Model Advisor Report - untitled1 Simulink version: 10.5 Model version: 1.0 Current run: 26-Mar-2022 21:51:34 System (Library): untitled1 Treat as Referenced Model: off **Run Summary Incomplete Failed Warning Justified Passed Not Run Total 3** 0 **437 1422** 1863 Supported compiler not detected. You can install the freely available MinGW-w64 C/C++ compiler; see Install MinGW-w64 Compiler. For more options, visit https://www.mathworks.com/support/compilers. ■ Model Advisor **○**0 **△**0 **△**0 **○**0 **○**689 **□** 1 By Product **○**0 **△**0 **△**0 **○**0 **□**28 □ 1.1 Embedded Coder Identify lookup table blocks that generate expensive out-of-range checking code Not Run Check configuration parameters for generation of inefficient saturation code Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment Not Run Check output types of logic blocks Not Run Check the hardware implementation Not Run. Check does not support library and subsystem models. Identify questionable software environment specifications Not Run. Check does not support library and subsystem models. Identify questionable code instrumentation (data I/O) Not Run. Check does not support library and subsystem models. Identify blocks generating inefficient algorithms Not Run Check configuration parameters for MISRA C:2012

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Not Run. Check does not support library and subsystem models.

Check for blocks not recommended for MISRA C:2012 Not Run
Check for unsupported block names Not Run
Check usage of Assignment blocks Not Run
Check for switch case expressions without a default case Not Run
Check for missing error ports in AUTOSAR receiver interfaces Not Run. Check does not support library and subsystem models.
Check configuration parameters for secure coding standards Not Run. Check does not support library and subsystem models.
Check for blocks not recommended for secure coding standards Not Run
Identify questionable subsystem settings Not Run. Check does not support library and subsystem models.
Check for blocks not supported for row-major code generation Not Run. Check does not support library and subsystem models.
Identify TLC S-Functions with unset array layout Not Run. Check does not support library and subsystem models.
Identify blocks that generate expensive fixed-point and saturation code Not Run. Check does not support library and subsystem models.
Check for missing const qualifiers in model functions Not Run. Check does not support library and subsystem models.
Check bus object names that are used as bus element names Not Run. Check does not support library and subsystem models.
Identify questionable fixed-point operations Not Run. Check does not support library and subsystem models.

	Identify blocks that generate expensive rounding code
	Not Run. Check does not support library and subsystem models.
	Check for bitwise operations on signed integers
	Not Run. Check does not support library and subsystem models.
	Check for recursive function calls
	Not Run. Check does not support library and subsystem models.
	Check for equality and inequality operations on floating-point values
	Not Run. Check does not support library and subsystem models.
	Check integer word lengths
	Not Run. Check does not support library and subsystem models.
□ ·	1.2 Simulink
	Check optimization settings
	Not Run. Check does not support library and subsystem models.
	Identify unconnected lines, input ports, and output ports
	Not Run
	Check root model Inport block specifications
	Not Run. Check does not support library and subsystem models.
	Check diagnostic settings ignored during accelerated model reference simulation
	Not Run. Check does not support library and subsystem models.
	Check for parameter tunability information ignored for referenced models
	Not Run. Check does not support library and subsystem models.
	Check for implicit signal resolution
	Not Run. Check does not support library and subsystem models.
	Check for optimal bus virtuality
	Not Run
	Check for calls to slDataTypeAndScale()
	Not Run. Check does not support library and subsystem models.

	Check for Discrete-Time Integrator blocks with initial condition uncertainty
	Not Run
	Identify disabled library links
	Not Run
	Identify parameterized library links
	Not Run
	Identify unresolved library links
	Not Run
_	
	Identify configurable subsystem blocks in the model for converting to variant subsystem blocks.
	Not Run
	Check usage of function-call connections
	Not Run. Check does not support library and subsystem models.
	Check and update mask image display commands with unnecessary imread() function calls
	Not Run
	Check and update mask to affirm icon drawing commands dependency on mask workspace
	Not Run
	Identify Environment Controller blocks to be replaced with Variant Source blocks
	Not Run
	Runtime diagnostics for S-functions
	Not Run. Check does not support library and subsystem models.
_	
	Check if Read/Write diagnostics are enabled for Data Store blocks
_	Not Run. Check does not support library and subsystem models.
	Check Data Store Memory blocks for multitasking, strong typing, and shadowing issues
_	Not Run. Check does not support library and subsystem models.
	Check Model History properties
	Not Run
	Check S-functions in the model

Not Run. Check does not support library and subsystem models.
Open the Upgrade Advisor
 Not Run
Check structure parameter usage with bus signals
 Not Run. Check does not support library and subsystem models.
Check for large number of function arguments from virtual bus across model reference boundary
 Not Run. Check does not support library and subsystem models.
Check Delay, Unit Delay and Zero-Order Hold blocks for rate transition
 Not Run. Check does not support library and subsystem models.
Check bus signals treated as vectors
Not Run. Check does not support library and subsystem models.
Check for potentially delayed function-call block return values
Not Run. Check does not support library and subsystem models.
Identify block output signals with continuous sample time and non-floating point data type
Not Run. Check does not support library and subsystem models.
Check usage of Merge blocks
Not Run. Check does not support library and subsystem models.
Check usage of Outport blocks
Not Run. Check does not support library and subsystem models.
Check usage of Discrete-Time Integrator blocks
Not Run. Check does not support library and subsystem models.
Check model settings for migration to simplified initialization mode
Not Run. Check does not support library and subsystem models.
Check for non-continuous signals driving derivative ports
Not Run. Check does not support library and subsystem models.
Check data store block sample times for modeling errors
Not Run. Check does not support library and subsystem models.

	Check for potential ordering issues involving data store access Not Run. Check does not support library and subsystem models.
_	Not Null. Check does not support library and subsystem models.
	Identify unit mismatches in the model
	Not Run. Check does not support library and subsystem models.
	Identify automatic unit conversions in the model
	Not Run. Check does not support library and subsystem models.
	Identify disallowed unit systems in the model
	Not Run. Check does not support library and subsystem models.
	Identify undefined units in the model
	Not Run. Check does not support library and subsystem models.
	Identify ambiguous units in the model
	Not Run. Check does not support library and subsystem models.
	Identify questionable operations for strict single-precision design
	Not Run. Check does not support library and subsystem models.
□ <i>*</i>	I.3 Simulink Coder
	I.3 Simulink Coder O O O O O O O O O O O O
_	
_	Identify blocks using one-based indexing
_	Identify blocks using one-based indexing Not Run
_	Identify blocks using one-based indexing Not Run Check solver for code generation
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models.
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models. Check for blocks not supported by code generation
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models. Check for blocks not supported by code generation Not Run
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models. Check for blocks not supported by code generation Not Run Check for model reference configuration mismatch
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models. Check for blocks not supported by code generation Not Run Check for model reference configuration mismatch Not Run. Check does not support library and subsystem models.
	Identify blocks using one-based indexing Not Run Check solver for code generation Not Run. Check does not support library and subsystem models. Check for blocks not supported by code generation Not Run Check for model reference configuration mismatch Not Run. Check does not support library and subsystem models. Check code generation identifier formats used for model reference

Check reuse of subsystem code
Check reuse of subsystem code Not Run. Check does not support library and subsystem models.
Check sample times and tasking mode
Not Run. Check does not support library and subsystem models.
☐ Check for blocks that have constraints on tunable parameters
Not Run. Check does not support library and subsystem models.
□ 1.4 AUTOSAR Blockset □0 ॆ0 ♣0 ➡0 □2
☐ Check compatibility of AUTOSAR Interpolation Routines
Not Run. Check does not support library and subsystem models.
□ Check model configuration parameters for AUTOSAR compliance
Not Run. Check does not support library and subsystem models.
□ 1.5 HDL Coder
□ 1.5.1 Checks for blocks and block settings □ 0 😂 0 🚣 0 💆 0 □ 10
- 1.0.1 Officers for blocks and block settings
☐ Check for unsupported blocks
Not Run. Check does not support library and subsystem models.
☐ Check for HDL Reciprocal block usage
Not Run. Check does not support library and subsystem models.
Check for MATLAB Function block settings
Not Run. Check does not support library and subsystem models.
Check for absolute Unit Delay Enchled/Decettable blocks
Check for obsolete Unit Delay Enabled/Resettable blocks Not Run. Check does not support library and subsystem models.
Check for infinite and continuous sample time sources
Not Run. Check does not support library and subsystem models.
☐ Check for unsupported storage class for signal objects
Not Run. Check does not support library and subsystem models.
Check for Stateflow chart settings

Not Run. Check does not support library and subsystem models.
☐ Check for Trigonometric Function block for LUT-based approximation method
Not Run. Check does not support library and subsystem models.
☐ Check for large matrix operations
Not Run. Check does not support library and subsystem models.
☐ Check for blocks that have nonzero output latency
Not Run. Check does not support library and subsystem models.
□ 1.5.2 Industry standard checks □0 ☎0 ☎0 ☎0 ☑ 11
☐ Check architecture name
Not Run. Check does not support library and subsystem models.
☐ Check clock settings
Not Run. Check does not support library and subsystem models.
☐ Check clock, reset, and enable signals
Not Run. Check does not support library and subsystem models.
☐ Check file extension
Not Run. Check does not support library and subsystem models.
☐ Check generics
Not Run. Check does not support library and subsystem models.
☐ Check naming conventions
Not Run. Check does not support library and subsystem models.
☐ Check package file names
Not Run. Check does not support library and subsystem models.
☐ Check signal and port names
Not Run. Check does not support library and subsystem models.
☐ Check entity and architecture
Not Run. Check does not support library and subsystem models.
☐ Check module/entity names

Not Run. Check does not support library and subsystem models.

Check top-level subsystem/port names

Not Run. Check does not support library and subsystem models.

☐ 1.5.3 Model configuration checks



Check delay balancing setting

Not Run. Check does not support library and subsystem models.

Check for global reset setting for Xilinx and Altera devices

Not Run. Check does not support library and subsystem models.

Check inline configurations setting

Not Run. Check does not support library and subsystem models.

Check for model parameters suited for the HDL code generation

Not Run. Check does not support library and subsystem models.

Check for visualization settings

Not Run. Check does not support library and subsystem models.

Check algebraic loops

Not Run. Check does not support library and subsystem models.

□ 1.5.4 Checks for ports and subsystems



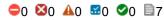
Check initial conditions of enabled and triggered subsystems

Not Run. Check does not support library and subsystem models.

Check for invalid top level subsystem

Not Run. Check does not support library and subsystem models.

□ 1.5.5 Native Floating Point checks □ 0

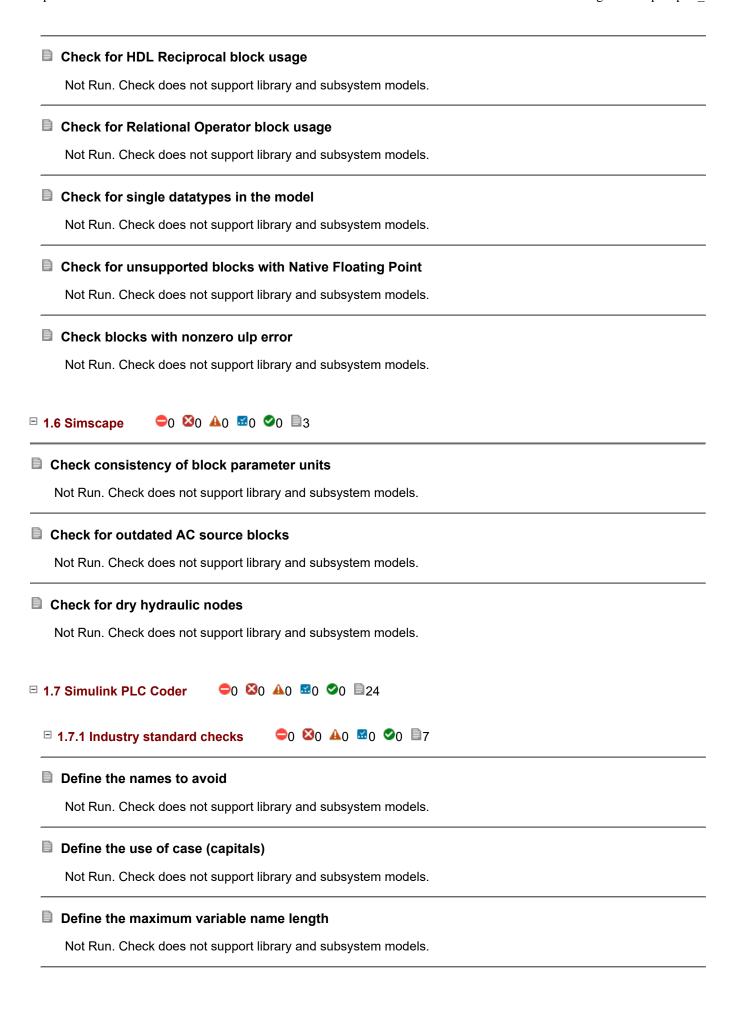


Check for double datatypes in the model with Native Floating Point

Not Run. Check does not support library and subsystem models.

Check for Data Type Conversion blocks with incompatible settings

Not Run. Check does not support library and subsystem models.



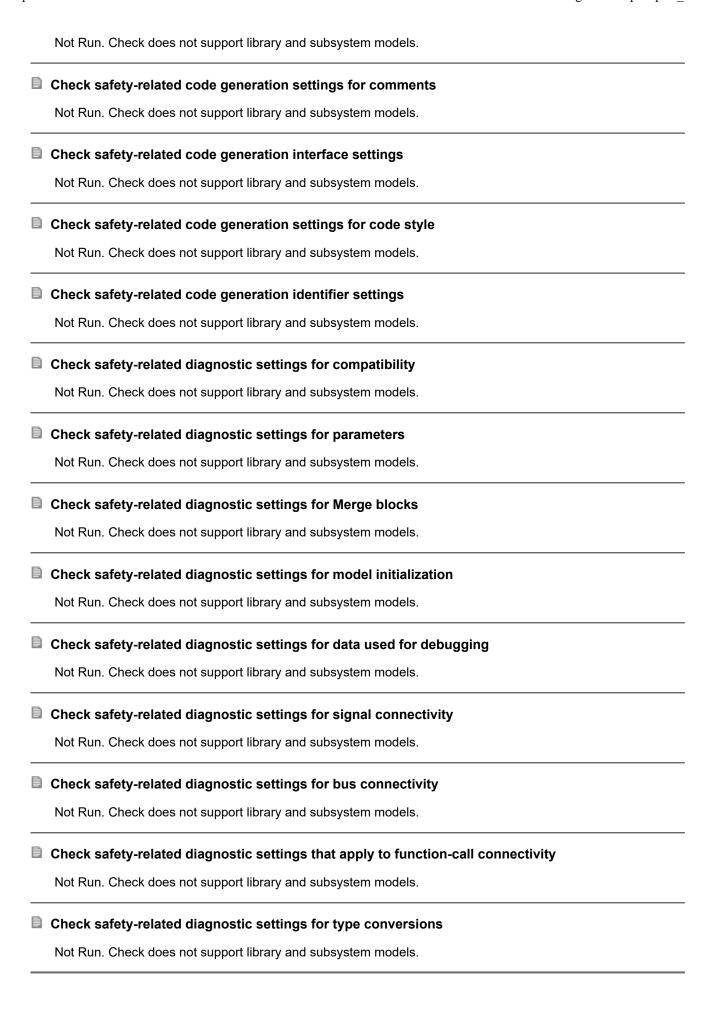
Comments must describe the intention of the code
Not Run. Check does not support library and subsystem models.
Avoid nested comments
Not Run. Check does not support library and subsystem models.
☐ Define maximum number of input/output/in-out variables of a POU
Not Run. Check does not support library and subsystem models.
Define type prefixes for variables (if used)
Not Run. Check does not support library and subsystem models.
□ 1.7.2 Checks for blocks and block settings □0 ❷0 ♣0 ᠍0 ❷0 ■8
☐ Check if model uses event based blocks
Not Run. Check does not support library and subsystem models.
Check if model uses probe blocks
Not Run. Check does not support library and subsystem models.
☐ Check if model uses environment controller blocks
Not Run. Check does not support library and subsystem models.
☐ Check Stateflow chart update
Not Run. Check does not support library and subsystem models.
☐ Check issues with integrator blocks
Not Run. Check does not support library and subsystem models.
☐ Check if model can generate testbench
Not Run. Check does not support library and subsystem models.
☐ Check function packaging configuration
Not Run. Check does not support library and subsystem models.
☐ Check trigonometric blocks
Not Run. Check does not support library and subsystem models.
□ 1.7.3 Model configuration checks □0 ❷0 ♣0 ☑0 ②0 □9

	Check if model uses unsupported blocks
	Not Run. Check does not support library and subsystem models.
	Check Data Store Memory blocks
	Not Run. Check does not support library and subsystem models.
	Check model for Stateflow messages
	Not Run. Check does not support library and subsystem models.
	Check if signal lines are configured properly
	Not Run. Check does not support library and subsystem models.
	Check if model uses row major algorithms
	Not Run. Check does not support library and subsystem models.
	Check model mask parameters
	Not Run. Check does not support library and subsystem models.
	Check if model uses machine parented data
	Not Run. Check does not support library and subsystem models.
	Check if model uses custom code
	Not Run. Check does not support library and subsystem models.
	Check model tunable parameters
	Not Run. Check does not support library and subsystem models.
149	8 Simulink Check
1.0	John Milling Crieck
Ξ	1.8.1 Modeling Standards
	□ 1.8.1.1 DO-178C/DO-331 Checks
	Check usage of standardized MATLAB function headers
	Not Run
	Check for MATLAB Function interfaces with inherited properties

	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 MATLAB functions not supported for code generation
	Not Run
	Check state machine type of Stateflow charts
	Not Run
	Check Stateflow charts for ordering of states and transitions
	Not Run
	Check Stateflow debugging options
	Not Run. Check does not support library and subsystem models.
	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 usage of While Iterator blocks
	Not Run
	Check usage of For and While Iterator subsystems
	Not Run

