Model Advisor Report – ThyroidcheckupV3.slx

Simulink version: 10.5 **Model version:** 1.8

System: ThyroidcheckupV3/ThyroidCheckup_Subsystem **Current run:** 26-Mar-2022 15:39:43

Treat as Referenced Model: off

Run Summary

Incomplete	Failed	Warning	Justified	Passed	Not Run	Total
0	0	28	0	91	0	119

Model Advisor

By Product 0 0 13 0 47 0

Simulink 0 0 10 0 31 0

Identify unconnected lines, input ports, and output ports

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

Passed

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

Check root model Inport block specifications

This check is only supported at the model level. To run this analysis, please open the model advisor from the top level of the model instead of the subsystem level and start the analysis.

Check diagnostic settings ignored during accelerated model reference simulation

The configuration parameter settings passed the check.

Check for parameter tunability information ignored for referenced models

Passed

Check for implicit signal resolution

Passed

Check for optimal bus virtuality

Passed

Check for calls to slDataTypeAndScale()

Search for blocks that have data type parameters specified by using slDataTypeAndScale().

Required Replacement Cases

Identify calls to slDataTypeAndScale() that are no longer supported and thus should be replaced. Such calls always can be automatically replaced.

See Also

- slRemoveDataTypeAndScale() automatic replacement cases

Passed

No calls to slDataTypeAndScale() require replacement.

Recommended Replacement Cases

Identify unnecessary calls to slDataTypeAndScale() that the model advisor can automatically replace.

See Also

- slRemoveDataTypeAndScale() automatic replacement cases

Passed

No calls to slDataTypeAndScale() can be automatically replaced.

Manual Inspection Cases

Identify calls to slDataTypeAndScale() that might be unnecessary.

See Also

- slRemoveDataTypeAndScale() manual inspection cases

Passed

No calls to slDataTypeAndScale() require manual inspection.

Check for Discrete-Time Integrator blocks with initial condition uncertainty
Passed

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.

Check usage of function-call connections

Check 'Context-dependent inputs' setting

Verify that the **Context-dependent inputs** diagnostic is set to `error`.

Passed

Diagnostics > Connectivity > Context-dependent inputs is set to `error`.

Recommended Action

Check and update mask image display commands with unnecessary imread() function calls

Identify masks using an image display commands with unnecessary calls to imread(). Since 2013a, a performance and memory optimization is available for mask images specified via image path instead of RGB triple matrix.

Passed

No masked block found with unnecessary imread() calls in image display commands.

Check and update mask to affirm icon drawing commands dependency on mask workspace

Sets 'RunInitForIconRedraw' to 'on' if mask icon drawing commands have mask workspace dependency otherwise sets it to 'off'. Setting 'RunInitForIconRedraw' to 'off' optimizes the performance by not running the mask initialization code before drawing the block icon.

Passed

No masked block found to set 'RunInitForIconRedraw'.

Identify Environment Controller blocks to be replaced with Variant Source blocks

Passed

The model does not contain any Environment Controller blocks.

Runtime diagnostics for S-functions

Passed

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

Passed

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 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.

Check S-functions in the model

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

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 ThyroidcheckupV3.

Open the Upgrade Advisor

Check structure parameter usage with bus signals

This test is skipped because it requires an activated Simulink Coder product

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

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

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.

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 'Bus Usage' check works only from top-level models.

Recommended Action

Run the Model Advisor from the top-level model to perform this check.

Check for potentially delayed function-call block return values

Passed

Identify block output signals with continuous sample time and non-floating point data type

Passed

Check usage of Merge blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check usage of Outport blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check usage of Discrete-Time Integrator blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check model settings for migration to simplified initialization mode

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check for non-continuous signals driving derivative ports

Passed

Check data store block sample times for modeling errors

Passed

Check for potential ordering issues involving data store access

Passed

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.

Identify questionable operations for strict single-precision design

NOTE: This check can only be run from root level of a model.

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
ThyroidcheckupV3	Default for underspecified data type	double	single

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Check for double precision operations

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

Warning

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

- ThyroidcheckupV3/ThyroidCheckup_Subsystem/IfelseConditionSubsystem/If

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Embedded Coder 0 0 2 0 13 0

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

Passed

Check configuration parameters for MISRA C:2012

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

Warning

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

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	UtilityFuncGeneration	Auto	Shared location	
Warning	GenerateSharedConstants	*Prerequisite constraint not met.*	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile

Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	*Prerequisite constraint not met.*	Standards, Maximum	SystemTargetFile
Warning	CastingMode	*Prerequisite constraint not met.*	Standards	SystemTargetFile
Warning	InternalIdentifier	*Prerequisite constraint not met.*	Shortened	SystemTargetFile
Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	

Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile
Warning	InstructionSetExtensions	SSE2	None	

Λ Less

Recommended Action

Modify the configuration parameters listed above to the recommended values.

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 configuration parameters for secure coding standards

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

Warning

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

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile

Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile

Λ Less

Recommended Action

Modify the configuration parameters listed above to the recommended values.

Check for blocks not recommended for secure coding standards

Passed

Check for missing const qualifiers in model functions

Identify missing const qualifiers in model functions.

Passed

Model does not use customized model functions.

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.

Check for bitwise operations on signed integers

NOTE: This check can only be run from root level of a model.

Identify bitwise operations on signed integers.

Passed

No bitwise operations on signed integers found.

Check for recursive function calls

NOTE: This check can only be run from root level of a model.

Identify function calls that are recursive.

Passed

No recursive function calls found.

Check for equality and inequality operations on floating-point values

NOTE: This check can only be run from root level of a model.

