

# Model Advisor Report – Project\_v2.slx

Simulink version: 10.5

Model version: 1.12

System: Project\_v2

Current run: 26-Mar-2022 09:46:36

Treat as Referenced Model: off

## Run Summary


Incomplete	Failed	Warning	Justified	Passed	Not Run	Total
 0	 0	 10	 0	 65	 118	193

## Model Advisor


 By Product  0  0  0  0  118

 Embedded Coder  0  0  0  0  28

---

 *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 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

---

 *Identify questionable software environment specifications*  
Not Run


---

 *Identify questionable code instrumentation (data I/O)*  
Not Run


---

 *Identify blocks generating inefficient algorithms*  
Not Run

---

 *Check configuration parameters for MISRA C:2012*  
Not Run

---

 *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 configuration parameters for secure coding standards*  
Not Run

---

 *Check for blocks not recommended for secure coding standards*  
Not Run

---

 *Identify questionable subsystem settings*

Not Run

---

 *Check for blocks not supported for row-major code generation*

Not Run

---

 *Identify TLC S-Functions with unset array layout*

Not Run

---

 *Identify blocks that generate expensive fixed-point and saturation code*

Not Run

---

 *Check for missing const qualifiers in model functions*

Not Run

---

 *Check bus object names that are used as bus element names*

Not Run

---

 *Identify questionable fixed-point operations*

Not Run

---

 *Identify blocks that generate expensive rounding code*

Not Run

---

 *Check for bitwise operations on signed integers*


Not Run

---


 *Check for recursive function calls*

Not Run

---

 *Check for equality and inequality operations on floating-point values*  
Not Run


---

 *Check integer word lengths*  
Not Run


---

 Simulink  0  0  0  0  0  42

---

 *Check optimization settings*  
Not Run


---

 *Identify unconnected lines, input ports, and output ports*  
Not Run

---

 *Check root model Inport block specifications*  
Not Run

---

 *Check diagnostic settings ignored during accelerated model reference simulation*  
Not Run


---

 *Check for parameter tunability information ignored for referenced models*  
Not Run


---

 *Check for implicit signal resolution*  
Not Run

---

 *Check for optimal bus virtuality*  
Not Run

---

 *Check for calls to `slDataTypeAndScale()`*  
Not Run


---

 *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 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 if Read/Write diagnostics are enabled for Data Store blocks*  
Not Run

---

---

 *Check Data Store Memory blocks for multitasking, strong typing, and shadowing issues*  
Not Run

---

 *Check Model History properties*  
Not Run


---

 *Check S-functions in the model*  
Not Run


---

 *Open the Upgrade Advisor*  
Not Run


---

 *Check structure parameter usage with bus signals*  
Not Run


---

 *Check for large number of function arguments from virtual bus across model reference boundary*  
Not Run

---

 *Check Delay, Unit Delay and Zero-Order Hold blocks for rate transition*  
Not Run


---

 *Check bus signals treated as vectors*  
Not Run

---

 *Check for potentially delayed function-call block return values*  
Not Run

---

 *Identify block output signals with continuous sample time and non-floating point data type*  
Not Run