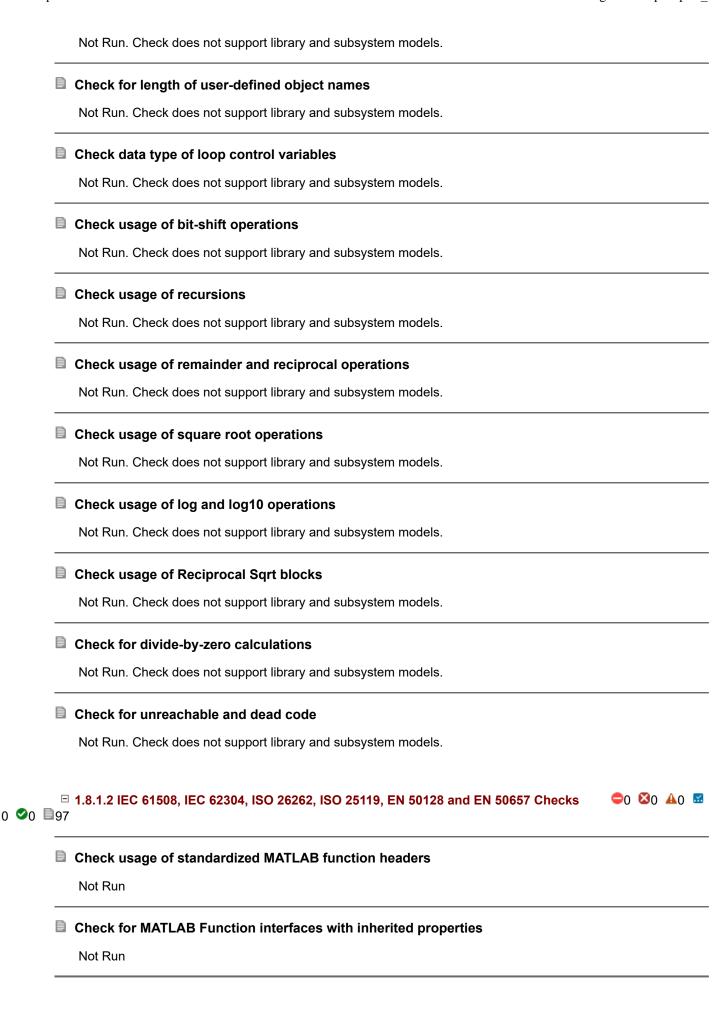
Check for blocks not recommended for C/C++ production code deployment Not Run
Check for inconsistent vector indexing methods
Not Run
Check usage of variant blocks
Not Run
Check for root Inports with missing properties
Not Run
Check model file name
Not Run
Check usage of lookup table blocks
Not Run
Check safety-related solver settings for simulation time
Not Run
Check Stateflow charts for uniquely defined data objects
Not Run
Check global variables in graphical functions
Not Run
Check usage of Gain blocks
Not Run
Check for model elements that do not link to requirements
Not Run
Check safety-related settings for hardware implementation
Not Run. Check does not support library and subsystem models.
Check for parameter tunability ignored for referenced models
Not Run. Check does not support library and subsystem models.
Check for disabled and parameterized library links Not Run

	Check safety-related diagnostic settings for data store memory
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for saving
	Not Run. Check does not support library and subsystem models.
	Check safety-related model referencing settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for solver options
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for solvers
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for sample time
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for logic signals
	Not Run. Check does not support library and subsystem models.
	Check safety-related block reduction optimization settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for application lifespan
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for data initialization
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for data type conversions
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for division arithmetic exceptions
_	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for specified minimum and maximum values



Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for Stateflow
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for signal data
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for variants
Not Run. Check does not support library and subsystem models.
Display model version information
Not Run. Check does not support library and subsystem models.
Check usage of relational operators in MATLAB Function blocks
Not Run. Check does not support library and subsystem models.
Check usage of logical operators and functions in MATLAB Function blocks
Not Run. Check does not support library and subsystem models.
Check type and size of condition expressions
Not Run. Check does not support library and subsystem models.
Metrics for generated code complexity
Not Run. Check does not support library and subsystem models.
Check Stateflow charts for strong data typing
Not Run. Check does not support library and subsystem models.
Check assignment operations in Stateflow charts
Not Run. Check does not support library and subsystem models.
Check Stateflow charts for unary operators
Not Run. Check does not support library and subsystem models.
Check usage of Abs blocks
Not Run. Check does not support library and subsystem models.
Check usage of For Iterator blocks
Not Run. Check does not support library and subsystem models.

Check usage of If blocks and If Action Subsystem blocks
 Not Run. Check does not support library and subsystem models.
Check usage of Switch Case blocks and Switch Case Action Subsystem blocks
Not Run. Check does not support library and subsystem models.
Check usage of conditionally executed subsystems
Not Run. Check does not support library and subsystem models.
Check relational comparisons on floating-point signals
Not Run. Check does not support library and subsystem models.
Check usage of Relational Operator blocks
Not Run. Check does not support library and subsystem models.
Check usage of Logical Operator blocks
Not Run. Check does not support library and subsystem models.
Check usage of bitwise operations
Not Run. Check does not support library and subsystem models.
Check usage of Merge blocks
Not Run. Check does not support library and subsystem models.
Check data types for blocks with index signals
Not Run. Check does not support library and subsystem models.
Check for root Inports with missing range definitions
Not Run. Check does not support library and subsystem models.
Check for root Outports with missing range definitions
Not Run. Check does not support library and subsystem models.
Check usage of Assignment blocks
Not Run. Check does not support library and subsystem models.
Check model object names
Not Run. Check does not support library and subsystem models.
Check usage of Signal Routing blocks



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 MATLAB functions not supported for code generation
Not Run
Check state machine type of Stateflow charts
Not Run
Check Stateflow charts for ordering of states and transitions
Not Run
Check Stateflow debugging options
Not Run. Check does not support library and subsystem models.
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 usage of While Iterator blocks
Not Run
Check usage of For and While Iterator subsystems
Not Run

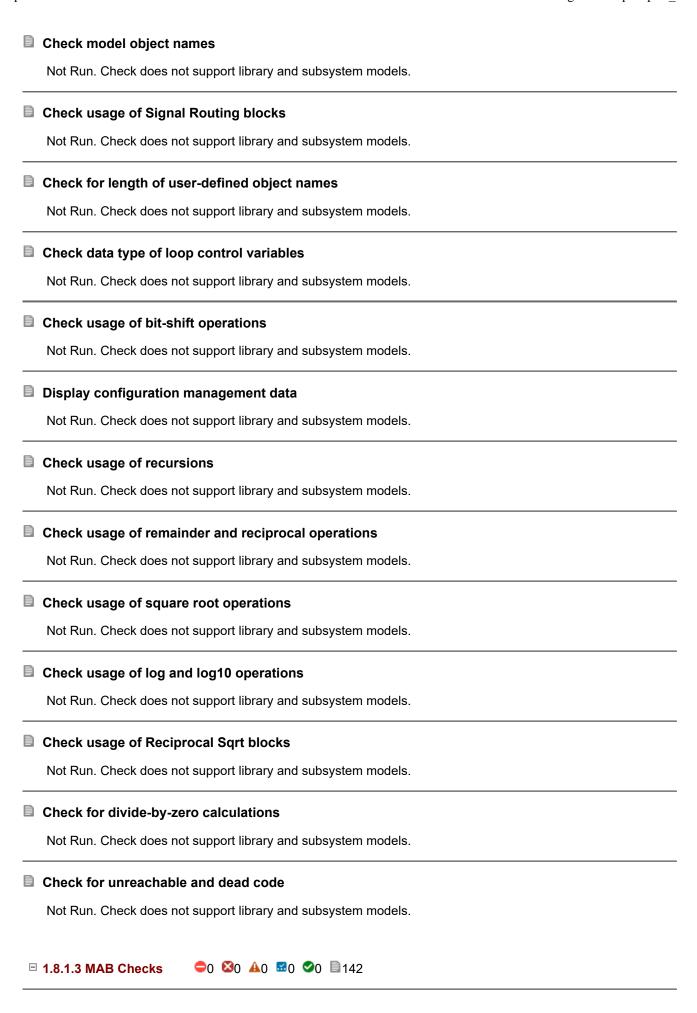
Check for blocks not recommended for C/C++ production code deployment Not Run
Check for inconsistent vector indexing methods Not Run
Check usage of variant blocks Not Run
Check for root Inports with missing properties Not Run
Check model file name Not Run
Check usage of lookup table blocks Not Run
Check safety-related solver settings for simulation time Not Run
Check Stateflow charts for uniquely defined data objects Not Run
Check global variables in graphical functions Not Run
Check usage of Gain blocks Not Run
Check for model elements that do not link to requirements Not Run
Check safety-related settings for hardware implementation Not Run. Check does not support library and subsystem models.
Check for parameter tunability ignored for referenced models Not Run. Check does not support library and subsystem models.
Check for disabled and parameterized library links

 Not Run
Check safety-related diagnostic settings for data store memory
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for saving
Not Run. Check does not support library and subsystem models.
Check safety-related model referencing settings
Not Run. Check does not support library and subsystem models.
Check safety-related solver settings for solver options
Not Run. Check does not support library and subsystem models.
Check safety-related solver settings for tasking and sample-time
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for solvers
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for sample time
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for logic signals
Not Run. Check does not support library and subsystem models.
Check safety-related block reduction optimization settings
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for application lifespan
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data initialization
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data type conversions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for division arithmetic exceptions
Not Run. Check does not support library and subsystem models.

☐ Check safety-related optimization settings for specified minimum and maximum values
Not Run. Check does not support library and subsystem models.
☐ Check safety-related code generation settings for comments
Not Run. Check does not support library and subsystem models.
☐ Check safety-related code generation interface settings
Not Run. Check does not support library and subsystem models.
☐ Check safety-related code generation settings for code style
Not Run. Check does not support library and subsystem models.
☐ Check safety-related code generation identifier settings
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for compatibility
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for parameters
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for Merge blocks
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for model initialization
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for data used for debugging
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for signal connectivity
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for bus connectivity
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings that apply to function-call connectivity
Not Run. Check does not support library and subsystem models.
☐ Check safety-related diagnostic settings for type conversions
Not Run. Check does not support library and subsystem models.

	Check safety-related diagnostic settings for model referencing
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for Stateflow
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for signal data
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for variants
	Not Run. Check does not support library and subsystem models.
	Display model metrics and complexity report
	Not Run
	Check for unconnected objects
	Not Run
	Check usage of relational operators in MATLAB Function blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of logical operators and functions in MATLAB Function blocks
	Not Run. Check does not support library and subsystem models.
	Check type and size of condition expressions
	Not Run. Check does not support library and subsystem models.
	Metrics for generated code complexity
	Not Run. Check does not support library and subsystem models.
	Check Stateflow charts for strong data typing
	Not Run. Check does not support library and subsystem models.
	Check assignment operations in Stateflow charts
_	Not Run. Check does not support library and subsystem models.
	Check Stateflow charts for unary operators
_	Not Run. Check does not support library and subsystem models.
	Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.
Check usage of For Iterator blocks
Not Run. Check does not support library and subsystem models.
Check usage of If blocks and If Action Subsystem blocks
Not Run. Check does not support library and subsystem models.
Check usage of Switch Case blocks and Switch Case Action Subsystem blocks
Not Run. Check does not support library and subsystem models.
Check usage of conditionally executed subsystems
Not Run. Check does not support library and subsystem models.
Check relational comparisons on floating-point signals
Not Run. Check does not support library and subsystem models.
Check usage of Relational Operator blocks
Not Run. Check does not support library and subsystem models.
Check usage of Logical Operator blocks
Not Run. Check does not support library and subsystem models.
Check usage of bitwise operations
Not Run. Check does not support library and subsystem models.
Check usage of Merge blocks
Not Run. Check does not support library and subsystem models.
Check data types for blocks with index signals
Not Run. Check does not support library and subsystem models.
Check for root Inports with missing range definitions
Not Run. Check does not support library and subsystem models.
Check for root Outports with missing range definitions
Not Run. Check does not support library and subsystem models.
Check usage of Assignment blocks
Not Run. Check does not support library and subsystem models.



Check for prohibited sink blocks Not Run
Check whether block names appear below blocks
Not Run
Check for mixing basic blocks and subsystems
Not Run
Check usage of tunable parameters in blocks
Not Run
Check model diagnostic parameters
Not Run. Check does not support library and subsystem models.
Check the display attributes of block names
Not Run
Check display for port blocks
Not Run
Check usage of Relational Operator blocks
Not Run
Check for nondefault block attributes
Not Run
Check signal line labels
Not Run
Check for propagated signal labels
Not Run. Check does not support library and subsystem models.
Check return value assignments in Stateflow graphical functions
Not Run
Check for pointers in Stateflow charts
Not Run
Check logical expressions in If blocks
Not Run

Check for Simulink diagrams using nonstandard display attributes
Not Run. Check does not support library and subsystem models.
Check input and output settings of MATLAB Functions
Not Run
Check MATLAB code for global variables
Not Run
Check use of Simulink in Stateflow charts
Not Run
Check use of default variants
Not Run
Check use of single variable variant conditionals
Not Run
Check usage of restricted variable names
Not Run
Check usage of character vector inside MATLAB Function block
Not Run
Check usage of recommended patterns for Switch/Case statements
Not Run
Check the number of function calls in MATLAB Function blocks
Not Run
Check lines of code in MATLAB Functions
Not Run
Check nested conditions in MATLAB Functions
Not Run
Check Implement logic signals as Boolean data (vs. double)
Not Run. Check does not support library and subsystem models.
Check usage of Discrete-Time Integrator block

 Not Run
Check default transition placement in Stateflow charts Not Run
Check for avoiding algebraic loops between subsystems Not Run
Check for missing ports in Variant Subsystems Not Run
Check for cascaded Unit Delay blocks Not Run
Check file names Not Run
Check folder names Not Run
Check port block names Not Run
Check subsystem names Not Run
Check character usage in block names Not Run
Check definition of signal labels Not Run
Check Signal name propagation Not Run. Check does not support library and subsystem models.
Check Signed Integer Division Rounding mode Not Run
Check usage of State names Not Run

Check usage of Stateflow comments
Not Run
Check execution timing for default transition path
Not Run
Check usage of Merge block
Not Run
Check usage of internal transitions in Stateflow states
Not Run
Check usage of transition conditions in Stateflow transitions
Not Run
Check block orientation
Not Run
Check usage of parentheses in Stateflow transitions
Not Run
Check usable number for first index
Not Run
Check character usage in signal names and bus names
Not Run
Check uniqueness of Stateflow State and Data names
Not Run
Check length of model file name
Not Run
Check length of folder name at every level of model path
Not Run
Check length of subsystem names
Not Run
Check length of Inport and Outport names
Not Run

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	Check length of signal and bus names
	Not Run
	Check length of block names
	Not Run
_	
	Check entry formatting in State blocks in Stateflow charts
	Not Run
	Check prohibited combination of state action and flow chart
	Not Run
	Check repetition of Action types
	Not Run
_	
	Check for unused data in Stateflow Charts
_	Not Run. Check does not support library and subsystem models.
	Check updates to variables used in state transition conditions
	Not Run
	Check condition actions and transition actions in Stateflow
	Not Run
	Check uniqueness of State names
	Not Run
_	
	Check if blocks are shaded in the model
	Not Run
	Check operator order of Product blocks
	Not Run
	Check icon shape of Logical Operator blocks
_	Not Run
_	110C FAULT
	Check if tunable block parameters are defined as named constants
	Not Run
	Check default/else case in Switch Case blocks and If blocks

	Not Run
	Check usage of internal transition
	Not Run
	Check usage of parallel states
	Not Run
	Check scope of data in parallel states
	Not Run
	Check indentation of code in Stateflow states
	Not Run
	Check for unexpected backtracking in state transitions
_	Not Run. Check does not support library and subsystem models.
	Check usage of Lookup Tables
_	Not Run
	Check for parentheses in Fcn block expressions
_	Not Run
	Check for usage of text inside states
_	Not Run
	Check for unconnected objects in Stateflow Charts
	Not Run
	Check position of label string in Stateflow transition
	Not Run
	Check duplication of Simulink Data names
	Not Run
	Check Model Description
_	Not Run
	Check Stateflow chart action language
	Not Run

Check character usage in Stateflow data names
Not Run
Check length of Stateflow data name
Not Run
Check diagnostic settings for incorrect calculation results
Not Run. Check does not support library and subsystem models.
Check usage of transitions to external states
Not Run
Check order of state action types
Not Run
Check usage of numeric literals in Stateflow
Not Run
Check position of comments in transition labels
Not Run
Check trigger signal names
Not Run
Check usage of unconditional transitions in flow charts
Not Run
Check for comments in unconditional transitions
Not Run
Check output data type of operation blocks
Not Run
Check terminal junctions in Stateflow
Not Run
Check if state action type 'exit' is used in the model
Not Run
Check for consistency in model element names
Not Run

	Check usage of graphical functions in Stateflow
	Not Run
	Check for sample time setting
	Not Run
	Check usage of Sum blocks
	Not Run
	Check Indexing Mode
	Not Run
	Check position of signal labels
	Not Run
	Check position of Inport and Outport blocks
	Not Run
	Check definition of Stateflow events
	Not Run
	Check for usage of Data Store Memory blocks
	Not Run
	Check for MATLAB expressions in Stateflow blocks
	Not Run
	Check definition of Stateflow data
	Not Run
	Check signal flow in model
	Not Run
	Check Stateflow transition appearance
_	Not Run
	Check position of conditional blocks and iterator blocks
	Not Run
	Check signal line connections

	Not Run
	Check usage of events in Stateflow charts
	Not Run
	Check Model font settings
	Not Run
	Check usage of Simulink functions in Stateflow
	Not Run
	Check for exclusive states in state machines
	Not Run
	Check for unconnected signal lines and blocks
	Not Run
	Check transitions in Stateflow flow charts
	Not Run
	Check scope of From and Goto blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Switch blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of unary minus operations in Stateflow charts
	Not Run. Check does not support library and subsystem models.
	Check usage of floating-point expressions in Stateflow charts
	Not Run. Check does not support library and subsystem models.
	Check usage of enumerated values
	Not Run. Check does not support library and subsystem models.
	Check for names of Stateflow ports and associated signals
_	Not Run. Check does not support library and subsystem models.
	Check settings for data ports in Multiport Switch blocks
	Not Run. Check does not support library and subsystem models.

Check input and output datatype for Switch blocks
Not Run. Check does not support library and subsystem models.
Check usage of fixed-point data type with non-zero bias
Not Run. Check does not support library and subsystem models.
Check signs of input signals in product blocks
 Not Run. Check does not support library and subsystem models.
Check type setting by data objects
Not Run. Check does not support library and subsystem models.
Check usage of the Saturation blocks
Not Run. Check does not support library and subsystem models.
Check prohibited comparison operation of logical type signals
 Not Run. Check does not support library and subsystem models.
Check usage of Memory and Unit Delay blocks
Not Run. Check does not support library and subsystem models.
Check character usage in parameter names
Not Run. Check does not support library and subsystem models.
Check length of parameter names
 Not Run. Check does not support library and subsystem models.
Check undefined initial output for conditional subsystems
 Not Run. Check does not support library and subsystem models.
Check comparison of floating point types in Simulink
 Not Run. Check does not support library and subsystem models.
Check unused data in Simulink Model
 Not Run. Check does not support library and subsystem models.
Check for implicit type casting in Stateflow
Not Run. Check does not support library and subsystem models.
Check for use of C-style comment symbols
Not Run. Check does not support library and subsystem models.

