060	Portal: Double Precision target IDE could experience inconsistent behavior	2020
	when type casting a floating-point data type to an integer data type.	
	Simulink PLC Coder - Code generation errors out for tunable parameters	16 Sep
2092179	having fixed-point data type	2020
	Simulink PLC Coder - Multi-testbench signal group time range check may	16 Sep
2221963	cause multi-testbench code generation workflow to error	2020
	Simulink PLC Coder - Incorrect Code Generation: Bus signal connecting Unit	16 Sep
2265288	delay block to MATLAB function block may generate wrong code	2020
	Simulink PLC Coder - Incorrect Code Generation: Simulink.CoderInfo object	16 Sep
2261693	that has Identifier property set causes missing initial values in generated PLC code	2020
	Simulink PLC Coder - MATLAB might crash when generating PLC code for a	11 Jun
2216089	model that uses Simulink.Signal	2020
	Simulink PLC Coder - Incorrect Code Generation: PLC Coder generates wrong	11 Oct
2062037	code for the Discrete-time Integrator block using unsupported integrator methods	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Check (19-Oct-2020 20:30:59)

Display bug reports for Simulink Check (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 24 Simulink Check bug reports for release R2020a

ID	Bug Report Summary	Modified
	Simulink Requirements - Requirements Traceability Report for MATLAB code	19 Oct
2319269	file mentions obsolete file type	2020
	Simulink Check - Model Metrics Dashboard crashes MATLAB when collecting	12 Oct
2256035	metric data for a demo model	2020
	Simulink Check - MAAB check Stateflow transition appearance incorrectly	18 Sep
2282734	flags transitions crossing junctions	2020
	Simulink Check - Check trigger signal names flags Simulink functions nested	18 Sep
2266293	in stateflow charts	2020
	Simulink Check - Incorrect warning with Check use of default	18 Sep
2172579	variants(mathworks.maab.na_0036) for Label variant control mode	2020
	Simulink Check - The check for JMAAB Check Stateflow transition appearance	16 Sep
2195350	(mathworks.jmaab.db_0129) displays an incorrect warning	2020
	Simulink Check - Error message with Function-Call Subsystem added as slice	16 Sep
2179943	component using addSliceComponent	2020
	Simulink Coverage - Incorrect execution coverage for referenced export-	16 Sep
2198087	function model	2020
	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep
2173909		2020
	Simulink Check - Model Transformer tool generates an error while	16 Sep
2181624	refactoring a model to eliminate Data Store Memory blocks	2020

2227557	Simulink Check - Model Advisor check Check usage of Merge block flags Initialize Function block	16 Sep 2020
2227337	Tittalize Fulletion block	2020
2231694	Simulink Check - Model Advisor check Data type selection for index signals produces an error	16 Sep 2020
2255599	Simulink Check - The Model Advisor check Check for optimal bus virtuality (ID: mathworks.design.OptBusVirtuality) flags virtual bus crossing model boundary	16 Sep 2020
2254719	Simulink Check - Model Advisor checks fail when executed by using the command line API with parallel mode option	16 Sep 2020
2253699	Simulink Check - MATLAB crashes when collecting model metrics on a model that references a protected model	16 Sep 2020
2294944	Simulink Check - Check for model elements that do not link to requirement results in an abnormal exit	16 Sep 2020
2244386	Simulink Check - JMAAB check Consistency in model element names incorrectly flags models with Bus Selector block	16 Sep 2020
2302437	Simulink Check - JMAAB check Prohibition of logical value comparison in Stateflow incorrectly flags transitions where no logical constants are used	26 Aug 2020
2299587	Simulink Check - JMAAB check Condition actions and transition actions in Stateflow incorrectly flags condition actions with C-style comments	26 Aug 2020
2299606	Simulink Check - JMAAB check Use of named Stateflow parameters and constants incorrectly flags numeric literal 1 used in increment or decrement statement	26 Aug 2020
2305505	Simulink Check - JMAAB check Prohibited use of implicit type casting in Stateflow reports issue when comparing same enumeration type	24 Aug 2020
2303251	Simulink Check - JMAAB check Comment position in transition label reports issue for correctly positioned comment	24 Aug 2020
2301018	Simulink Check - The model advisor check Check safety-related optimization settings for data initialization displays incorrect recommended action when Code interface packaging is set to C++	17 Aug 2020
2302551	Simulink Check - JMAAB check "Check usage of transition conditions in Stateflow transitions" (ID: mathworks.jmaab.jc_0772) incorrectly flags single internal transitions in a Stateflow chart	14 Aug 2020
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Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for Simulink Coverage (19-Oct-2020 20:30:59)

Display bug reports for Simulink Coverage (R2020a) available at https://www.mathworks.com/support/bugreports.

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 8 Simulink Coverage bug reports for release R2020a

ID	Bug Report Summary	Modified
2304122	Simulink Coverage - Aggregated coverage data description missing from coverage report	13 Oct 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2183237	Simulink Coverage - Generating a model coverage report using an exported object can cause an error	16 Sep 2020
2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020

	Simulink Coverage - An error occurs when a Simulink Subsystem Harness	16 Sep
2179804	contains a block and subsystem with identical names	2020
	Simulink Coverage - An error occurs in the Simulink Test Manager while	16 Sep
2247819	aggregating coverage data for a Subsystem Harness if the subsystem contains	2020
	a call to an external MATLAB file	
	Simulink Coverage - Generating a coverage report in the Test Manager for	16 Sep
2276842	subsystem harnesses at different levels in a library causes an assertion failure	2020
	Simulink Coverage - Scoping coverage to requirements-based tests causes	29 Jun
2267735	0% coverage for subsystem test harnesses	2020

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Test (19-Oct-2020 20:30:59)

Display bug reports for Simulink Test (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Test bug reports for release R2020a

ID	Bug Report Summary	Modified
2249151	Simulink Test - ModelCoveragePlugin used with Project errors or returns incorrect coverage metrics when running tests using the MATLAB Unit TestRunner	19 Oct 2020
2290935	Simulink Test - Test execution failure with parameter overrides and SIL or PIL simulation mode	09 Oct 2020
2253936	Simulink Test - Signals specified for test case in Test Manager Simulation Output section not included in results	01 Oct 2020
2326680	Simulink Test - Plot index specified in Test Manager Simulation Output Logged Signal Set not applied correctly	21 Sep 2020
2286940	Simulink Test - Project does not automatically rename usages of data dictionaries inside internal test harnesses	18 Sep 2020
2194996	Simulink Test - Results export or import fails when custom criteria diagnostic contains a null character	16 Sep 2020
2212150	Simulink Test - Incorrect override of parameters in Simulink Test	16 Sep 2020
2160783	Simulink Test - Observer port moved to new signal shows link to original signal	16 Sep 2020
2210475	Simulink Test - Test suite and test file cleanup callbacks are executed before all test cases are complete	16 Sep 2020
2204045	Simulink Test - MATLAB might crash when capturing a baseline to a spreadsheet	16 Sep 2020
2224093	Simulink Test - Cannot override logging for data store defined in data dictionary using Test Manager.	16 Sep 2020
2236833	Simulink Test - Recovered Stateflow Charts block inserted in Subsystem Reference test harness	16 Sep 2020
2249535	Simulink Test - Test result report that includes Signal Editor block data values produces an error	16 Sep 2020
2252259	Simulink Test - Iterations configured for Fast Restart mode run in Normal mode	16 Sep 2020
2267804	Simulink Test - Simulink Test Manager might crash when running tests that collect coverage	16 Sep 2020
2257194	Simulink Test - MATLAB stalls during test execution	16 Sep 2020

2201774	Simulink Test - Running steps in Test Sequence are not highlighted in the animation during simulation	16 Sep 2020
2248616	Simulink Test - Test For Model Component wizard errors when generating tests for models with configuration set references	16 Sep 2020
2261095	Simulink Test - Simulink tests using MATLAB Unit Test framework might fail if signals are logged from referenced models and iterations run in fast restart mode	25 Aug 2020
2255433	Simulink Test - Loading externally saved test harness using load_system might cause MATLAB to crash.	01 Jul 2020
2241749	Simulink Test - Running R2015a test cases with mapped inputs in R2020a might fail in Test Manager	15 Jun 2020
2249557	Simulink Test - Running a test file containing test cases with external test harnesses that contain a Signal Builder block might error	11 Jun 2020
2248003	Simulink Test - Testing a component in a library when simulation mode is overridden to not use model settings might fail	11 Jun 2020
2239108	Simulink Test - Test execution compiles model multiple times	11 Jun 2020
2237793	Simulink Test - Changed ports in an observer model do not highlight correctly in Manager Observer dialog box	11 Jun 2020
2237774	Simulink Test - Dragging ports of a subsystem interface might cause lost connections in associated test harnesses	11 Jun 2020
2236006	Simulink Test - Test using sltest.testmanager.run on models with fast restart fail, but pass when using Test Manager	11 Jun 2020
2120213	Simulink Test - Comparison results for complex signals produce "Signals not aligned" warning	13 Dec 2019
2114999	Simulink Test - Running test harnesses using Run with Stepper button on toolstrip is not supported	13 Dec 2019
2112483	Simulink Test - Test that overrides Signal Editor scenario and includes inputs in the results produces an error	13 Dec 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for Simulink Requirements (19-Oct-2020 20:30:59)

Display bug reports for Simulink Requirements (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 30 Simulink Requirements bug reports for release R2020a

ID	Bug Report Summary	Modified
2326401	Simulink Requirements - Import from IBM DOORS Next not working when configuration management is enabled for project	19 Oct 2020
2319269	Simulink Requirements - Requirements Traceability Report for MATLAB code file mentions obsolete file type	19 Oct 2020
2299729	Simulink Requirements - Error when creating link with IBM DOORS Next (DNG)	18 Sep 2020
2286619	Simulink Requirements - Requirements Editor might not display images in description for requirements imported with ReqIF	18 Sep 2020
2206550	Simulink Requirements - Requirements report displays unrelated text with requirement description	18 Sep 2020

2198087	Simulink Coverage - Incorrect execution coverage for referenced export- function model	16 Sep 2020
2179943	Simulink Check - Error message with Function-Call Subsystem added as slice component using addSliceComponent	16 Sep 2020
2172917	Simulink Requirements - Links to imported DOORS Next items not listed in browser popup window on DOORS Next side	16 Sep 2020
2182761	Simulink Requirements - Requirements Editor might become frozen after deleting multiple objects	16 Sep 2020
2161457	Simulink Requirements - Import or Update from Microsoft Word fails with an error popup	16 Sep 2020
2173909	Simulink Requirements - Bullet points not imported correctly from DOORS 9	16 Sep 2020
2200430	Simulink Requirements - Import from IBM DOORS Next Generation broken for non-default server instance	16 Sep 2020
2191769	Simulink Requirements - Requirements links lost in round trip workflow when exporting with ReqIF	16 Sep 2020
2192264	Simulink Requirements - Simulink Requirements exported ReqIF file has wrong attribute definition references	16 Sep 2020
2210569	Simulink Requirements - Unrecgonized date-time format error when importing DOORS module	16 Sep 2020
2172030	Simulink Requirements - Requirements Editor becomes slow when opening requirement sets with large number of incoming links	16 Sep 2020
2222794	Simulink Requirements - Traceability link from Requirement to Simulink Test Case appears unresolved	16 Sep 2020
2282997	Simulink Requirements - Failure to login to IBM DOORS Next when performing oslc.configure() procedure	16 Sep 2020
2277377	Simulink Requirements - Import from DOORS Next module or query does not work with port number 443	16 Sep 2020
2123991	Simulink Requirements - Requirements imported from IBM DOORS Next missing "Updated on" Revision information	16 Sep 2020
2292859	Simulink Requirements - Error when trying to enter a numeric DNG ID into the Location field of Outgoing Links dialog	25 Aug 2020
2253967	Simulink Requirements - MATLAB stops responding after updating previously imported requirements in Requirements Editor	30 Jul 2020

	Simulink Requirements - ReqIF ID values might change between revisions	30 Jul
2251452	when exporting to ReqIF	2020
	Simulink Requirements - Traceability Matrix does not render link icons	11 Jun
2247892	correctly	2020
	Simulink Requirements - Failure to connect with IBM DOORS Next (DNG)	11 Jun
2247724	when importing requirements	2020
	Simulink Requirements - 3rd-Party requirements tool does not accept ReqIF	11 Jun
2210749	exported by Simulink Requirements	2020
	Simulink Requirements - Displayed column widths in Requirements Editor	14 May
2232550	might be reset	2020
	Simulink Requirements - MATLAB crashes while updating requirement from	22 Apr
2205640	IBM DOORS Next server	2020
	Simulink Requirements - Missing requirement links for Stateflow objects in	06 Feb
2163041	library after resolve-push	2020
	Simulink Requirements - Error when clicking Show in document for	24 Apr
1970160	references imported from IBM Rational DOORS Next Generation module	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	

△ Display bug reports for AUTOSAR Blockset (19-Oct-2020 20:30:59)

Display bug reports for AUTOSAR Blockset (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 27 AUTOSAR Blockset bug reports for release R2020a

ID	Bug Report Summary	Modified
2177276	AUTOSAR Blockset - Using file enum (derived from Simulink.IntEnumType) generates error on code generation	16 Sep 2020
2176249	AUTOSAR Blockset - Storage class for data objects in the model workspace not honored for models with AUTOSAR target	16 Sep 2020
2169930	AUTOSAR Blockset - Error during integration of AUTOSAR Adaptive artifacts from an existing model into another one	16 Sep 2020
2186553	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an array of fixed-point data	16 Sep 2020
2186526	AUTOSAR Blockset - AUTOSAR adaptive model fails to generate code when root inport message data type is an enumeration	16 Sep 2020
2181174	AUTOSAR Blockset - Header file name for enumeration data types is not validated against the AUTOSAR Adaptive Platform standard	16 Sep 2020
2140480	AUTOSAR Blockset - Build error for AUTOSAR model with bus inports and Concatenate block	16 Sep 2020
2172258	AUTOSAR Blockset - Code generated from model configured for the AUTOSAR Adaptive Platform does not honor function interface configuration settings for Function Caller blocks	16 Sep 2020
2169925	AUTOSAR Blockset - AUTOSAR Component Quick Start for adaptive models does not honor specified component package	16 Sep 2020
2190882	AUTOSAR Blockset - Code generation error for AUTOSAR model that uses AUTOSAR.Parameter in Simulink.Variant object	16 Sep 2020
2191143	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software component errors out when an ApplicationDataType is mapped to an AUTOSAR Adaptive Platform type	16 Sep 2020