---

 *Check usage of Merge blocks*  
Not Run

---

 *Check usage of Outport blocks*  
Not Run


---

 *Check usage of Discrete-Time Integrator blocks*  
Not Run

---

 *Check model settings for migration to simplified initialization mode*  
Not Run

---

 *Check for non-continuous signals driving derivative ports*  
Not Run

---

 *Check data store block sample times for modeling errors*  
Not Run


---

 *Check for potential ordering issues involving data store access*  
Not Run


---

 *Identify unit mismatches in the model*  
Not Run

---

 *Identify automatic unit conversions in the model*  
Not Run

---

 *Identify disallowed unit systems in the model*  
Not Run

---

 *Identify undefined units in the model*  
Not Run

---

 *Identify ambiguous units in the model*

Not Run

---

 *Identify questionable operations for strict single-precision design*

Not Run

---

 Simulink Coder 0 0 0 0 0 9

---

 *Identify blocks using one-based indexing*

Not Run

---

 *Check solver for code generation*

Not Run

---

 *Check for blocks not supported by code generation*

Not Run

---

 *Check for model reference configuration mismatch*

Not Run

---

 *Check code generation identifier formats used for model reference*

Not Run

---

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

Not Run

---

 *Check reuse of subsystem code*

Not Run

---

 *Check sample times and tasking mode*

Not Run

---



---

 *Check for blocks that have constraints on tunable parameters*

Not Run

 HDL Coder 0 0 0 0 0  36

 *Checks for blocks and block settings* 0 0 0 0 0  10

---

 *Check for unsupported blocks*

Not Run

---

 *Check for HDL Reciprocal block usage*

Not Run

---

 *Check for MATLAB Function block settings*

Not Run

---

 *Check for obsolete Unit Delay Enabled/Resettable blocks*

Not Run

---

 *Check for infinite and continuous sample time sources*

Not Run

---

 *Check for unsupported storage class for signal objects*

Not Run

---

 *Check for Stateflow chart settings*

Not Run

---


 *Check for Trigonometric Function block for LUT-based approximation method*

Not Run

---

 Check for large matrix operations  
Not Run


---

 Check for blocks that have nonzero output latency  
Not Run


---

 *Industry standard checks* 0 0 0 0 0  11

---

 Check architecture name  
Not Run


---

 Check clock settings  
Not Run


---

 Check clock, reset, and enable signals  
Not Run


---

 Check file extension  
Not Run


---

 Check generics  
Not Run


---

 Check naming conventions  
Not Run


---

 Check package file names  
Not Run


---

 Check signal and port names  
Not Run


---

 Check entity and architecture  
Not Run

---

 Check module/entity names  
Not Run


---

 Check top-level subsystem/port names  
Not Run


---

 *Model configuration checks* 0 0 0 0 0 6


---

 Check delay balancing setting  
Not Run


---

 Check for global reset setting for Xilinx and Altera devices  
Not Run


---

 Check inline configurations setting  
Not Run


---

 Check for model parameters suited for the HDL code generation  
Not Run

---

 Check for visualization settings  
Not Run


---

 Check algebraic loops  
Not Run


---

 *Checks for ports and subsystems* 0 0 0 0 0 2

---

 Check initial conditions of enabled and triggered subsystems  
Not Run


---

 Check for invalid top level subsystem  
Not Run

---

 Native Floating Point checks 0 0 0 0 0 7

---

 Check for double datatypes in the model with Native Floating Point  
Not Run


---

 Check for Data Type Conversion blocks with incompatible settings  
Not Run

---

 Check for HDL Reciprocal block usage  
Not Run

---

 Check for Relational Operator block usage  
Not Run


---

 Check for single datatypes in the model  
Not Run

---

 Check for unsupported blocks with Native Floating Point  
Not Run

---

 Check blocks with nonzero ulp error  
Not Run

---

 Simscape 0 0 0 0 0 3


---

 *Check consistency of block parameter units*  
Not Run

---

 *Check for outdated AC source blocks*  
Not Run

---

 *Check for dry hydraulic nodes*  
Not Run

---

 By Task 0 0 10 0 65 0

 Modeling Physical Systems 0 0 0 0 2 0

---

 *Check consistency of block parameter units*

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

**Passed**

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

---

 *Check for dry hydraulic nodes*

This check identifies connections of Simscape hydraulic blocks in a model that are considered dry. Dry nodes physically represent a hydraulic segment modeled as an incompressible fluid.

**Passed**

Check has passed. No dry hydraulic nodes found.

---

 Replacing Blocks That Will Be Removed 0 0 0 0 1 0

---

 *Identify Environment Controller blocks to be replaced with Variant Source blocks*

**Passed**

The model does not contain any Environment Controller blocks.

Simulation Accuracy 0 0 0 0 1 0

---

*Check for non-continuous signals driving derivative ports*

Passed

Simulation Runtime Accuracy Diagnostics 0 0 0 0 2 0

---

*Runtime diagnostics for S-functions*

Passed

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

Passed

Managing Data Store Memory Blocks 0 0 1 0 3 0

---

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

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

*Check data store block sample times for modeling errors*

Passed

*Check for potential ordering issues involving data store access*

Passed

---

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

The system does not have any Data Store Read or Data Store Write blocks.

---

📁 Simulink Model File Integrity 0 0 0 0 1 0

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✓ *Check Model History properties*

**Check models for edited Model History property values**

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

Passed

This model uses the default value for property ModifiedByFormat.

Passed

This model uses the default value for property ModifiedDateFormat.

Passed

This model uses the default value for property ModelVersionFormat.

---

📁 S-function Checks 0 0 0 0 1 0

---

✓ *Check S-functions in the model*

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

---

📁 Units Inconsistencies 0 0 0 0 5 0

---

✓ *Identify unit mismatches in the model*

Check for unit mismatches in the model.

Passed

No unit mismatches found.

- 
- ✓ *Identify automatic unit conversions in the model*  
Check for automatic unit conversions.

**Passed**

No automatic unit conversions found.