	Check Stateflow operators
	Not Run. Check does not support library and subsystem models.
	Check fundamental logical and numerical operations
	Not Run. Check does not support library and subsystem models.
	Check usage of vector and bus signals
	Not Run. Check does not support library and subsystem models.
	Check connections between structural subsystems
	Not Run. Check does not support library and subsystem models.
	Check for division by zero in Simulink
	Not Run. Check does not support library and subsystem models.
⊟	1.8.1.4 JMAAB Checks
	Check usage of tunable parameters in blocks
	Not Run
	Check use of single variable variant conditionals
	Not Run
	Check usage of character vector inside MATLAB Function block
	Not Run
	Check usage of Discrete-Time Integrator block
	Not Run
	Check default transition placement in Stateflow charts
	Not Run
	Check for avoiding algebraic loops between subsystems
	Not Run
	Check for missing ports in Variant Subsystems
	Not Run
	Check for cascaded Unit Delay blocks
	Not Run

	Check file names
	Not Run
	Check folder names
	Not Run
	Check port block names
	Not Run
	Check subsystem names
	Not Run
	Check character usage in block names
	Not Run
_	
	Check definition of signal labels
	Not Run
	Check Signal name propagation
	Not Run. Check does not support library and subsystem models.
	Check Signed Integer Division Rounding mode
	Not Run
	Check usage of State names
	Not Run
	Check usage of Stateflow comments
	Not Run
	Check execution timing for default transition path
	Not Run
	Check usage of Merge block
	Not Run
	Check usage of internal transitions in Stateflow states
	Not Run
	Check usage of transition conditions in Stateflow transitions
_	• • • • • • • • • • • • • • • • • • • •

 Not Run
Check block orientation Not Run
Check usage of parentheses in Stateflow transitions Not Run
Check usable number for first index Not Run
Check character usage in signal names and bus names Not Run
Check uniqueness of Stateflow State and Data names Not Run
Check length of model file name Not Run
Check length of folder name at every level of model path Not Run
Check length of subsystem names Not Run
Check length of Inport and Outport names Not Run
Check length of signal and bus names Not Run
Check length of block names Not Run
Check entry formatting in State blocks in Stateflow charts Not Run
Check prohibited combination of state action and flow chart Not Run

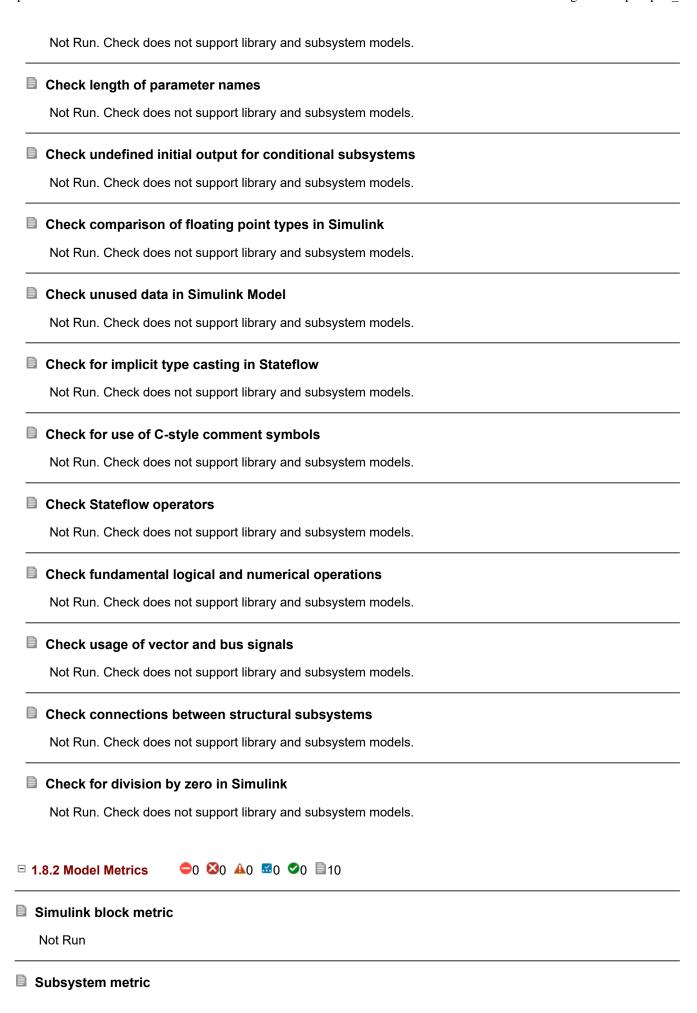
Check repetition of Action types Not Run
Check for unused data in Stateflow Charts
Not Run. Check does not support library and subsystem models.
Check updates to variables used in state transition conditions
Not Run
Check condition actions and transition actions in Stateflow
 Not Run
Check uniqueness of State names
Not Run
Check if blocks are shaded in the model
Not Run
Check operator order of Product blocks
Not Run
Check icon shape of Logical Operator blocks
Not Run
Check if tunable block parameters are defined as named constants
Not Run
Check default/else case in Switch Case blocks and If blocks
Not Run
Check usage of internal transition
Not Run
Check usage of parallel states
Not Run
Check scope of data in parallel states
Not Run
Check indentation of code in Stateflow states
Not Run

	Check for unexpected backtracking in state transitions
	Not Run. Check does not support library and subsystem models.
	Check usage of Lookup Tables
	Not Run
	Check for parentheses in Fcn block expressions
	Not Run
	Check for usage of text inside states
	Not Run
	Check for unconnected objects in Stateflow Charts
	Not Run
	Check position of label string in Stateflow transition
	Not Run
	Check duplication of Simulink Data names
	Not Run
	Check Model Description
	Not Run
	Check Stateflow chart action language
	Not Run
	Check character usage in Stateflow data names
	Not Run
	Check length of Stateflow data name
	Not Run
	Check diagnostic settings for incorrect calculation results
	Not Run. Check does not support library and subsystem models.
	Check usage of transitions to external states
_	Not Run
	Check order of state action types

Not Run
Check usage of numeric literals in Stateflow Not Run
Check position of comments in transition labels Not Run
Check trigger signal names Not Run
Check usage of unconditional transitions in flow charts Not Run
Check for comments in unconditional transitions Not Run
Check output data type of operation blocks Not Run
Check terminal junctions in Stateflow Not Run
Check if state action type 'exit' is used in the model Not Run
Check for consistency in model element names Not Run
Check usage of graphical functions in Stateflow Not Run
Check for sample time setting Not Run
Check usage of Sum blocks Not Run
Check Indexing Mode Not Run

Check position of signal labels Not Run
Check position of Inport and Outport blocks Not Run
Check definition of Stateflow events Not Run
Check for usage of Data Store Memory blocks Not Run
Check for MATLAB expressions in Stateflow blocks Not Run
Check definition of Stateflow data Not Run
Check signal flow in model Not Run
Check Stateflow transition appearance Not Run
Check position of conditional blocks and iterator blocks Not Run
Check signal line connections Not Run
Check usage of events in Stateflow charts Not Run
Check Model font settings Not Run
Check usage of Simulink functions in Stateflow Not Run
Check for exclusive states in state machines Not Run

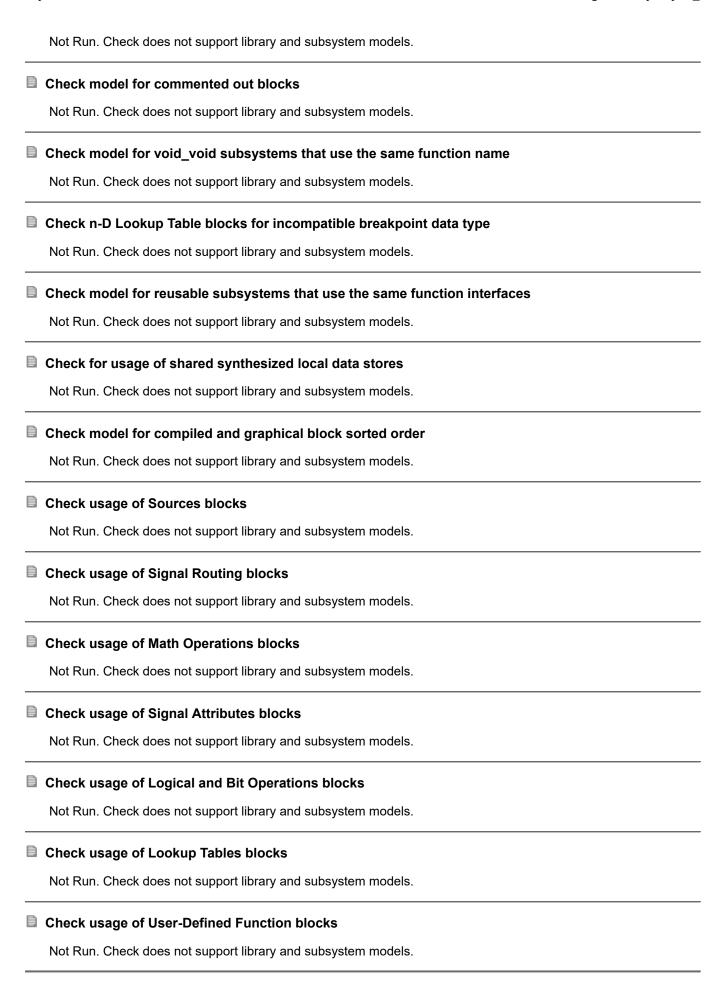
Check for unconnected signal lines and blocks Not Run
Check transitions in Stateflow flow charts
Not Run
Check scope of From and Goto blocks
Not Run. Check does not support library and subsystem models.
Check usage of floating-point expressions in Stateflow charts
Not Run. Check does not support library and subsystem models.
Check usage of enumerated values
Not Run. Check does not support library and subsystem models.
Check settings for data ports in Multiport Switch blocks
Not Run. Check does not support library and subsystem models.
Check input and output datatype for Switch blocks
Not Run. Check does not support library and subsystem models.
Check usage of fixed-point data type with non-zero bias
Not Run. Check does not support library and subsystem models.
Check signs of input signals in product blocks
Not Run. Check does not support library and subsystem models.
Check type setting by data objects
Not Run. Check does not support library and subsystem models.
Check usage of the Saturation blocks
Not Run. Check does not support library and subsystem models.
Check prohibited comparison operation of logical type signals
Not Run. Check does not support library and subsystem models.
Check usage of Memory and Unit Delay blocks
Not Run. Check does not support library and subsystem models.



	Not Run
	Library link metric
	Not Run
	Effective lines of MATLAB code metric
_	Not Run
	Stateflow chart objects metric
_	Not Run
	Lines of code for Stateflow blocks metric
_	Not Run
	Nondescriptive block name metric
_	Not Run
	Data and structure layer separation metric
_	Not Run
	Subsystem depth metric
_	Not Run
	Cyclomatic complexity metric
	Not Run. Check does not support library and subsystem models.
∃ 1.	9 Simulink Code Inspector
	Check code generation settings
	Not Run. Check does not support library and subsystem models.
	Check data import and export settings
	Not Run. Check does not support library and subsystem models.
	Check diagnostic settings
	Not Run. Check does not support library and subsystem models.
	Check hardware implementation settings
	Not Run. Check does not support library and subsystem models.
	Check math and data types settings

	Not Run. Check does not support library and subsystem models.
	Check solver settings
	Not Run. Check does not support library and subsystem models.
	Check for unsupported blocks
	Not Run
	Check for unconnected objects in the model
	Not Run. Check does not support library and subsystem models.
	Check system target file setting
	Not Run. Check does not support library and subsystem models.
	Check function specification setting
	Not Run. Check does not support library and subsystem models.
	Check for Stateflow machine data
	Not Run. Check does not support library and subsystem models.
	Check for Stateflow machine events
	Not Run. Check does not support library and subsystem models.
	Check the code generation folder structure for the model
	Not Run. Check does not support library and subsystem models.
	Check for unsupported Code Mapping settings
	Not Run. Check does not support library and subsystem models.
	Check model arguments for storage classes
	Not Run. Check does not support library and subsystem models.
	Check usage of Code in MATLAB Functions
	Not Run. Check does not support library and subsystem models.
	Check MATLAB Code Analyzer messages
	Not Run. Check does not support library and subsystem models.
	Check storage class for workspace variables
_	Not Run. Check does not support library and subsystem models.

	Not Run. Check does not support library and subsystem models.
_	
	Check for usage of fixed-point instrumentation
	Not Run. Check does not support library and subsystem models.
	Check for usage of synthesized local data stores
	Not Run. Check does not support library and subsystem models.
	Check Loop unrolling threshold setting
	Not Run. Check does not support library and subsystem models.
	Check usage of global data stores
	Not Run. Check does not support library and subsystem models.
	Check global data stores' name shadow
	Not Run. Check does not support library and subsystem models.
	Check destinations of If and Switchcase blocks
	Not Run. Check does not support library and subsystem models.
	Check for root Outport blocks that have non-auto storage class
	Not Run. Check does not support library and subsystem models.
	Check for Terminator blocks that connect to Model block outports
	Not Run. Check does not support library and subsystem models.
	Check for unsupported propagation of initial condition values
	Not Run. Check does not support library and subsystem models.
	Check data type replacement names
	Not Run. Check does not support library and subsystem models.
	Check for multiple sample times in model used as a model reference target
	Not Run. Check does not support library and subsystem models.
	Check GetSet storage class for workspace variables
	Not Run. Check does not support library and subsystem models.

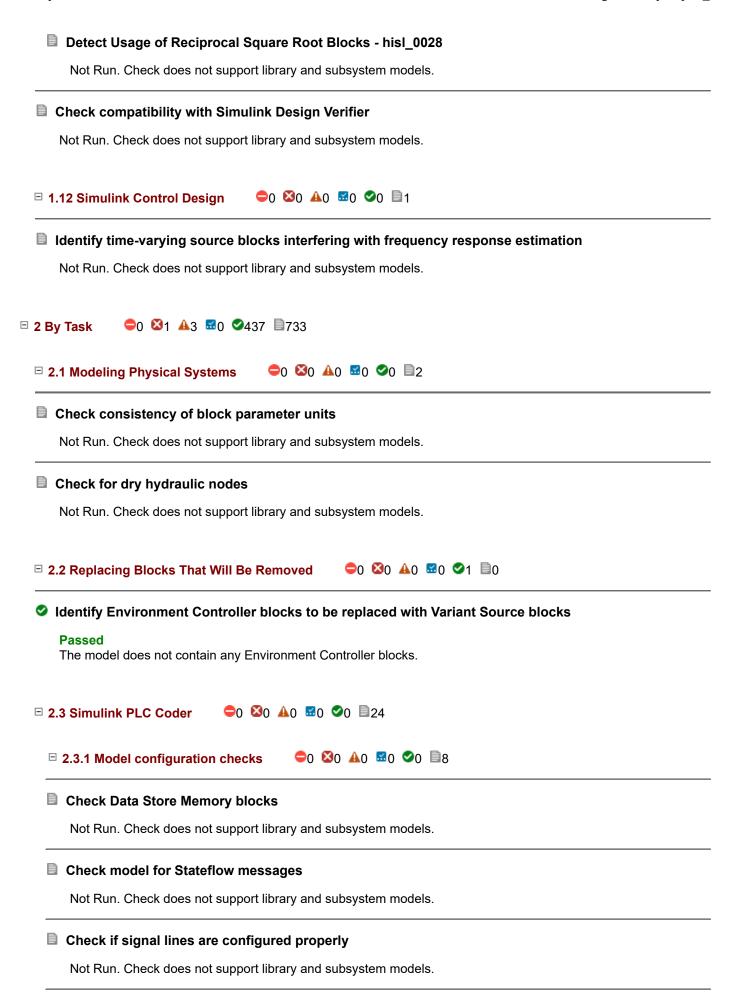


Check usage of Ports and Subsystems blocks
Not Run. Check does not support library and subsystem models.
Check usage of Discontinuities blocks
Not Run. Check does not support library and subsystem models.
Check usage of Sinks blocks
Not Run. Check does not support library and subsystem models.
Check usage of Discrete blocks
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow blocks
Not Run. Check does not support library and subsystem models.
Check usage of String blocks
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow charts
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow MATLAB action language
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow transitions
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow junctions
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow data
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow events
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Check usage of Stateflow states
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow graphical functions

Not Run. Check does not support library and subsystem models.

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Check usage of MATLAB Function Blocks Not Run. Check does not support library and subsystem models. Check usage of Data in MATLAB Functions Not Run. Check does not support library and subsystem models. Check usage of root Outport blocks Not Run. Check does not support library and subsystem models. Check usage of buses Not Run. Check does not support library and subsystem models. Check usage of shared utilities Not Run. Check does not support library and subsystem models. Check for sample times in the model Not Run. Check does not support library and subsystem models. Check conditional input branch execution setting Not Run. Check does not support library and subsystem models. 1.10 Requirements Toolbox O O O O O O O O O O O O O		Check usage of Stateflow truth tables
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Check conditional input branch execution setting Not Run. Check does not support library and subsystem models. 1.10 Requirements Toolbox		Check for sample times in the model
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1.10 Requirements Toolbox □ 1.10.1 Requirements Consistency □ 1.10.1 Requirements links with missing documents Not Run. Check does not support library and subsystem models. □ 1.10.1 Requirements links with missing documents Not Run. Check does not support library and subsystem models. □ 1.10.1 Requirements links with missing documents Not Run. Check does not support library and subsystem models. □ 1.10.1 Requirements Consistency □ 1.10.1		Check conditional input branch execution setting
□ 1.10.1 Requirements Consistency □ 30 ♣0 №0 ●0 ■4 □ Identify requirement links with missing documents Not Run. Check does not support library and subsystem models. □ Identify requirement links that specify invalid locations within documents Not Run. Check does not support library and subsystem models. □ Identify selection-based links having description fields that do not match their requirements document text Not Run. Check does not support library and subsystem models. □ Identify requirement links with path type inconsistent with preferences		Not Run. Check does not support library and subsystem models.
□ 1.10.1 Requirements Consistency □ 30 ♣0 №0 ●0 ■4 □ Identify requirement links with missing documents Not Run. Check does not support library and subsystem models. □ Identify requirement links that specify invalid locations within documents Not Run. Check does not support library and subsystem models. □ Identify selection-based links having description fields that do not match their requirements document text Not Run. Check does not support library and subsystem models. □ Identify requirement links with path type inconsistent with preferences	_	
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Identify requirement links with path type inconsistent with preferences		
		Not Run. Check does not support library and subsystem models.
Not Run. Check does not support library and subsystem models.	-	Identify requirement links with path type inconsistent with preferences
		Not Run. Check does not support library and subsystem models.

1.11.1 Design Error Detection
Detect Dead Logic
 Not Run. Check does not support library and subsystem models.
Detect Out Of Bound Array Access
 Not Run. Check does not support library and subsystem models.
Detect Division By Zero
Not Run. Check does not support library and subsystem models.
Detect Integer Overflow
Not Run. Check does not support library and subsystem models.
Detect Non-finite and NaN Floating-point Values
Not Run. Check does not support library and subsystem models.
Detect Subnormal Floating-point Values
Not Run. Check does not support library and subsystem models.
Detect Specified Minimum and Maximum Value Violations
Not Run. Check does not support library and subsystem models.
Detect Data Store Access Violations
Not Run. Check does not support library and subsystem models.
Detect Block Input Range Violations
Not Run. Check does not support library and subsystem models.
Detect Usage of remainder and reciprocal operations - hisl_0002
Not Run. Check does not support library and subsystem models.
Detect Usage of square root operations - hisl_0003
Not Run. Check does not support library and subsystem models.
Detect Usage of log and log10 operations - hisl_0004
Not Run. Check does not support library and subsystem models.

