

TPT 19 Severe Issues

Introduction

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The following document contains a list of known severe issues of TPT. By severe issues we mean issues/bugs in particular versions of TPT that:

1. might cause malfunctions in the behavior of TPT
2. are hard or even impossible to find by the TPT user herself/himself
3. cause the risk that bugs/defects in a SUT (system under test) are not detected by TPT in cases where TPT would have been able to reveal these bugs/defects in the SUT without the aforementioned malfunction in the behavior of TPT.

Usually these severe issues address the situations where the problem might appear and have well-defined workarounds.

ISSUE # P90208485-43040

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TITLE: Enum import with duplicate constant can lead to an incorrect value for some of the constants to be imported to TPT

ISSUE DETECTION:

06/18/2024

AFFECTED VERSIONS OF TPT:

TPT 16 to TPT 20

PRECONDITIONS:

Enumeration data type with multiple constants using the same value present in C/C++ example or other data-source for interface import capable of importing enumeration data types to TPT.

DETAILS:

On interface import of an enumeration data type with more than one constant for the same value, the duplicate constants may get imported with an incorrect value.

EFFECT OF THE ISSUE:

The declared enumeration data type in TPT has incorrect values for the affected constants.

WORKAROUND:

Ensure that this use-case does not occur within the data source of the interface import before import the interface to TPT or manually review the constants for imported enumeration data types.

RESOLVED IN:

TPT 2024.12

ISSUE # 35247

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TITLE: Incorrect coverage results for MC/DC when using TPT Coverage with complex left-bound logical operations.

ISSUE DETECTION:

25-May-2023

AFFECTED VERSIONS OF TPT:

TPT 18 to TPT 18u3, TPT 19

PRECONDITIONS:

The user-code (C/C++ Platform) or a Stateflow transition (MATLAB platform) contains a complex left-bound inter logical condition - e.g. within a single decision.

TPT Coverage (TASMO) is enabled for the platform or the TASMO test data generation is used.

DETAILS:

The MC/DC coverage for some goals may be evaluated as covered although it is not.

EFFECT OF THE ISSUE:

Some coverage goals may be marked as covered although they are not. The overall statistics may have incorrect numbers.

WORKAROUND:

Do not measure the MC/DC Coverage with TPT coverage (TASMO) if this use-case occurs.

RESOLVED IN:

TPT 18u4, TPT 19u1