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1 Introduction
This document provides a brief overview of the Intel® System Studio 2016 for Windows* and provides pointers to where you can find additional product information, technical support, articles and whitepapers.

It also explains how to install the Intel® System Studio product. Installation is a multi-step process and may contain components for the development host and the development target. Please read this document in its entirety before beginning and follow the steps in sequence.

The Intel® System Studio 2016 for Windows* consists of multiple components for developing, tuning and deploying system and application code targeted towards embedded, Intelligent Systems, Internet of Things and mobile designs.

It is intended for use on Microsoft* Windows* host operating systems with the intention of deploying build results and doing sampling analysis on Microsoft* Windows* and Microsoft* Windows* Embedded target.

The tool suite is targeting development for embedded intelligent system platforms ranging from Intel® Atom™ Processor based low-power embedded platforms to 3rd, 4th, 5th and 6th generation Intel® Core™ microarchitecture based designs. Please refer to the Intel® System Studio User’s Guide for guidance on how to apply Intel® System Studio to the various use case scenarios that are available with this versatile product.

Due to the nature of this comprehensive integrated software development tools solution, different Intel® System Studio components may be covered by different licenses. Please see the licenses included in the distribution as well as the Disclaimer and Legal Information section of these release notes for details.

Optimization Notice

Intel’s compilers may or may not optimize to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include SSE2, SSE3, and SSSE3 instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimizations on microprocessors not manufactured by Intel. Microprocessor-dependent optimizations in this product are intended for use with Intel microprocessors. Certain optimizations not specific to Intel microarchitecture are reserved for Intel microprocessors. Please refer to the applicable User and Reference Guides for
more information regarding the specific instruction sets covered by this notice.

Notice revision #20110804
2 What's New

This section highlights important changes in the actual product release.
More detailed information about new features and changes in the respective product release
notes (s. also section ‘6.1 Release Notes and User Guide Location’)

Intel® System Studio 2016 Update 2 for Windows*

1. Intel® C++ Compiler:
   - Support for Microsoft Visual Studio* 2015 Update 1
     - The Short Vector Random Number Generator (SVRNG) library provides intrinsics for the IA-32 and Intel® 64 architectures running on supported operating systems. The SVRNG library partially covers both standard C++ and the random number generation functionality of the Intel® Math Kernel Library (Intel® MKL). Complete documentation may be found in the Intel® C++ Compiler 16.0 User and Reference Guide.
   - Intel® SIMD Data Layout Templates (Intel® SDLT)
     - Intel® SDLT is a library that helps you leverage SIMD hardware and compilers without having to be a SIMD vectorization expert.
       - Intel® SDLT can be used with any compiler supporting ISO C++11, Intel® Cilk™ Plus SIMD extensions, and #pragma ivdep
     - Intel® SIMD Data Layout Templates:
       - New C++14 and C11 features supported
       - And many others ... For a full list of new features please refer to the Composer Edition product release notes

2. Intel® Math Kernel Library (Intel® MKL)
   - Introduced mkl_finalize function to facilitate usage models when Intel MKL dynamic libraries or third party dynamic libraries are linked with Intel MKL statically are loaded and unloaded explicitly
   - Introduced sorting algorithm
   - Performance improvements for BLAS, LAPACK, ScaLAPACK, Sparse BLAS
   - Several new features for Intel MKL PARDISO
   - Added Intel® TBB threading support for all and OpenMP* for some BLAS level-1 functions.

3. Intel® Performance Primitives (Intel® IPP)
   - Image Processing:
     - Added the contiguous volume format (C1V) support to the following 3D data processing functions: ipprWarpAffine, ipprRemap, and ipprFilter.
     - Added the ippiFilterBorderSetMode function to support high accuracy rounding mode in ippiFilterBorder.
     - Added the ippiCopyMirrorBorder function for copying the image values by adding the mirror border pixels.
     - Added mirror border support to the following filtering functions: ippiFilterBilateral, ippiFilterBoxBorder, ippiFilterBorder, ippiFilterSobel, and ippiFilterSchar.
- Kernel coefficients in the ippiFilterBorder image filtering functions are used in direct order, which is different from the ippiFilter functions in the previous releases.

- Computer Vision:
  - Added 32-bit floating point input data support to the ippiSegmentWatershed function.
  - Added mirror border support to the following filtering functions: ippiFilterGaussianBorder, ippiFilterLaplacianBorder, ippiMinEigenVal, ippiHarrisCorner, ippiPyramidLayerDown, and ippiPyramidLayerUp.