	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software	16 Sep
2199121	component validates existing enumerations against header file requirements	2020
	for AUTOSAR Classic Platform instead of AUTOSAR Adaptive Platform	
	AUTOSAR Blockset - Incorrect Code Generation: Incorrect Rte read function	16 Sep
2196883	call generated for AUTOSAR model with bus ports and ErrorStatus inport	2020
	AUTOSAR Blockset - ARXML import of enumeration data type for AUTOSAR	16 Sep
2195897	adaptive software component does not create Simulink enumeration data	2020
	type	
	AUTOSAR Blockset - ARXML import for AUTOSAR adaptive software	16 Sep
2195328	component ignores data types specified as STD-CPP-IMPLEMENTATION-	2020
2133320	DATA-TYPE of category TYPE_REFERENCE	2020
	AUTOSAR Blockset - ARXML export from an AUTOSAR adaptive model	16 600
2192435	generates incorrect tag, IMPLEMENTATION-DATA-TYPE, for Enumeration data	16 Sep 2020
2132433	types and references inside DataTypeMaps	2020
		10.00
2194672	AUTOSAR Blockset - AUTOSAR XML import fails with Unrecognized method, property, or field 'IsApplication' for class 'M3I.Object'	16 Sep 2020
2194072	property, or neid isApplication for class ivisi.Object	2020
	AUTOSAR Blockset - Incorrect Code Generation: Code generation assertion	16 Sep
2204908	or incorrect code generated for model containing error-status ports for two	2020
	elements of the same AUTOSAR receiver port	
	AUTOSAR Blockset - AUTOSAR mappings for blocks within referenced	16 Sep
2194284	subsystem do not persist when model is reopened	2020
	AUTOSAR Blockset - Code generation assertion for AUTOSAR model with	16 Sep
2263759	corrupt signal, state, or data store mapping	2020
	AUTOSAR Blockset - Incorrect Code Generation: Code generation might	16 Sep
2266489	ignore AUTOSAR per-instance properties of mapped signal, state, or data	2020
	store	
	AUTOSAR Blockset - Model Advisor check for an AUTOSAR adaptive model	16 Sep
2198048	with message root I/O crashes MATLAB	2020
	AUTOSAR Blockset - MATLAB might crash when opening AUTOSAR model in	30 Jul
2275260	which blocks are linked to a library	2020
	AUTOSAR Blockset - Component creation from ARXML fails if	30 Jan
2134859	ClientServerOperation arguments are 64-bit integers	2020
	AUTOSAR Blockset - MATLAB crashes during code generation for an	30 Jan
2160270	AUTOSAR model that has mapped signals, states, or data stores	2020

	AUTOSAR Blockset - Incorrect Code Generation: Incorrect event data	13 Dec
2118436	received in AUTOSAR adaptive model when Message Receive block	2019
	specifies Use initial value for Value source when queue is empty	
	AUTOSAR Blockset - AUTOSAR model build fails with "Unrecognized function	13 Dec
2123864	or variable 'calPrmGraphicalName'"	2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	



△ Display bug reports for HDL Coder (19-Oct-2020 20:30:59)

Display bug reports for HDL Coder (R2020a) available at https://www.mathworks.com/support/bugreports .

NOTE: This check does not determine whether your model might be affected by these bugs.

Warning

There are 84 HDL Coder bug reports for release R2020a

ID	Bug Report Summary	Modified
2309546	HDL Coder - NCO HDL Optimized HDL simulation doesn't match Simulink simulation when reset is applied at reset input port	19 Oct 2020
2312936	HDL Coder - Stateflow charts that perform floating point operations might assert during HDL code generation in Native Floating Point mode	19 Oct 2020
2334589	HDL Coder - Gain block whose gain constant is a boolean vector generates internal assertion during HDL code generation	14 Oct 2020
2330221	HDL Coder - NCO HDL Optimized block errors out when phase increment is zero and you are using frame-based output	02 Oct 2020
2312398	HDL Coder - Configuring Subsystem configured with Treat as atomic unit containing bus element ports generates internal assertion during HDL code generation	30 Sep 2020
2205228	HDL Coder - Generated Verilog code for Moore charts due to mix of blocking (=) and non-blocking (<=) assignments in the same process	23 Sep 2020
2218200	HDL Coder - Potential HDL test bench simulation error for models containing Selector blocks with one-based indexing and index ports	22 Sep 2020
2186960	HDL Coder - Xilinx System Generator and HDL Coder integration broken due to Vivado incompatible upgrades	22 Sep 2020
2307924	HDL Coder - Multiply-Accumulate block in Serial architecture generates internal assertion during HDL code generation when input bit width exceeds 63 bits	21 Sep 2020
2202192	HDL Coder - Incorrect Code Generation: MATLAB Function block using MATLAB Datapath architecture might result in mismatch with nested user function calls	18 Sep 2020
2302723	HDL Coder - Assertion thrown during HDL code generation from a Simulink model containing Gain blocks that are operating in "u*K" mode	18 Sep 2020
2255441	HDL Coder - Incorrect Code Generation: Lookup Table(n-D) block with fixed point inputs containing negative fraction length generates incorrect HDL code	18 Sep 2020
2251486	HDL Coder - Incorrect Code Generation: Lookup Table block with linear interpolation and output word length less than or equal to table word length causes HDL mismatch	18 Sep 2020
2226722	HDL Coder - Incorrect Code Generation: Streaming and sharing of resources that are clock-rate pipelined can cause HDL mismatch	18 Sep 2020

	HDL Coder - Incorrect Code Generation: Mismatch in value of parameter	
2221957	Scalarize vector ports between protected model and model in which it is used	
	generates incorrect HDL code	
	HDL Coder - Incorrect Code Generation: HDL coder might generate incorrect	
2216400	code for 1-bit HDL Counter with step value of -1	18 Sep 2020
	·	
2424200	HDL Coder - Initial values of RAMs created during HDL code generation of MATLAB Function blocks with MATLAB Datapath architecture have lower	
2134208	·	
	precision	
	HDL Coder - HDL code generated from models containing Bus Element ports	16 Sep
2118903	may have incorrect syntax with Traceability Style set to Line Level	2020
	HDL Coder - Streaming and sharing on same resource fails when clock-rate	16 Sep
2118897	pipelining is enabled	2020
	LIDI Cadar. LIDI Cada sasasatian amana aut fan a madal with in Diladius.	1C Co.:
2109833	HDL Coder - HDL Code generation errors out for a model with n-D Lookup Table block indicating incompatible extrapolation method	16 Sep 2020
2109033	Table block indicating incompatible extrapolation metriod	2020
	HDL Coder - Incorrect Code Generation: Masked For Each Subsystem when	16 Sep
2117374	used as a top-level DUT generates incorrect HDL code	2020
	HDL Coder - HDL code generation error for Matrix Multiply block using	16 Sep
2169597	DotProductStrategy other than fully parallel with floating-point types	2020
	HDL Coder - Incorrect Code Generation: Potential validation model mismatch	
2129524	for model with redundant logic in presence of streaming and clock rate	16 Sep 2020
2123324	pipelining	2020
	HDL Coder - Generated VHDL code fails to compile when HDL RAM System	16 Sep
2195750	blocks have initial value of data type fixdt(0,1, 0)	2020
	HDL Coder - Incorrect Code Generation: MATLAB Function block that	16 Sep
2187160	performs comparisons with constant value in LHS generates incorrect HDL	2020
	code with MATLAB Datapath architecture	
	HDL Coder - Extract Equations step in Simscape HDL Workflow Advisor does	16 Sep
2198765	not terminate when Stop time of a model is Inf	2020
	LIDI Cadan Farancila a sanaratina VIIDI aada faranadala that aastain	16.6
2112020	HDL Coder - Error when generating VHDL code for models that contain	16 Sep
2112830	signals ending in terminators	2020
	HDL Coder - Error when generating HDL code for Product block set to matrix	16 Sep
2164887	multiply using serial multiply-accumulate DotProductStrategy	2020
	HDL Coder - MATLAB might crash when generating HDL code for large	16 Sep
2137919	models that contain Switch blocks with unconnected output ports	2020

		16 Sep
2212672	HDL Coder - Modifications to HDL Block Properties of blocks inside Subsystem Reference are not saved on to the model	
2205741	HDL Coder - Divide block with ShiftAdd architecture generates internal error for vector dividend and scalar divisor	
2176417	HDL Coder - State-space parameter extraction fails in Extract Equations task of Simscape HDL Workflow Advisor though Check switched linear task might pass for unsupported Simscape elements	
2242229	HDL Coder - Signal logging might cause issues with clock rate pipelining and delay balancing	
2218161	HDL Coder - Wrong sample time inferred in HDL implementation model when model base rate is faster than Simscape solver sample time	16 Sep 2020
2244823	HDL Coder - Index exceeds array dimensions error thrown while running HDL implementation model generated from Simscape HDL Workflow Advisor	
2180948	HDL Coder - MATLAB Datapath architecture for MATLAB Function blocks incorrectly throws error about unsupported functions using complex integer types	
2180068	HDL Coder - Fixed-Point Designer > Matrix Operations Library blocks throw confusing errors for MATLAB Function blocks during HDL code generation with floating-point types	
2231197	HDL Coder - Incorrect Code Generation: Precision error in double-typed initial values in RAM blocks inferred during HDL code generation from persistent variables in MATLAB function block	16 Sep 2020
2176073	HDL Coder - Error message generated for reals in Stateflow Chart does not show location of unsupported code when Native Floating Point is used	16 Sep 2020
2117385	HDL Coder - Internal assertion during HDL code generation for RAM mapping of double-typed persistent variables using MATLAB Function block in Native Floating Point mode	
2160410	HDL Coder - MATLAB might crash when generating HDL code for models configured for IP Core Generation workflow that introduce blocks with unused ports and have critical path estimation enabled	
2227856	HDL Coder - HDL code generation error when sending an array of bus signal into both an Assignment block and a For Each Subsystem block	16 Sep 2020
2221682	HDL Coder - Error when generating VHDL test bench for model reference as DUT when ScalarizePorts value mismatches between top and referenced model and referenced model contains Single Port RAM	

2207625	HDL Coder - Internal assertion during HDL code generation for certain operators with mix of single and double types in Native Floating Point mode for MATLAB Function block	
2204655	HDL Coder - Traceability report in HDL Coder leads to cryptic error message during code generation.	
2191543	HDL Coder - Internal assertion during HDL code generation for Matrix Multiply block with a row vector output and sharing or streaming optimization	
2169298	HDL Coder - MATLAB Datapath architecture of MATLAB Function block generates internal error when coder pragma is used as an input to a function	16 Sep 2020
2195553	HDL Coder - Generating code for Bus Creator with bus inputs can lead to assertion indicating Empty records are present	
2210576	HDL Coder - Internal assertion generated during HDL code generation for floating-point operators inside model reference in Native Floating Point mode	
2265492	HDL Coder - Incorrect Code Generation: Simscape HDL Workflow Advisor run might run incorrectly when filter input setting used for Simulink to physical signal converter blocks	
2247328	HDL Coder - Error during HDL code generation from hierarchical masked and enable subsystems if signal logging is enabled	
2281688	HDL Coder - Streaming modes of Multiply-Accumulate block might fail to generate HDL test bench	
2281502	HDL Coder - Persistent variable access inside an if condition preceded by a for loop can generate an assertion during HDL code generation	16 Sep 2020
2251493	HDL Coder - Bus input for blocks inside model reference can generate HDL code generation error when optimizations are enabled.	16 Sep 2020
2272652	HDL Coder - VHDLLibraryName customization is ignored during HDL test bench generation	16 Sep 2020
2257170	HDL Coder - Sharing report is incorrect when clock-rate pipelining is enabled on blocks inside a feedback loop with specified oversampling factor	
2253404	HDL Coder - MATLAB crash when generating HDL code for model with hierarchy flattening applied when a black box subsystem is used inside For Each Subsystem	
2250162	HDL Coder - Sine HDL Optimized block shows incorrect port label for exp function.	16 Sep 2020

2199761	HDL Coder - Annotation comments with color leads to collapsed HDL code generation check report	
2181835	HDL Coder - Design having RAM block under masked subsystems with HDL optimizations applied generates unusable generated model	
2157017	HDL Coder - hdlset_param function for specifying synthesis tool is case sensitive	
2258428	HDL Coder - HDL code generation error when Generated Model check box is disabled and optimizations such as Hierarchical Distributed Pipelining is enabled	
2175122	HDL Coder - HDL Coder generates ambiguous error for design having bus element port as input to model reference	16 Sep 2020
2286765	HDL Coder - Delay balancing might fail during HDL code generation in the presence of From and Goto blocks implementing a feedback loop in large complex models	
2256046	HDL Coder - HDL code generation fails for Simulink model that has bus element ports at the interface level of model reference blocks	
2163039	HDL Coder - For Each Subsystem generates assertion during HDL code generation if Partition Dimension is greater than 2	
2228896	HDL Coder - Sqrt block with SqrtNewton architecture reports incorrect message when generating HDL code for multirate model	
2301208	HDL Coder - Assertion generated during HDL code generation for model using complex matrices with MATLAB Function block	25 Aug 2020
2189551	HDL Coder - Assertion generated when bus input with input port parameter Latch input by delaying outside signal selected is input to a Triggered Subsystem	
2221487	HDL Coder - Assertion generated during HDL code generation with Optimization Report turned on	24 Aug 2020
2300111	HDL Coder - Incorrect Code Generation: Stateflow charts with nonzero initial values for outputs can generate incorrect HDL code when the chart contains input events	
2305463	HDL Coder - Error during model generation when generating HDL code for a model with large number of test points	
2152847	HDL Coder - Code generation time increases significantly for complex designs with reporting features	06 Aug 2020

2294775	HDL Coder - Incorrect Code Generation: Gain block with fixed point inputs and Multiplication block parameter set to Matrix(K*u) (u	03 Aug 2020
	vector) generates incorrect HDL code.	20.11
2181877	HDL Coder - Incorrect Code Generation: Data mismatch between Simulink and HDL simulation for partly serial architecture of Discrete FIR Filter HDL Optimized block	30 Jul 2020
		20.1.1
2275090	HDL Coder - Physical signals at the same level as the DUT subsystem might generate errors when creating HDL test bench	28 Jul 2020
2264840	HDL Coder - Unhelpful error message when delay balancing is unsuccesful for a multirate model with resource sharing	23 Jul 2020
2237349	HDL Coder - Incorrect Code Generation: Delay introduced in locally upsampled regions leads to mismatch in validation model	
2212077	HDL Coder - Matrix multiplication in Simulink causes long code generation times for large matrices	01 Jul 2020
2214596	HDL Coder - Error when generating VHDL test bench for model reference used as DUT with mismatch in value of ScalarizePorts property between the top model and referenced model	11 Jun 2020
2082623	HDL Coder - HDL implementation model with validation logic can generate assertions during simulation for default Validation logic tolerance setting	11 Jun 2020
2214587	HDL Coder - Incorrect Code Generation: Potentially incorrect VHDL test bench code generated for multirate design with a vector port named phase at DUT interface and ScalarizePorts parameter set to on	11 Jun 2020
2226678	HDL Coder - Incorrect Code Generation: Accumulation operations modeled in Simulink using feedback loops might cause HDL mismatch due to latency introduced by optimizations upstream	19 May 2020
2005355	HDL Coder - Incorrect Code Generation: Sharing with certain configurations of enabled subsystems results in a mismatch in the validation model	16 Aug 2019

Recommended Action

To determine if your model is affected by the bugs, review the bug report descriptions and workarounds in the links provided in the ID column.

Input Parameters Selection

Name	Value
Only show bug reports modified after date(mm/dd/yyyy)	





Simulink block metric (19-Oct-2020 20:30:59)

Display number of blocks in the model or subsystem.