- 
- ✓ *Identify disallowed unit systems in the model*  
Check for disallowed unit systems.

**Passed**

No disallowed unit systems were found.

- 
- ✓ *Identify undefined units in the model*  
Check for undefined units.

**Passed**

No undefined units were found.

- 
- ✓ *Identify ambiguous units in the model*  
Check for ambiguous units.

**Passed**

No ambiguous units were found.

---

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

- 
- ✓ *Check for optimal bus virtuality*  
**Passed**

- 
- ✓ *Check structure parameter usage with bus signals*  
This test is skipped because it requires an activated Simulink Coder product

- 
- ⚠ *Check bus signals treated as vectors*

**Bus signal treated as vector**

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



### Warning

The model uses bus signals properly. However, the model is not configured to detect future changes that might result in improper bus signal usage.

### Recommended Action

To detect these changes, in the Configuration Parameters dialog box, set the **Bus signal treated as vector** diagnostic to `error`.

Buses - Bus signal treated as vector

 Code Generation Efficiency  0  0  1  0  10  0

---

 [Check optimization settings](#)

Check optimization settings

### Warning

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

Status	Parameter	Current Value	Recommended Values
Warning	StateBitsets	off	on
Warning	DataBitsets	off	on

### Recommended Action

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

---

 [Identify blocks using one-based indexing](#)

Check the model for blocks configured for one-based indexing

**Passed**

All blocks in the model use zero-based indexing.

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---

✓ *Identify questionable software environment specifications*

**Passed**

---

✓ *Identify lookup table blocks that generate expensive out-of-range checking code*

**Passed**

---

✓ *Identify questionable code instrumentation (data I/O)*

**Passed**

---

✓ *Check output types of logic blocks*

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

**Passed**

All logic blocks are being used appropriately.

---

✓ *Check configuration parameters for generation of inefficient saturation code*

**Passed**

---

✓ *Identify blocks that generate expensive rounding code*

**Check for expensive rounding operations in multiplication and division**

**Passed**

---

**Check Optimization and Hardware Implementation settings (Lookup Blocks)**

**Passed**

---

**Check for expensive rounding in a data type conversion**

**Passed**

---

Check for expensive rounding modes in the model

Passed

---

✓ *Identify questionable fixed-point operations*

Check for multiword operations

Passed

---

Check for expensive multiplication code

Passed

---

Check for expensive division code

Passed

---

Identify lookup blocks with uneven breakpoint spacing

Passed

---

Check for expensive pre-lookup division

Passed

---

Check for expensive data type conversions

Passed

---

Check for fixed-point comparisons with predetermined results

Passed

---

Check for expensive binary comparison operations

Passed

---

Check for expensive fixed-point types

Passed

---

✓ *Identify blocks that generate expensive fixed-point and saturation code*

Identify Sum blocks for questionable fixed-point operations

Passed

---

Identify Relational Operation blocks for questionable fixed-point operations

Passed

---

Identify Data Type Conversion Inherited blocks for questionable fixed-point operations

Passed

---

Identify Switch blocks for questionable fixed-point operations

Passed

---

Identify Logic blocks for questionable fixed-point operations

Passed

---

Identify Saturate blocks for questionable fixed-point operations

Passed

---

**Identify Min Max blocks for questionable fixed-point operations**

**Passed**

---

**Identify Discrete Integrator blocks for questionable fixed-point operations**

**Passed**

---

**Identify Compare To Constant blocks for questionable fixed-point operations**

**Passed**

---

**Identify Lookup Table blocks for questionable fixed-point operations**

**Passed**

---

**Identify blocks that will invoke net slope computation**

**Passed**

---

**Identify Product blocks that are less efficient**

**Passed**

---

**Check for expensive saturation code**

**Passed**

---

✓ *Identify blocks generating inefficient algorithms*

**Passed**

No inefficient algorithms found in the model.

📁 Modeling Single-Precision Systems 0 0 1 0 0 0

---

⚠️ *Identify questionable operations for strict single-precision design*

**Check model settings related to single-precision design**

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

### Warning

The following model settings are non-optimal to a single-precision design:

Model Name	Configuration Parameter	Current Value	Recommended Value
Project_v2	Default for underspecified data type	double	single

---

### Check for double precision operations

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

**Passed**

No double-precision operations were found.