- Signal Processing:
  - Added the ippsThreshold_LTAbsVal function, which uses the vector absolute value.
  - Added the ippsIIRIR64f functions to perform zero-phase digital IIR filtering.

The multi-threaded libraries only depend on the Intel® OpenMP* libraries; their dependencies on the other Intel® Compiler runtime libraries were removed.

Intel® System Debugger:

- Unified installer now for all components of the Intel® System Debugger (for system debug, system trace and WinDbg* extension)
- Support for Eclipse* 4.4 (Luna) integration with Intel® Trace Viewer
- New ‘Trace Profiles’ feature for System Trace Viewer to configure the destination for streaming mode for:
  - BIOS Reserveed Trace Memory
  - Intel® Trace Hub Memory
  - Streaming to DCI-Closed Chassis Adapter (BSSB CCA)
- Tracing to memory support (Intel® Trace Hub or system DRAM memory) for 6th Gen Intel® Core™ processors (PCH) via Intel® XDP3 JTAG probe.
- Trace Viewer improvements: Event distribution viewer. New progress bar when stopping a trace to memory. Rules are saved now in Eclipse workspace and restored during Eclipse restart. Improved memory download with wrapping enabled.
- Debugging support for Intel® Xeon® Processor D-1500 Product Family on the Grangeville platform.
- System Debugger improvements: Export memory window to text file.

5. Intel® Graphics Performance Analyzer (Intel® GPA)

- Added support for 32-bit and 64-bit applications on Android M (6.0, Marshmallow).
- Intel Graphics Performance Analyzers are now in a single package for Windows users.
- Added support for OS X 10.11 El Capitan.
- Implemented texture storage parameters modification experiment - you can now change dimensions and sample count parameters for input textures without recompiling your app.
- Can now export textures in KTX/DDS/PNG file formats.
- And much more....
View the full release notes for more details.

6. Intel® VTune™ Amplifier for Systems

- Support for the Microsoft Windows* 10 November update
- Support for the ITT Counters API used to observe user-defined global characteristic counters that are unknown to the VTune Amplifier
- Support for the Load Module API used to analyze code that is loaded in an alternate location that is not accessible by the VTune Amplifier
- Option to limit the collected data size by setting a timer to save tracing data only for the specified last seconds of the data collection added for hardware event-based sampling analysis types
- New Arbitrary Targets group added to create command line configurations to be launched from a different host. This option is especially useful for microarchitecture analysis since it provides easy access to the hardware events available on a platform you choose for configuration.
- Source/Assembly analysis available for OpenCL™ kernels (with no metrics data)
- SGX Hotspots analysis support for identifying hotspots inside security enclaves for systems with the Intel Software Guard Extensions (Intel SGX) feature enabled
- Metric-based navigation between call stack types replacing the former Data of Interest selection
- Updated filter bar options, including the selection of a filtering metric used to calculate the contribution of the selected program unit (module, thread, and so on)
- DRAM Bandwidth overtime and histogram data is scaled according to the maximum achievable DRAM bandwidth

7. Intel® Inspector

- Support for the Microsoft Windows* 10 OS support
- Support for Microsoft Visual Studio* 2015 IDE integration

2.1 Versions History
This section highlights important changes in previous Intel® System Studio 2016 product versions.

Intel® System Studio 2016 Update 1 for Windows*

1. Intel® C++ Compiler:
   - Enhancements for offloading to Intel® Graphics Technology
   - Support for Windows* 10
   - Support for Microsoft Visual Studio* 2015

2. Intel® Energy Profiler (SoC Watch):
• Added support for collection of gfx-cstate and ddr-bw metrics on platforms based on Intel® Core™ architecture.

3. Intel® System Debugger:
• New options for the debugger’s “Restart” command
• System Trace Viewer:
  o New “Event Distribution View” feature
  o Several improvements in the Trace Viewer GUI.

3 Intel® Software Manager
The Intel® Software Manager, automatically installed with the Intel® System Studio product, is a Windows System Tray application to provide a simplified delivery mechanism for product updates, current license status and news on all installed Intel software products.

You can also volunteer to provide Intel anonymous usage information about these products to help guide future product design. This option, the Intel® Software Improvement Program, is not enabled by default – you can opt-in during installation or at a later time, and may opt-out at any time. For more information please see http://intel.ly/SoftwareImprovementProgram.