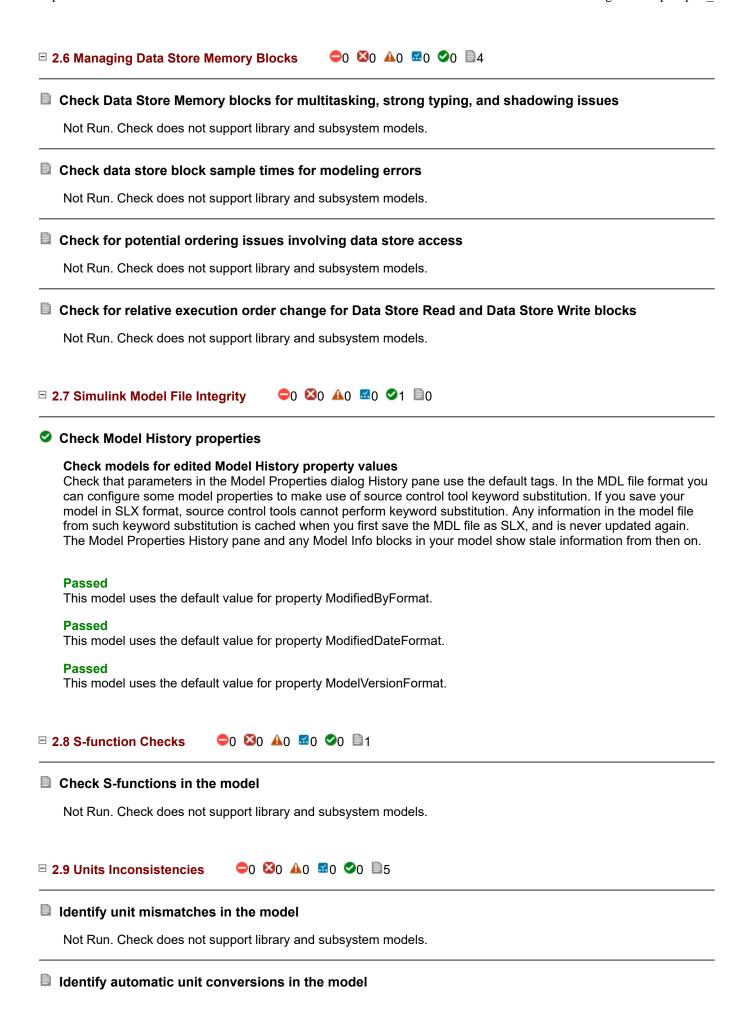


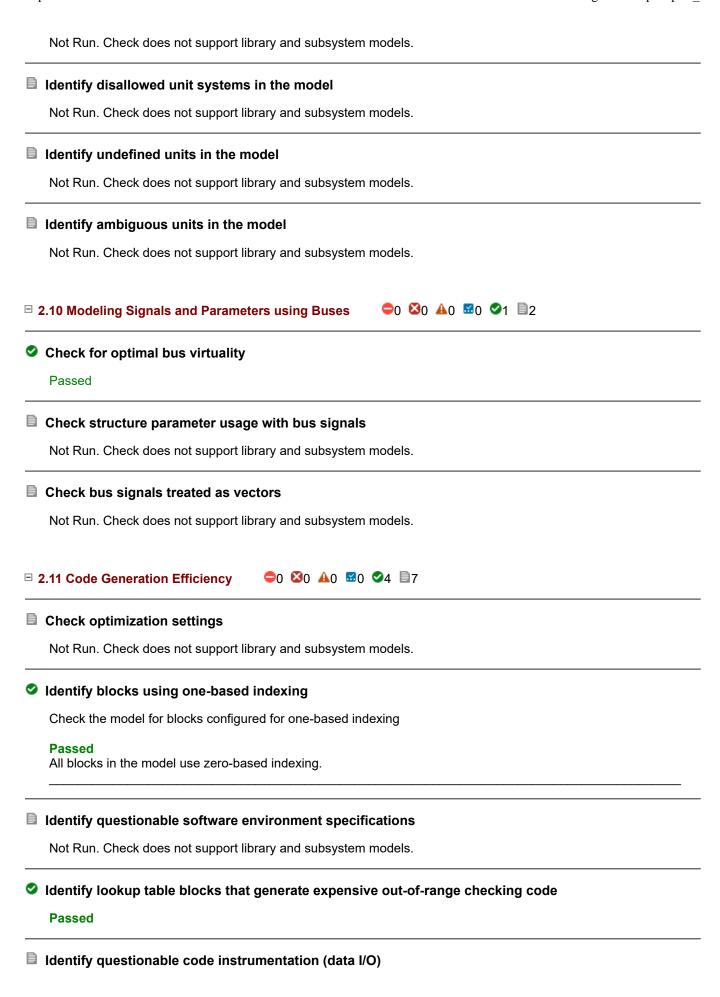
B	Check if model uses row major algorithms
	Not Run. Check does not support library and subsystem models.
B	Chack madel mask negerators
	Check model mask parameters Net Burn Check does not support library and subsystem models
_	Not Run. Check does not support library and subsystem models.
	Check if model uses machine parented data
	Not Run. Check does not support library and subsystem models.
	Check if model uses custom code
	Not Run. Check does not support library and subsystem models.
	Check model tunable parameters
	Not Run. Check does not support library and subsystem models.
=	2.3.2 Checks for blocks and block settings
	Check if model uses event based blocks
	Not Run. Check does not support library and subsystem models.
	Check if model uses probe blocks
	Not Run. Check does not support library and subsystem models.
	Check if model uses environment controller blocks
	Not Run. Check does not support library and subsystem models.
	Check Stateflow chart update
	Not Run. Check does not support library and subsystem models.
	Check issues with integrator blocks
	Not Run. Check does not support library and subsystem models.
	Check if model uses unsupported blocks
	Not Run. Check does not support library and subsystem models.
	Check if model can generate testbench
	Not Run. Check does not support library and subsystem models.
	Check function packaging configuration
	Not Run. Check does not support library and subsystem models.

Check trigonometric blocks Not Run. Check does not support library and subsystem models. □ 2.3.3 Industry standard checks **○**0 **△**0 **△**0 **○**0 **□**7 Define the names to avoid Not Run. Check does not support library and subsystem models. Define the use of case (capitals) Not Run. Check does not support library and subsystem models. Define the maximum variable name length Not Run. Check does not support library and subsystem models. Comments must describe the intention of the code Not Run. Check does not support library and subsystem models. Avoid nested comments Not Run. Check does not support library and subsystem models. Define maximum number of input/output/in-out variables of a POU Not Run. Check does not support library and subsystem models. Define type prefixes for variables (if used) Not Run. Check does not support library and subsystem models. **○**0 **△**0 **△**0 **○**0 **□**1 **□** 2.4 Simulation Accuracy Check for non-continuous signals driving derivative ports Not Run. Check does not support library and subsystem models. □ 2.5 Simulation Runtime Accuracy Diagnostics **○**0 **△**0 **△**0 **○**0 **○**2 Runtime diagnostics for S-functions Not Run. Check does not support library and subsystem models. Check if Read/Write diagnostics are enabled for Data Store blocks

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Not Run. Check does not support library and subsystem models.





Not Run. Check does not support library and subsystem models.

Check output types of logic blocks

Identify logic blocks that are outputting non-Boolean data types.

Passed

There are no logic blocks in the model or subsystem.

Check configuration parameters for generation of inefficient saturation code

Not Run. Check does not support library and subsystem models.

Identify blocks that generate expensive rounding code

Not Run. Check does not support library and subsystem models.

Identify questionable fixed-point operations

Not Run. Check does not support library and subsystem models.

ldentify blocks that generate expensive fixed-point and saturation code

Not Run. Check does not support library and subsystem models.

Identify blocks generating inefficient algorithms

Passed

No inefficient algorithms found in the model.

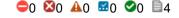
□ 2.12 Modeling Single-Precision Systems



Identify questionable operations for strict single-precision design

Not Run. Check does not support library and subsystem models.

□ 2.13 Migrating to Simplified Initialization mode



Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check usage of Outport blocks

Not Run. Check does not support library and subsystem models.

Check usage of Discrete-Time Integrator blocks

Not Run. Check does not support library and subsystem models.

Check model settings for migration to simplified initialization mode

Not Run. Check does not support library and subsystem models.

□ ;	□ 2.14 Row-Major Code Generation □0 ❷0 ♣0 ☑0 ❷1 □2	
9	Identify blocks generating inefficient algorithms	
	Passed No inefficient algorithms found in the model.	
	Check for blocks not supported for row-major code generation	
	Not Run. Check does not support library and subsystem models.	
	Identify TLC S-Functions with unset array layout	
	Not Run. Check does not support library and subsystem models.	
□ ;	2.15 Model Referencing	
	Check for model reference configuration mismatch	
	Not Run. Check does not support library and subsystem models.	
	Check diagnostic settings ignored during accelerated model reference simulation	
	Not Run. Check does not support library and subsystem models.	
	Check code generation identifier formats used for model reference	
	Not Run. Check does not support library and subsystem models.	
	Check for parameter tunability information ignored for referenced models	
	Not Run. Check does not support library and subsystem models.	
	Check for implicit signal resolution	
	Not Run. Check does not support library and subsystem models.	
	Check bus signals treated as vectors	
	Not Run. Check does not support library and subsystem models.	
	Check root model Inport block specifications	
	Not Run. Check does not support library and subsystem models.	
	Check for large number of function arguments from virtual bus across model reference boundary	
	Not Run. Check does not support library and subsystem models.	

	Identify disabled library links
	Passed
2	Identify parameterized library links
	Passed
2	Identify unresolved library links
	Passed
2	Identify configurable subsystem blocks in the model for converting to variant subsystem blocks
	Identify and upgrade Configurable Subsystem blocks in the model or subsystem level.
	Passed No configurable subsystem blocks found.
3	2.17 Data Transfer Efficiency
	Check Delay, Unit Delay and Zero-Order Hold blocks for rate transition
	Not Run. Check does not support library and subsystem models.
3 ;	2.18 Modeling Standards for MISRA C:2012
= ;	2.18 Modeling Standards for MISRA C:2012 ©0 ©0 ©0 ©0 ©5 ©8 Check configuration parameters for MISRA C:2012
	Check configuration parameters for MISRA C:2012
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models.
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment Passed
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment Passed Check for blocks not recommended for MISRA C:2012
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment Passed Check for blocks not recommended for MISRA C:2012 Passed
	Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. Check for blocks not recommended for C/C++ production code deployment Passed Check for blocks not recommended for MISRA C:2012 Passed Check for unsupported block names

19

	Passed All switch case expressions have default cases.
	Check for missing error ports in AUTOSAR receiver interfaces
	Not Run. Check does not support library and subsystem models.
	Check for bitwise operations on signed integers
	Not Run. Check does not support library and subsystem models.
	Check for recursive function calls
	Not Run. Check does not support library and subsystem models.
	Check for equality and inequality operations on floating-point values
	Not Run. Check does not support library and subsystem models.
	Check for missing const qualifiers in model functions
	Not Run. Check does not support library and subsystem models.
	Check integer word lengths
	Not Run. Check does not support library and subsystem models.
	Check bus object names that are used as bus element names
	Not Run. Check does not support library and subsystem models.
□ ;	2.19 Modeling Standards for Secure Coding (CERT C, CWE, ISO/IEC TS 17961) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	Check configuration parameters for secure coding standards
	Not Run. Check does not support library and subsystem models.
9	Check for blocks not recommended for C/C++ production code deployment
	Passed
9	Check for blocks not recommended for secure coding standards Passed
9	Check usage of Assignment blocks
	Passed
⊘	Check for switch case expressions without a default case
	Identify switch case expressions that do not have a default case.

Passed

All switch case expressions have default cases.

Check for bitwise operations on signed integers

Not Run. Check does not support library and subsystem models.

Check for equality and inequality operations on floating-point values

Not Run. Check does not support library and subsystem models.

Check integer word lengths

Not Run. Check does not support library and subsystem models.

Detect Dead Logic

Not Run. Check does not support library and subsystem models.

Detect Integer Overflow

Not Run. Check does not support library and subsystem models.

Detect Division By Zero

Not Run. Check does not support library and subsystem models.

Detect Out Of Bound Array Access

Not Run. Check does not support library and subsystem models.

Detect Specified Minimum and Maximum Value Violations

Not Run. Check does not support library and subsystem models.

□ 2.19.1 High-Integrity Systems



□ 2.19.1.1 Simulink



Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.

Check usage of remainder and reciprocal operations

Not Run. Check does not support library and subsystem models.

Check usage of log and log10 operations

Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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 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 data types for blocks with index signals

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

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 bit-shift operations

Not Run. Check does not support library and subsystem models.

□ 2.19.1.2 Configuration



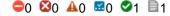
Check safety-related optimization settings for data type conversions

Not Run. Check does not support library and subsystem models.

Check safety-related optimization settings for division arithmetic exceptions

Not Run. Check does not support library and subsystem models.

□ 2.19.1.3 Naming



Check model file name

Identify inappropriate characters and length issues in model file name.

Passed

No issues found with model file name.

Check model object names

Not Run. Check does not support library and subsystem models.

□ **2.19.1.4 Code** □ **© 0 № 0 № 0 № 0 № 0 № 0**

Check configuration parameters for MISRA C:2012

Not Run. Check does not support library and subsystem models.

2.20 Upgrading to the Current Simulink Version



Open the Upgrade Advisor

Warning

To check for upgrade issues, open the Upgrade Advisor.

Recommended Action

Click the link below to close the Model Advisor and open the Upgrade Advisor for untitled1. Open the Upgrade Advisor

□ 2.21 Modeling Standards for DO-178C/DO-331



Display model version information

Not Run. Check does not support library and subsystem models.

□ 2.21.1 High-Integrity Systems



□ 2.21.1.1 Simulink



Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.

Check usage of remainder and reciprocal operations

Not Run. Check does not support library and subsystem models.

Check usage of square root operations

Not Run. Check does not support library and subsystem models.

Check usage of log and log10 operations

Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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

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

Not Run. Check does not support library and subsystem models.

Check usage of If blocks and If Action Subsystem blocks

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

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

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

☐ 2.21.1.2 Stateflow



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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

■ 2.21.1.3 MATLAB

○0 **△**0 **△**0 **○**7 **□**4

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.

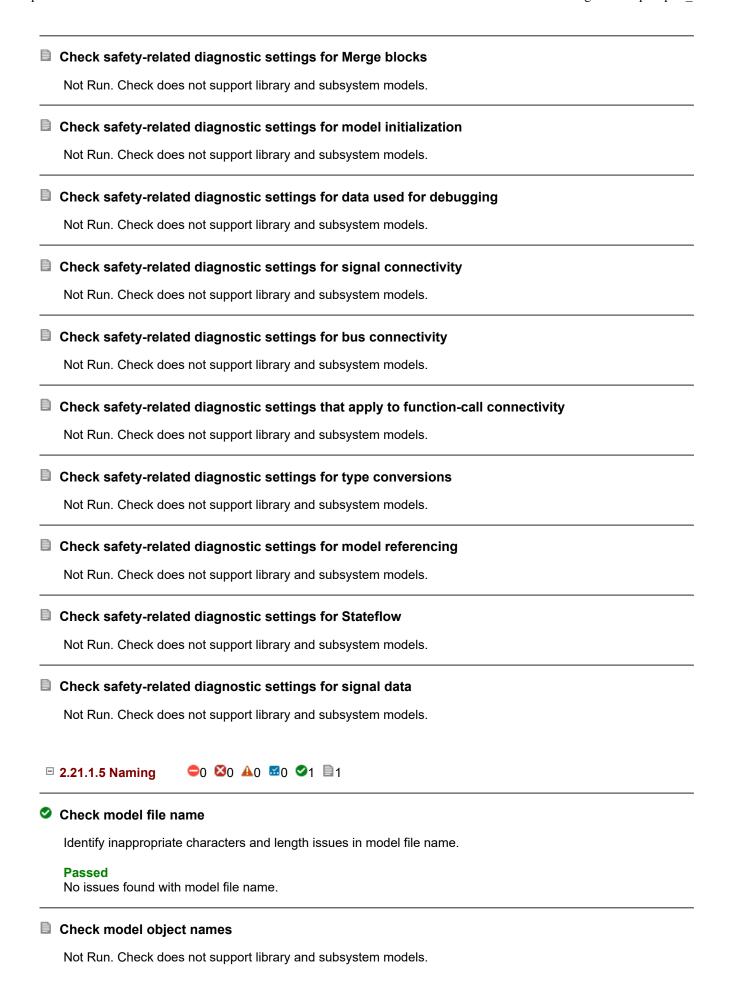
Check usage of relational operators in MATLAB Function blocks

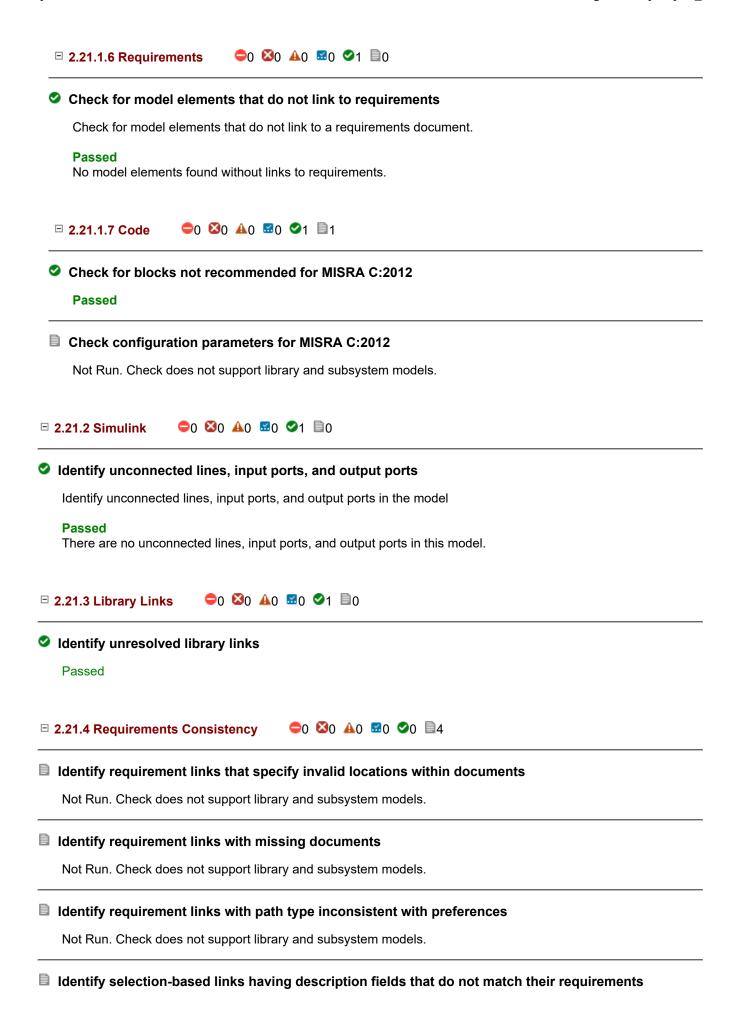
Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

	Not Run. Check does not support library and subsystem models.
	Check type and size of condition expressions
	Not Run. Check does not support library and subsystem models.
9	Check MATLAB functions not supported for code generation
	Identify MATLAB functions that are not supported for code generation.
	Passed All identified MATLAB functions are supported for code generation.
	Metrics for generated code complexity
	Not Run. Check does not support library and subsystem models.
- -	2.21.1.4 Configuration □0 ©0 ©0 ©1 ©31
	Check safety-related diagnostic settings for data store memory
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for saving
	Not Run. Check does not support library and subsystem models.
	Check safety-related model referencing settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for comments
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation interface settings
	Not Run. Check does not support library and subsystem models.
9	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
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.