Component	Blocks
/Input_Signal_Range_Conditioner	49
Wrong_Way_Driver_Warning	41
/Camera_Data_Conditioning	24
/Input_Signal_Range_Change	23
/Map_Data_Conditioning	21
/Valid_Signal	16
/Vehicle_Data_Conditioning	12
/SuppressedOutput	7
/EnabledData	7
/Yaw_Rate_Conversion	3

/Lateral_Sign_Value_in_ISO_Coordinates	3
/Sign_Positional_Longitudional	3
/Vehicle_Speed_Conversion	3



Subsystem metric (19-Oct-2020 20:30:59)
Display number of Subsystems in the model or subsystem.

Component	Subsystems
/Input_Signal_Range_Conditioner	9
/Valid_Signal	2
Wrong_Way_Driver_Warning	1
/Yaw_Rate_Conversion	0
/Vehicle_Data_Conditioning	0
/Map_Data_Conditioning	0
/Camera_Data_Conditioning	0
/Lateral_Sign_Value_in_ISO_Coordinates	0
/Sign_Positional_Longitudional	0
/Input_Signal_Range_Change	0
/SuppressedOutput	0
/EnabledData	0

/Vehicle_Speed_Conversion	0
	i I

Library link metric (19-Oct-2020 20:30:59)
Display number of library links in the model or subsystem.

Passed

Component	Library Links
Wrong_Way_Driver_Warning	0
/Input_Signal_Range_Conditioner	0
/Yaw_Rate_Conversion	0
/Vehicle_Data_Conditioning	0
/Map_Data_Conditioning	0
/Camera_Data_Conditioning	0
/Valid_Signal	0
/Lateral_Sign_Value_in_ISO_Coordinates	0
/Sign_Positional_Longitudional	0
/Input_Signal_Range_Change	0
/SuppressedOutput	0
/EnabledData	0
/Vehicle_Speed_Conversion	0

Λ Less

Effective lines of MATLAB code metric (19-Oct-2020 20:30:59)

Display number of effective lines of MATLAB code.

No metric data available. The component scope of the metric algorithm is not applicable.

Passed

Stateflow chart objects metric (19-Oct-2020 20:30:59)

Display number of Stateflow objects in each chart.

No metric data available. The component scope of the metric algorithm is not applicable.

Passed

✓ Lines of code for Stateflow blocks metric (19-Oct-2020 20:30:59)

Display number of code lines for Stateflow blocks.

No metric data available. The component scope of the metric algorithm is not applicable.

Passed

Subsystem depth metric (19-Oct-2020 20:30:59)

Display depth of subsystems in the model or subsystem.

Total Subsystem Depth: NaN

Component	Subsystem Level	Subsystem Depth
Wrong_Way_Driver_Warning	0	3

/Input_Signal_Range_Conditioner	1	2
/Valid_Signal	2	1
/Yaw_Rate_Conversion	2	0
/Vehicle_Data_Conditioning	2	0
/Map_Data_Conditioning	2	0
/Camera_Data_Conditioning	2	0
/Lateral_Sign_Value_in_ISO_Coordinates	3	0
/Sign_Positional_Longitudional	3	0
/Input_Signal_Range_Change	2	0
/SuppressedOutput	2	0
/EnabledData	2	0
/Vehicle_Speed_Conversion	2	0





✓ Cyclomatic complexity metric (19-Oct-2020 20:30:59)

Display cyclomatic complexity for Simulink and Stateflow objects.

Component	Local Complexity(Component	Aggregated Complexity(Component
	level)	level and descendants)

/Input_Signal_Range_Change	3	3
Wrong_Way_Driver_Warning	1	6
/SuppressedOutput	1	1
/EnabledData	1	1
/Input_Signal_Range_Conditioner	0	5
/Yaw_Rate_Conversion	0	0
/Vehicle_Data_Conditioning	0	0
/Map_Data_Conditioning	0	0
/Camera_Data_Conditioning	0	0
/Valid_Signal	0	0
/Lateral_Sign_Value_in_ISO_Coordinates	0	0
/Sign_Positional_Longitudional	0	0
/Vehicle_Speed_Conversion	0	0



✓ Nondescriptive block name metric (19-Oct-2020 20:30:59)

Display non-descriptive names of Inport, Outport and Subsystem blocks.

Component	Nondescriptive Names

Wrong_Way_Driver_Warning	0
/Input_Signal_Range_Conditioner	0
/Yaw_Rate_Conversion	0
/Vehicle_Data_Conditioning	0
/Map_Data_Conditioning	0
/Camera_Data_Conditioning	0
/Valid_Signal	0
/Lateral_Sign_Value_in_ISO_Coordinates	0
/Sign_Positional_Longitudional	0
/Input_Signal_Range_Change	0
/SuppressedOutput	0
/EnabledData	0
/Vehicle_Speed_Conversion	0



☑ Data and structure layer separation metric (19-Oct-2020 20:30:59)

Display data and structure layer separation, defined by MAAB modeling guideline db_0143.

Component	Non-conforming Blocks
/Valid_Signal	10
Wrong_Way_Driver_Warning	0

/Input_Signal_Range_Conditioner	0
/Yaw_Rate_Conversion	0
/Vehicle_Data_Conditioning	0
/Map_Data_Conditioning	0
/Camera_Data_Conditioning	0
/Lateral_Sign_Value_in_ISO_Coordinates	0
/Sign_Positional_Longitudional	0
/Input_Signal_Range_Change	0
/SuppressedOutput	0
/EnabledData	0
/Vehicle_Speed_Conversion	0

Modeling Signals and Parameters using Buses
 Check for optimal bus virtuality
 Not Run
 Check structure parameter usage with bus signals
 Not Run
 Check bus signals treated as vectors
 Not Run

⚠ Check optimization settings (19-Oct-2020 20:30:59)

Check optimization settings

Warning

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

Status	Parameter	Current Value	Recommended Values
Warning	Block reduction (BlockReduction)	off	on
Warning	Inline invariant signals (InlineInvariantSignals)	off	on
Warning	Simulation range checking (SignalRangeChecking)	error	none
Warning	Ignore test point signals (IgnoreTestpoints)	off	on

Recommended Action

Follow the links in the result table to modify the model configuration parameters.

☑ Identify blocks using one-based indexing (19-Oct-2020 20:30:59)

Check the model for blocks configured for one-based indexing

Passed

All blocks in the model use zero-based indexing.

✓ Identify questionable software environment specifications (19-Oct-2020 20:30:59) **Passed**

Identify lookup table blocks that generate expensive out-of-range checking code (19-Oct-2020 20:30:59)

These settings can lead to inefficient code generation when inputs always fall within the range of valid breakpoint values for lookup table blocks, including Lookup Table blocks, Prelookup blocks and Interpolation blocks.

Passed

The lookup table blocks have been configured to generate range-checking free code.

Identify questionable code instrumentation (data I/O) (19-Oct-2020 20:30:59)

Passed

Check output types of logic blocks (19-Oct-2020 20:30:59)

Identify logic blocks that are outputting non-Boolean data types.

Passed

All logic blocks are being used appropriately.

Check configuration parameters for generation of inefficient saturation code (19-Oct-2020 20:30:59)

Check setting for generation of saturation code which handles out of range values. This code decreases the net efficiency of the application.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended	
Status		Value	Values	Prerequisites

Pass	Remove code from tunable parameter	on	on	IsERTTarget
	expressions that saturates out-of-range			
	values (EfficientTunableParamExpr)			
D -	Target derived from ERT (IsERTTarget)	on	on	
Pass				
Pass	Remove code from floating-point to integer conversions with saturation that maps NaN to zero (EfficientMapNaN2IntZero)	on	on	IsERTTarget
	zero (Emcientiviapivarizmizero)			

☑ Identify blocks that generate expensive rounding code (19-Oct-2020 20:30:59) Check for expensive rounding operations in multiplication and division **Passed Check Optimization and Hardware Implementation settings (Lookup Blocks) Passed** Check for expensive rounding in a data type conversion **Passed** Check for expensive rounding modes in the model **Passed** Identify questionable fixed-point operations (19-Oct-2020 20:30:59) **Check for multiword operations Passed** Check for expensive multiplication code **Passed**

Check f	or expensive division code
Passed	
Identify	lookup blocks with uneven breakpoint spacing
Passed	
Check f	or expensive pre-lookup division
Passed	
Check f	or expensive data type conversions
Passed	
Check f	or fixed-point comparisons with predetermined results
Passed	
Check f	or expensive binary comparison operations
Passed	
Check f	or expensive fixed-point types
Passed	
Identif :30:59)	y blocks that generate expensive fixed-point and saturation code (19-Oct-202
Identify	Sum blocks for questionable fixed-point operations
Passed	
Identify	Relational Operation blocks for questionable fixed-point operations
Passed	

Identify Data Type Conversion Inherited blocks for questionable fixed-point operations
Passed
Identify Switch blocks for questionable fixed-point operations
Passed
Identify Logic blocks for questionable fixed-point operations
Passed
Identify Saturate blocks for questionable fixed-point operations
Passed
Identify Min Max blocks for questionable fixed-point operations
Passed Passed
Identify Discrete Integrator blocks for questionable fixed-point operations
Passed
Identify Compare To Constant blocks for questionable fixed point analysis as
Identify Compare To Constant blocks for questionable fixed-point operations Passed
rasseu

Identify Lookup Table blocks for questionable fixed-point operations			
Passed			
Identify blocks that will invoke net slope computation			
Passed			
Identify Product blocks that are less efficient			
Passed			
Check for expensive saturation code			
Warning			
Check Optimization and Hardware Implementation settings			
Integer division generated code will contain protection against arithmetic exceptions like division by zero, INT_MIN/-1, and LONG_MIN/-1. Depending on the hardware, arithmetic exceptions can cause dramatic behavior, so protecting against these exceptions can be critical. Some designers construct their models in an extremely careful way that makes it impossible for exception triggering input combinations to reach a division operation. For these models, the protection code generated as part of the division operation is redundant. This redundant protection code can be removed using the fixed-point division setting in the Configuration Parameters dialog box. This should only be done when you have painstakingly verified that your model cannot cause exceptions in division operations.			
Remove code that protects against division arithmetic exceptions			
Wrong_Way_Driver_Warning			

 Identify blocks generating inefficient algorithms (19-Oct-2020 20:30:59) Passed No inefficient algorithms found in the model.
Modeling Single-Precision Systems
Identify questionable operations for strict single-precision design Not Run
☐ Migrating to Simplified Initialization mode
Check usage of Merge blocks Not Run
Check usage of Outport blocks Not Run
Check usage of Discrete-Time Integrator blocks Not Run
Check model settings for migration to simplified initialization mode Not Run
Row-major code generation
Identify blocks generating inefficient algorithms Not Run
Check for blocks not supported for row-major code generation Not Run

Identify TLC S-Functions with unset array layout Not Run
□ Model Referencing
Check for model reference configuration mismatch (19-Oct-2020 20:30:59) Passed
Check diagnostic settings ignored during accelerated model reference simulation (19-Oct-2020 20:30:59) The configuration parameter settings passed the check.
Check code generation identifier formats used for model reference (19-Oct-2020 20:30:59) The configuration parameter settings passed the check.
Check for parameter tunability information ignored for referenced models (19-Oct-2020 20:30:59)
Passed
Check for implicit signal resolution (19-Oct-2020 20:30:59)
Passed
Check bus signals treated as vectors (19-Oct-2020 20:30:59) Bus signal treated as vector Identify bus signals in the model that are treated as vectors by the Simulink software.
Passed The model uses bus signals properly. Model is configured to detect future changes that might result in improper bus signal usage.

△ Check root model Inport block specifications (19-Oct-2020 20:30:59)

Your model contains root-level Inport blocks with undefined attributes, such as dimensions, sample time, or data type. If you do not explicitly define these attributes, Simulink will use back-propagation from downstream blocks to assign values to the attributes when updating the model. This can lead to undesired simulation results. To avoid this, fully define the attributes of all of your model's root-level Inport blocks.

The following root-level Inport blocks have undefined attributes:

Wrong Way Driver Warning/VehicleSpeed

Wrong Way Driver Warning/DrivingReverse

Wrong_Way_Driver_Warning/YawRate

Wrong_Way_Driver_Warning/ActiveState

Wrong_Way_Driver_Warning/Data_DrivingSide

Wrong_Way_Driver_Warning/Data_CountryCode

Wrong_Way_Driver_Warning/Diagnostics_MissingData

Wrong_Way_Driver_Warning/Data_OffRoad

Wrong_Way_Driver_Warning/Data_NumberLaneDrivingDirection

Wrong_Way_Driver_Warning/Data_NumberLaneOppositeDirection

Wrong_Way_Driver_Warning/Data_TurnAngle Wrong_Way_Driver_Warning/Sensor_SignID Wrong_Way_Driver_Warning/Sensor_SignType Wrong_Way_Driver_Warning/Sensor_SignTrackingState Wrong_Way_Driver_Warning/Sensor_SignConfidence Wrong_Way_Driver_Warning/Sensor_SignPositionLateral Wrong_Way_Driver_Warning/Sensor_SignPositionLongitudional Wrong_Way_Driver_Warning/Sensor_SignRelevance Wrong_Way_Driver_Warning/Sensor_SignAboveRoad Wrong_Way_Driver_Warning/Suppressed_Data Wrong_Way_Driver_Warning/Current_DataOnOff Check for large number of function arguments from virtual bus across model reference boundary (19-Oct-2020 20:30:59) No referenced models found. □ Managing Library Links And Variants
②0 ③0 △0 □4 Identify disabled library links Not Run

Identify parameterized library links Not Run
Identify unresolved library links Not Run
Identify configurable subsystem template blocks having the instances in the model for converting to variant subsystem blocks. Not Run
□ Data Transfer Efficiency ○ ○ ○ ○ ○ □ 1
Check Delay, Unit Delay and Zero-Order Hold blocks for rate transition Not Run
□ S-function Checks ○ 0 ○ 0 □ 1
Check S-functions in the model Not Run
□ Simulink Design Verifier Compatibility Check ○ ○ ○ ○ △ ○ □ 1
Check compatibility with Simulink Design Verifier Not Run
☐ Simulink Design Verifier Design Error Checks
Detect Dead Logic Not Run

Detect Out Of Bound Array Access Not Run
Detect Division By Zero Not Run
Detect Integer Overflow Not Run
Detect Non-finite and NaN Floating-point Values Not Run
Detect Subnormal Floating-point Values Not Run
Detect Specified Minimum and Maximum Value Violations Not Run
Detect Data Store Access Violations Not Run
Detect Block Input Range Violations Not Run
□ Simulation Accuracy • 0 • 0 • 0 □ 1
Check for non-continuous signals driving derivative ports Not Run
© Simulation Runtime Accuracy Diagnostics

Runtime diagnostics for S-functions Not Run
Check if Read/Write diagnostics are enabled for Data Store blocks Not Run
Check Data Store Memory blocks for multitasking, strong typing, and shadowing issues Not Run
Check data store block sample times for modeling errors Not Run
Check for potential ordering issues involving data store access Not Run
□ Simulink Model File Integrity ○ ○ ○ ○ ○ □ 2
Check model for foreign characters Not Run
Check Model History properties Not Run
□ Requirements Consistency Checking ②0 ③0 ▲0 □4
Identify requirement links with missing documents Not Run
Identify requirement links that specify invalid locations within documents Not Run

Identify selection-based links having description fields that do not match their requirements document text Not Run Identify requirement links with path type inconsistent with preferences Not Run ☐ Modeling Standards for MAB 2123 0 418 0 □ Naming Conventions
□ 17 ② 0 △ 3 □ 0 **a** General **2 2 2 3 0 4 2 1 1 0** Check file names (19-Oct-2020 20:30:59) Characters allowed for file names Warning The following files have invalid names: D:\Study\Study Material Videos\Courses\Skill lync\ADAS\Project 2 Wrong Way Driver Warning SystemProject 2 Wrong Way Driver Warning System\WWDW-20200725T070158Z-001\WWDW\Wrong_Way_Driver_Warning.slx.autosave **Recommended Action** Consider having only alphanumeric characters and underscores in file name.