4 Product Contents
The product contains the following components

1. Intel® C++ Compiler 16.0 Update 2
2. Intel® Integrated Performance Primitives 9.0 Update 2
3. Intel® Math Kernel Library 11.3 Update 2
4. Intel® Threading Building Blocks 4.4 Update 3
5. Intel® Graphics Performance Analyzers 2015 R4
6. Intel® VTune™ Amplifier 2016 Update 2 for Systems with Intel® Energy Profiler
7. Intel® Inspector 2016 for Systems
8. Intel® System Debugger 2016
   8.1. Intel® System Debugger notification module xdbntf.ko (provided under GNU General Public License v2)
10. OpenOCD 0.8.0 library (provided under GNU General Public License v2+) (64-bit host only)
10.1. OpenOCD 0.8.0 source (provided under GNU General Public License v2+)

5 Getting Started
Please refer to the Getting Started Guide and Intel® System Studio User’s Guide for guidance on Intel® System Studio use cases and supported usage models.
The following paths are given relative to the installation directory <install-dir>. The default installation directory is C:\Program Files (x86)\IntelSWTools unless indicated differently.

Intel® System Studio Installation Notes

Intel® System Studio User’s Guide
- <install-dir>\documentation_2016\en\iss2016\iss_ug.pdf

Intel® System Studio Getting Started Guide
- <install-dir>\documentation_2016\en\iss2016\iss_gsg_win_win.htm
6 Technical Support and Documentation

6.1 Release Notes and User Guides Location

The release notes and getting started guide for the tools components making up the Intel® System Studio product can be found at the following locations after installation is complete.

**Intel® System Studio Release Notes and Installation Guide**
- <install-dir>\documentation_2016\en\iss2016\w-all-release-install.pdf

**Intel® C++ Compiler**
- <install-dir>\documentation_2016\en\compiler_c\ReleaseNotes_ISS_Compiler.pdf

**Intel® Integrated Performance Primitives**
- <install-dir>\documentation_2016\en\ipp\iss2016\ReleaseNotes.htm

**Intel® Math Kernel Library**
- <install-dir>\documentation_2016\en\mkl\common\ReleaseNotes.htm

**Intel® Threading Building Blocks**
- <install-dir>\documentation_2016\en\tbb\common\Release_Notes.txt

**Intel® VTune™ Amplifier**
- <install-dir>\Vtune Amplifier for Systems\documentation\en\release_notes_amplifier_for_systems_windows.pdf
- <install-dir>\Vtune Amplifier for Systems\documentation\en\amplsys_install_guide_windows.pdf
- <install-dir>\Vtune Amplifier for Systems\documentation\en\SEP_Users_Guide.pdf
- <install-dir>\Vtune Amplifier for Systems\documentation\en\emon_user_guide.pdf
- <install-dir>\Vtune Amplifier for Systems\documentation\en\socwatch_<OS>_release_notes.pdf
- <install-dir>\Vtune Amplifier for Systems\documentation\en\socwatch_<OS>_users_guide.pdf

**Intel® Inspector**
- <install-dir>\Inspector for Systems\documentation\en\Release_Notes_Inspector_Windows.pdf

**Intel® System Studio System Analyzer**
6.2 Article & Whitepaper Locations

Intel® System Studio Tutorials and Samples
- `<install-dir>\documentation_2016\en\iss2016\samples-and-tutorials.html`

Intel® System Studio Articles and Whitepapers
- For a list of all available articles, whitepapers and related resources please visit the Intel® System Studio product page at [http:\software.intel.com\en-us\intel-system-studio](http:\software.intel.com\en-us\intel-system-studio) and look at the Support tab.

6.3 Support

If you did not register your compiler during installation, please do so at the Intel® Software Development Products Registration Center. Registration entitles you to free technical support, product updates and upgrades for the duration of the support term.

To submit issues related to this product please visit the Intel Premier Support webpage and submit issues under the product Intel(R) System Studio.

Additionally you may submit questions and browse issues in the Intel® System Studio User Forum.
For information about how to find Technical Support, product documentation and samples, please visit [http:\software.intel.com\en-us\intel-system-studio](http:\software.intel.com\en-us\intel-system-studio).

**Note:** If your distributor provides technical support for this product, please contact them for support rather than Intel.
7 System Requirements

7.1 Supported Host Platforms
One of the following operation distributions (this is the list of distributions supported by all components; other distributions may or may not work and are not recommended - please refer to Technical Support if you have questions).