	Check safety-related diagnostic settings for solvers
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for sample time
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for logic signals
	Not Run. Check does not support library and subsystem models.
	Check safety-related block reduction optimization settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for code style
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for application lifespan
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation identifier settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for data initialization
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for data type conversions
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for division arithmetic exceptions
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for specified minimum and maximum values
	Not Run. Check does not support library and subsystem models.
	Check safety-related settings for hardware implementation
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for compatibility
_	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for parameters
	Not Run. Check does not support library and subsystem models.





document text

Not Run. Check does not support library and subsystem models.

□ 2.22 Modeling Standards for DO-254 □ 0 △0 **△**0 **△**0 **△**0 **□**0 **○**19 **□**73

Display model version information

Not Run. Check does not support library and subsystem models.

□ **2.22.1 High-Integrity Systems** □ **©**0 **©**0 **№**0 **©**18 □32

Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

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

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

No blocks found that have disabled or parameterized library links.

□ 2.22.1.2 Stateflow



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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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 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 Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

■ 2.22.1.3 MATLAB

○0 **△**0 **△**0 **△**5 **□**2

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 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

Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

Not Run. Check does not support library and subsystem models.

Check MATLAB functions not supported for code generation

Identify MATLAB functions that are not supported for code generation.

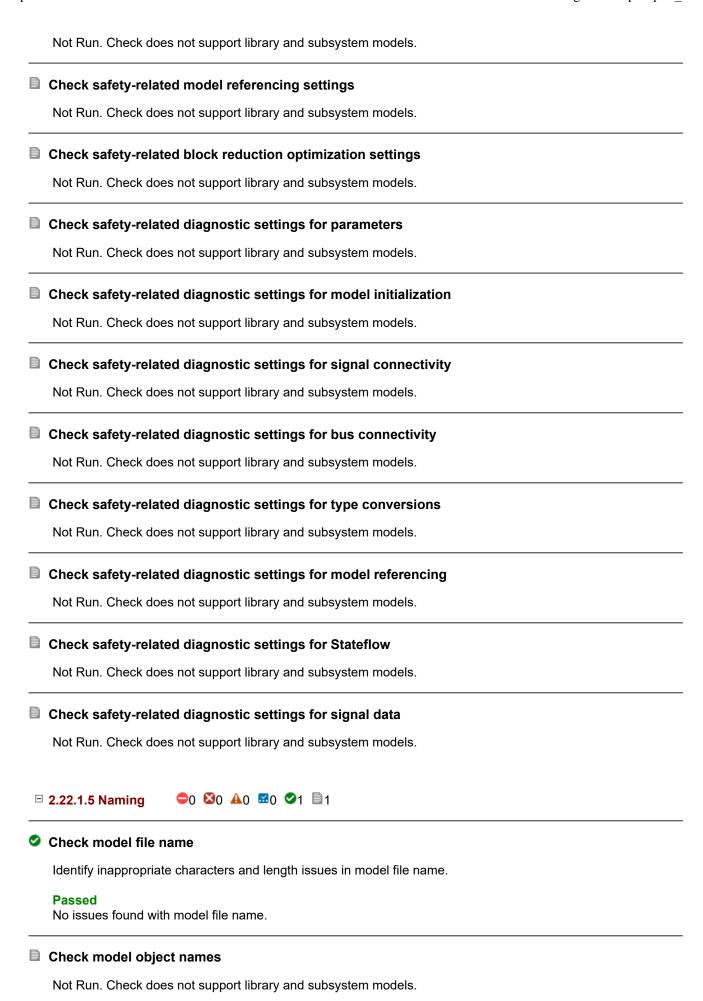
Passed

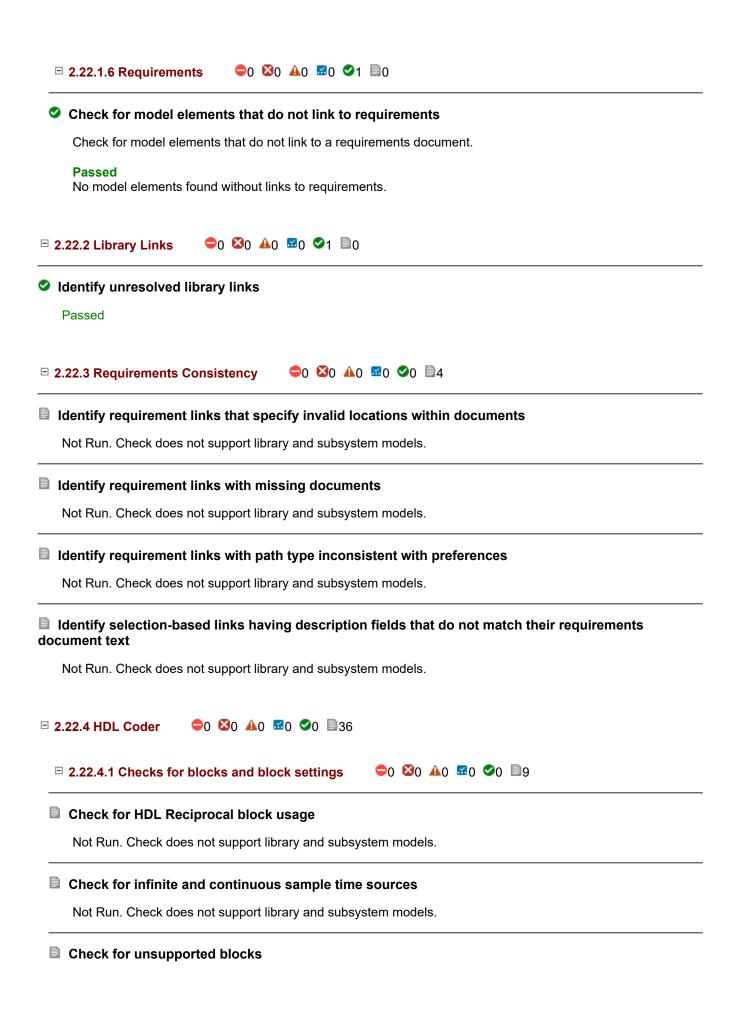
All identified MATLAB functions are supported for code generation.

☐ 2.22.1.4 Configuration

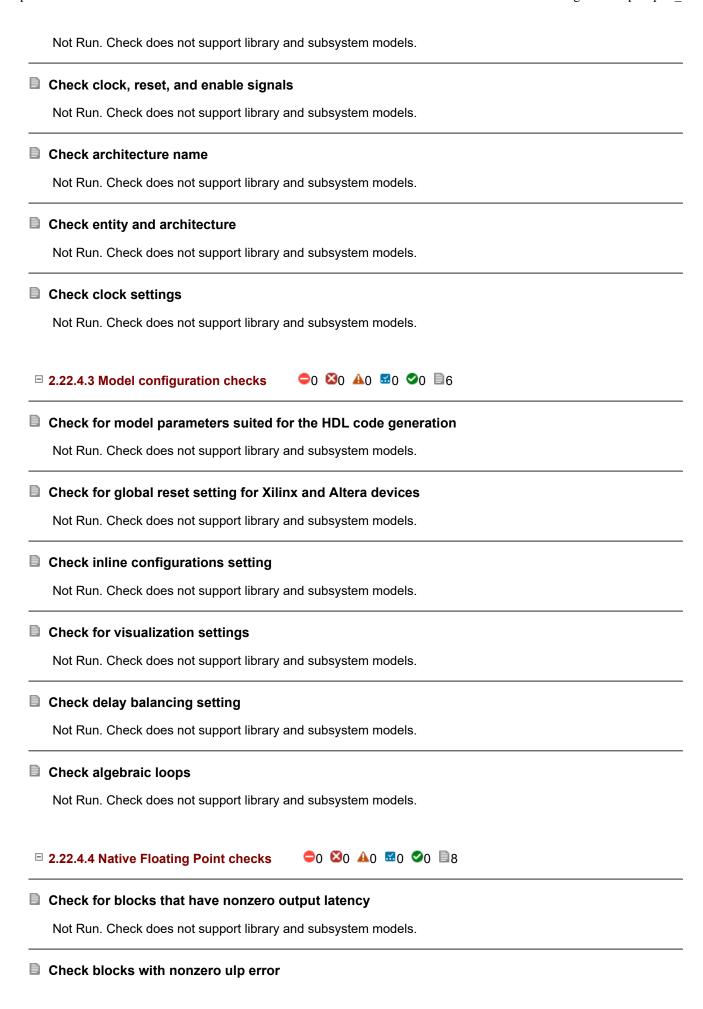
○0 **△**0 **△**0 **○**0 **□**11

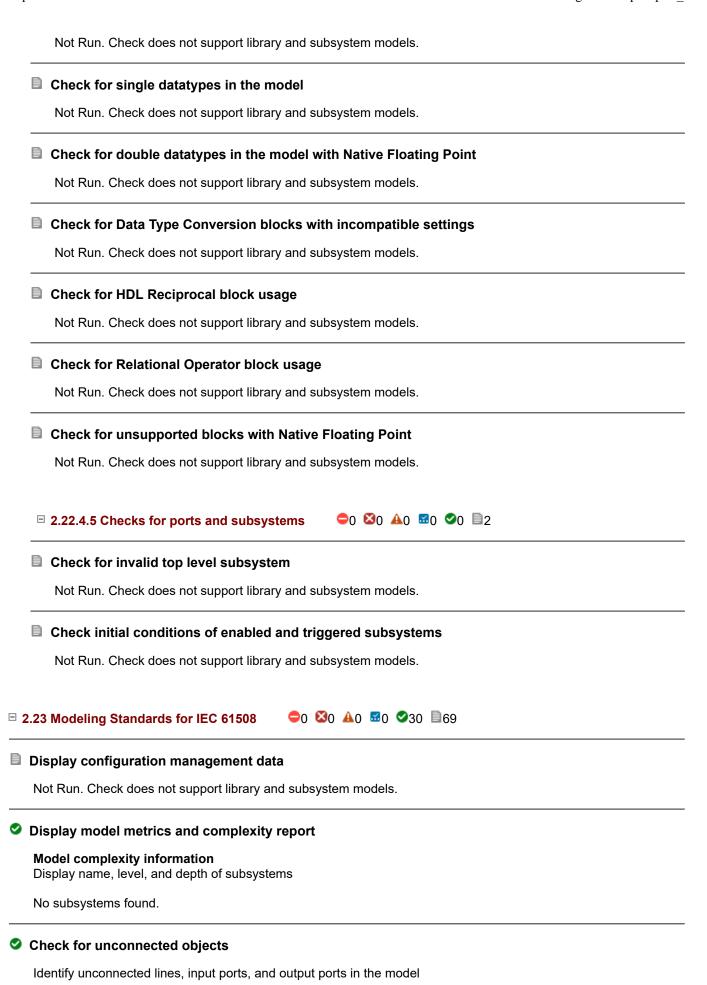
Check safety-related diagnostic settings for saving





	Not Run. Check does not support library and subsystem models.
	Check for MATLAB Function block settings
	Not Run. Check does not support library and subsystem models.
	Check for Stateflow chart settings
	Not Run. Check does not support library and subsystem models.
	Check for Trigonometric Function block for LUT-based approximation method
	Not Run. Check does not support library and subsystem models.
	Check for obsolete Unit Delay Enabled/Resettable blocks
	Not Run. Check does not support library and subsystem models.
	Check for unsupported storage class for signal objects
	Not Run. Check does not support library and subsystem models.
	Check for large matrix operations
	Not Run. Check does not support library and subsystem models.
= 	2.22.4.2 Industry standard checks
	Check file extension
	Not Run. Check does not support library and subsystem models.
	Check naming conventions
_	Not Run. Check does not support library and subsystem models.
	Check top-level subsystem/port names
_	Not Run. Check does not support library and subsystem models.
	Check module/entity names
	Not Run. Check does not support library and subsystem models.
	Check package file names
_	Not Run. Check does not support library and subsystem models.
	Check signal and port names
_	Not Run. Check does not support library and subsystem models.
	Check generics





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

□ **2.23.1.1 Simulink** □ **2.00 2.10** □ **2.20** □ **2.10**

Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.

Check usage of remainder and reciprocal operations

Not Run. Check does not support library and subsystem models.

Check usage of square root operations

Not Run. Check does not support library and subsystem models.

Check usage of log and log10 operations

Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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

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

Not Run. Check does not support library and subsystem models.

Check usage of If blocks and If Action Subsystem blocks

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

Check global variables in graphical functions

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

Daeend

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

Check usage of Gain blocks

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

□ 2.23.1.2 Stateflow □0 ☎0 ☎0 ☎0 ♂7 □5

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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

■ 2.23.1.3 MATLAB



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.

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

Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

Not Run. Check does not support library and subsystem models.

Check type and size of condition expressions

Not Run. Check does not support library and subsystem models.

Check MATLAB functions not supported for code generation

Identify MATLAB functions that are not supported for code generation.

Passed

All identified MATLAB functions are supported for code generation.

Metrics for generated code complexity

Not Run. Check does not support library and subsystem models.

□ **2.23.1.4 Configuration** □ **2.23.1.4 Configur**

Check safety-related diagnostic settings for data store memory

Not Run. Check does not support library and subsystem models.

	Check safety-related diagnostic settings for saving
	Not Run. Check does not support library and subsystem models.
	Check safety-related model referencing settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for comments
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation interface settings
	Not Run. Check does not support library and subsystem models.
9	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
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for solvers
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for sample time
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for logic signals
	Not Run. Check does not support library and subsystem models.
	Check safety-related block reduction optimization settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for code style
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for application lifespan
	Not Run. Check does not support library and subsystem models.
_	

Check safety-related code generation identifier settings
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data initialization
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data type conversions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for division arithmetic exceptions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for specified minimum and maximum values
Not Run. Check does not support library and subsystem models.
Check safety-related settings for hardware implementation
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for compatibility
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for parameters
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for Merge blocks
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for model initialization
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for data used for debugging
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for signal connectivity
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for bus connectivity
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings that apply to function-call connectivity
Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for type conversions Not Run. Check does not support library and subsystem models. Check safety-related diagnostic settings for model referencing Not Run. Check does not support library and subsystem models. Check safety-related diagnostic settings for Stateflow Not Run. Check does not support library and subsystem models. Check safety-related diagnostic settings for signal data Not Run. Check does not support library and subsystem models. **○**0 🚨0 🗚0 🚾0 🛂1 🗎1 **□** 2.23.1.5 Naming Check model file name Identify inappropriate characters and length issues in model file name. **Passed** No issues found with model file name. Check model object names Not Run. Check does not support library and subsystem models. **○**0 **△**0 **△**0 **○**1 **□**0 **□** 2.23.1.6 Requirements Check for model elements that do not link to requirements Check for model elements that do not link to a requirements document. **Passed** No model elements found without links to requirements. **○**0 **△**0 **△**0 **○**1 **□**1 □ 2.23.1.7 Code Check for blocks not recommended for MISRA C:2012 **Passed** Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. **□ 2.24 Modeling Standards for IEC 62304 ○**0 **△**0 **△**0 **○**30 **○**69

Display configuration management data

Not Run. Check does not support library and subsystem models.

Display model metrics and complexity report

Model complexity information

Display name, level, and depth of subsystems

No subsystems found.

Check for unconnected objects

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.

□ 2.24.1 High-Integrity Systems



□ 2.24.1.1 Simulink



Check usage of Abs blocks

Not Run. Check does not support library and subsystem models.

Check usage of remainder and reciprocal operations

Not Run. Check does not support library and subsystem models.

Check usage of square root operations

Not Run. Check does not support library and subsystem models.

Check usage of log and log10 operations

Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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

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

Not Run. Check does not support library and subsystem models.

■ Check usage of If blocks and If Action Subsystem blocks

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

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

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

■ Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

□ 2.24.1.2 Stateflow



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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

Not Run. Check does not support library and subsystem models.

Check type and size of condition expressions

Not Run. Check does not support library and subsystem models.

Check MATLAB functions not supported for code generation

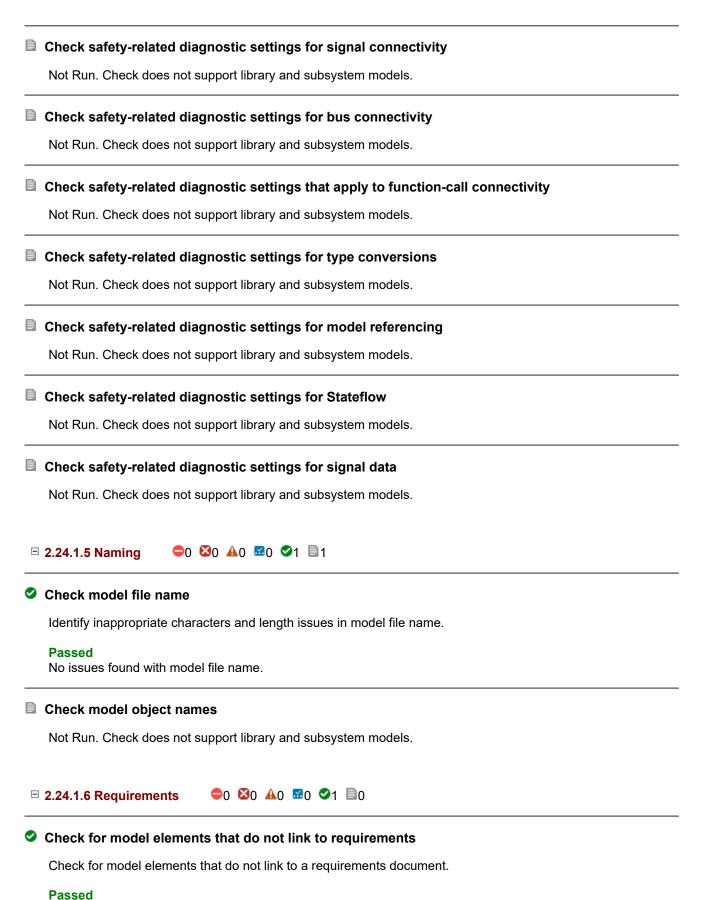
Identify MATLAB functions that are not supported for code generation.

Passed

All identified MATLAB functions are supported for code generation.

