

AVC/H.264 Encoder Wrapper

Comprehensive A/C Codec Library

Simplified module that adds a layer on all existing MainConcept AVC/H.264 Video Encoders to provide a common API, so applications do not require detecting and selecting between different hardware.

The optional AVC/H.264 Video Encoder Wrapper is a simplified encoding module that adds a layer on all existing MainConcept AVC/H.264 Video Encoders to provide a single common API. Customer applications do not require detecting and selecting between different hardware availabilities from NVIDIA, AMD, a 3rd Generation Intel® Core™ processor or none at all, because our component automatically decides what is the most suitable encoder to perform the job if different options are available on the system.

Using MainConcept SDK, you get our popular MainConcept AVC/H.264 Software Video Encoder as well as the AVC/H.264 Video Encoder for Intel Quick Sync Video. As separate legacy standalone SDKs, you can obtain the MainConcept CUDA as well as the OpenCL AVC/H.264 Encoder SDK. Simply copy the corresponding components next to the AVC/H.264 Video Encoder Wrapper to additionally make use of NVIDIA's and AMD's GPU based hardware acceleration within your products.

Customers can add the AVC/H.264 Video Encoder Wrapper to their software, so they do not bother what encoder is supported. It automatically chooses the right MainConcept AVC/H.264 Video Encoder to perform the job for you.

MAINCONCEPT AVC/H.264 ENCODER WRAPPER SDK PACKAGE

AVC/H.264 VIDEO ENCODER WRAPPER SDK

Wrapper module that provides easy access to any of the MainConcept AVC/H.264 Video Encoders: Software (AVC/H.264 SDK Pro or Broadcast), Intel Quick Sync, CUDA or OpenCL. Detection of available encoders and settings translation to these encoders is handled through a unified MainConcept API.

Needs to be combined with Video Encoder SDKs.

FEATURES

ENCODER WRAPPER:

- Select available AVC/H.264 encoders: Software, Intel Quick Sync Video, or the legacy encoders for CUDA and OpenCL.
- Fully compliant with ISO/IEC 14496-10 specification.
- High Level API.
- Hide hardware detection and implementation details from application.
- Automatically use one of the available encoders, depending on hardware capabilities and application preferences.
- Loads appropriate encoders dynamically during runtime.
- Selectable profiles up to High Profile.
- Selectable levels up to Level 5.1.
- Bit rate support up to Level 5.1 restriction (288 Mbps).
- Configurable bit rate control (Constant quantization, CBR, VBR, multi-pass).
- Strict HRD restrictions compliance.
- Configurable GOP structure (I, P and B frames in different combinations, pyramidal B-frames coding).
- Configurable motion estimation (search range, number of reference frames, sub-block search and sub-pixel depth).
- Special input pin for the closed caption data receiving.

SUPPORTED ENCODERS:

- NVIDIA GPU acceleration on Fermi, Quadro & Tesla boards with CUDA support (Legacy product).
- AMD GPU acceleration on Radeon HD & FirePro boards with OpenCL support (Legacy product).
- Access to Intel's Quick Sync Video hardware acceleration for 3rd generation Intel® Core™ processors.
- Software Video Encoder selection if no hardware accelerated compliant device is detected.

COMPONENTS

AVC/H.264 VIDEO ENCODER WRAPPER SDK

AVC/H.264 Video Encoder Wrapper

TECH SPECS

- **Microsoft® Windows® 7, Windows 8, Windows 10 (32-bit/64-bit)**
- **Linux Ubuntu 10.04 LTS (32-bit/64-bit)**
- **Apple Mac OS X 10.6 or higher (Mac/Intel), (32-bit/64-bit)**

For Windows, Mac OS X and Linux, the codec package consists of a Low Level API (in the C programming language). Under Windows, it additionally includes a DirectShow® filter wrapper.

MORE INFORMATION:
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REQUEST YOUR DEMO SDK:
WWW.MAINCONCEPT.COM/LICENSING-FORM.HTML