Windows* 7, 8.x, 10

Individual Intel® System Studio 2016 components may support additional distributions. Please refer to the release notes of the respective components (section ‘6.1 Release Notes and User Guides Locations’).

7.2 Microsoft® Visual Studio® Integration
The prerequisite for successful Microsoft® Visual Studio® integration and use of use the Microsoft Visual Studio® development environment or command-line tools to build IA-32 or Intel® 64 architecture applications, is the presence of one of:

- Microsoft Visual Studio 2015*
- Microsoft Visual Studio 2013* Professional Edition (or higher edition) with C++ component installed
- Microsoft Visual Studio 2012* Professional Edition (or higher edition) with C++ component installed
- Microsoft Visual Studio 2010* Professional Edition (or higher edition) with C++ and "X64 Compiler and Tools" components installed

To use command-line tools only to build IA-32 architecture applications, one of:
- Microsoft Visual C++ Express 2013 for Windows Desktop*
- Microsoft Visual C++ Express 2012 for Windows Desktop*
- Microsoft Visual C++ 2010* Express Edition

To use command-line tools only to build Intel® 64 architecture applications, one of:
- Microsoft Visual C++ Express 2013 for Windows Desktop*
- Microsoft Visual C++ Express 2012 for Windows Desktop*
- Microsoft Windows* Software Development Kit for Windows 8* or 8.1*

7.3 Hardware Requirements
- IA32 or Intel® 64 architecture based host computer supporting the Intel® Streaming SIMD Extensions 2 (Intel® SSE2) instructions (Intel® Pentium® 4 processor or later), or compatible non-Intel processor
  - For the best experience, a multi-core or multi-processor system is recommended
- Development target platform based on the Intel® Atom™ processor Z5xx, N4xx, N5xx, D5xx, E6xx, N2xxx, D2xxx, Z2xxx, Z3xxx, E3xxx, C2xxx or Intel® Atom™ processor CE4xxx, CE53xx and the Intel® Puma™ 6 Media Gateway
• Alternatively development platform based on 2nd, 3rd, 4th, 5th or 6th generation Intel® Core™ processor.
• Xeon® processors based on 2nd, 3rd 4th or 5th generation Intel® Core™ architecture.

7.4 Host Prerequisites and Resource Requirements

7.4.1 Host Space Requirements by Component

<table>
<thead>
<tr>
<th>Component</th>
<th>Minimum RAM</th>
<th>Recommended RAM</th>
<th>Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® System Studio</td>
<td>2Gb</td>
<td>4Gb</td>
<td>5Gb</td>
</tr>
<tr>
<td>Intel® C++ Compiler</td>
<td>1Gb</td>
<td>2Gb</td>
<td>2.5Gb</td>
</tr>
<tr>
<td>Intel® Integrated Performance Primitives</td>
<td>1Gb</td>
<td>4Gb</td>
<td>1-2Gb</td>
</tr>
<tr>
<td>Intel® Math Kernel Library</td>
<td>1Gb</td>
<td>4Gb</td>
<td>2.3Gb</td>
</tr>
<tr>
<td>Intel® VTune™ Amplifier for Systems</td>
<td>2Gb</td>
<td>4Gb</td>
<td>650Mb</td>
</tr>
<tr>
<td>Intel® Inspector for Systems</td>
<td>2Gb</td>
<td>4Gb</td>
<td>350Mb</td>
</tr>
<tr>
<td>Intel® Threading Building Blocks</td>
<td>1Gb</td>
<td>2Gb</td>
<td>300Mb</td>
</tr>
</tbody>
</table>

7.4.2 Intel® Integrated Performance Primitives (Intel® IPP) Details

Intel® Integrated Performance Primitives (Intel® IPP) for IA-32 Hardware Requirements:

• 1800MB of free hard disk space, plus an additional 400MB during installation for download and temporary files.

Intel® Integrated Performance Primitives (Intel® IPP) for Intel® 64 Hardware Requirements:

• 1900MB of free hard disk space, plus an additional 700MB during installation for download and temporary files.