	Metrics for generated code complexity Not Run. Check does not support library and subsystem models.
⊟	2.24.1.4 Configuration □0 □0 □0 □0 □0 □0 □0 □0
	Check safety-related diagnostic settings for data store memory
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for saving
	Not Run. Check does not support library and subsystem models.
	Check safety-related model referencing settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for comments
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation interface settings
	Not Run. Check does not support library and subsystem models.
9	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
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for solvers
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for sample time
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for logic signals
	Not Run. Check does not support library and subsystem models.

Check safety-related block reduction optimization settings
Not Run. Check does not support library and subsystem models.
Check safety-related code generation settings for code style
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for application lifespan
Not Run. Check does not support library and subsystem models.
Check safety-related code generation identifier settings
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data initialization
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data type conversions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for division arithmetic exceptions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for specified minimum and maximum values
Not Run. Check does not support library and subsystem models.
Check safety-related settings for hardware implementation
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for compatibility
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for parameters
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for Merge blocks
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for model initialization
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for data used for debugging
Not Run. Check does not support library and subsystem models.



No model elements found without links to requirements.

	Check for blocks not recommended for MISRA C:2012 Passed
	Check configuration parameters for MISRA C:2012
	Not Run. Check does not support library and subsystem models.
⊒ 2.	25 Modeling Standards for ISO 26262
	Display configuration management data
	Not Run. Check does not support library and subsystem models.
Ø [Display model metrics and complexity report
	Model complexity information Display name, level, and depth of subsystems
	No subsystems found.
② (Check for unconnected objects
	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.
⊟	2.25.1 High-Integrity Systems □0 □0 □0 □0 □0 □0 □0
_	□ 2.25.1.1 Simulink □ 2.26 □ 2.26 □ 2.25.1.1 Simulink □ 2.26 □
	Check usage of Abs blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of remainder and reciprocal operations
	Not Run. Check does not support library and subsystem models.
	Check usage of square root operations
	Not Run. Check does not support library and subsystem models.
	Check usage of log and log10 operations
	Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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

No While Iterator blocks found that might cause infinite loops

Check usage of For and While Iterator subsystems

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

Not Run. Check does not support library and subsystem models.

Check usage of If blocks and If Action Subsystem blocks

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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.

No blocks found using inconsistent indexing modes.

Check data types for blocks with index signals

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

Check global variables in graphical functions

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

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

Check usage of Gain blocks

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

■ 2.25.1.3 MATLAB

○0 **△**0 **△**0 **○**7 **□**4

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

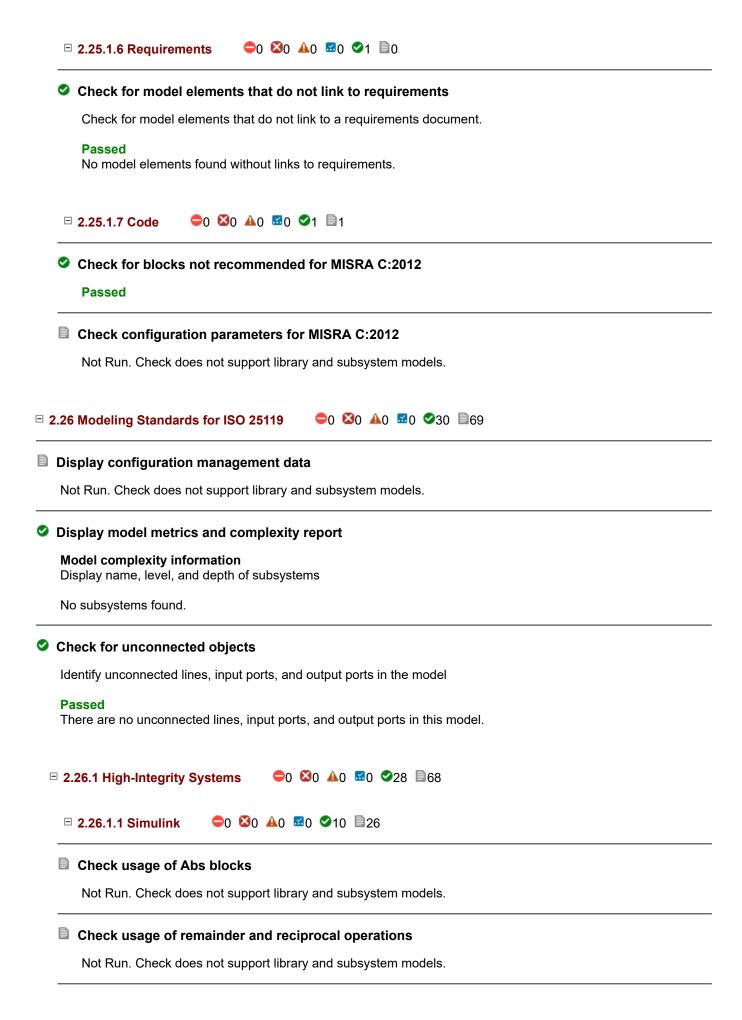
Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

	Not Run. Check does not support library and subsystem models.
	Check type and size of condition expressions
	Not Run. Check does not support library and subsystem models.
9	Check MATLAB functions not supported for code generation
	Identify MATLAB functions that are not supported for code generation.
	Passed All identified MATLAB functions are supported for code generation.
	Metrics for generated code complexity
	Not Run. Check does not support library and subsystem models.
⊟	2.25.1.4 Configuration
	Check safety-related diagnostic settings for data store memory
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for saving
	Not Run. Check does not support library and subsystem models.
	Check safety-related model referencing settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for comments
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation interface settings
	Not Run. Check does not support library and subsystem models.
9	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
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for solvers
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for sample time
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for logic signals
Not Run. Check does not support library and subsystem models.
Check safety-related block reduction optimization settings
Not Run. Check does not support library and subsystem models.
Check safety-related code generation settings for code style
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for application lifespan
Not Run. Check does not support library and subsystem models.
Check safety-related code generation identifier settings
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data initialization
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data type conversions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for division arithmetic exceptions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for specified minimum and maximum values
Not Run. Check does not support library and subsystem models.
Check safety-related settings for hardware implementation
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for compatibility
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for parameters
Not Run. Check does not support library and subsystem models.

	Check safety-related diagnostic settings for Merge blocks
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for model initialization
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for data used for debugging
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for signal connectivity
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for bus connectivity
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings that apply to function-call connectivity
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for type conversions
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for model referencing
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for Stateflow
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for signal data
	Not Run. Check does not support library and subsystem models.
_	2.25.1.5 Naming □0 □0 □0 □0 □1 □1
9	Check model file name
	Identify inappropriate characters and length issues in model file name.
	Passed No issues found with model file name.
	Check model object names
	Not Run. Check does not support library and subsystem models.



Check usage of square root operations

Not Run. Check does not support library and subsystem models.

Check usage of log and log10 operations

Not Run. Check does not support library and subsystem models.

Check usage of While Iterator blocks

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

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

Not Run. Check does not support library and subsystem models.

Check usage of If blocks and If Action Subsystem blocks

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of conditionally executed subsystems

Not Run. Check does not support library and subsystem models.

Check usage of Merge blocks

Not Run. Check does not support library and subsystem models.

Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

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

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

□ 2.26.1.2 Stateflow



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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

□ 2.26.1.3 MATLAB









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.

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.

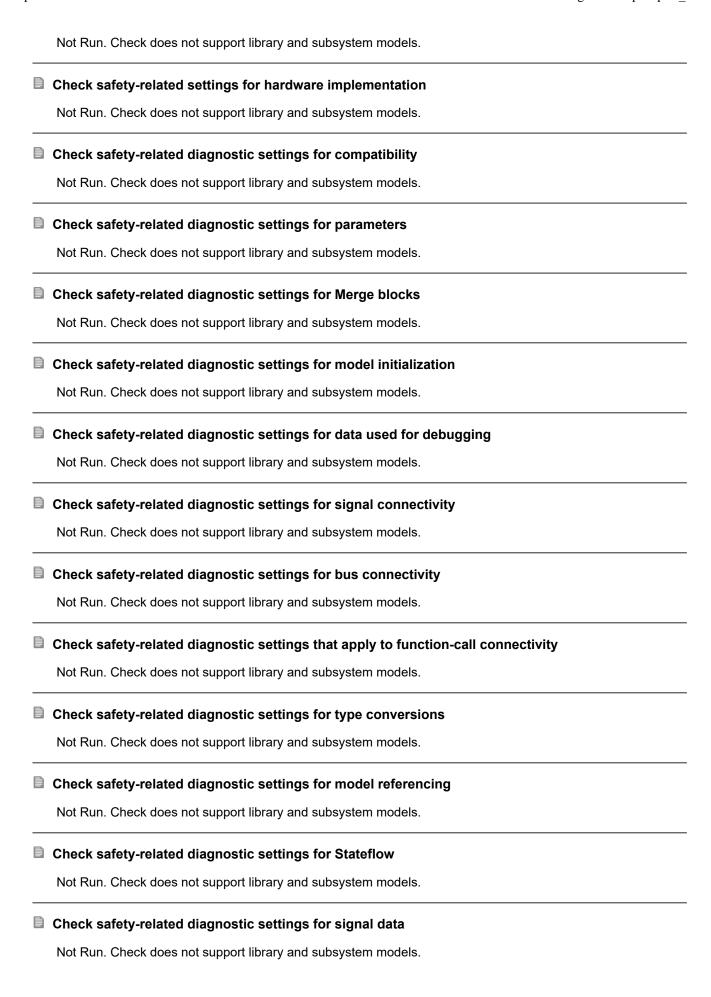
Passed

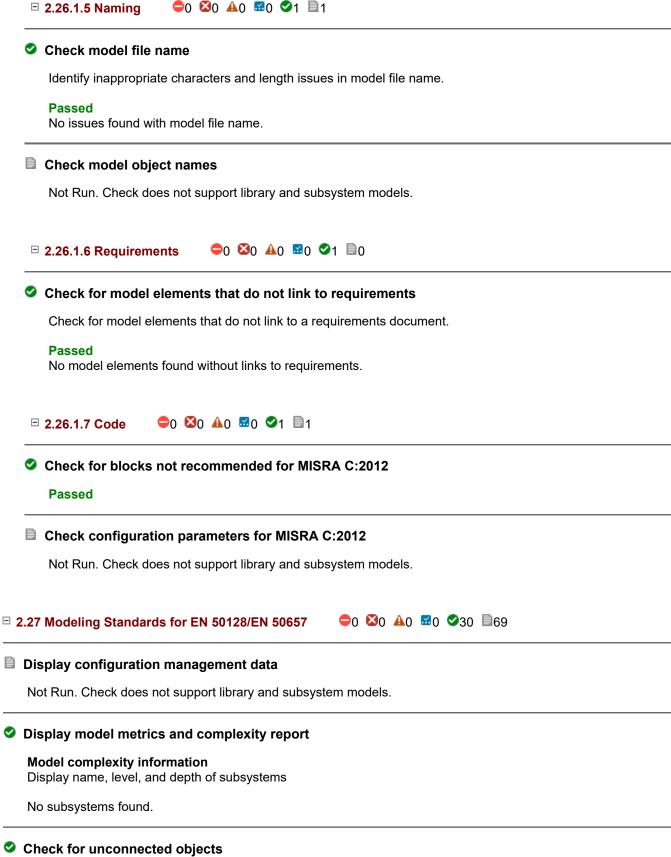
No inappropriate if/elseif/else patterns found.

	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	
	Not Run. Check does not support library and subsystem models.	
	Check usage of logical operators and functions in MATLAB Function blocks	
	Not Run. Check does not support library and subsystem models.	
	Check type and size of condition expressions	
	Not Run. Check does not support library and subsystem models.	
9	Check MATLAB functions not supported for code generation	
	Identify MATLAB functions that are not supported for code generation.	
	Passed All identified MATLAB functions are supported for code generation.	
	Metrics for generated code complexity	
	Not Run. Check does not support library and subsystem models.	
=	2.26.1.4 Configuration □0 □0 □0 □0 □0 □0 □0	
	Check safety-related diagnostic settings for data store memory	
	Not Run. Check does not support library and subsystem models.	
	Check safety-related diagnostic settings for saving	
	Not Run. Check does not support library and subsystem models.	
	Check safety-related model referencing settings	
	Not Run. Check does not support library and subsystem models.	
	Check safety-related code generation settings for comments	
_	Not Run. Check does not support library and subsystem models.	
	Check safety-related code generation interface settings	
	Not Run. Check does not support library and subsystem models.	

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
Not Run. Check does not support library and subsystem models.
Check safety-related solver settings for tasking and sample-time
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for solvers
Not Run. Check does not support library and subsystem models.
Check safety-related diagnostic settings for sample time
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for logic signals
Not Run. Check does not support library and subsystem models.
Check safety-related block reduction optimization settings
Not Run. Check does not support library and subsystem models.
Check safety-related code generation settings for code style
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for application lifespan
Not Run. Check does not support library and subsystem models.
Check safety-related code generation identifier settings
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data initialization
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for data type conversions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for division arithmetic exceptions
Not Run. Check does not support library and subsystem models.
Check safety-related optimization settings for specified minimum and maximum values

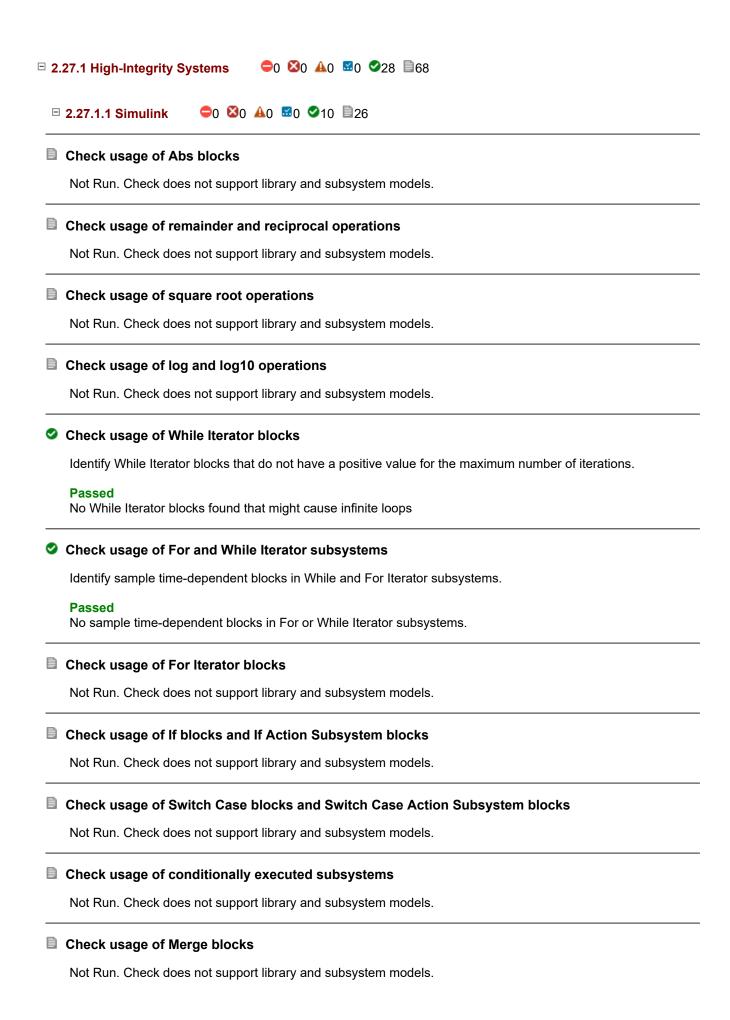




Identify unconnected lines, input ports, and output ports in the model

Passed

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



Check relational comparisons on floating-point signals

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of Logical Operator blocks

Not Run. Check does not support library and subsystem models.

Check usage of bitwise operations

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

Check usage of variant blocks

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

Passed

No variant blocks have "VariantActivationTime" set to 'code compile'.

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

Not Run. Check does not support library and subsystem models.

Check for root Inports with missing properties

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.

Passed

There are no Inport blocks in the top-level of the model with missing or inherited sample times, data types, or port dimensions

Check for root Inports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check for root Outports with missing range definitions

Not Run. Check does not support library and subsystem models.

Check usage of Reciprocal Sqrt blocks

Not Run. Check does not support library and subsystem models.

Check usage of Assignment blocks

Not Run. Check does not support library and subsystem models.

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

Identify Gain blocks with value which resolves to 1.

Passed

No Gain blocks found with value which resolves to 1.

Check for length of user-defined object names

Not Run. Check does not support library and subsystem models.

Check data type of loop control variables

Not Run. Check does not support library and subsystem models.

Check for divide-by-zero calculations

Not Run. Check does not support library and subsystem models.

Check for parameter tunability ignored for referenced models

Not Run. Check does not support library and subsystem models.

Check usage of bit-shift operations

Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for variants

Not Run. Check does not support library and subsystem models.

Check for disabled and parameterized library links

Identify disabled and parameterized library links in the model.

Passed

No blocks found that have disabled or parameterized library links.

Check for unreachable and dead code

Not Run. Check does not support library and subsystem models.

□ 2.27.1.2 Stateflow □ 0 № 0 № 0 № 0 № 7 □ 5

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 recursions

Not Run. Check does not support library and subsystem models.

Check Stateflow debugging options

Not Run. Check does not support library and subsystem models.

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

Not Run. Check does not support library and subsystem models.

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 assignment operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check Stateflow charts for unary operators

Not Run. Check does not support library and subsystem models.

□ 2.27.1.3 MATLAB



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

Not Run. Check does not support library and subsystem models.

Check usage of logical operators and functions in MATLAB Function blocks

Not Run. Check does not support library and subsystem models.

Check type and size of condition expressions

Not Run. Check does not support library and subsystem models.

Check MATLAB functions not supported for code generation

Identify MATLAB functions that are not supported for code generation.

Passed

All identified MATLAB functions are supported for code generation.

Metrics for generated code complexity

Not Run. Check does not support library and subsystem models.

□ **2.27.1.4 Configuration** □ **2.27.1.4 Configur**

Check safety-related diagnostic settings for data store memory

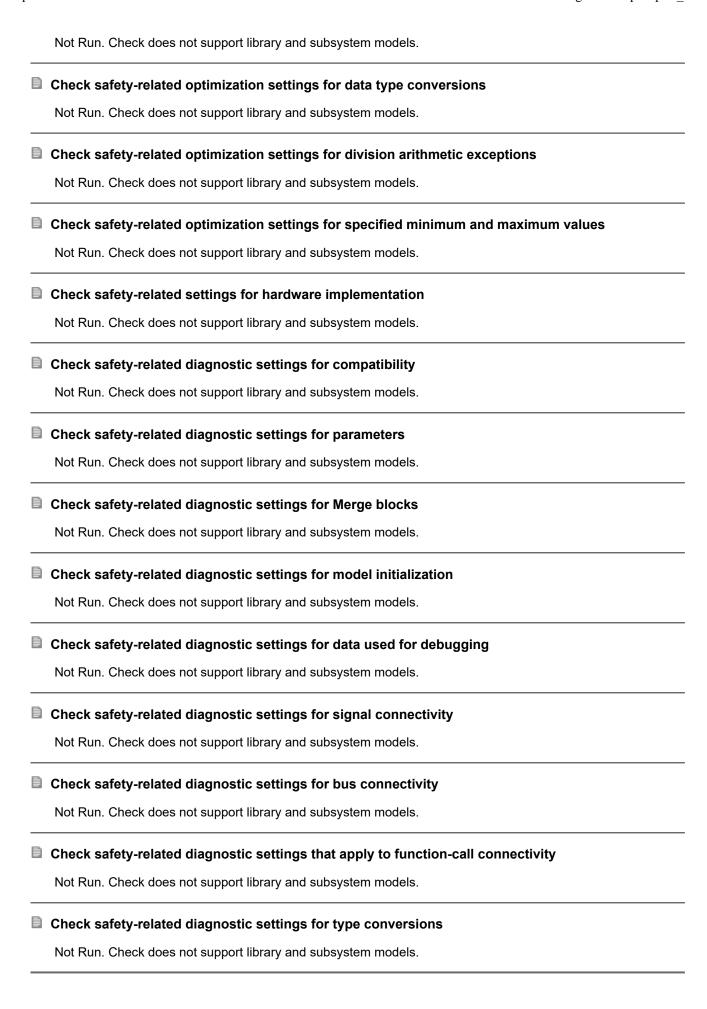
Not Run. Check does not support library and subsystem models.

