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TABLE OF CONTENTS

1 Overview ........................................................................................................................................4
2 Purpose of Intel® Processor Diagnostic Tool..................................................................................4
3 IPDT Test System Requirements......................................................................................................4
4 IPDT Software Requirements...........................................................................................................6
5 Release Notes...................................................................................................................................7
6 Bug Fixes .........................................................................................................................................8
7 Known Issues...................................................................................................................................8
1 Overview

Intel® Processor Diagnostic Tool 32bit version 4.1.4.36.W has been updated to include functional and security updates. Intel recommends all users update to the latest version.

2 Purpose of Intel® Processor Diagnostic Tool

The purpose of the Intel® Processor Diagnostic Tool is to verify the functionality of an Intel® microprocessor. The diagnostic checks for brand identification, verifies the processor operating frequency, tests specific processor features and performs a stress test on the processor.

The diagnostic can be configured to execute in one of two modes, presence test mode or verification mode. Additionally, it can be configured to enable (run) or disable (skip) individual default configurations are used for this mode of operation.

3 IPDT Test System Requirements

Motherboard & Processor
It is essential that the motherboard you use to test your processor is fully compatible with your Intel® processor. Consult your motherboard manufacturer's support to ensure the motherboard supports your processor. If you are using an Intel® Motherboard please use this utility Intel® Processors and Boards Compatibility Tool.

Motherboard BIOS
It is essential that the motherboards BIOS is at the minimum BIOS revision specified to support your Intel® processor. Consult your motherboard manufacturer's support to ensure the BIOS revision is at the correct revision.

Motherboard Architecture
IPDT is only compatible with motherboards built using Intel® Architecture.

Over-Clocking
Over-Clocking should be disabled while running Intel® Processor Diagnostic Tool.
Power Management
Some power management features throttle or reduce the operating frequency of components within the system. These types of power management features may result in very low tested frequency results. This does not mean that the processor is operating at degraded performance levels. It means that the enabled power management feature is optimizing the efficiency of the processor, either to save power or reduce heat within the system.

We recommend you disable any power management features such as Intel SpeedStep® technology and configure your system to its optimal power management settings, when running Intel® Processor Diagnostic Tool. For instructions on how to disable these power management features, please contact your system manufacturer.

In addition, Intel® Turbo Boost Technology 2.0 automatically allows processor cores to run faster than the rated operating frequency if they're operating below power, current, and temperature specification limits. Availability and frequency upside of Intel Turbo Boost Technology 2.0 state depends upon a number of factors including, but not limited to the following: type of workload, number of active cores, estimated current consumption, estimated power consumption, and processor temperature.

Operating Systems
The Windows® version of the Intel® Processor Diagnostic Tool is compatible with the following operating systems (Please download and install the relevant IPDT installer for your Operating System – 32Bit or 64Bit):

- Windows 10
- Windows 8.1
- Windows 8
- Windows 7 SP1
- Windows Server 2008 R2 SP1 (not supported on Server Core Role)
4 IPDT Software Requirements

The following software is required to run IPDT in the Windows® environment and must be installed prior to installing IPDT.


The IPDT Installer program will check for the presence of the above prerequisite on your system. If your system is connected to the internet the prerequisite will be downloaded and installed on your system prior to installation of IPDT.

- *If your Intel Processor supports AVX, your Operating System will also need to support AVX in order to run IPDT AVX test.*

  *Operating System minimum requirements for running IPDT AVX test: Microsoft Windows: supported in Window 7 SP1 and Windows Server 2008 R2 SP1. Hotfix 2517374 available for non-SP1 version of Windows Server 2008 R2.*
## 5 Release Notes

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-Sept-2019</td>
<td>The 4.1.4.36 release includes:</td>
</tr>
<tr>
<td></td>
<td>• The addition of diagnostic module:</td>
</tr>
<tr>
<td></td>
<td>o FrequencyCheck version 1.0.1.32b.W</td>
</tr>
<tr>
<td></td>
<td>• Update of diagnostic modules for feature functionality and/or bug fixes.</td>
</tr>
<tr>
<td></td>
<td>o GPUStressW version 1.0.11.32b.W</td>
</tr>
<tr>
<td></td>
<td>o IMC version 1.0.17.32b.W</td>
</tr>
<tr>
<td></td>
<td>o IPDT GUI version 4.1.4.36</td>
</tr>
<tr>
<td>22-July-2019</td>
<td>The 4.1.3.35 release includes:</td>
</tr>
<tr>
<td></td>
<td>• The removal of diagnostic modules:</td>
</tr>
<tr>
<td></td>
<td>o CPU Frequency</td>
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<tr>
<td></td>
<td>o Temperature</td>
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<tr>
<td></td>
<td>o PCH</td>
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<tr>
<td></td>
<td>o SPBC</td>
</tr>
<tr>
<td></td>
<td>• Removal of redundant and obsolete diagnostic modules.</td>
</tr>
<tr>
<td></td>
<td>o VisCollisions</td>
</tr>
</tbody>
</table>
6  Bug Fixes

<table>
<thead>
<tr>
<th>Reference No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA ID:</td>
<td>INTEL-SA-00268</td>
</tr>
</tbody>
</table>


Fix for the following potential vulnerability: Ensure IPDT is at version 4.1.3.35 or newer

7  Known Issues

<table>
<thead>
<tr>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphics tests may display a white screen during execution</td>
<td>Ensure latest Graphics Drivers are installed</td>
</tr>
<tr>
<td>If web installation of .NET452 is necessary as installer prerequisite and the target system has no internet connection, Setup will fail and report “0x80072ee7 – Unspecified Error.”</td>
<td>Ensure that PC has active internet connection available for integrated web installation or provide alternate offline .NET redistributable package as indicated in Section 4 above.</td>
</tr>
</tbody>
</table>

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The Intel® Processor Diagnostic for Windows 32 Bit OS Release Notes
September 10, 2019
Page 8 of 8