7.5 Target Software Requirements

The target platform should be based on one of the following environments:

• Microsoft Windows* 7, 8.x, 10
• Microsoft Windows* Embedded Standard 7, 8.x, 10

Note:
The level of target OS support by a specific Intel® System Studio component may vary.
7.6 Target Prerequisites and Resource Requirements

7.6.1 Target Space Requirement by Component

<table>
<thead>
<tr>
<th>Component</th>
<th>Minimum RAM</th>
<th>Dependencies</th>
<th>Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® C++ Compiler</td>
<td>application dependent</td>
<td>Linux kernel 1.26.18 or newer glibs-2.5 or compatible libgcc-4.1.2 or compatible libstdc++-3.4.7 or compatible</td>
<td>13Mb (IA-32) 15Mb (Intel® 64)</td>
</tr>
<tr>
<td>Intel® VTune™ Amplifier CLI</td>
<td>4Gb</td>
<td>Specific kernel configuration reqs. Details below.</td>
<td>200Mb</td>
</tr>
<tr>
<td>Intel® VTune™ Amplifier SEP</td>
<td>(# logical cores+2) Mb</td>
<td>Specific kernel configuration reqs. Details below.</td>
<td>8Mb</td>
</tr>
<tr>
<td>SoC Watch</td>
<td>(# logical cores+2) Mb</td>
<td>Specific kernel configuration reqs. See SoCWatch documentation</td>
<td>8Mb</td>
</tr>
</tbody>
</table>

7.7 Intel® Graphics Technology development specific requirements

Up-to-date information on hardware, operating system and driver requirements for offloading computations to the integrated processor graphics can be found on the following page:

8 Installation Notes

8.1 Installing the Tool Suite
The installation process as well as prerequisites for using the different Intel® System Studio components are documented online and can be found here:


The default base installation, in the following referred to as <install-dir> directory is:

C:\Program Files (x86)\IntelSWTools

Important Note: As indicated in the installation process, Intel® System Studio 2015 customers need to upgrade their license either by entering an Intel® System Studio 2016 serial number directly or by obtaining the new license file from Intel® Registration Center. More information on this can be found on the following page:


8.1.1 Running the Installer
You have the choice to use the online installer which is a small agent that downloads installation packages according to the products you will choose for installation.

Alternatively you can use the full package offline installer which doesn’t require an Internet connection for installation.

To start installation, run one of the following (you must have administrator rights):

- Double-click the downloaded online installer agent
  system_studio_2016.2.xxx_windows_target_online.exe
  or

- Double-click the downloaded full package offline installer
  system_studio_2016.2.xxx_windows_target.exe

8.1.2 Activating the Product
During installation of the Intel® System Studio 2016 an activation dialog pops up providing the following options

- **Use existing activation** (this option is visible when the product installer recognized an existing valid license on the system)
- **Activation with Serial Number**. (“Online Activation”, requires Internet connection; the format of the serial number is: xxxx-xxxxxxxx)
- **Evaluation activation** (no serial number required; installs a 30-days license on the system with full functionality)
- **Use a license manager** (license manager must be running and accessible from the install machine)
• **Use license file** (license file .lic must be available on the install machine, no internet connection required)

The Intel® Software Manager (see section. 3) can be used to manage your activations after product installation. It can for example convert an evaluation activation into a full product activation (after product license purchase) without re-installing the product.

### 8.1.3 Default / Customized Installation

When the Installation Summary dialog pops up, just click the ‘Next’ for a default installation or on ‘Customize’ button to modify the list of components to install.

### 8.2 Uninstalling / Modifying / Repairing the Tool Suite

You can uninstall the complete product, modify (if you want to uninstall specific component or install new components) or repair an installation (if you think something has broken). You can choose one of the following:

- Start the Windows* system’s Control Panel, choose ‘**Uninstall a program**’ / *Intel System Studio 2016 [Update #]*
  
or

- Run the `c:\Program Files (x86)\Intel\Download\system_studio_2016.2.xxx_windows_target\setup.exe`

and choose the desired option, ‘**Modify**’, ‘**Repair**’ or ‘**Remove**’

### 8.3 Installation Directory Structure

Intel® System Studio for Windows* 2016 installs components which are unique to System Studio into `<install-dir>\system_studio_for_windows_2016.1.xxx` and components which share subcomponents (such as documentation) with other Intel® Software Development Products into `<install-dir>`.

