Overview

The Intel® Media Software Development Kit (Intel® Media SDK) Samples demonstrate how to incorporate the Intel Media SDK into an application. Included are:

- Command-line (console) Decoding from an elementary stream to raw (uncompressed) frames, including stereoscopic 3D (S3D) rendering of elementary MVC (Multi-View Video Coding) stream
- Command-line Encoding from raw frames to an elementary stream
- Command-line Video Processing to and from raw frames
- Command-line Transcoding from and to an elementary stream
- Command-line Video Conferencing sample (encoding with Video Conferencing features control)
- Dynamic Link Library User Plug-in implementing picture rotation
- Dynamic Link Library User Plug-in implementing picture rotation using Intel® OpenCL™
- C++ utility class implementing VPP-Plugin-VPP pipeline
- Application Sample with GUI (Graphical User Interface) for playback and transcoding using Microsoft* DirectShow*
- Application Sample with GUI for playback and transcoding using Microsoft Multimedia Framework Plug-ins
- Microsoft DirectShow Plug-Ins (Filters)
- Microsoft Media Foundation* Plug-Ins
- A Metro style sample application for transcoding from various media formats to MP4 format with control over encoding parameters

Each sample includes:

- A readme file. Read this material first and follow the instructions therein. The readme file is located in the first folder listed in boldface type in the Sample Location table.
- Source and header files for the samples.

Software Requirements

See <install-folder>\mediasdk_release_notes.pdf for software requirements.

*Other names and brands may be claimed as the property of others.
Sample Locations

Material for each sample application is located in the following folders:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Console (command-line) Decoding/S3D Rendering</td>
<td><code>&lt;install-folder&gt;\samples\sample_decode\</code></td>
</tr>
<tr>
<td>Console Encoding</td>
<td><code>&lt;install-folder&gt;\samples\sample_encode\</code></td>
</tr>
<tr>
<td>Console Video Processing</td>
<td><code>&lt;install-folder&gt;\samples\sample_vpp\</code></td>
</tr>
<tr>
<td>Console Transcoding</td>
<td><code>&lt;install-folder&gt;\samples\sample_multi_transcode</code></td>
</tr>
<tr>
<td>Console Video Conferencing</td>
<td><code>&lt;install-folder&gt;\samples\sample_videoconf</code></td>
</tr>
<tr>
<td>Dynamic Link Library (DLL) User Plug-in implementing picture rotation</td>
<td><code>&lt;install-folder&gt;\samples\sample_user_modules\rotate_cpu</code></td>
</tr>
<tr>
<td>DLL User Plug-in implementing picture rotation using Intel® OpenCL™</td>
<td><code>&lt;install-folder&gt;\samples\sample_user_modules\rotate_opencl</code></td>
</tr>
<tr>
<td>C++ utility class implementing VPP-Plugin-VPP Pipeline</td>
<td><code>&lt;install-folder&gt;\samples\sample_utilities\vpp_plugin</code></td>
</tr>
<tr>
<td>Application Sample using Microsoft® DirectShow®</td>
<td><code>&lt;install-folder&gt;\samples\sample_dshow_player\</code></td>
</tr>
<tr>
<td>Microsoft DirectShow Plug-Ins (Filters)</td>
<td><code>&lt;install-folder&gt;\samples\sample_dshow_plugins</code></td>
</tr>
<tr>
<td>Application Sample using Microsoft Multimedia Framework Plug-ins</td>
<td><code>&lt;install-folder&gt;\samples\sample_studio</code></td>
</tr>
<tr>
<td>Microsoft Media Foundation® Plug-Ins</td>
<td><code>&lt;install-folder&gt;\samples\sample_mfoundation_plugins</code></td>
</tr>
<tr>
<td>Intel® Media SDK Simple Transcoder Sample (for Microsoft Windows® 8 Release Preview or later)</td>
<td><code>&lt;install-folder&gt;\samples\sample_simple_transcoder</code></td>
</tr>
</tbody>
</table>

*Other names and brands may be claimed as the property of others.*
Legal Information

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS OTHERWISE AGREED IN WRITING BY INTEL, THE INTEL PRODUCTS ARE NOT DESIGNED NOR INTENDED FOR ANY APPLICATION IN WHICH THE FAILURE OF THE INTEL PRODUCT COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or by visiting Intel's Web Site.

MPEG is an international standard for video compression/decompression promoted by ISO. Implementations of MPEG CODECs, or MPEG enabled platforms may require licenses from various entities, including Intel Corporation.

Intel and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

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 SSE3 instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimization 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 product User and Reference Guides for more information regarding the specific instruction sets covered by this notice.

Notice revision #20110804

*Other names and brands may be claimed as the property of others.