Check folder names (19-Oct-2020 20:30:59)

Check the folder name to ensure that the name complies with the recommended guidelines.

Passed

All folders have correct names.

Check length of model file name (19-Oct-2020 20:30:59)

Check length of model file name

Passed

Model name is valid.



4 Check length of folder name at every level of model path (19-Oct-2020 20:30:59)

The model file name is: Wrong_Way_Driver_Warning

Warning Invalid folder names.

Project 2 Wrong Way Driver Warning SystemProject 2 Wrong Way Driver Warning System

Recommended Action

Consider changing the folder name to have minimum of "0" characters and maximum of "63" characters.









Check subsystem names (19-Oct-2020 20:30:59)

Identify subsystem names with incorrect characters.

Passed

All the subsystem names use correct characters.

Check port block names (19-Oct-2020 20:30:59)

Identify Inport or Outport block names with incorrect characters.

Passed

All the Inport or Outport block names use correct characters.

Check character usage in block names (19-Oct-2020 20:30:59) Identify block names with incorrect characters. **Passed** All the block names use correct characters. Check length of subsystem names (19-Oct-2020 20:30:59) Check length of subsystem names **Passed** All subsystem names are valid. **⊘** Check length of block names (19-Oct-2020 20:30:59) Check length of block names **Passed** All block names are valid. Check length of Inport and Outport names (19-Oct-2020 20:30:59) Check length of Inport and Outport names **Passed** All Inport and Outport names are valid. ✓ Check usable characters for signal names and bus names (19-Oct-2020 20:30:59) Identify invalid characters in signal and bus names **Passed** No invalid characters are used in signal and bus names.

⊘ Check usable characters for parameter names (19-Oct-2020 20:30:59)

Identify invalid characters in parameter names

Passed

No invalid characters are used in parameter names.

Check length of signal and bus names (19-Oct-2020 20:30:59) Check length of signal and bus names **Passed** All signal and bus names are valid.

Check length of parameter names (19-Oct-2020 20:30:59)

Check length of parameter names

Passed

All parameter names are valid.

Check usable characters for Stateflow data names (19-Oct-2020 20:30:59)

Identify invalid characters in Stateflow data names.

Passed

No invalid characters are used in Stateflow data names.

Check length of Stateflow data name (19-Oct-2020 20:30:59)

Check if the length of Stateflow data names are within limit.

Passed

All Stateflow data names are valid.

Check duplication of Simulink Data names (19-Oct-2020 20:30:59)

Simulink Data names should be unique across base workspace, model workspace and data dictionary.

Passed

All Simulink Data names are unique.

△ Check unused data in Simulink Model (19-Oct-2020 20:30:59)

Check for unused data in Data Dictionary

Warning

The following data variables in the data dictionary are unused:

Data Objects	Source
F32	WWDW_dd.sldd
F64	WWDW_dd.sldd
FLAG	WWDW_dd.sldd
MODE	WWDW_dd.sldd
S16	WWDW_dd.sldd
S32	WWDW_dd.sldd
S8	WWDW_dd.sldd
SMODE	WWDW_dd.sldd
SignPosLat	WWDW_dd.sldd
Sign_Status	WWDW_dd.sldd
U16	WWDW_dd.sldd
U32	WWDW_dd.sldd
U8	WWDW_dd.sldd
ValidLateralPosition	WWDW_dd.sldd
ValidLongitudionalPosition	WWDW_dd.sldd
VehicleSpeed_kph	WWDW_dd.sldd
VehicleYawRate_Degree	WWDW_dd.sldd

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Recommended Action

Consider removing the unused data variables.

Check for unused data in Stateflow Charts (19-Oct-2020 20:30:59)

Checks if the model parameter 'Unused data, events, messages and functions' is not set to 'none'.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unused data, events, messages and functions (SFUnusedDataAndEventsDiag)	warning	error, warning



Checks whether variable names used in MATLAB Function blocks are reserved for C/C++/MATLAB keywords

Passed

No variable names conflict with reserved keywords

- \bigcirc Configuration Parameters \bigcirc 4 \bigcirc 0 \bigcirc 0
- _____
- Check Implement logic signals as Boolean data (vs. double) (19-Oct-2020 20:30:59) Identify whether Implement logic signals as Boolean data (vs. double) is selected.

Passed

Implement logic signals as Boolean data (vs. double) is selected.

Check Signed Integer Division Rounding mode (19-Oct-2020 20:30:59)

jc_0642: Integer rounding mode setting

Identifies blocks with block parameter 'Integer Rounding Mode' set to 'Simplest' when the configuration parameter 'Signed integer division rounds to' is set to 'Undefined'.

Passed

Configuration parameter 'Signed integer division rounds to' is not set to 'Undefined'.

Check diagnostic settings for incorrect calculation results (19-Oct-2020 20:30:59)

Identify data validity diagnostic settings which detect incorrect calculation results.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Division by singular matrix (CheckMatrixSingularityMsg)	error	error
Pass	Inf or NaN block output (SignalInfNanChecking)	error	error
Pass	Wrap on overflow (IntegerOverflowMsg)	error	error
Pass	Saturate on overflow (IntegerSaturationMsg)	error	error

Check model diagnostic parameters (19-Oct-2020 20:30:59)

Identify diagnostic parameters that are set to none.

Passed

All of the diagnostic parameters are set to error or warning.



△ Check for Simulink diagrams using nonstandard display attributes (19-Oct-2020 20:30:59)

Identify nonstandard display attributes in Simulink diagrams.

Check format settings

Identify incorrect model-level format options.

Warning

The following format display options are incorrect.

Display Attribute	Recommended Value	Actual Value
Debug > Information Overlays > Nonscalar Signals	on	off
Debug > Information Overlays > Port Data Type	off	on
Modeling > Environment > Model Browser	off	on
Debug > Information Overlays > Colors	none	disabled

Recommended Action

Set the format options to the recommended value.

Check block colors

Identify blocks using nonstandard colors.

Passed

All blocks use standard colors.

Check canvas colors

Identify canvases that are not white.

Passed

All diagrams use a white canvas.

Check diagram zoom

Identify diagrams that do not have zoom factor set to 100 %.

Note: Zoom factors can differ for each instance of a model diagram opened in Simulink Editor

Warning

The following diagrams do not have zoom factor set to 100 percent:

- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change"
 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_I SO_Coordinates" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_ISO_Coordinates
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning"
 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning"

Recommended Action

For each listed diagram, select Modeling > Environment > Zoom > Normal View (100%).

Check Model font settings (19-Oct-2020 20:30:59)

Check font size in Simulink block and signal names

Warning

The font size of the following Simulink block or signal names are different from input parameters:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong Way Driver Warning/

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Recommended Action

Consider modifying font size of block and signal names as per input parameters.

Check whether block names appear below blocks (19-Oct-2020 20:30:59)

Identify blocks where the name is not displayed below the block.

Passed

All blocks have names displayed below the block.

Check the display attributes of block names (19-Oct-2020 20:30:59)

Identify whether to display block names.

Check for blocks with hidden names and obvious function

Identify block names that are displayed but can be hidden due to obvious behavior.

Passed

All blocks with obvious behavior have hidden names.

Check for non-descriptive displayed block names

Identify block names that are displayed but should be hidden due to a lack of a descriptive name.

Passed

All displayed names provide descriptive information.

Check for missing block names

Identify block names that are hidden but should be displayed to show a descriptive name.

Passed

All displayed names provide descriptive information.



Check for nondefault block attributes (19-Oct-2020 20:30:59)

Identify blocks that use and fail to display nondefault values.

Passed

Model displays all block parameter values that are not default values.



Check Model Description (19-Oct-2020 20:30:59)

Identify layers in the model having inconsistent description format.

Warning

	Following layers do not have model descriptions:	
•		
•		
•		
•		
	Recommended Action	
	Consider adding model description for all the layers.	
		Identify
	layers in the model having inconsistent description format.	identity
	Warning	
	Callegring layers do not be a consistent as a del description formati	
_	Following layers do not have consistent model description format:	
•	Wrong_Way_Driver_Warning Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner	
•	wrong_way_briver_warning/input_signar_kange_conditioner	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData	
•	5 <u>6</u> 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
•		
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	
•		
	Recommended Action	

Consider having a consistent format for the model description

Example: If description tags are 'Input:, Description:, and Output:' then format should be as following:

Input: add input information here

Description: add model description here

Output: add output information here

Check if blocks are shaded in the model (19-Oct-2020 20:30:59)

Check if blocks are shaded in the model

Passed

Blocks in the model are not shaded.

Check for unconnected ports and signal lines (19-Oct-2020 20:30:59) Identify unconnected block input ports, output ports, and signal lines.

Passed

All lines and ports in the model are connected.

Check signal line connections (19-Oct-2020 20:30:59)

Check signal intersections

Warning

The following signals intersect with other signals in the diagram:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change

- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change

Recommended Action

Reposition the above listed signals to avoid intersections.

• Check signal flow in model (19-Oct-2020 20:30:59)

Identify subsystems which do not have a signal flow from left to right.

Passed

No subsystems found with inappropriate signal flow.

Check usage of tunable parameters in blocks (19-Oct-2020 20:30:59)

Identify tunable parameters used to specify expressions, data type conversions, or indexing operations.

Passed

Tunable parameters are not used in the model.

Check connections between structural subsystems (19-Oct-2020 20:30:59)

Identify connections between structural subsystems.

Passed

All connections to structural subsystems adhere to the guideline.

Check for consistency in model element names (19-Oct-2020 20:30:59)

Check if model elements connected to a signal are following consistent naming.

Passed

Model elements connected to a signal are following consistent names.

Check trigger signal names (19-Oct-2020 20:30:59)

Identify trigger blocks where the origin of the trigger signal and the destination have dissimilar names.

Passed

No violation of the guideline for use of trigger signal names.



△ Check for mixing basic blocks and subsystems (19-Oct-2020 20:30:59)

Identify levels in the model that include basic blocks and subsystems. Each level of a model must be designed with blocks of the same level (for example, only subsystems or only basic blocks).

Warning

The following level(s) in the model include basic blocks and subsystems:

System	Block path
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant2
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant3

Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Sig	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Logical Operator"
nal_Range_Conditioner/Valid_Signal	title="Wrong_Way_Driver_Warning/Input_Signal_Ra nge_Conditioner/Valid_Signal/Logical Operator
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Logical Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logical Operator1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator2
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator3

Recommended Action

If possible, replace blocks at the identified level of the model hierarchy with basic blocks. Move nonvirtual blocks into the identified subsystem.

✓ Check for avoiding algebraic loops between subsystems (19-Oct-2020 20:30:59)

jc 0653: Guidelines for avoiding algebraic loops between subsystems.

Passed

No delay blocks in feedback loops violate the guidelines for avoiding algebraic loops between subsystems.



Check for prohibited sink blocks (19-Oct-2020 20:30:59)

Identify sink blocks that must be removed prior to code generation.

Passed

There are no prohibited blocks in the subsystem.











Check usage of vector and bus signals (19-Oct-2020 20:30:59)

Identify mixed usages of vector and bus signals.

Passed

No mixing of vector and bus signals found in the system.



△ Check signal line labels (19-Oct-2020 20:30:59)

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Check source block labels

Warning

The following signals have no label:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant3/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant4/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant5/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant6/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant/
- Wrong Way Driver Warning/Input_Signal Range Conditioner/SuppressedOutput/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant1/

•	Wrong Way	Driver W	arning/Input	Signal Range	_Conditioner/Valid	Signal/Constant2/

•	Wrong Way	Driver	Warning/Inpu	t Signal	Range	Conditioner/Vali	d_Signal/Constant3/

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Reco	mmen	ded	Action
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Add a new or propagated label to the signal line.	
	Identify
blocks that require labeled signals. A subset of source and destination blocks require labeled	signals.

Check destination block labels

Warning

The following signals have no label:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/

Recommended Action

Add a new or propagated label to the signal line.

Check for propagated signal labels (19-Oct-2020 20:30:59)

Identify propagated labels on signal lines.

Passed

All inputs and outputs to the subsystems and blocks have labels and display propagated signals.

Check overlap of signal labels

Warning

The following signals have labels which overlap other objects:

- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
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- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning
- Wrong_Way_Driver_Warning
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Recommended Action

location of signal labels

Consider placing the signal label so that it is readable.	
	Check

Warning

The following signals do not have labels located at the origin of the signal line:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
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- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput

399

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value _in_ISO_Coordinates

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value __in_ISO_Coordinates
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion
- Wrong Way Driver Warning/Input Signal Range Conditioner/Yaw Rate Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
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Recommended Action

Check signal line labels (19-Oct-2020 20:30:59)

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Check source block labels

Warning

The following signals have no label:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Constant/
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Constant2/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Co nstant2/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant3/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant4/

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant5/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant6/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant3/

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Recommended Action

Add a new or propagated label to the signal line.	
	Identify
blocks that require labeled signals. A subset of source and destination b	locks require labeled signals.

Warning

The following signals have no label:

Check destination block labels

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/

• Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/

Add a new or propagated label to the signal line.

Check for propagated signal labels (19-Oct-2020 20:30:59)

Identify propagated labels on signal lines.

Recommended Action

Passed

All inputs and outputs to the subsystems and blocks have labels and display propagated signals.

- _____
- Check Indexing Mode (19-Oct-2020 20:30:59)

 Identify blocks and charts with inconsistent Indexing mode.

Passed

No inconsistent Indexing mode used in the model.

Check block orientation (19-Oct-2020 20:30:59)
Identify blocks which are rotated or reversed

Passed

No blocks found with rotated or reversed orientation

△ Check if tunable block parameters are defined as named constants (19-Oct-2020 20:30:59)

Check if tunable block parameters are defined as named constants

Warning

The following tunable block parameters are not defined as named constants.

Block	Violations	
	Value : -60	
	Value : 60	
	Value : 255	

Recommended Action

Consider changing tunable block parameter literal values to named constants.



Check for sample time setting (19-Oct-2020 20:30:59)

Check if sample time property of a block is set to -1 (inherited).

Passed

All permitted blocks have sample time set to -1 (inherited).



Check usage of fixed-point data type with non-zero bias (19-Oct-2020 20:30:59)

jc_0643: Fixed-point setting

Identify blocks with a fixed-point data type whose bias is not zero.