The Intel® System Studio for Windows* 2016 installation directory contains tools and directories as well as links to shared components into the parent directory for Intel® C++ Compiler, Intel® Integrated Performance Primitives, Intel® Math Kernel Library, Intel® Threading Building Blocks, Intel® System Debugger, Intel® VTune™ Amplifier and Intel® Inspector respectively as follows:

- `<install-dir>\system_studio_for_windows_2016.2.xxx\compilers_and_libraries_2016`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\debugger`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\documentation_2016`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\Energy Profiler`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\GPA`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\Inspector for Systems`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\licensing`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\samples_2016`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\VTune Amplifier for Systems`

**Intel® Software Development Products Common Components Directory with Links from System Studio**

- `<install-dir>\compilers_and_libraries`
- `<install-dir>\compilers_and_libraries_2016`
- `<install-dir>\compilers_and_libraries_2016.2.xxx`
- `<install-dir>\documentation_2016`
- `<install-dir>\eclipse`
- `<install-dir>\Inspector 2016 for Systems`
- `<install-dir>\Inspector for Systems`
- `<install-dir>\samples_2016`
- `<install-dir>\SoCWatch`
- `<install-dir>\System Debugger 2016`
- `<install-dir>\system_studio_for_windows_2016.2.xxx\`
- `<install-dir>\VTune Amplifier 2016 for Systems`
- `<install-dir>\VTune Amplifier for Systems`

**Note:** Please be aware that the presence of a Microsoft* Visual Studio* 2010 – 2015 installation is required for successful product installation and usage.
9 Issues and Limitations

9.1 Known Issues and Limitations
For known issues of individual Intel® System Studio components please refer to the individual component release notes. Their location in the installed product can be found in chapter 2:

Technical Support and Documentation

9.1.1 MSBuild.exe should be closed before installation
During installation/uninstallation of Intel® System Studio 2016 for Windows you may get the following dialog:

The following application should be closed before continuing the install:

- MSBuild.exe

In order to continue installation/uninstallation, please, close MSBuild.exe process and click “Retry” button.

In order to avoid this situation, please, make sure MSBuild.exe process is closed before starting the installation/uninstallation of Intel® System Studio 2016 for Windows*.

9.1.2 Running online-installer behind proxy server fails
Running online-installer behind proxy server produces error: "Connection to the IRC site cannot be established". Please see the Installation Notes for more details

9.1.3 No coexistence of Intel® Parallel Studio XE 2015 and Intel® System Studio 2016 Visual Studio* Integration
If Intel® System Studio for Windows* 2016 are installed on the same machine as Intel® Parallel Studio XE 2015, then the following issues may be observed:

1. Visual Studio* displays dialog windows with error message that package is not loaded correctly.

2. Missing “Use Intel® C++” menu item in “Project -> Intel Compiler” context menu


The workaround is the following:

1. Open Microsoft Windows* Explorer as Administrator and go to “<Visual Studio Install Directory>\Common7\IDE\Extensions\Intel\C++”

2. Copy *.ISS.pkgdef files to *.pkgdef files (overwrite existing .pkgdef files):
   
   IntelPkg.<ISS>.pkgdef -> IntelPkg.pkgdef
3. Go to <Visual Studio* Install Directory>\Common7\IDE\Extensions\Intel\Common

4. Copy *.ISS.pkgdef to *.pkgdef files (overwrite existing .pkgdef files):

5. Open Developer command prompt for selected Visual Studio*:

6. On command prompt type: devenv /setup

9.1.4 Graphics Analysis Tools installation failure on Windows* host with script custom actions
The installation of Intel® System Studio System Analyzer, Frame Analyzer and Platform Analyzer may fail on rare occasions with the following Windows* error message:

1. 2738, Could not access VBScript run time for custom action [2].
2. 2739, Could not access JScript run time for custom action [2].

If this error message occurs, the installation can be completed after applying the following steps:

- Check that vbscript.dll and jscript.dll aren't registered in HKEY_CURRENT_USER (HKCU), checking for the registry keys below.
- VBScript, HKCU\SOFTWARE\Classes\CLSID\{ B54F3741-5B07-11CF-A4B0-00AA004A55E8}  
- JScript, HKCU\SOFTWARE\Classes\CLSID\{ F414C260-6AC0-11CF-B6D1-00AA00BBBB58}  
- JScript, HKCU\SOFTWARE\Classes\CLSID\{ F414C261-6AC0-11CF-B6D1-00AA00BBBB58}  
- JScript, HKCU\SOFTWARE\Classes\CLSID\{ F414C262-6AC0-11CF-B6D1-00AA00BBBB58}  
- Remove these keys if they exist in HKEY_CURRENT_USER.

9.1.5 Some hyperlinks in HTML documents may not work when you use Internet Explorer.
Try using another browser, such as Chrome or Firefox, or right-click the link, select Copy shortcut, and paste the link into a new Internet Explorer window.
10 Attributions

This product includes software developed at:

The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- the W3C consortium (http://www.w3c.org),
- the SAX project (http://www.saxproject.org)
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