📁 Migrating to Simplified Initialization mode 0 0 0 0 4 0

---

✓ *Check usage of Merge blocks*  
**Check usage of Merge blocks**

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

**See Also**

- Check usage of Merge blocks
- Underspecified initialization detection

**Passed**

---

✓ *Check usage of Outport blocks*  
**Check usage of Outport blocks**

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

**See Also**

- Check usage of Outport blocks
- Underspecified initialization detection

**Passed**

---

✓ *Check usage of Discrete-Time Integrator blocks*  
**Check usage of Discrete-Time Integrator blocks**

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

#### See Also

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

**Passed**

---

---

✔ *Check model settings for migration to simplified initialization mode*

#### Check for model level messages

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

#### See Also

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

**Passed**

---

📁 Row-Major Code Generation 0 0 1 0 2 0

---


✔ *Identify blocks generating inefficient algorithms*

**Passed**

No inefficient algorithms found in the model.



---


 *Check for blocks not supported for row-major code generation*  
Identify blocks not supported by row-major code generation.

### Warning

The following blocks do not support row-major code generation:

- Project\_v2/Lamp
- Project\_v2/Side Lights

---

 *Identify TLC S-Functions with unset array layout*  
List all S-Functions which have SSArrayLayout set to SS\_UNSET. These S-Functions can have numerical implications in the generated code.


### Passed

No TLC S-Functions found with SSArrayLayout set to SS\_UNSET.


---

 Model Referencing 0 0 1 0 7 0

---

 *Check for model reference configuration mismatch*  
Passed

---

 *Check diagnostic settings ignored during accelerated model reference simulation*  
The configuration parameter settings passed the check.

---

 *Check code generation identifier formats used for model reference*  
The configuration parameter settings passed the check.

---

 *Check for parameter tunability information ignored for referenced models*

Passed

---

✓ *Check for implicit signal resolution*

Passed

---

⚠ *Check bus signals treated as vectors*

**Bus signal treated as vector**

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

**Warning**

The model uses bus signals properly. However, the model is not configured to detect future changes that might result in improper bus signal usage.

**Recommended Action**

To detect these changes, in the Configuration Parameters dialog box, set the **Bus signal treated as vector** diagnostic to `error`.

Buses - Bus signal treated as vector

---

✓ *Check root model Inport block specifications*

Passed

---

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

No referenced models found.

📁 Managing Library Links And Variants 0 0 0 0 4 0

---

✓ *Identify disabled library links*

Passed

---

✓ *Identify parameterized library links*

Passed

---

✓ *Identify unresolved library links*

Passed

---

- ✓ *Identify configurable subsystem blocks in the model for converting to variant subsystem blocks.*  
Identify and upgrade Configurable Subsystem blocks in the model or subsystem level.

**Passed**

No configurable subsystem blocks found.

📁 Data Transfer Efficiency 0 0 0 0 1 0

---

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

**Passed**

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

📁 Modeling Standards for MISRA C:2012 0 0 1 0 12 0

---

- ⚠ *Check configuration parameters for MISRA C:2012*

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

**Warning**

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

Statu s	Parameter	Current Value	Recommended Values	Prerequisites
Warni ng	Model Verification block enabling (AssertControl)	UseLocalSet tings	DisableAll	
D - Warni ng	UtilityFuncGeneration	Auto	Shared location	

Warning	GenerateSharedConstants	<i>Prerequisite constraint not met.</i>	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	<i>Prerequisite constraint not met.</i>	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	<i>Prerequisite constraint not met.</i>	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	<i>Prerequisite constraint not met.</i>	Standards, Maximum	SystemTargetFile
Warning	CastingMode	<i>Prerequisite constraint not met.</i>	Standards	SystemTargetFile
Warning	InternalIdentifier	<i>Prerequisite constraint not met.</i>	Shortened	SystemTargetFile
Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	<i>Prerequisite constraint not met.</i>	off	SystemTargetFile
Warning	EnableSignedRightShifts	<i>Prerequisite constraint not met.</i>	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	


Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	<i>Prerequisite constraint not met.</i>	on	GenerateComments, SystemTargetFile
Warning	InstructionSetExtensions	SSE2	None	

^ Less

### Recommended Action

Modify the configuration parameters listed above to the recommended values.

---

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

---

✔ *Check for blocks not recommended for MISRA C:2012*  
**Passed**

---

✔ *Check for unsupported block names*  
**Passed**

---

✔ *Check usage of Assignment blocks*  
**Passed**

---

✔ *Check for switch case expressions without a default case*  
Identify switch case expressions that do not have a default case.  
  
**Passed**  
All switch case expressions have default cases.

---

✔ *Check for missing error ports in AUTOSAR receiver interfaces*  
Identify AUTOSAR receiver interface ports that do not have a matching error port.  
  
**Passed**  
Model is not configured as an AUTOSAR target.

---

✔ *Check for bitwise operations on signed integers*  
Identify bitwise operations on signed integers.  
  