Passed

No blocks found with the Data Type Assistant mode set to "Fixed point" and a bias value other than zero



△ Check type setting by data objects (19-Oct-2020 20:30:59)

jc_0644: Identify blocks that violate signal data type setting if signal objects are used.

Warning

The following blocks violate signal data type setting if signal objects are used.

Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Switch

Recommended Action

Set the output data type of the blocks either to "auto" or "Inherit via back propagation". This check excludes Data Type Conversion block, type setting by fixdt, double and boolean data types, and reusable internal part of function (treat as atomic unit).





Check position of conditional blocks and iterator blocks (19-Oct-2020 20:30:59)

Identify conditional and iterative blocks that are positioned inconsistently in the model.

Passed

The conditional and iterative blocks are correctly placed in the model.

Check undefined initial output for conditional subsystems (19-Oct-2020 20:30:59)

Check undefined initial output for Outports/Merge blocks in conditional subsystems

Passed

The initial output setting for all Conditional Subsystems are valid.

Check usage of Merge block (19-Oct-2020 20:30:59)

jc 0659: Usage restrictions of signal lines inputted to Merge block There must not be any block between a Conditional Subsystem block and a Merge block.

Passed

No Merge block found.

Check logical expressions in If blocks (19-Oct-2020 20:30:59)

Checks If blocks for complex usage of primary expressions within a logical expression

Passed

Logical expressions inside If blocks are simple

Check default/else case in Switch Case blocks and If blocks (19-Oct-2020 20:30:59) Check if default/else case in Switch Case blocks and If blocks are set to 'on'	
Passed Conditional Control blocks are valid.	
© Operation Blocks 211 0 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 1	
⚠ Check fundamental logical and numerical operations (19-Oct-2020 20:30:59) Check input data types of blocks meant for numerical operations	
Warning	
The following numerical operation blocks have boolean data type as input:	
Recommended Action	
Consider having non-boolean inputs for the numerical operation blocks.	

⊘ Check usage of Sum blocks (19-Oct-2020 20:30:59)

Identify inappropriate usages of Sum block.

Passed

No violations of the guideline found with the usage of the Sum block.

Check operator order of Product blocks (19-Oct-2020 20:30:59)

Operator order for Product blocks.

Passed

All Product blocks have valid operator order.

Check signs of input signals in product blocks (19-Oct-2020 20:30:59)

jc_0611: Input signal sign during product block division Identify blocks that perform division whose inputs have different sign bit.

Passed

No product block with division of different sign bits found.

Check for parentheses in Fcn block expressions (19-Oct-2020 20:30:59)

jc_0622: Guideline for using the Fcn block

Passed

All Fcn blocks use parentheses to mark operator precedence.

Check icon shape of Logical Operator blocks (19-Oct-2020 20:30:59)

Icon shape of Logical Operator blocks

Passed

All Logical Operator blocks have consistent icon shape.

Check usage of Relational Operator blocks (19-Oct-2020 20:30:59).

Identify Relational Operator blocks that connect to constants with the first (upper) input value.

Warning

The following Relational Operator blocks connect to a constant value using the first (upper) input value:

Recommended Action

Make the constant value the second (lower) input to the Relation Operator block.



Comparing floating point types in Simulink (19-Oct-2020 20:30:59)

jc_0800: Comparing floating point types in Simulink Equivalence comparison should not be used for floating point numbers.

Passed

No Equivalence comparison done on floating point numbers.



Check usage of Lookup Tables (19-Oct-2020 20:30:59)

jc 0626: Guideline for using the Lookup Table system block Checks for the recommended parameter settings in Lookup Tables to prevent unexpected results.

Passed

All the Lookup Tables pass the check.



Check usage of Memory and Unit Delay blocks (19-Oct-2020 20:30:59)

Identify Memory blocks not using a continuous sample time

Passed

No Memory blocks found with inappropriate sample time

Identify Unit Delay blocks with non-discrete sample time

Passed

No Unit Delay blocks found with non-discrete sample time

Check for cascaded Unit Delay blocks (19-Oct-2020 20:30:59)

Identify cascaded and tapped pattern of Unit Delay blocks.

Passed

No cascaded Unit Delay blocks found that can be changed to Tapped Delay/Delay block.

Check usage of Discrete-Time Integrator block (19-Oct-2020 20:30:59)

jc 0627: Identify Discrete-Time Integrator blocks that violate saturation limit settings

Passed

No Discrete-Time Integrator blocks found that violate JMAAB guideline jc 0627

Check usage of the Saturation blocks (19-Oct-2020 20:30:59)

jc 0628: Identify the Saturation and Saturation Dynamic blocks that perform type casting.

Passed

No Saturation and/or Saturation Dynamic blocks perform type casting



△ Check output data type of operation blocks (19-Oct-2020 20:30:59)

jc 0651: Guideline for implementing a type conversion.

Warning

Following operation blocks explicitly specify output data type:

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Recommended Action

Instead of explicitly specifying output data type on operation blocks, use 'Data Type Conversion' block when changing the data type of the block output signal.





△ Check position of Inport and Outport blocks (19-Oct-2020 20:30:59)

Check positions of Inport blocks

Warning

The following Inport blocks are not placed to left side of the diagram:

Recommended Action

Move the Inport blocks identified to the left of all other blocks in the diagram.

It is acceptable to move the Inport block to the right only to prevent signal crossings.

Check

positions of Outport blocks

Warning

The following Outport blocks are not placed to right side of the diagram:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/WarningDisplayHMI
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignID
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignRelevance
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignAboveRoad

Recommended Action

Move the Outport blocks identified to the right of all other blocks in the diagram.

It is acceptable to move the Outport block to the left only to prevent signal crossings.

Check display for port blocks (19-Oct-2020 20:30:59)

Identify Inport and Outport blocks that do not specify Port number for the Icon display block parameter.

Passed

All port blocks display the port number.



Check scope of From and Goto blocks (19-Oct-2020 20:30:59)

Identify incorrect scoping of From and Goto blocks. For signal flows, From and Goto blocks must use local scope. Control flow can use global scope.

Passed

All From and Goto blocks are used correctly.



Check for usage of Data Store Memory blocks (19-Oct-2020 20:30:59)

Identify the usage of Data Store Memory blocks.

Passed

Usage of Data Store Memory blocks is correct.



Check usage of Switch blocks (19-Oct-2020 20:30:59)

Identify Switch blocks that do not use Boolean inputs for the switch condition (input 2), and do not use $u2 \sim 0$ for the **Criteria for passing first input** block parameter.

Check Switch block parameters

Identify Switch blocks with the parameter Criteria for passing first input not set to $u2 \sim 0$.

Warning

The block parameter **Criteria for passing first input** is not set to u2 ~= 0 for the following blocks:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Switch
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Switch" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/S witch

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Switch1
 "
 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Switch1
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Switch2
 "
 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Switch2
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Switch"
 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Switch"

Recommended Action

Set the block parameter **Criteria for passing first input** to $u2 \sim 0$. This might require reworking the logic associated with the Switch block.

Check for Boolean switch condition

Identify blocks that do not use Boolean signal switch conditions (input 2).

Passed

The switch condition is a Boolean signal.

Check input and output datatype for Switch blocks (19-Oct-2020 20:30:59)

jc 0650: Identify Switch blocks with mismatched input and output data types

Passed

No Switch blocks found with mismatched input and output data types

Check settings for data ports in Multiport Switch blocks (19-Oct-2020 20:30:59) Identify Multiport Switch blocks that violate data port settings.

Passed

No Multiport Switch blocks found with inappropriate data port settings.

⊘ Check for missing ports in Variant Subsystems (19-Oct-2020 20:30:59)

Check for number of inputs/outputs to a Variant Subsystem.

Passed

No Variant Subsystems found having different number of inputs/outputs in the Variant Subsystem choices.

Check use of default variants (19-Oct-2020 20:30:59)

na_0036: Default variant

Identify variant subsystems that do not use default variants.

Passed

All variant subsystems in the model use default variants

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Check use of single variable variant conditionals (19-Oct-2020 20:30:59)

Identify variant subsystems which use multi-variable compound conditions

Passed

No variant subsystems with multiple variable compound conditions found

- **□** Stateflow **②**51 **②**0 **△**0 **□**0
- © Block/Data/Events

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- Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59)

Check whether labeled input and output signals are strongly typed.

Passed

No Stateflow charts have **Use Strong Data Typing with Simulink I/O** cleared.

Check for names of Stateflow ports and associated signals (19-Oct-2020 20:30:59)

 $Identify\ mismatches\ between\ names\ of\ State flow\ ports\ and\ the\ associated\ signals.$

Passed

No Stateflow charts were found.



'Execute (enter) Chart At Initialization' should be set to OFF.

Passed

All Stateflow Charts pass the check.

Check definition of Stateflow data (19-Oct-2020 20:30:59)

Identify the Scope value set on Stateflow data defined at machine level.

Passed

All Stateflow data at machine level has been defined as per guideline.

Check usable number for first index (19-Oct-2020 20:30:59)

Identify usage of first index of Stateflow data.

Passed

All Stateflow data first index values are uniform.

Check scope of data in parallel states (19-Oct-2020 20:30:59)

jc 0722: Guidelines for setting local variables in parallel states

The scope of local variables should be restricted to one parallel state unless it is being used by other parallel states.

Passed

No Stateflow States were found.

Check definition of Stateflow events (19-Oct-2020 20:30:59)

Stateflow events should be defined at the smallest possible scope of usage.

Passed

All Stateflow events are defined at their smallest scope.

Diagram ✓14 🛂 0 🗘 0 🗓 0

Check for unconnected objects in Stateflow Charts (19-Oct-2020 20:30:59)

Identify dangling transitions and unconnected Stateflow States and Junctions in Stateflow Charts.

Passed

No unconnected transitions, states or junctions found in Stateflow Charts.

Check usage of exclusive and default states in state machines (19-Oct-2020 20:30:59)

Identify Stateflow charts and substates that incorrectly use or define exclusive and default states.

Check Stateflow charts for exclusive states

Identify Stateflow charts that have singular exclusive (OR) states.

Passed

The Stateflow charts do not have singular exclusive (OR) states.

Check Stateflow charts for undefined default states

Identify Stateflow charts that do not define default states.

Passed

Each Stateflow chart defines a default state.

Check for multiple states assigned as the default state

At the root level in the Stateflow hierarchy only one state should be assigned as the default.

Passed

The root level of the chart has only one default state assigned.

Check for substates with singular OR states

States configured as OR should always be part of a group of states.

Passed

No singular OR states were detected.

Check for substates without default states defined

At every level in the Stateflow hierarchy a default state should be assigned.

Passed

All substates have default states assigned.

Check for substates with multiple default states defined

At every level in the Stateflow hierarchy only one state should be assigned as the default.

Passed

All levels of the chart have only one default state assigned.

Check for parallel Stateflow state used for grouping (19-Oct-2020 20:30:59)

jc_0721: Guidelines for using parallel states Identify parallel Stateflow States used for grouping.

Passed

No Stateflow charts were found.

Check Stateflow transition appearance (19-Oct-2020 20:30:59)

Identify Stateflow transitions visually overlapping other Stateflow objects.

Passed

No transition violates the guidelines for Stateflow transition appearance.

Check default transition placement in Stateflow charts (19-Oct-2020 20:30:59)

jc_0531: Placement of default transition.

Passed

No Stateflow transitions and states found that violate the guidelines for default transition placement in Stateflow charts.

Check usage of transitions to external states (19-Oct-2020 20:30:59)

Identify transitions ending on external child states.

Passed

No direct transitions found from external state to child state.

Check for unexpected backtracking in state transitions (19-Oct-2020 20:30:59)

Identify configuration parameter settings which identify unexpected backtracking in state transitions.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unexpected backtracking (SFUnexpectedBacktrackingDiag)	error	error



jc_0760: In all state charts and flow charts, internal transitions from state boundaries must start from the left edge of the state.

Passed

No Stateflow transitions found that violate the guidelines for starting point of internal transition in Stateflow.

Check usage of internal transitions in Stateflow states (19-Oct-2020 20:30:59) Identify Stateflow states using multiple internal transitions.

Passed

No Stateflow states found with multiple internal transitions

Check prohibited combination of state action and flow chart (19-Oct-2020 20:30:59)

jc_0762: State actions within states and flow chart statements should not be used in combination.

Passed

No Stateflow states found that combine state action and flow chart.

Check transition orientations in flow charts (19-Oct-2020 20:30:59)

Identify transitions in Stateflow flow charts that are drawn incorrectly.

Check for conditions drawn horizontally

Condition expressions should be drawn on the horizontal segments of flow charts.

Passed

All condition expressions were drawn horizontally.

Check for action transitions drawn vertically

Transitions with condition actions should be drawn on the vertical segments of flow charts.

Passed

All transitions with condition actions were drawn vertically.

Check for transition actions in flow chart

Transition actions should not be used in flow charts.

Passed

No transition actions are used in flow charts.

Check for junctions for default transitions

All Junctions in a flow chart should have a default exit transition.

Passed

All Junctions have a default exit transition.

Check for transitions that combine condition and action

Flow charts should not combine condition evaluations and action expressions in a single transition.

Passed

No combined expressions were found in the chart.

Check usage of unconditional transitions in flow charts (19-Oct-2020 20:30:59)

Identify unconditional transitions in flow charts.

Passed

All unconditional transitions adhere to the guideline.



Check terminal junctions in Stateflow (19-Oct-2020 20:30:59)

Identify usage of terminal junctions in flow charts.

Passed

Multiple terminal junctions were not found.

Check usage of Stateflow comments (19-Oct-2020 20:30:59)

Identify comments that are nested or contain newline(s) in the middle in Stateflow for action language 'C'.

Passed

No comments found that are either nested or contain newline(s) in the middle.





Check Stateflow chart action language (19-Oct-2020 20:30:59)

Check if the action language of Stateflow charts is set to 'C'.

Passed

All Stateflow Charts have action language set to 'C'.

Check usage of numeric literals in Stateflow (19-Oct-2020 20:30:59)

Identify use of numeric literals in Stateflow states and transitions.

Passed

No numeric literals found in Stateflow charts.

Check for pointers in Stateflow charts (19-Oct-2020 20:30:59)

Identify pointer operations on custom code variables.

Note: This check applies only to Stateflow charts that use C as the action language.

Passed

No pointer operations were found.

Check for usage of events and broadcasting events in Stateflow charts (19-Oct-2020 20:30:59) Identify undirected event broadcasts in Stateflow

Passed

No instances of undirected event broadcast were found.

Check order of state action types (19-Oct-2020 20:30:59)

Identify out of order state action types in Stateflow states.

Passed

No Stateflow states found with out of order state action types

Check repetition of Action types (19-Oct-2020 20:30:59)

jc_0734: Number of state action types Identifies repeated action types in a Stateflow State.

Passed

No Stateflow States were found.

Check if state action type 'exit' is used in the model (19-Oct-2020 20:30:59)

Check if state action type 'exit' is used in the model.

Passed

State action type 'exit' is not used in the model.

Check updates to variables used in state transition conditions (19-Oct-2020 20:30:59)

jc_0741: Variables used in state transition conditions must not perform an update by "during" state action type.