Check safety-related diagnostic settings for saving

Not Run. Check does not support library and subsystem models.

Check safety-related model referencing settings

	Check safety-related code generation settings for comments
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation interface settings
	Not Run. Check does not support library and subsystem models.
9	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
	Not Run. Check does not support library and subsystem models.
	Check safety-related solver settings for tasking and sample-time
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for solvers
	Not Run. Check does not support library and subsystem models.
	Check safety-related diagnostic settings for sample time
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for logic signals
	Not Run. Check does not support library and subsystem models.
	Check safety-related block reduction optimization settings
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation settings for code style
	Not Run. Check does not support library and subsystem models.
	Check safety-related optimization settings for application lifespan
	Not Run. Check does not support library and subsystem models.
	Check safety-related code generation identifier settings
	Not Run. Check does not support library and subsystem models.



Check safety-related diagnostic settings for model referencing Not Run. Check does not support library and subsystem models. Check safety-related diagnostic settings for Stateflow Not Run. Check does not support library and subsystem models. Check safety-related diagnostic settings for signal data Not Run. Check does not support library and subsystem models. **○**0 **△**0 **△**0 **△**1 **□**1 **□** 2.27.1.5 Naming Check model file name Identify inappropriate characters and length issues in model file name. **Passed** No issues found with model file name. Check model object names Not Run. Check does not support library and subsystem models. **□** 2.27.1.6 Requirements **○**0 **△**0 **△**0 **△**1 **□**0 Check for model elements that do not link to requirements Check for model elements that do not link to a requirements document. **Passed** No model elements found without links to requirements. **○**0 **△**0 **△**0 **△**1 **□**1 **□** 2.27.1.7 Code Check for blocks not recommended for MISRA C:2012 **Passed** Check configuration parameters for MISRA C:2012 Not Run. Check does not support library and subsystem models. **□ 2.28 Model Metrics ○**0 **△**0 **△**0 **△**9 **□**1 **○**0 **△**0 **△**0 **△**7 **□**0 □ 2.28.1 Count Metrics Simulink block metric

Display number of blocks in the model or subsystem.

Passed

Component Blocks untitled1

Subsystem metric

Display number of Subsystems in the model or subsystem.

Passed

Component	Subsystems
untitled1	0

Library link metric

Display number of library links in the model or subsystem.

Passed

Component Library Links untitled1

Effective lines of MATLAB code metric

Display number of effective lines of MATLAB code. No metric data available. Nothing to report for this metric.

Passed

Stateflow chart objects metric

Display number of Stateflow objects in each chart. No metric data available. Nothing to report for this metric.

Passed

Lines of code for Stateflow blocks metric

Display number of code lines for Stateflow blocks. No metric data available. Nothing to report for this metric.

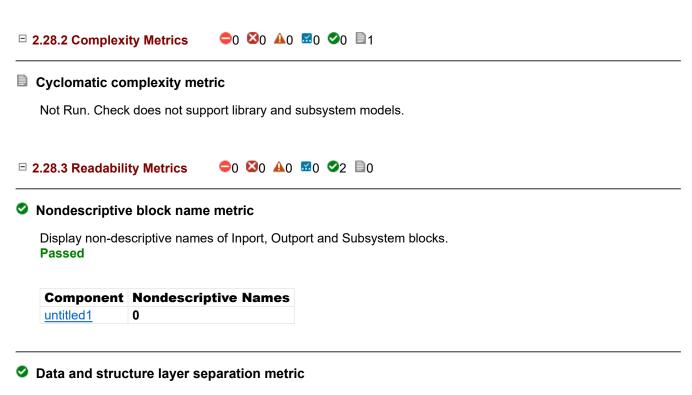
Passed

Subsystem depth metric

Display depth of subsystems in the model or subsystem.

Passed

Component	Subsystem Depth
untitled1	0



Display data and structure layer separation, defined by MAB modeling guideline db_0143. **Passed**





Check the model file name to ensure that the name complies with the recommended guidelines.

Passed

All files have correct names.

Check folder names

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

Check length of model file name

Passed

Model name is valid.

Check length of folder name at every level of model path

The model file name is: untitled1

Passed

Folder names are valid.

□ 2.29.1.2 Content □ 0 🐸 0 🚨 0 □ 12 □ 4

Check subsystem names

Passed

Check port block names

Passed

Check character usage in block names

Passed

Check length of subsystem names

Passed

Check length of block names

Passed

Check length of Inport and Outport names

Passed

Check character usage in signal names and bus names

Identify signal and bus names with invalid characters.

Passed

No invalid characters are used in signal and bus names.

Check character usage in parameter names

Not Run. Check does not support library and subsystem models.

Check length of signal and bus names

Check length of signal and bus names

Passed

All signal and bus names are valid.

Check length of parameter names

Not Run. Check does not support library and subsystem models.

Check character usage in Stateflow data names

Identify Stateflow data names with invalid characters.

Passed

No invalid characters are used in Stateflow data names.

Check length of Stateflow data name

Check if the length of Stateflow data names are within limit.

Passed

All Stateflow data names are valid.

Check duplication of Simulink Data names

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

Not Run. Check does not support library and subsystem models.

Check for unused data in Stateflow Charts

Not Run. Check does not support library and subsystem models.

Check usage of restricted variable names

Identify usage of reserved keywords in MATLAB Function blocks.

Passed

No variable names conflict with reserved keywords

□ **2.29.2 Simulink** □ **2.**

□ 2.29.2.1 Configuration Parameters □ 0 №0 №0 №0 №1 □3

Check Implement logic signals as Boolean data (vs. double)

Not Run. Check does not support library and subsystem models.

Check Signed Integer Division Rounding mode

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

Not Run. Check does not support library and subsystem models.

Check model diagnostic parameters

Not Run. Check does not support library and subsystem models.

□ 2.29.2.2 Diagram Appearance



Check for Simulink diagrams using nonstandard display attributes

Not Run. Check does not support library and subsystem models.

Check Model font settings

Identify blocks and charts with different font settings from input parameters.

Passed

Font settings of the blocks and charts and input parameters are same.

Check whether block names appear below blocks

Passed

Check the display attributes of block names

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

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

Identify layers in the model having inconsistent description format.

Warning

Following layers do not have model descriptions:

• untitled1

Recommended Action

Consider adding model description for all the layers.

Check if blocks are shaded in the model

Check if blocks are shaded in the model

Passed

Blocks in the model are not shaded.

Check for unconnected signal lines and blocks

Identify unconnected signal lines, subsystems and basic blocks.

Passed

All signal lines and blocks in the model are connected.

Check signal line connections

Identify intersections and overlaps of signals in a model.

Passed

No signal intersections or overlaps found.

Check signal flow in model

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

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

Not Run. Check does not support library and subsystem models.

Check for consistency in model element names

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

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

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).

Passed

The model does not mix basic blocks and subsystems at the same level.

Check for avoiding algebraic loops between subsystems

jc_0653: Delay block layout in feedback loops

Identify delay blocks usage in feedback loops.

Passed

No delay blocks in feedback loops violate the guidelines for avoiding algebraic loops between subsystems.

Check for prohibited sink blocks

Passed

□ **2.29.2.3 Signal** □ **3** □

Check usage of vector and bus signals

Not Run. Check does not support library and subsystem models.

Check definition of signal labels

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Passed

All blocks that require labeled sources have labeled signals.

Check Signal name propagation

Not Run. Check does not support library and subsystem models.

Check position of signal labels

Identify inappropriately placed signal labels.

Passed

No signals found with inappropriately placed labels.

Check signal line labels

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Passed

All blocks that require labeled sources have labeled signals.

Check for propagated signal labels

Not Run. Check does not support library and subsystem models.

□ 2.29.2.4 Block Consistency



Check Indexing Mode

Identify blocks and charts with inconsistent Indexing mode.

Passed

No inconsistent Indexing mode used in the model.

Check block orientation

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

Check if tunable block parameters are defined as named constants

Passed

All tunable block parameters are defined as named constants

Check for sample time setting

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

Not Run. Check does not support library and subsystem models.

Check type setting by data objects

Not Run. Check does not support library and subsystem models.

□ 2.29.2.5 Conditional Subsystem relations



Check position of conditional blocks and iterator blocks

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

Not Run. Check does not support library and subsystem models.

Check usage of Merge block

jc_0659: Usage restrictions of signal lines input to Merge blocks

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

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

Check if default/else case in Switch Case blocks and If blocks are set to 'on'

Passed

Conditional Control blocks are valid.

□ 2.29.2.6 Operation Blocks □ 0 🚨 0 🚨 0 💆 0 🗟 0

Check fundamental logical and numerical operations

Not Run. Check does not support library and subsystem models.

Check usage of Sum blocks

Identify Sum block usage that can affect readability.

Passed

No violations of the guideline found with the usage of the Sum block.

Check operator order of Product blocks

Passed

Check signs of input signals in product blocks

Not Run. Check does not support library and subsystem models.

Check for parentheses in Fcn block expressions

Identify order of parentheses in Fcn block expressions.

Passed

All Fcn blocks use parentheses to mark operator precedence.

Check icon shape of Logical Operator blocks

Passed

Check usage of Relational Operator blocks

Identify Relational Operator blocks that connect to constants with the first (upper) input value.

Passed

This model does not contain Relational Operator blocks.

Check comparison of floating point types in Simulink

Not Run. Check does not support library and subsystem models.

Check usage of Lookup Tables

Check usage of recommended settings for Lookup Table blocks to prevent unexpected results.

Passed

All Lookup Table blocks have recommended settings.

Check usage of Memory and Unit Delay blocks

Not Run. Check does not support library and subsystem models.

Check for cascaded Unit Delay blocks

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

Check usage of recommended settings for Discrete-Time Integrator blocks to prevent unexpected results.

Passed

All Discrete-Time Integrator blocks have recommended settings.

Check usage of the Saturation blocks

Not Run. Check does not support library and subsystem models.

Check output data type of operation blocks

jc_0651: Implementing a type conversion

Identify operation blocks that specify output data type.

Passed 4 4 1

No operation blocks found that explicitly specify output data type.

Check for division by zero in Simulink

Not Run. Check does not support library and subsystem models.

□ 2.29.2.7 Other blocks □ 0 №0 №0 №0 №6 ■4

Check position of Inport and Outport blocks

Identify inappropriately placed Inport and Outport blocks.

Passed

No Inport or Outport blocks found which are inappropriately placed.

Check display for port blocks

Passed

■ Check scope of From and Goto blocks

Not Run. Check does not support library and subsystem models.

Check for usage of Data Store Memory blocks

Identify the usage of Data Store Memory blocks.

Passed

Usage of Data Store Memory blocks is correct.

Check usage of Switch blocks

Not Run. Check does not support library and subsystem models.

Check input and output datatype for Switch blocks

Not Run. Check does not support library and subsystem models.

Check settings for data ports in Multiport Switch blocks

Not Run. Check does not support library and subsystem models.

Check for missing ports in Variant Subsystems

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

na 0036: Default variant

Identify variant subsystems that do not use default variants.

Passad

All variant subsystems in the model use default variants

Check use of single variable variant conditionals

Identify variant subsystems which use multi-variable compound conditions.

Passed

No variant subsystems with multiple variable compound conditions found

□ 2.29.3 Stateflow □ 0 №0 №0 №0 □ 244 □ 7

□ 2.29.3.1 Block/Data/Events



Check for names of Stateflow ports and associated signals

Not Run. Check does not support library and subsystem models.

Check execution timing for default transition path

'Execute (enter) Chart At Initialization' should be set to OFF.

Passed

All Stateflow Charts pass the check.

Check definition of Stateflow data

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

Identify usage of first index of Stateflow data.

Passed

All Stateflow data first index values are uniform.

Check scope of data in parallel states

jc_0722: Local data definition 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

Stateflow events should be defined at the smallest possible scope of usage.

Passed

All Stateflow events are defined at their smallest scope.

□ 2.29.3.2 Diagram



Check for unconnected objects in Stateflow Charts

Identify dangling transitions and unconnected Stateflow States and Junctions in Stateflow Charts.

Passed

No unconnected transitions, states or junctions found in Stateflow Charts.

Check for exclusive states in state machines

Identify states which are the only substate within a state with OR(exclusive) type decomposition.

Passed

All states with OR(exclusive) type decomposition have more than one substate.

Check usage of parallel states

Substates of parallel states should not be parallel states.

Passed

All Stateflow Charts pass the check.

Check Stateflow transition appearance

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

Identify all groupings of states that do not have a default transition or do not have the default state as the topmost state.

Passed

No Stateflow charts and states found that violate the guidelines for default transition placement in Stateflow charts.

Check usage of transitions to external states

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

Not Run. Check does not support library and subsystem models.

Check usage of internal transition

Internal transition lines should 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

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

State actions and flow charts should not be combined in states.

Passed

No Stateflow states were found that combine state action and flow chart.

Check transitions in Stateflow flow charts

Identify transitions in Stateflow flow charts that are drawn incorrectly.

Passed

All Stateflow transitions in flow charts are drawn correctly.

Check usage of unconditional transitions in flow charts

Identify unconditional transitions in flow charts.

Passed

All unconditional transitions adhere to the guideline.

Check terminal junctions in Stateflow

Identify usage of terminal junctions in flow charts.

Passed

Multiple terminal junctions were not found.

Check usage of Stateflow comments

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.

□ 2.29.3.3 Condition Transition/Action



Check Stateflow chart action language

Check if the action language of Stateflow charts is set to 'C'.

Passad

All Stateflow Charts have action language set to 'C'.

Check usage of numeric literals in Stateflow

Identify use of numeric literals in Stateflow states and transitions.

Passed

No numeric literals found in Stateflow charts.

Check for pointers in Stateflow charts

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 usage of events in Stateflow charts

Identify undirected event broadcasts in Stateflow.

Passed

No instances of undirected event broadcast were found.

Check order of state action types

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

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

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

jc 0741: Timing to update data used in state chart transition conditions

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

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

Identify usage of transition actions in Stateflow.

Passed

No Stateflow charts have transition actions.

Check for MATLAB expressions in Stateflow blocks

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

Not Run. Check does not support library and subsystem models.

Check Stateflow operators

Not Run. Check does not support library and subsystem models.

Check prohibited comparison operation of logical type signals

Not Run. Check does not support library and subsystem models.

Check usage of unary minus operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check for implicit type casting in Stateflow

Not Run. Check does not support library and subsystem models.

Check usage of graphical functions in Stateflow

Check for calls between graphical functions.

Passed

No calls between graphical functions were found.

□ 2.29.3.4 Label Description









Check uniqueness of Stateflow State and Data names

jc_0732: Distinction between state names, data names, and event names 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

jc 0730: Unique state name in Stateflow blocks Identifies identical State names within a Stateflow Chart.

Passed

No Stateflow charts were found.

Check usage of State names

jc_0731: State name format

Identify state names with '/' at its end.

Passed

No Stateflow states were found.

Check entry formatting in State blocks in Stateflow charts

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

All state entries found are correctly formatted.

Check indentation of code in Stateflow states

Identify non-uniform indentation in Stateflow blocks.

Passed

All Stateflow blocks have uniform indentation.

Check for usage of text inside states

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

Identify placement of label string in Stateflow transition.

Passed

All Stateflow transitions are placed uniformly.

Check position of comments in transition labels

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

jc_0752: Condition action in transition label

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

Identify comments in unconditional transitions without action statements.

Passed

All unconditional transitions without action statements have comments.

□ 2.29.3.5 Miscellaneous



Check return value assignments in Stateflow graphical functions

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

jc_0732: Distinction between state names, data names, and event names 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

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

na_0039: Limitation on Simulink functions in Chart blocks

Check use of Stateflow charts nested inside Simulink functions used in Stateflow.

Passed

No Stateflow charts found nested inside Simulink functions used in Stateflow.



□ 2.29.4.1 Data and Operations □ 0 🚨 0 🚨 0 💆 2 🗎 1

Check MATLAB code for global variables

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

Not Run. Check does not support library and subsystem models.

Check input and output settings of MATLAB Functions

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.

□ **2.29.4.2 Usage** □ **© 0 № 0 № 0 № 0 № 0 № 0**

Check lines of code in MATLAB Functions

Identify MATLAB Functions with high number of effective lines of code.

Passed

No MATLAB Function found with high number of effective lines of code.

Check the number of function calls in MATLAB Function blocks

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 nested conditions in MATLAB Functions

Identify nested if/else and case statements in MATLAB Functions.

Passed

No MATLAB Function found with deeply nested if/else and case statements.

Check usage of character vector inside MATLAB Function block

Identify usage of strings in MATLAB Function blocks.

Passed

No character vectors found in MATLAB Function block

Check usage of recommended patterns for Switch/Case statements

Identify usage of non-constant variables in Switch/Case statements.

Passed

Non-constant variables are not used as Switch/Case arguments

Check for use of C-style comment symbols

Not Run. Check does not support library and subsystem models.

Check file names

Check the model file name to ensure that the name complies with the recommended guidelines.

Passed

All files have correct names.

Check folder names

Check the folder name to ensure that the name complies with the recommended guidelines.

Passed

All folders have correct names.

Check subsystem names

Passed

Check port block names

Passed

Check character usage in block names

Passed

Check character usage in signal names and bus names

Identify signal and bus names with invalid characters.

Passed

No invalid characters are used in signal and bus names.

Check character usage in parameter names

Not Run. Check does not support library and subsystem models.

Check length of model file name

Check length of model file name

Passed

Model name is valid.

Check length of folder name at every level of model path

The model file name is: untitled1

Passed

Folder names are valid.

Check length of subsystem names

Passed

Check length of Inport and Outport names

Check length of signal and bus names

Check length of signal and bus names

Passed

All signal and bus names are valid.

Check length of parameter names

Not Run. Check does not support library and subsystem models.

Check length of block names

Passed

□ 2.30.2 Model Architecture □0 ☒0 ▲0 ☒0 ☒1 凬0

Check for mixing basic blocks and subsystems

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).

Passed

The model does not mix basic blocks and subsystems at the same level.

