

Simulink Design Verifier Report

example_01

16-Jan-2016 09:32:26

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Chapter 1. Summary

Analysis Information

Model: example_01
Mode: PropertyProving
Status: Completed normally
Analysis Time: 1342s

Objectives Status

Number of Objectives: 2
Objectives Proven Valid: 1
Objectives Falsified with Counterexamples: 1

Chapter 2. Analysis Information

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Model Information

File: example_01
Version: 1.14
Time Stamp: Sat Jan 16 09:09:08 2016

Analysis Options

Mode: PropertyProving
Proving Strategy: Prove
Proof Assumptions: UseLocalSettings
Test Objectives: UseLocalSettings
Assertions: UseLocalSettings
Maximum Analysis Time: 3000s
Block Replacement: off
Parameters Analysis: off
Save Data: on
Save Harness: off
Save Report: off

Approximations

Simulink Design Verifier performed the following approximations during analysis. These can impact the precision of the results generated by Simulink Design Verifier. Please see the product documentation for further details.

#	Type	Description
1	Rational approximation	The model includes floating-point arithmetic. Simulink Design Verifier approximates floating-point arithmetic with rational number arithmetic.

Chapter 3. Proof Objectives Status

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[Objectives Proven Valid](#)

[Objectives Falsified with Counterexamples](#)

Objectives Proven Valid

#	Type	Model Item	Description	Analysis Time (sec)	Counterexample
2	Proof objective	Verification Subsystem/Proof Objective1	Objective: T	738	n/a

Objectives Falsified with Counterexamples

#	Type	Model Item	Description	Analysis Time (sec)	Counterexample
1	Proof objective	Verification Subsystem/Proof Objective	Objective: T	1342	1

Chapter 4. Properties

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[Verification Subsystem/Proof Objective](#)
[Verification Subsystem/Proof Objective1](#)

Verification Subsystem/Proof Objective

Summary

Model Item: [Verification Subsystem/Proof Objective](#)
Property: Objective: T
Status: Falsified

Counterexample

Time	0	0.01	0.02
Step	1	2	3
In1	0	0	0
In2	1	0	0
In3	0	0	0
In4	1	0	0
In5	0	1	0
In6	1	0	1
In7	0	1	0
In8	1	1	1
In9	1	1	0
In10	1	1	1
In11	1	1	1
In12	1	1	1

Verification Subsystem/Proof Objective1

Summary

Model Item: [Verification Subsystem/Proof Objective1](#)
Property: Objective: T
Status: Proven valid