Passed

No Stateflow states found that violate the guidelines for updating the variables used in state transition conditions.

Check usage of transition conditions in Stateflow transitions (19-Oct-2020 20:30:59)

jc_0772: Identify unconditional Stateflow transitions with higher priority than conditional transitions

Passed

No unconditional Stateflow transitions found with higher priority than conditional transitions

Check condition actions and transition actions in Stateflow (19-Oct-2020 20:30:59) Identify usage of transition actions in Stateflow.

Passed

No Stateflow charts have transition actions.

Check for MATLAB expressions in Stateflow blocks (19-Oct-2020 20:30:59)

Identify MATLAB expressions that are not suitable for code generation in Stateflow blocks.

Passed

No Stateflow objects found using MATLAB expressions unsuitable for code generation.

Check usage of floating-point expressions in Stateflow charts (19-Oct-2020 20:30:59)

Identify equal to operations (==) in expressions where at least one side of the expression is a floating-point variable or constant.

Passed

No equal to operations in expressions where at least one side of the expression is a floating-point variable or constant were found.

Check Stateflow operators (19-Oct-2020 20:30:59)

Identify the usage of operators in Stateflow.

Passed

No Stateflow blocks found with incorrect operator usage.

Check prohibited comparison operation of logical type signals (19-Oct-2020 20:30:59) Identify boolean variables in Stateflow charts using comparison operations.

Passed

No boolean variables use comparison operations of logical type in the model.

Check usage of unary minus operations in Stateflow charts (19-Oct-2020 20:30:59) Identify unary minus operations applied to unsigned integers in Stateflow objects.

Passed

No unary minus operations applied to unsigned integers in Stateflow objects were found.

Check for implicit type casting in Stateflow (19-Oct-2020 20:30:59)

Identify implicit type casting in Stateflow.

Passed

No instances of implicit type casting found.

Check uniqueness of Stateflow State and Data names (19-Oct-2020 20:30:59)

jc_0732: Distinction between state name and data item name Identify Stateflow State and Stateflow Data that have identical names in a given chart.

Passed

No Stateflow charts were found.

Check uniqueness of State names (19-Oct-2020 20:30:59)

jc 0730: Independence of state name in charts Identifies identical State names within a Stateflow Chart.

Passed

No Stateflow charts were found.

⊘ Check usage of State names (19-Oct-2020 20:30:59)

jc 0731: Slash (/) in the state name Identify state names with '/' at its end.

Passed

No Stateflow states were found.

Check entry formatting in State blocks in Stateflow charts (19-Oct-2020 20:30:59)

Identify missing line breaks between entry action (en), during action (du), and exit action (ex) entries in states. Identify missing line breaks after semicolons (;) in statements.

Passed

No Stateflow charts were found.

Check indentation of code in Stateflow states (19-Oct-2020 20:30:59)

Identify non-uniform indentation in Stateflow blocks.

Passed

All Stateflow blocks have uniform indentation.

Check for usage of text inside states (19-Oct-2020 20:30:59)

Identify Stateflow states with text exceeding the boundary of the state

Passed

No Stateflow states found with text exceeding the boundary of the state.

Check position of label string in Stateflow transition (19-Oct-2020 20:30:59)

Identify placement of label string in Stateflow transition.

Passed

All Stateflow transitions are placed uniformly.

Check position of comments in transition labels (19-Oct-2020 20:30:59)

Identify comments in transition labels that are not positioned uniformly.

Passed

Comments in transition labels are positioned uniformly.

Check usage of parentheses in Stateflow transitions (19-Oct-2020 20:30:59)

jc_0752: Start new line before and after parentheses for condition actions in Stateflow transitions.

Passed

No Stateflow Transitions found that violate the requirement for new line for condition actions.

Check for comments in unconditional transitions (19-Oct-2020 20:30:59)

Identify comments in unconditional transitions without action statements.

Passed

All unconditional transitions without action statements have comments.

Check return value assignments in Stateflow graphical functions (19-Oct-2020 20:30:59)

Identify graphical functions with multiple assignments of return values in Stateflow charts.

Passed

No Stateflow charts were found.

Check uniqueness of Stateflow State and Data names (19-Oct-2020 20:30:59) jc 0732: Distinction between state name and data item name Identify Stateflow State and Stateflow Data that have identical names in a given chart. **Passed** No Stateflow charts were found. Check usage of Simulink functions in Stateflow (19-Oct-2020 20:30:59) Usage of Simulink Functions in Stateflow. **Passed** All Simulink Functions in Stateflow are defined according to the guideline. Check use of Simulink in Stateflow charts (19-Oct-2020 20:30:59) na_0039: Limitation on Simulink functions in Chart blocks Check use of Stateflow charts nested inside Simulink functions used in Stateflow. No Stateflow charts found nested inside Simulink functions used in Stateflow. Check MATLAB code for global variables (19-Oct-2020 20:30:59) Check for global variables in MATLAB code Check for global variables in MATLAB code used in MATLAB Function blocks **Passed** No MATLAB Function blocks found

Check for global variables in MATLAB functions defined in Stateflow charts

Passed

No MATLAB functions defined in Stateflow charts found

Check for global variables in called MATLAB functions

Passed

No external MATLAB functions found

Check usage of enumerated values (19-Oct-2020 20:30:59)

Identify enumeration classes used in the model with no default value specification.

Passed

No enumeration classes found without default value specifications.

Check input and output settings of MATLAB Functions (19-Oct-2020 20:30:59)

Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity, data type, or size properties.

Passed

No MATLAB Functions found in the model or subsystem.



Check MATLAB Function metrics (19-Oct-2020 20:30:59)

Identify MATLAB Functions that violate complexity limits.

Passed

No MATLAB Functions were found.

Input Parameters Selection

Name	Value
Maximum effective lines of code per function	60
Minimum density of comments	0.2
Maximum cyclomatic complexity per function	15

Check the number of function calls in MATLAB Function blocks (19-Oct-2020 20:30:59)
Checks whether number of function calls in MATLAB Function blocks is less than 3.

Passed

Number of function calls in MATLAB Function blocks is less than 3.

Check usage of character vector inside MATLAB Function block (19-Oct-2020 20:30:59)
Checks whether character vectors are being used inside MATLAB Function blocks

Passed

No character vectors found in MATLAB Function block

Check usage of recommended patterns for Switch/Case statements (19-Oct-2020 20:30:59)
Checks whether non-constant variables are used in Switch/Case arguments.

Passed

Non-constant variables are not used as Switch/Case arguments

Check for use of C-style comment symbols (19-Oct-2020 20:30:59) Identify usage of C-style comments in CGT Files and MPT Objects.

Passed

C-style comments are not used in CGT Files and MPT Objects.

- Modeling Standards for JMAAB

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- Naming Conventions

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Characters allowed for file names

Warning

The following files have invalid names:

D:\Study\Study Material Videos\Courses\Skill lync\ADAS\Project 2 Wrong Way Driver Warning SystemProject 2 Wrong Way Driver Warning System\WWDW-20200725T070158Z-001\WWDW\Wrong_Way_Driver_Warning.slx.autosave

Recommended Action

Consider having only alphanumeric characters and underscores in file name.



⊘ Check folder names (19-Oct-2020 20:30:59)

Check the folder name to ensure that the name complies with the recommended guidelines.

Passed

All folders have correct names.



⊘ Check subsystem names (19-Oct-2020 20:30:59)

Identify subsystem names with incorrect characters.

Passed

All the subsystem names use correct characters.



⊘ Check port block names (19-Oct-2020 20:30:59)

Identify Inport or Outport block names with incorrect characters.

Passed

All the Inport or Outport block names use correct characters.

Check character usage in block names (19-Oct-2020 20:30:59) Identify block names with incorrect characters.

Passed

All the block names use correct characters.

Check usable characters for signal names and bus names (19-Oct-2020 20:30:59)

Identify invalid characters in signal and bus names

Passed

No invalid characters are used in signal and bus names.

Check usable characters for parameter names (19-Oct-2020 20:30:59)

Identify invalid characters in parameter names

Passed

No invalid characters are used in parameter names.

Check length of model file name (19-Oct-2020 20:30:59)

Check length of model file name

Passed

Model name is valid.

△ Check length of folder name at every level of model path (19-Oct-2020 20:30:59)

The model file name is: Wrong_Way_Driver_Warning

Warning Invalid folder names.

Project 2 Wrong Way Driver Warning SystemProject 2 Wrong Way Driver Warning System

Recommended Action

Consider changing the folder name to have minimum of "0" characters and maximum of "63" characters.

☑ Check length of subsystem names (19-Oct-2020 20:30:59)

Check length of subsystem names

Passed

All subsystem names are valid.

Check length of Inport and Outport names (19-Oct-2020 20:30:59)

Check length of Inport and Outport names

Passed

All Inport and Outport names are valid.

✓ Check length of signal and bus names (19-Oct-2020 20:30:59)

Check length of signal and bus names

Passed

All signal and bus names are valid.

Check length of parameter names (19-Oct-2020 20:30:59)

Check length of parameter names

Passed

All parameter names are valid.

⊘ Check length of block names (19-Oct-2020 20:30:59)

Check length of block names

Passed

All block names are valid.



△ Check for mixing basic blocks and subsystems (19-Oct-2020 20:30:59)

Identify levels in the model that include basic blocks and subsystems. Each level of a model must be designed with blocks of the same level (for example, only subsystems or only basic blocks).

Warning

The following level(s) in the model include basic blocks and subsystems:

System	Block path
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant2
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Constant3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant3
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Logical Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Logical Operator
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal"	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Logical Operator1"

title="Wrong_Way_Driver_Warning/Input_Sig nal_Range_Conditioner/Valid_Signal	title="Wrong_Way_Driver_Warning/Input_Signal_Ra nge_Conditioner/Valid_Signal/Logical Operator1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator1" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator1
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator2" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator2
Wrong_Way_Driver_Warning/Input_Signal_R ange_Conditioner/Valid_Signal" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	Wrong_Way_Driver_Warning/Input_Signal_Range_C onditioner/Valid_Signal/Relational Operator3" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Relational Operator3

Recommended Action

If possible, replace blocks at the identified level of the model hierarchy with basic blocks. Move nonvirtual blocks into the identified subsystem.





Check Implement logic signals as Boolean data (vs. double) (19-Oct-2020 20:30:59) Identify whether Implement logic signals as Boolean data (vs. double) is selected.

Passed

Implement logic signals as Boolean data (vs. double) is selected.

✓ Check diagnostic settings for incorrect calculation results (19-Oct-2020 20:30:59)

Identify data validity diagnostic settings which detect incorrect calculation results.

Passed

All constraints on model configuration parameters have been met.

	Parameter	Current	Recommended
Status		Value	Values
Pass	Division by singular matrix	error	error
	(CheckMatrixSingularityMsg)		
Pass	Inf or NaN block output (SignalInfNanChecking)	error	error
Pass	Wrap on overflow (IntegerOverflowMsg)	error	error
Pass	Saturate on overflow (IntegerSaturationMsg)	error	error



<u>A</u> Check for Simulink diagrams using nonstandard display attributes (19-Oct-2020 20:30:59) Identify nonstandard display attributes in Simulink diagrams.

Check format settings

Warning

The following format display options are incorrect.

Display Attribute	Recommended Value	Actual Value
Debug > Information Overlays > Nonscalar Signals	on	off
Debug > Information Overlays > Port Data Type	off	on
Modeling > Environment > Model Browser	off	on
Debug > Information Overlays > Colors	none	disabled

Recommended Action

Set the format options to the recommended value.

Check block colors

Identify blocks using nonstandard colors.

Passed

All blocks use standard colors.

Check canvas colors

Identify canvases that are not white.

Passed

Check diagram zoom

Identify diagrams that do not have zoom factor set to 100 %.

Note: Zoom factors can differ for each instance of a model diagram opened in Simulink Editor

Warning

The following diagrams do not have zoom factor set to 100 percent:

- Wrong_Way_Driver_Warning
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value_in_I SO Coordinates" title="Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal/Lateral Sign Valu e_in_ISO_Coordinates
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning

Recommended Action

For each listed diagram, select Modeling > Environment > Zoom > Normal View (100%).

Check Model font settings (19-Oct-2020 20:30:59)

Check font size in Simulink block and signal names

Warning

The font size of the following Simulink block or signal names are different from input parameters:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/

- Wrong Way Driver Warning/Input Signal Range Conditioner/SuppressedOutput/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/
- Wrong_Way_Driver_Warning/

Λ Less

Recommended Action

Consider modifying font size of block and signal names as per input parameters.

(19-Oct-2020 20:30:59) <u>A</u> Check position of Inport and Outport blocks

Check positions of Inport blocks

Warning

•	The following Inport blocks are not placed to left side of the diagram:	
•	Recommended Action	
	Move the Inport blocks identified to the left of all other blocks in the diagram.	
	It is acceptable to move the Inport block to the right only to prevent signal crossings.	
	positions of Outport blocks	Check
	Warning	
•	The following Outport blocks are not placed to right side of the diagram:	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/WarningDisplayHMI	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignID	

Recommended Action

Move the Outport blocks identified to the right of all other blocks in the diagram.

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignRelevance

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SignAboveRoad

It is acceptable to move the Outport block to the left only to prevent signal crossings.

Check whether block names appear below blocks (19-Oct-2020 20:30:59) Identify blocks where the name is not displayed below the block.

Passed

All blocks have names displayed below the block.

Check the display attributes of block names (19-Oct-2020 20:30:59)

Identify whether to display block names.

Check for blocks with hidden names and obvious function

Identify block names that are displayed but can be hidden due to obvious behavior.

Passed

All blocks with obvious behavior have hidden names.

Check for non-descriptive displayed block names

Identify block names that are displayed but should be hidden due to a lack of a descriptive name.

Passed

All displayed names provide descriptive information.

Check for missing block names

Identify block names that are hidden but should be displayed to show a descriptive name.

Passed

All displayed names provide descriptive information.



Check for nondefault block attributes (19-Oct-2020 20:30:59)

Identify blocks that use and fail to display nondefault values.

Passed

Model displays all block parameter values that are not default values.



Check trigger signal names (19-Oct-2020 20:30:59)

Identify trigger blocks where the origin of the trigger signal and the destination have dissimilar names.

Passed

No violation of the guideline for use of trigger signal names.



Check for unconnected ports and signal lines (19-Oct-2020 20:30:59)

Identify unconnected block input ports, output ports, and signal lines.

Passed

All lines and ports in the model are connected.

Check usage of Switch blocks (19-Oct-2020 20:30:59)

Identify Switch blocks that do not use Boolean inputs for the switch condition (input 2), and do not use $u2 \sim 0$ for the **Criteria for passing first input** block parameter.

Check Switch block parameters

Identify Switch blocks with the parameter Criteria for passing first input not set to $u2 \sim 0$.

Warning

The block parameter **Criteria for passing first input** is not set to $u2 \sim 0$ for the following blocks:

- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Switch
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Switch" title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/S witch
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Switch1 title="Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/S witch1
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Switch2 title="Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/S witch2
- Wrong Way Driver Warning/Input Signal Range Conditioner/SuppressedOutput/Switch"

Recommended Action

Set the block parameter Criteria for passing first input to u2 ~= 0. This might require reworking the logic associated with the Switch block.