- □ 2.30.3 Model Configuration Options □ 0 🚨 0 🚨 0 🚨 0 🚨 2
- Check Implement logic signals as Boolean data (vs. double)

Not Run. Check does not support library and subsystem models.

Check diagnostic settings for incorrect calculation results

Not Run. Check does not support library and subsystem models.

- □ **2.30.4 Simulink** □ **2.**
- Check for Simulink diagrams using nonstandard display attributes

Not Run. Check does not support library and subsystem models.

Check Model font settings

Identify blocks and charts with different font settings from input parameters.

Passed

Font settings of the blocks and charts and input parameters are same.

Check position of Inport and Outport blocks

Identify inappropriately placed Inport and Outport blocks.

Passed

No Inport or Outport blocks found which are inappropriately placed.

Check whether block names appear below blocks

Passed

Check the display attributes of block names

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

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

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 signal lines and blocks

Identify unconnected signal lines, subsystems and basic blocks.

Passed

All signal lines and blocks in the model are connected.

Check usage of Switch blocks

Not Run. Check does not support library and subsystem models.

Check usage of Relational Operator blocks

Identify Relational Operator blocks that connect to constants with the first (upper) input value.

This model does not contain Relational Operator blocks.

Check Indexing Mode

Identify blocks and charts with inconsistent Indexing mode.

Passed

No inconsistent Indexing mode used in the model.

Check usage of tunable parameters in blocks

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

Passed

Tunable parameters are not used in the model.

Check definition of signal labels

Identify blocks that require labeled signals. A subset of source and destination blocks require labeled signals.

Passed

All blocks that require labeled sources have labeled signals.

Check Signal name propagation

Not Run. Check does not support library and subsystem models.

Check usage of Discrete-Time Integrator block

Check usage of recommended settings for Discrete-Time Integrator blocks to prevent unexpected results.

Passed

All Discrete-Time Integrator blocks have recommended settings.

Check settings for data ports in Multiport Switch blocks

Not Run. Check does not support library and subsystem models.

Check usage of fixed-point data type with non-zero bias

Not Run. Check does not support library and subsystem models.

Check input and output datatype for Switch blocks

Not Run. Check does not support library and subsystem models.

Check signs of input signals in product blocks

Not Run. Check does not support library and subsystem models.

Check Signed Integer Division Rounding mode

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'.

Configuration parameter 'Signed integer division rounds to' is not set to 'Undefined'.

Check type setting by data objects

Not Run. Check does not support library and subsystem models.

Check usage of the Saturation blocks

Not Run. Check does not support library and subsystem models.

Check usage of Merge block

jc_0659: Usage restrictions of signal lines input to Merge blocks
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

Not Run. Check does not support library and subsystem models.

Check block orientation

Identify blocks which are rotated or reversed.

Passed

No blocks found with rotated or reversed orientation

Check if blocks are shaded in the model

Check if blocks are shaded in the model

Passed

Blocks in the model are not shaded.

Check operator order of Product blocks

Passed

Check icon shape of Logical Operator blocks

Passed

Check if tunable block parameters are defined as named constants

Check if tunable block parameters are defined as named constants

Passed

All tunable block parameters are defined as named constants

Check default/else case in Switch Case blocks and If blocks

Check if default/else case in Switch Case blocks and If blocks are set to 'on'

Conditional Control blocks are valid.

Check usage of Lookup Tables

Check usage of recommended settings for Lookup Table blocks to prevent unexpected results.

Passed

All Lookup Table blocks have recommended settings.

Check for parentheses in Fcn block expressions

Identify order of parentheses in Fcn block expressions.

Passed

All Fcn blocks use parentheses to mark operator precedence.

Check undefined initial output for conditional subsystems

Not Run. Check does not support library and subsystem models.

Check for avoiding algebraic loops between subsystems

jc_0653: Delay block layout in feedback loops

Identify delay blocks usage in feedback loops.

Passed

No delay blocks in feedback loops violate the guidelines for avoiding algebraic loops between subsystems.

Check comparison of floating point types in Simulink

Not Run. Check does not support library and subsystem models.

Check duplication of Simulink Data names

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

Not Run. Check does not support library and subsystem models.

Check output data type of operation blocks

jc_0651: Implementing a type conversion

Identify operation blocks that specify output data type.

Passed

No operation blocks found that explicitly specify output data type.

Check Model Description

Identify layers in the model having inconsistent description format.

Warning

Following layers do not have model descriptions:

• untitled1

Recommended Action

Consider adding model description for all the layers.

Check for consistency in model element names

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

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

Identify Sum block usage that can affect readability.

Passed

No violations of the guideline found with the usage of the Sum block.

Check position of signal labels

Identify inappropriately placed signal labels.

Passed

No signals found with inappropriately placed labels.

Check for missing ports in Variant Subsystems

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 for cascaded Unit Delay blocks

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

Identify the usage of Data Store Memory blocks.

Passed

Usage of Data Store Memory blocks is correct.

Check fundamental logical and numerical operations

Not Run. Check does not support library and subsystem models.

Check signal flow in model

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

Not Run. Check does not support library and subsystem models.

Check connections between structural subsystems

Not Run. Check does not support library and subsystem models.

Check position of conditional blocks and iterator blocks

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

Identify intersections and overlaps of signals in a model.

Passed

No signal intersections or overlaps found.

Check scope of From and Goto blocks

Not Run. Check does not support library and subsystem models.

Check for division by zero in Simulink

Not Run. Check does not support library and subsystem models.

Check use of single variable variant conditionals

Identify variant subsystems which use multi-variable compound conditions.

Passed

No variant subsystems with multiple variable compound conditions found

□ 2.30.5 Stateflow □ 0 №0 №0 №0 ♥44 ■8

Check transitions in Stateflow flow charts

Identify transitions in Stateflow flow charts that are drawn incorrectly.

Passed

All Stateflow transitions in flow charts are drawn correctly.

Check return value assignments in Stateflow graphical functions

Identify graphical functions with multiple assignments of return values in Stateflow charts.

Passed

No Stateflow charts were found.

Check entry formatting in State blocks in Stateflow charts

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

All state entries found are correctly formatted.

Check default transition placement in Stateflow charts

Identify all groupings of states that do not have a default transition or do not have the default state as the topmost state.

Passed

No Stateflow charts and states found that violate the guidelines for default transition placement in Stateflow charts.

Check definition of Stateflow data

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

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

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

Not Run. Check does not support library and subsystem models.

Check usage of unary minus operations in Stateflow charts

Not Run. Check does not support library and subsystem models.

Check usage of Stateflow comments

Identify comments that are nested or contain newline(s) in the middle in Stateflow for action language 'C'.

No comments found that are either nested or contain newline(s) in the middle.

Check prohibited comparison operation of logical type signals

Not Run. Check does not support library and subsystem models.

Check usage of internal transitions in Stateflow states

Identify Stateflow states using multiple internal transitions.

Passed

No Stateflow states found with multiple internal transitions

Check usage of transition conditions in Stateflow transitions

Identify unconditional Stateflow transitions with higher priority than conditional transitions.

Passed

No unconditional Stateflow transitions found with higher priority than conditional transitions

Check uniqueness of Stateflow State and Data names

jc_0732: Distinction between state names, data names, and event names 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

jc_0730: Unique state name in Stateflow blocks Identifies identical State names within a Stateflow Chart.

Passed

No Stateflow charts were found.

Check usage of parentheses in Stateflow transitions

jc_0752: Condition action in transition label

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 prohibited combination of state action and flow chart

State actions and flow charts should not be combined in states.

Passed

No Stateflow states were found that combine state action and flow chart.

Check condition actions and transition actions in Stateflow

Identify usage of transition actions in Stateflow.

Passed

No Stateflow charts have transition actions.

Check usable number for first index

Identify usage of first index of Stateflow data.

Passed

All Stateflow data first index values are uniform.

Check usage of State names

jc_0731: State name format

Identify state names with '/' at its end.

Passed

No Stateflow states were found.

Check execution timing for default transition path

'Execute (enter) Chart At Initialization' should be set to OFF.

Passed

All Stateflow Charts pass the check.

Check repetition of Action types

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

Not Run. Check does not support library and subsystem models.

Check updates to variables used in state transition conditions

jc_0741: Timing to update data used in state chart transition conditions

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 internal transition

Internal transition lines should 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 parallel states

Substates of parallel states should not be parallel states.

Passed

All Stateflow Charts pass the check.

Check scope of data in parallel states

jc_0722: Local data definition 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

Identify non-uniform indentation in Stateflow blocks.

Passed

All Stateflow blocks have uniform indentation.

Check for usage of text inside states

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

Not Run. Check does not support library and subsystem models.

Check for unconnected objects in Stateflow Charts

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

Identify placement of label string in Stateflow transition.

Passed

All Stateflow transitions are placed uniformly.

Check Stateflow chart action language

Check if the action language of Stateflow charts is set to 'C'.

Passed

All Stateflow Charts have action language set to 'C'.

Check character usage in Stateflow data names

Identify Stateflow data names with invalid characters.

Passed

No invalid characters are used in Stateflow data names.

Check length of Stateflow data name

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

Identify transitions ending on external child states.

Passed

No direct transitions found from external state to child state.

Check order of state action types

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

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

Identify comments in transition labels that are not positioned uniformly.

Passed

Comments in transition labels are positioned uniformly.

Check terminal junctions in Stateflow

Identify usage of terminal junctions in flow charts.

Passed

Multiple terminal junctions were not found.

Check for implicit type casting in Stateflow

Not Run. Check does not support library and subsystem models.

Check usage of graphical functions in Stateflow

Check for calls between graphical functions.

Passed

No calls between graphical functions were found.

Check if state action type 'exit' is used in the model

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

Not Run. Check does not support library and subsystem models.

Check usage of unconditional transitions in flow charts

Identify unconditional transitions in flow charts.

Passed

All unconditional transitions adhere to the guideline.

Check for comments in unconditional transitions

Identify comments in unconditional transitions without action statements.

Passed

All unconditional transitions without action statements have comments.

Check definition of Stateflow events

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

Identify Stateflow transitions visually overlapping other Stateflow objects.

Passed

No transition violates the guidelines for Stateflow transition appearance.

Check usage of events in Stateflow charts

Identify undirected event broadcasts in Stateflow.

Passed

No instances of undirected event broadcast were found.

Check usage of Simulink functions in Stateflow

Usage of Simulink Functions in Stateflow.

Passed

All Simulink Functions in Stateflow are defined according to the guideline.

Check for exclusive states in state machines

Identify states which are the only substate within a state with OR(exclusive) type decomposition.

Passed

All states with OR(exclusive) type decomposition have more than one substate.

Check usage of floating-point expressions in Stateflow charts

Not Run. Check does not support library and subsystem models.

○0 **△**0 **△**0 **○**3 **□**1 **□** 2.30.6 MATLAB Functions Check input and output settings of MATLAB Functions 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 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 character vector inside MATLAB Function block Identify usage of strings in MATLAB Function blocks. **Passed** No character vectors found in MATLAB Function block Check usage of enumerated values Not Run. Check does not support library and subsystem models. □ 2.31 Simulink Code Inspector compatibility checks **○**0 **図**1 **△**0 **☑**0 **②**0 **□**66

Check code generation settings

Not Run. Check does not support library and subsystem models.

Check data import and export settings

Not Run. Check does not support library and subsystem models.

Check diagnostic settings

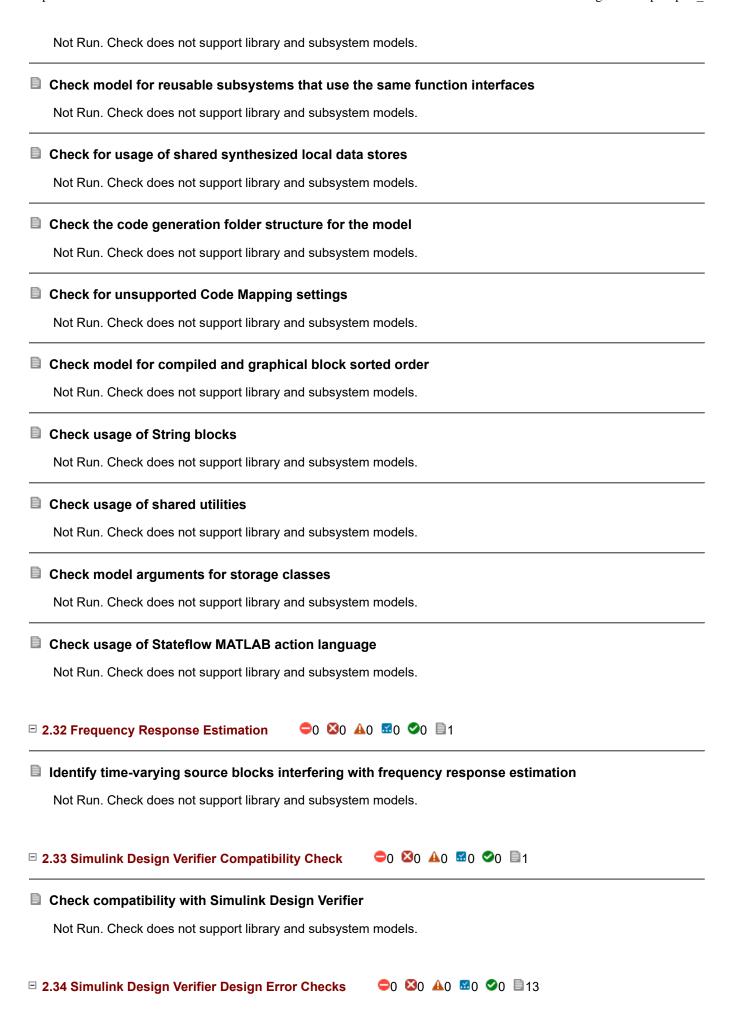
Not Run. Check does not support library and subsystem models.

	Check hardware implementation settings
	Not Run. Check does not support library and subsystem models.
	Check math and data types settings
	Not Run. Check does not support library and subsystem models.
	Check solver settings
	Not Run. Check does not support library and subsystem models.
	Check for unconnected objects in the model
	Not Run. Check does not support library and subsystem models.
	Check system target file setting
	Not Run. Check does not support library and subsystem models.
	Check function specification setting
	Not Run. Check does not support library and subsystem models.
	Check for usage of fixed-point instrumentation
	Not Run. Check does not support library and subsystem models.
×	Check for unsupported blocks
	Supported compiler not detected. You can install the freely available MinGW-w64 C/C++ compiler; see Install MinGW-w64 C/C++ compiler ; see Install MinGW-w64 Compiler . For more options, visit https://www.mathworks.com/support/compilers .
	Check storage class for workspace variables
	Not Run. Check does not support library and subsystem models.
	Check GetSet storage class for workspace variables
	Not Run. Check does not support library and subsystem models.
	Check for sample times in the model
	Not Run. Check does not support library and subsystem models.
	Check usage of Sources blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Signal Routing blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Math Operations blocks

_	Not Run. Check does not support library and subsystem models.
	Check usage of Signal Attributes blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Logical and Bit Operations blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Lookup Tables blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of User-Defined Function blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Ports and Subsystems blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Discontinuities blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Sinks blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Discrete blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of root Outport blocks
	Not Run. Check does not support library and subsystem models.
in _i	Check for unsupported Signal Conversion blocks automatically inserted at signals entering block put ports
	Not Run. Check does not support library and subsystem models.
	Check usage of buses
	Not Run. Check does not support library and subsystem models.
	Check for usage of synthesized local data stores
	Not Run. Check does not support library and subsystem models.
	Check usage of global data stores
	Not Run. Check does not support library and subsystem models.

Check global data stores' name shadow
Not Run. Check does not support library and subsystem models.
Check conditional input branch execution setting
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow blocks
Not Run. Check does not support library and subsystem models.
Check for Stateflow machine data
 Not Run. Check does not support library and subsystem models.
Check for Stateflow machine events
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow charts
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow data
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow events
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow states
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow junctions
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow transitions
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow graphical functions
Not Run. Check does not support library and subsystem models.
Check usage of Stateflow truth tables
Not Run. Check does not support library and subsystem models.
Check Loop unrolling threshold setting
Not Run. Check does not support library and subsystem models.

	Check destinations of If and Switchcase blocks
	Not Run. Check does not support library and subsystem models.
	Check for root Outport blocks that have non-auto storage class
	Not Run. Check does not support library and subsystem models.
	Check for Terminator blocks that connect to Model block outports
	Not Run. Check does not support library and subsystem models.
	Check for unsupported propagation of initial condition values
	Not Run. Check does not support library and subsystem models.
	Check data type replacement names
	Not Run. Check does not support library and subsystem models.
	Check usage of MATLAB Function Blocks
	Not Run. Check does not support library and subsystem models.
	Check usage of Data in MATLAB Functions
	Not Run. Check does not support library and subsystem models.
	Check usage of Code in MATLAB Functions
	Not Run. Check does not support library and subsystem models.
	Check MATLAB Code Analyzer messages
	Not Run. Check does not support library and subsystem models.
	Check for multiple sample times in model used as a model reference target
	Not Run. Check does not support library and subsystem models.
	Check Treat each discrete rate as a separate task setting
	Not Run. Check does not support library and subsystem models.
	Check model for commented out blocks
	Not Run. Check does not support library and subsystem models.
	Check model for void_void subsystems that use the same function name
	Not Run. Check does not support library and subsystem models.
	Check n-D Lookup Table blocks for incompatible breakpoint data type
_	and the same with the same and



Detect Dead Logic
Not Run. Check does not support library and subsystem models.
Detect Out Of Bound Array Access
Not Run. Check does not support library and subsystem models.
Detect Division By Zero
Not Run. Check does not support library and subsystem models.
Detect Integer Overflow
Not Run. Check does not support library and subsystem models.
Detect Non-finite and NaN Floating-point Values
Not Run. Check does not support library and subsystem models.
Detect Subnormal Floating-point Values
Not Run. Check does not support library and subsystem models.
Detect Specified Minimum and Maximum Value Violations
Not Run. Check does not support library and subsystem models.
Detect Data Store Access Violations
Not Run. Check does not support library and subsystem models.
Detect Block Input Range Violations
Not Run. Check does not support library and subsystem models.
Detect Usage of remainder and reciprocal operations - hisl_0002
Not Run. Check does not support library and subsystem models.
Detect Usage of square root operations - hisl_0003
Not Run. Check does not support library and subsystem models.
Detect Usage of log and log10 operations - hisl_0004
Not Run. Check does not support library and subsystem models.
Detect Usage of Reciprocal Square Root Blocks - hisl_0028
Not Run. Check does not support library and subsystem models.

□ 2.35 Requirements Consistency Checking

○0 **❷**0 **▲**0 **❸**0 **②**0 **■**4

	Identify requirement links with missing documents
	Not Run. Check does not support library and subsystem models.
	Identify requirement links that specify invalid locations within documents
	Not Run. Check does not support library and subsystem models.
l tex	Identify selection-based links having description fields that do not match their requirements document
	Not Run. Check does not support library and subsystem models.
	Identify requirement links with path type inconsistent with preferences

Not Run. Check does not support library and subsystem models.