Identify equality and inequality operations on floating-point values.

Passed

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

Check integer word lengths

NOTE: This check can only be run from root level of a model.

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

Passed

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

Simscape 0 0 1 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 outdated AC source blocks

Check model for AC source blocks that should be updated to the current version of the product.

Passed

No outdated AC source blocks found in the model.

Check for dry hydraulic nodes

Warning

This check is only supported at the model level.

Recommended Action

To run this analysis, please open the model advisor from the top level of the model instead of the subsystem level and start the analysis.

Simulink Coder 0 0 0 0 1 0

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.

By Task 0 0 15 0 44 0

Modeling Physical Systems 0 0 1 0 1 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

Warning

This check is only supported at the model level.

Recommended Action

To run this analysis, please open the model advisor from the top level of the model instead of the subsystem level and start the analysis.

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

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

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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 'Bus Usage' check works only from top-level models.

Recommended Action

Run the Model Advisor from the top-level model to perform this check.

Modeling Single-Precision Systems 0 0 1 0 0 0

Identify questionable operations for strict single-precision design

NOTE: This check can only be run from root level of a model.

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
ThyroidcheckupV3	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.

Warning

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

- ThyroidcheckupV3/ThyroidCheckup_Subsystem/IfelseConditionSubsystem/If

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Migrating to Simplified Initialization mode 0 0 4 0 0 0

Check usage of Merge blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check usage of Outport blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check usage of Discrete-Time Integrator blocks

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Check model settings for migration to simplified initialization mode

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

Model Referencing 0 0 3 0 3 0

Check diagnostic settings ignored during accelerated model reference simulation

The configuration parameter settings passed the check.

Check for parameter tunability information ignored for referenced models

Passed

Check for implicit signal resolution

Passed

Check bus signals treated as vectors

Bus signal treated as vector

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

Warning

The 'Bus Usage' check works only from top-level models.

Recommended Action

Run the Model Advisor from the top-level model to perform this check.

Check root model Inport block specifications

This check is only supported at the model level. To run this analysis, please open the model advisor from the top level of the model instead of the subsystem level and start the analysis.

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

This check works only from top-level models. Therefore, run the Model Advisor from the top-level model to perform this check.

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.

Status	**Parameter**	**Current Value**	**Recommended Values**	**Prerequisites**
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	
D - Warning	UtilityFuncGeneration	Auto	Shared location	
Warning	GenerateSharedConstants	*Prerequisite constraint not met.*	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	*Prerequisite constraint not met.*	Standards, Maximum	SystemTargetFile
Warning	CastingMode	*Prerequisite constraint not met.*	Standards	SystemTargetFile
Warning	InternalIdentifier	*Prerequisite constraint not met.*	Shortened	SystemTargetFile

Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile
Warning	InstructionSetExtensions	SSE2	None	

Λ 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

NOTE: This check can only be run from root level of a model.

Identify bitwise operations on signed integers.

Passed

No bitwise operations on signed integers found.

Check for recursive function calls

NOTE: This check can only be run from root level of a model.

Identify function calls that are recursive.

Passed

No recursive function calls found.

Check for equality and inequality operations on floating-point values

NOTE: This check can only be run from root level of a model.

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

NOTE: This check can only be run from root level of a model.

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	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	Inf or NaN block output (SignalInfNanChecking)	none	warning	
Warning	Dynamic memory allocation in MATLAB functions (MATLABDynamicMemAlloc)	on	off	
Warning	Undirected event broadcasts (SFUndirectedBroadcastEventsDiag)	warning	error	
Warning	Compile-time recursion limit for MATLAB functions (CompileTimeRecursionLimit)	50	0	
Warning	Enable run-time recursion for MATLAB functions (EnableRuntimeRecursion)	on	off	
Warning	MATLABFcnDesc	*Prerequisite constraint not met.*	on	GenerateComments, SystemTargetFile

Λ 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

NOTE: This check can only be run from root level of a model.

Identify bitwise operations on signed integers.

Passed

No bitwise operations on signed integers found.

Check for equality and inequality operations on floating-point values

NOTE: This check can only be run from root level of a model.

Identify equality and inequality operations on floating-point values.

Passed

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

Check integer word lengths

NOTE: This check can only be run from root level of a model.

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.

Status	Parameter	Current Value	Recommended Values	Prerequisites
Warning	Model Verification block enabling (AssertControl)	UseLocalSettings	DisableAll	

D - Warning	UtilityFuncGeneration	Auto	Shared location	
Warning	GenerateSharedConstants	*Prerequisite constraint not met.*	off	UtilityFuncGeneration
D - Warning	SystemTargetFile	Non-ERT based target	ERT based target	
Warning	SupportContinuousTime	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	SupportNonInlinedSFcns	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	MatFileLogging	on	off	
Warning	ParenthesesLevel	*Prerequisite constraint not met.*	Standards, Maximum	SystemTargetFile
Warning	CastingMode	*Prerequisite constraint not met.*	Standards	SystemTargetFile
Warning	InternalIdentifier	*Prerequisite constraint not met.*	Shortened	SystemTargetFile
Warning	Use division for fixed-point net slope computation (UseDivisionForNetSlopeComputation)	off	on, UseDivisionForReciprocalsOfIntegersOnly	
Warning	EnableSignedLeftShifts	*Prerequisite constraint not met.*	off	SystemTargetFile
Warning	EnableSignedRightShifts	*Prerequisite constraint not met.*	off	SystemTargetFile

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

Λ 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

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 ThyroidcheckupV3.

Open the Upgrade Advisor