Check for Boolean switch condition

Identify blocks that do not use Boolean signal switch conditions (input 2).

Passed

The switch condition is a Boolean signal.



△ Check usage of Relational Operator blocks (19-Oct-2020 20:30:59)

Identify Relational Operator blocks that connect to constants with the first (upper) input value.

Warning

The following Relational Operator blocks connect to a constant value using the first (upper) input value:

Recommended Action

Make the constant value the second (lower) input to the Relation Operator block.



Identify blocks and charts with inconsistent Indexing mode.

Passed

No inconsistent Indexing mode used in the model.

Check usage of tunable parameters in blocks (19-Oct-2020 20:30:59)

Identify tunable parameters used to specify expressions, data type conversions, or indexing operations.

Passed

Tunable parameters are not used in the model.

Check signal line labels (19-Oct-2020 20:30:59)

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Check source block labels

Warning

The following signals have no label:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Constant/
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Constant2/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Co nstant1/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/Co nstant2/

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant3/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant4/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant5/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/Constant6/
- Wrong Way Driver Warning/Input Signal Range Conditioner/SuppressedOutput/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant1/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput/Constant2/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Constant1/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal/Constant2/
- Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal/Constant3/

Λ Less

Recommended Action

Add a new or propagated label to the signal line.	
	Identify
blocks that require labeled signals. A subset of source and destination b	olocks require labeled signals.

Check destination block labels

Warning

The following signals have no label:

- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change/
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change/

Recommended Action

Add a new or propagated label to the signal line.

Check for propagated signal labels (19-Oct-2020 20:30:59) Identify propagated labels on signal lines.

Passed

All inputs and outputs to the subsystems and blocks have labels and display propagated signals.

Check usage of Discrete-Time Integrator block (19-Oct-2020 20:30:59)

jc 0627: Identify Discrete-Time Integrator blocks that violate saturation limit settings

Passed

No Discrete-Time Integrator blocks found that violate JMAAB guideline jc 0627

Check settings for data ports in Multiport Switch blocks (19-Oct-2020 20:30:59) Identify Multiport Switch blocks that violate data port settings.

Passed

No Multiport Switch blocks found with inappropriate data port settings.

Check usage of fixed-point data type with non-zero bias (19-Oct-2020 20:30:59)

ic 0643: Fixed-point setting

Identify blocks with a fixed-point data type whose bias is not zero.

Passed

No blocks found with the Data Type Assistant mode set to "Fixed point" and a bias value other than zero

Check input and output datatype for Switch blocks (19-Oct-2020 20:30:59)

jc 0650: Identify Switch blocks with mismatched input and output data types

Passed

No Switch blocks found with mismatched input and output data types

Check signs of input signals in product blocks (19-Oct-2020 20:30:59)

jc 0611: Input signal sign during product block division Identify blocks that perform division whose inputs have different sign bit.

Passed

No product block with division of different sign bits found.

Check Signed Integer Division Rounding mode (19-Oct-2020 20:30:59)

jc 0642: Integer rounding mode setting Identifies blocks with block parameter 'Integer Rounding Mode' set to 'Simplest' when the configuration parameter 'Signed integer division rounds to' is set to 'Undefined'.

Passed

Configuration parameter 'Signed integer division rounds to' is not set to 'Undefined'.

Check type setting by data objects (19-Oct-2020 20:30:59)

jc 0644: Identify blocks that violate signal data type setting if signal objects are used.

Warning

The following blocks violate signal data type setting if signal objects are used.

Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData/Switch

Recommended Action

Set the output data type of the blocks either to "auto" or "Inherit via back propagation". This check excludes Data Type Conversion block, type setting by fixdt, double and boolean data types, and reusable internal part of function (treat as atomic unit).

Check usage of the Saturation blocks (19-Oct-2020 20:30:59)

jc 0628: Identify the Saturation and Saturation Dynamic blocks that perform type casting.

Passed

No Saturation and/or Saturation Dynamic blocks perform type casting

⊘ Check usage of Merge block (19-Oct-2020 20:30:59)

jc 0659: Usage restrictions of signal lines inputted to Merge block There must not be any block between a Conditional Subsystem block and a Merge block.

Passed

No Merge block found.

Check usage of Memory and Unit Delay blocks (19-Oct-2020 20:30:59)

Identify Memory blocks not using a continuous sample time

Passed

No Memory blocks found with inappropriate sample time

Identify Unit Delay blocks with non-discrete sample time

Passed

No Unit Delay blocks found with non-discrete sample time

⊘ Check block orientation (19-Oct-2020 20:30:59)

Identify blocks which are rotated or reversed

Passed

No blocks found with rotated or reversed orientation

Check if blocks are shaded in the model (19-Oct-2020 20:30:59)

Check if blocks are shaded in the model

Passed

Blocks in the model are not shaded.



Check operator order of Product blocks (19-Oct-2020 20:30:59)

Operator order for Product blocks.

Passed

All Product blocks have valid operator order.



Check icon shape of Logical Operator blocks (19-Oct-2020 20:30:59)

Icon shape of Logical Operator blocks

Passed

All Logical Operator blocks have consistent icon shape.



△ Check if tunable block parameters are defined as named constants (19-Oct-2020 20:30:59)

Check if tunable block parameters are defined as named constants

Warning

The following tunable block parameters are not defined as named constants.

Block	Violations
	Value : -60
	Value : 60
	Value : 255

Recommended Action

Consider changing tunable block parameter literal values to named constants.

Check default/else case in Switch Case blocks and If blocks (19-Oct-2020 20:30:59)

Check if default/else case in Switch Case blocks and If blocks are set to 'on'

Passed

Conditional Control blocks are valid.

Check usage of Lookup Tables (19-Oct-2020 20:30:59)

jc_0626: Guideline for using the Lookup Table system block Checks for the recommended parameter settings in Lookup Tables to prevent unexpected results.

Passed

All the Lookup Tables pass the check.

Check for parentheses in Fcn block expressions (19-Oct-2020 20:30:59)

jc 0622: Guideline for using the Fcn block

Passed

All Fcn blocks use parentheses to mark operator precedence.

Check undefined initial output for conditional subsystems (19-Oct-2020 20:30:59)

Check undefined initial output for Outports/Merge blocks in conditional subsystems

Passed

The initial output setting for all Conditional Subsystems are valid.

Check for avoiding algebraic loops between subsystems (19-Oct-2020 20:30:59)

 $jc_0653\hbox{:} Guidelines for avoiding algebraic loops between subsystems.\\$

Passed

No delay blocks in feedback loops violate the guidelines for avoiding algebraic loops between subsystems.

Comparing floating point types in Simulink (19-Oct-2020 20:30:59)

jc_0800: Comparing floating point types in Simulink Equivalence comparison should not be used for floating point numbers.

Passed

No Equivalence comparison done on floating point numbers.



Check duplication of Simulink Data names (19-Oct-2020 20:30:59)

Simulink Data names should be unique across base workspace, model workspace and data dictionary.

Passed

All Simulink Data names are unique.



△ Check unused data in Simulink Model (19-Oct-2020 20:30:59)

Check for unused data in Data Dictionary

Warning

The following data variables in the data dictionary are unused:

Data Objects	Source
F32	WWDW_dd.sldd
F64	WWDW_dd.sldd
FLAG	WWDW_dd.sldd
MODE	WWDW_dd.sldd
S16	WWDW_dd.sldd
S32	WWDW_dd.sldd
\$8	WWDW_dd.sldd
SMODE	WWDW_dd.sldd
SignPosLat	WWDW_dd.sldd
Sign_Status	WWDW_dd.sldd

U16	WWDW_dd.sldd
U32	WWDW_dd.sldd
U8	WWDW_dd.sldd
ValidLateralPosition	WWDW_dd.sldd
ValidLongitudionalPosition	WWDW_dd.sldd
VehicleSpeed_kph	WWDW_dd.sldd
VehicleYawRate_Degree	WWDW_dd.sldd

Λ Less

Recommended Action

Consider removing the unused data variables.

⚠ Check output data type of operation blocks (19-Oct-2020 20:30:59)

jc_0651: Guideline for implementing a type conversion.

Warning

Following operation blocks explicitly specify output data type:

•
•

Λ Less

Recommended Action

Instead of explicitly specifying output data type on operation blocks, use 'Data Type Conversion' block when changing the data type of the block output signal.



△ Check Model Description (19-Oct-2020 20:30:59)

Identify layers in the model having inconsistent description format.

Warning

Following layers do not have model descriptions:

•		
	Recommended Action	
	Consider adding model description for all the layers.	
	layers in the model having inconsistent description format.	Identify
	Warning	
	Following layers do not have consistent model description format:	
•	Wrong_Way_Driver_Warning	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner	
	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput	
•	Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal	
•	Recommended Action	
	Consider having a consistent format for the model description	
	Example: If description tags are 'Input:, Description:, and Output:' then format should be as	following:

Input: add input information here

Description: add model description here

Output: add output information here

Check for consistency in model element names (19-Oct-2020 20:30:59)

Check if model elements connected to a signal are following consistent naming.

Passed

Model elements connected to a signal are following consistent names.

Check for sample time setting (19-Oct-2020 20:30:59)

Check if sample time property of a block is set to -1 (inherited).

Passed

All permitted blocks have sample time set to -1 (inherited).

Check usage of Sum blocks (19-Oct-2020 20:30:59)

Identify inappropriate usages of Sum block.

Passed

No violations of the guideline found with the usage of the Sum block.

Check position of signal labels (19-Oct-2020 20:30:59)

Check overlap of signal labels

Warning

The following signals have labels which overlap other objects:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Map Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Map Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Map Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
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- Wrong Way Driver Warning/Input Signal Range Conditioner
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- Wrong Way Driver Warning/Input Signal Range Conditioner
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- Wrong Way Driver Warning/Input Signal Range Conditioner

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
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- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning

Λ Less

Recommended Action

Consider placing the signal label so that it is readable.

location of signal labels

Warning

The following signals do not have labels located at the origin of the signal line:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Camera_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Camera Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/EnabledData
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Map_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Map Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/SuppressedOutput
- Wrong Way Driver Warning/Input Signal Range Conditioner/SuppressedOutput
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value _in_ISO_Coordinates
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Lateral_Sign_Value __in_ISO_Coordinates
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal/Sign_Positional_Longitudional
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Valid_Signal
- Wrong Way Driver Warning/Input Signal Range Conditioner/Valid Signal
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong Way Driver Warning/Input Signal Range Conditioner/Vehicle Data Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Data_Conditioning
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Vehicle_Speed_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Yaw_Rate_Conversion
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong Way Driver Warning/Input Signal Range Conditioner

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner
- Wrong_Way_Driver_Warning

- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning
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- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning
- Wrong Way Driver Warning
- Wrong Way Driver Warning
- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning
- Wrong Way Driver Warning
- Wrong Way Driver Warning
- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning
- Wrong_Way_Driver_Warning
- Wrong Way Driver Warning

Λ Less

Recommended Action

Consider placing the labels at the origin of the signal line.



Check for missing ports in Variant Subsystems (19-Oct-2020 20:30:59)

Check for number of inputs/outputs to a Variant Subsystem.

No Variant Subsystems found having different number of inputs/outputs in the Variant Subsystem choices.

Check for cascaded Unit Delay blocks (19-Oct-2020 20:30:59)

Identify cascaded and tapped pattern of Unit Delay blocks.

Passed No cascaded Unit Delay blocks found that can be changed to Tapped Delay/Delay block.	
Check for usage of Data Store Memory blocks (19-Oct-2020 20:30:59) Identify the usage of Data Store Memory blocks.	
Passed Usage of Data Store Memory blocks is correct.	
Check fundamental logical and numerical operations (19-Oct-2020 20:30:59) Check input data types of blocks meant for numerical operations	
Warning	
The following numerical operation blocks have boolean data type as input:	

Recommended Action

Consider having non-boolean inputs for the numerical operation blocks.

⊘ Check signal flow in model (19-Oct-2020 20:30:59)

Identify subsystems which do not have a signal flow from left to right.

Passed

No subsystems found with inappropriate signal flow.

Check usage of vector and bus signals (19-Oct-2020 20:30:59)

Identify mixed usages of vector and bus signals.

Passed

No mixing of vector and bus signals found in the system.

Check connections between structural subsystems (19-Oct-2020 20:30:59)

Identify connections between structural subsystems.

Passed

All connections to structural subsystems adhere to the guideline.

Check position of conditional blocks and iterator blocks (19-Oct-2020 20:30:59)

Identify conditional and iterative blocks that are positioned inconsistently in the model.

Passed

The conditional and iterative blocks are correctly placed in the model.

△ Check signal line connections (19-Oct-2020 20:30:59)

Check signal intersections

Warning

The following signals intersect with other signals in the diagram:

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change

- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong_Way_Driver_Warning/Input_Signal_Range_Conditioner/Input_Signal_Range_Change
- Wrong Way Driver Warning/Input Signal Range Conditioner/Input Signal Range Change

Recommended Action

Reposition the above listed signals to avoid intersections.



Identify incorrect scoping of From and Goto blocks. For signal flows, From and Goto blocks must use local scope. Control flow can use global scope.

Passed

All From and Goto blocks are used correctly.



Check transition orientations in flow charts (19-Oct-2020 20:30:59)

Identify transitions in Stateflow flow charts that are drawn incorrectly.

Check for conditions drawn horizontally

Condition expressions should be drawn on the horizontal segments of flow charts.

Passed

All condition expressions were drawn horizontally.

Check for action transitions drawn vertically

Transitions with condition actions should be drawn on the vertical segments of flow charts.

Passed

All transitions with condition actions were drawn vertically.

Check for transition actions in flow chart

Transition actions should not be used in flow charts.

Passed

No transition actions are used in flow charts.

Check for junctions for default transitions

All Junctions in a flow chart should have a default exit transition.

Passed

All Junctions have a default exit transition.

Check for transitions that combine condition and action

Flow charts should not combine condition evaluations and action expressions in a single transition.

Passed

No combined expressions were found in the chart.

Check return value assignments in Stateflow graphical functions (19-Oct-2020 20:30:59)

Identify graphical functions with multiple assignments of return values in Stateflow charts.

Passed

No Stateflow charts were found.

Check default transition placement in Stateflow charts (19-Oct-2020 20:30:59)

jc_0531: Placement of default transition.

Passed

No Stateflow transitions and states found that violate the guidelines for default transition placement in Stateflow charts.

Check for Strong Data Typing with Simulink I/O (19-Oct-2020 20:30:59)

Check whether labeled input and output signals are strongly typed.

Passed

No Stateflow charts have Use Strong Data Typing with Simulink I/O cleared.

Check definition of Stateflow data (19-Oct-2020 20:30:59)

Identify the Scope value set on Stateflow data defined at machine level.

Passed

All Stateflow data at machine level has been defined as per guideline.

Check for MATLAB expressions in Stateflow blocks (19-Oct-2020 20:30:59)

Identify MATLAB expressions that are not suitable for code generation in Stateflow blocks.

Passed

No Stateflow objects found using MATLAB expressions unsuitable for code generation.