**Passed**  
No bitwise operations on signed integers found.

---

✔ *Check for recursive function calls*  
Identify function calls that are recursive.  
  
**Passed**  
No recursive function calls found.

---

✔ *Check for equality and inequality operations on floating-point values*  
Identify equality and inequality operations on floating-point values.

**Passed**

No equality or inequality operations on floating-point values found.

---

✓ *Check for missing const qualifiers in model functions*

Identify missing const qualifiers in model functions.

**Passed**

Model does not use customized model functions.

---

✓ *Check integer word lengths*

Identify integer word length that are not compliant with hardware implementation settings.

**Passed**

All used integer word length are compliant with hardware implementation settings.

---

✓ *Check bus object names that are used as bus element names*

Identify bus object names that are used as bus element names.

**Passed**

No bus object names are used as bus element names.

---

📁 Modeling Standards for Secure Coding (CERT C, CWE, ISO/IEC TS 17961) 0 0 2 0  
✓7 0

---

⚠ *Check configuration parameters for secure coding standards*

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

**Warning**

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

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



Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	<i>Prerequisite constraint not met.</i>	on	GenerateComments, SystemTargetFile

^ Less

### Recommended Action

Modify the configuration parameters listed above to the recommended values.

---

✓ *Check for blocks not recommended for C/C++ production code deployment*  
**Passed**

---

✓ *Check for blocks not recommended for secure coding standards*  
**Passed**

---

✓ *Check usage of Assignment blocks*  
**Passed**

---

✓ *Check for switch case expressions without a default case*  
Identify switch case expressions that do not have a default case.  
**Passed**  
All switch case expressions have default cases.

---

✓ *Check for bitwise operations on signed integers*  
Identify bitwise operations on signed integers.  
**Passed**  
No bitwise operations on signed integers found.

---

✓ *Check for equality and inequality operations on floating-point values*  
Identify equality and inequality operations on floating-point values.

**Passed**

No equality or inequality operations on floating-point values found.

---

✓ *Check integer word lengths*  
Identify integer word length that are not compliant with hardware implementation settings.

**Passed**

All used integer word length are compliant with hardware implementation settings.

📁 *High-Integrity Systems* 0 0 1 0 0 0

📁 *Code* 0 0 1 0 0 0

---

⚠ *Check configuration parameters for MISRA C:2012*  
Identify configuration parameters that might impact MISRA C:2012 compliant code generation.

**Warning**

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

Statu s	Parameter	Current Value	Recommended Values	Prerequisites
Warni ng	Model Verification block enabling (AssertControl)	UseLocalSet tings	DisableAll	

D - Warni ng	UtilityFuncGeneration	Auto	Shared location	
Warni ng	GenerateSharedConstants	<i>Prerequisite constraint not met.</i>	off	UtilityFuncGen eration
D - Warni ng	SystemTargetFile	Non-ERT based target	ERT based target	
Warni ng	SupportContinuousTime	<i>Prerequisite constraint not met.</i>	off	SystemTargetFil e
Warni ng	SupportNonInlinedSFcns	<i>Prerequisite constraint not met.</i>	off	SystemTargetFil e
Warni ng	MatFileLogging	on	off	
Warni ng	ParenthesesLevel	<i>Prerequisite constraint not met.</i>	Standards, Maximum	SystemTargetFil e
Warni ng	CastingMode	<i>Prerequisite constraint not met.</i>	Standards	SystemTargetFil e
Warni ng	InternalIdentifier	<i>Prerequisite constraint not met.</i>	Shortened	SystemTargetFil e
Warni ng	Use division for fixed-point net slope computation (UseDivisionForNetSlopeCo mputation)	off	on, UseDivisionForReciprocalsOfI ntegersOnly	
Warni ng	EnableSignedLeftShifts	<i>Prerequisite constraint not met.</i>	off	SystemTargetFil e
Warni ng	EnableSignedRightShifts	<i>Prerequisite constraint not met.</i>	off	SystemTargetFil e

Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	<i>Prerequisite constraint not met.</i>	on	GenerateComments, SystemTargetFile
Warning	InstructionSetExtensions	SSE2	None	

^ Less

### Recommended Action

Modify the configuration parameters listed above to the recommended values.

 Upgrading to the Current Simulink Version  0  0  1  0  0  0

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 [Open the Upgrade Advisor](#)

**Warning**

To check for upgrade issues, open the Upgrade Advisor.

**Recommended Action**

Click the link below to close the Model Advisor and open the Upgrade Advisor for Project\_v2.

[Open the Upgrade Advisor](#)