Check for pointers in Stateflow charts (19-Oct-2020 20:30:59)

Identify pointer operations on custom code variables.

Note: This check applies only to Stateflow charts that use C as the action language.

Passed

No pointer operations were found.

Check Stateflow operators (19-Oct-2020 20:30:59) Identify the usage of operators in Stateflow.

Passed

No Stateflow blocks found with incorrect operator usage.

Check usage of unary minus operations in Stateflow charts (19-Oct-2020 20:30:59)
Identify unary minus operations applied to unsigned integers in Stateflow objects.

Passed

No unary minus operations applied to unsigned integers in Stateflow objects were found.

Check usage of Stateflow comments (19-Oct-2020 20:30:59)

Identify comments that are nested or contain newline(s) in the middle in Stateflow for action language 'C'.

Passed

No comments found that are either nested or contain newline(s) in the middle.

Check prohibited comparison operation of logical type signals (19-Oct-2020 20:30:59) Identify boolean variables in Stateflow charts using comparison operations.

Passed

No boolean variables use comparison operations of logical type in the model.

Check usage of internal transitions in Stateflow states (19-Oct-2020 20:30:59)

Identify Stateflow states using multiple internal transitions.

Passed

No Stateflow states found with multiple internal transitions

Check usage of transition conditions in Stateflow transitions (19-Oct-2020 20:30:59)

jc 0772: Identify unconditional Stateflow transitions with higher priority than conditional transitions

No unconditional Stateflow transitions found with higher priority than conditional transitions

Check uniqueness of Stateflow State and Data names (19-Oct-2020 20:30:59)

jc 0732: Distinction between state name and data item name Identify Stateflow State and Stateflow Data that have identical names in a given chart.

Passed

No Stateflow charts were found.

Check uniqueness of State names (19-Oct-2020 20:30:59)

jc_0730: Independence of state name in charts Identifies identical State names within a Stateflow Chart.

Passed

No Stateflow charts were found.

Check usage of parentheses in Stateflow transitions (19-Oct-2020 20:30:59)

jc 0752: Start new line before and after parentheses for condition actions in Stateflow transitions.

Passed

No Stateflow Transitions found that violate the requirement for new line for condition actions.

lacktriangle Check prohibited combination of state action and flow chart (19-Oct-2020 20:30:59)

jc_0762: State actions within states and flow chart statements should not be used in combination.

Passed

No Stateflow states found that combine state action and flow chart.

Check condition actions and transition actions in Stateflow (19-Oct-2020 20:30:59)

Identify usage of transition actions in Stateflow.

Passed

No Stateflow charts have transition actions.

Check usable number for first index (19-Oct-2020 20:30:59)

Identify usage of first index of Stateflow data.

Passed

All Stateflow data first index values are uniform.

⊘ Check usage of State names (19-Oct-2020 20:30:59)

jc_0731: Slash (/) in the state name Identify state names with '/' at its end.

Passed

No Stateflow states were found.

Check execution timing for default transition path (19-Oct-2020 20:30:59)

'Execute (enter) Chart At Initialization' should be set to OFF.

Passed

All Stateflow Charts pass the check.

Check repetition of Action types (19-Oct-2020 20:30:59)

jc_0734: Number of state action types Identifies repeated action types in a Stateflow State.

Passed

No Stateflow States were found.

Check for unused data in Stateflow Charts (19-Oct-2020 20:30:59)

Checks if the model parameter 'Unused data, events, messages and functions' is not set to 'none'.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unused data, events, messages and functions (SFUnusedDataAndEventsDiag)	warning	error, warning



jc_0741: Variables used in state transition conditions must not perform an update by "during" state action type.

Passed

No Stateflow states found that violate the guidelines for updating the variables used in state transition conditions.

⊘ Check starting point of internal transition in Stateflow (19-Oct-2020 20:30:59)

jc_0760: In all state charts and flow charts, internal transitions from state boundaries must start from the left edge of the state.

Passed

No Stateflow transitions found that violate the guidelines for starting point of internal transition in Stateflow.

Check for parallel Stateflow state used for grouping (19-Oct-2020 20:30:59)

jc_0721: Guidelines for using parallel states Identify parallel Stateflow States used for grouping.

Passed

No Stateflow charts were found.

⊘ Check scope of data in parallel states (19-Oct-2020 20:30:59)

jc_0722: Guidelines for setting local variables in parallel states

The scope of local variables should be restricted to one parallel state unless it is being used by other parallel states.

Passed

No Stateflow States were found.

Check indentation of code in Stateflow states (19-Oct-2020 20:30:59)

Identify non-uniform indentation in Stateflow blocks.

Passed

All Stateflow blocks have uniform indentation.

Check for usage of text inside states (19-Oct-2020 20:30:59)

Identify Stateflow states with text exceeding the boundary of the state

Passed

No Stateflow states found with text exceeding the boundary of the state.

⊘ Check for unexpected backtracking in state transitions (19-Oct-2020 20:30:59)

Identify configuration parameter settings which identify unexpected backtracking in state transitions.

Passed

All constraints on model configuration parameters have been met.

Status	Parameter	Current Value	Recommended Values
Pass	Unexpected backtracking (SFUnexpectedBacktrackingDiag)	error	error

Check for unconnected objects in Stateflow Charts (19-Oct-2020 20:30:59)

Check for unconflected objects in state flow charts (19-oct-2020 20.30.39)

Identify dangling transitions and unconnected Stateflow States and Junctions in Stateflow Charts.

Passed

No unconnected transitions, states or junctions found in Stateflow Charts.

Check position of label string in Stateflow transition (19-Oct-2020 20:30:59)

Identify placement of label string in Stateflow transition.

Passed

All Stateflow transitions are placed uniformly.

Check Stateflow chart action language (19-Oct-2020 20:30:59)

Check if the action language of Stateflow charts is set to 'C'.

Passed

All Stateflow Charts have action language set to 'C'.

Check usable characters for Stateflow data names (19-Oct-2020 20:30:59) Identify invalid characters in Stateflow data names.

Passed

No invalid characters are used in Stateflow data names.

Check length of Stateflow data name (19-Oct-2020 20:30:59)

Check if the length of Stateflow data names are within limit.

Passed

All Stateflow data names are valid.

Check usage of transitions to external states (19-Oct-2020 20:30:59) Identify transitions ending on external child states.

Passed

No direct transitions found from external state to child state.

Check order of state action types (19-Oct-2020 20:30:59)

Identify out of order state action types in Stateflow states.

Passed

No Stateflow states found with out of order state action types

Check usage of numeric literals in Stateflow (19-Oct-2020 20:30:59)

Identify use of numeric literals in Stateflow states and transitions.

Passed

No numeric literals found in Stateflow charts.

⊘ Check position of comments in transition labels (19-Oct-2020 20:30:59)

Identify comments in transition labels that are not positioned uniformly.

Passed

Comments in transition labels are positioned uniformly.

⊘ Check terminal junctions in Stateflow (19-Oct-2020 20:30:59)

Identify usage of terminal junctions in flow charts.

Passed

Multiple terminal junctions were not found.

✓ Check for implicit type casting in Stateflow (19-Oct-2020 20:30:59)

Identify implicit type casting in Stateflow.

Passed

No instances of implicit type casting found.

⊘ Check if state action type 'exit' is used in the model (19-Oct-2020 20:30:59)

Check if state action type 'exit' is used in the model.

Passed

State action type 'exit' is not used in the model.

Check for use of C-style comment symbols (19-Oct-2020 20:30:59)

Identify usage of C-style comments in CGT Files and MPT Objects.

Passed

C-style comments are not used in CGT Files and MPT Objects.

Check usage of unconditional transitions in flow charts (19-Oct-2020 20:30:59)

Identify unconditional transitions in flow charts.

Passed

All unconditional transitions adhere to the guideline.

⊘ Check for comments in unconditional transitions (19-Oct-2020 20:30:59)

Identify comments in unconditional transitions without action statements.

Passed

All unconditional transitions without action statements have comments.

Check definition of Stateflow events (19-Oct-2020 20:30:59)

Stateflow events should be defined at the smallest possible scope of usage.

Passed

All Stateflow events are defined at their smallest scope.

Check Stateflow transition appearance (19-Oct-2020 20:30:59)

Identify Stateflow transitions visually overlapping other Stateflow objects.

Passed

No transition violates the guidelines for Stateflow transition appearance.

Check for usage of events and broadcasting events in Stateflow charts (19-Oct-2020 20:30:59) Identify undirected event broadcasts in Stateflow

Passed

No instances of undirected event broadcast were found.

Check usage of Simulink functions in Stateflow (19-Oct-2020 20:30:59) Usage of Simulink Functions in Stateflow.
Passed All Simulink Functions in Stateflow are defined according to the guideline.
© MATLAB Functions 2 0 0 0 0 0 0
Check input and output settings of MATLAB Functions (19-Oct-2020 20:30:59)
Identify MATLAB Functions that have inputs, outputs, or parameters with inherited complexity, data type, or size properties.
Passed No MATLAB Functions found in the model or subsystem.
Check MATLAB code for global variables (19-Oct-2020 20:30:59)
Check for global variables in MATLAB code
Check for global variables in MATLAB code used in MATLAB Function blocks
Passed No MATLAB Function blocks found
Check for global variables in MATLAB functions defined in Stateflow charts
Passed No MATLAB functions defined in Stateflow charts found
Check for global variables in called MATLAB functions
Passed

□ Units Inconsistencies
□ 0 ○ 0 △ 0 □ 5 Identify unit mismatches in the model Not Run Identify automatic unit conversions in the model Not Run Identify disallowed unit systems in the model Not Run Identify undefined units in the model Not Run Identify ambiguous units in the model Not Run □ Upgrading to the Current Simulink Version ✓0 🕸0 🗘0 💷1 Open the Upgrade Advisor Not Run Check configuration parameters for MISRA C:2012 (19-Oct-2020 20:30:59) Identify configuration parameters that might impact MISRA C:2012 compliant code generation.

Passed

All constraints on model configuration parameters have been met.

Sta tus	Parameter	Current Value	Recommended Values	Prerequisites
Pas s	Model Verification block enabling (AssertControl)	DisableAll	DisableAll	
D - Pas s	Shared code placement (UtilityFuncGeneration)	Shared location	Shared location	
Pas s	Generate shared constants (GenerateSharedConst ants)	off	off	UtilityFuncGe neration
D - Pas s	System target file (SystemTargetFile)	ERT based target	ERT based target	
Pas s	continuous time (SupportContinuousTi me)	off	off	SystemTarge tFile
Pas s	non-inlined S-functions (SupportNonInlinedSFc ns)	off	off	SystemTarge tFile
Pas s	MAT-file logging (MatFileLogging)	off	off	
Pas s	Code replacement library (CodeReplacementLibr ary)	None	None, AUTOSAR 4.0	
Pas s	Parentheses level (ParenthesesLevel)	Maximum	Maximum	SystemTarge tFile

	Casting modes	Standards	Standards	
Pas s	(CastingMode)			SystemTarge tFile
Pas s	System-generated identifiers (InternalIdentifier)	Shortened	Shortened	SystemTarge tFile
Pas s	Signed integer division rounds to (ProdIntDivRoundTo)	Zero	Zero, Floor	
Pas s	Use division for fixed- point net slope computation (UseDivisionForNetSlop eComputation)	UseDivisionForReciprocal sOfIntegersOnly	on, UseDivisionForReciprocal sOfIntegersOnly	
Pas s	Replace multiplications by powers of two with signed bitwise shifts (EnableSignedLeftShifts)	off	off	SystemTarge tFile
Pas s	Allow right shifts on signed integers (EnableSignedRightShifts)	off	off	SystemTarge tFile
Pas s	Wrap on overflow (IntegerOverflowMsg)	error	warning, error	
Pas s	Inf or NaN block output (SignalInfNanChecking)	error	warning, error	
Pas s	Dynamic memory allocation in MATLAB functions (MATLABDynamicMem Alloc)	off	off	
Pas s	External mode (ExtMode)	off	off	

Pas s	Undirected event broadcasts (SFUndirectedBroadcas tEventsDiag)	error	error	
Pas s	Compile-time recursion limit for MATLAB functions (CompileTimeRecursion Limit)	0	0	
Pas s	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursi on)	off	off	
D - Pas s	Include comments (GenerateComments)	on	on	
Pas s	MATLAB user comments (MATLABFcnDesc)	on	on	GenerateCo mments, SystemTarge tFile

Λ Less

Check for blocks not recommended for C/C++ production code deployment (19-Oct-2020 20:30:59)

Identify blocks not supported by code generation or not recommended for C/C++ production code deployment.

Passed

Blocks not recommended for C/C++ production code deployment were not found in the model or subsystem.

Check for blocks not recommended for MISRA C:2012 (19-Oct-2020 20:30:59)

Identify blocks that are not recommended for MISRA C:2012 compliant code generation.

Passed

None of the blocks are defined as "not recommended" for MISRA C:2012 compliant code generation.

Check for unsupported block names (19-Oct-2020 20:30:59)

Identify block names containing "/".

Passed

No unsupported block names found.

Check usage of Assignment blocks (19-Oct-2020 20:30:59)
Identify Assignment blocks with possibly incomplete array initialization that do not have the simulation run-time diagnostic **Action if any output element is not assigned** set to:

- Warning, if Assignment block is in an iterator subsystem
- Error, if Assignment block is not in an iterator subsystem

Passed

All Assignment blocks are configured with block parameter **Action if any output element is not assigned** set to Warning or Error.

Check for switch case expressions without a default case (19-Oct-2020 20:30:59) 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 (19-Oct-2020 20:30:59) 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 (19-Oct-2020 20:30:59) Identify bitwise operations on signed integers.

Passed

No bitwise operations on signed integers found.

Check for recursive function calls (19-Oct-2020 20:30:59) Identify function calls that are recursive.

Passed

No recursive function calls found.

Check for equality and inequality operations on floating-point values (19-Oct-2020 20:30:59) Identify equality and inequality operations on floating-point values.

Passed

No equality or inequality operations on floating-point values found.

Check for missing const qualifiers in model functions (19-Oct-2020 20:30:59) Identify missing const qualifiers in model functions.

Passed

Model does not use customized model functions.

Check integer word lengths (19-Oct-2020 20:30:59)

Identify integer word length that are not compliant with hardware implementation settings.

Passed

All used integer word length are compliant with hardware implementation settings.

Check bus object names that are used as bus element names (19-Oct-2020 20:30:59) Identify bus object names that are used as bus element names.

Passed

No bus object names are used as bus element names.

Modeling Standards for Secure Coding (CERT C, CWE, ISO/IEC TS 17961)
Check configuration parameters for secure coding standards Not Run
Check for blocks not recommended for C/C++ production code deployment Not Run
Check for blocks not recommended for secure coding standards Not Run
Check usage of Assignment blocks Not Run
Check for switch case expressions without a default case Not Run
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
Detect Dead Logic Not Run

Detect Integer Overflow Not Run
Detect Division By Zero Not Run
Detect Out Of Bound Array Access Not Run
Detect Specified Minimum and Maximum Value Violations Not Run
☐ Frequency Response Estimation ○0 ○0 △0 □1
Identify time-varying source blocks interfering with frequency response estimation Not Run