MainConcept Hybrid HEVC Encoder Plugin for FFmpeg

Bandwidth-Friendly Encoding with Simple Integration

The MainConcept Hybrid HEVC Encoder Plugin for FFmpeg gives you a simple way to integrate HEVC into the FFmpeg framework so you can benefit from the advanced efficiency and performance of MainConcept's HEVC implementation.

Suitable for both VOD and live production workflows, the MainConcept Hybrid HEVC Encoder Plugin for FFmpeg comes equipped with powerful features you won't get from open-source encoders, including 8K/60fps video encoding and advanced GPU acceleration to maximize video encoding performance on standard server hardware, saving time and money.

EFFICIENCY THAT MATTERS

MainConcept focuses on bringing you impactful efficiency gains. In recent MSU testing, MainConcept was the clear champion proving 20% more efficient than open source and that it uses up to 30% less bandwidth for live encoding—saving hardware costs and allowing more live streams per server.

PERFORMANCE TO FUEL INNOVATION

The MainConcept Hybrid HEVC Encoder Plugin for FFmpeg gives you advanced options you can use to increase performance, including:

- Hybrid & Driven GPU-accelerated encoding modes on NVIDIA RTX boards for significantly increased performance

- Hardware encoding powered by AMD AMF, Intel Quick Sync Video (IQSV) and NVIDIA NVENC

ENCODING SETTINGS, PRESETS AND SUPPORT FOR SUPERIOR QUALITY

MainConcept gives you 2-pass encoding support for enhanced quality in file-based workflows. You can pass encoding parameters via the FFmpeg command-line or employ ready-to-use MainConcept config files that come complete with pre-configured encoding profiles up to 4K for OTT content creation, MPEG-DASH & Apple HLS. In addition, the plugin supports Main and Main 10, 4:2:0 and 4:2:2.

> ⓘ The MainConcept Hybrid HEVC Encoder also comes as part of the full-featured *HEVC/H.265 Encoder SDK*.

20% MORE EFFICIENT THAN OPEN SOURCE[1]

EASY TO INTEGRATE

Simple plugin approach to bring MainConcept encoders into your new or existing FFmpeg 4.4 (Rao), 6.0 (Von Neumann) or 7.0 (Dijkstra) environment

BETTER PERFORMANCE THAN OPEN SOURCE

MainConcept is proven to outperform open-source codecs, with familiar FFmpeg libraries and toolsets

ADVANCED FEATURES

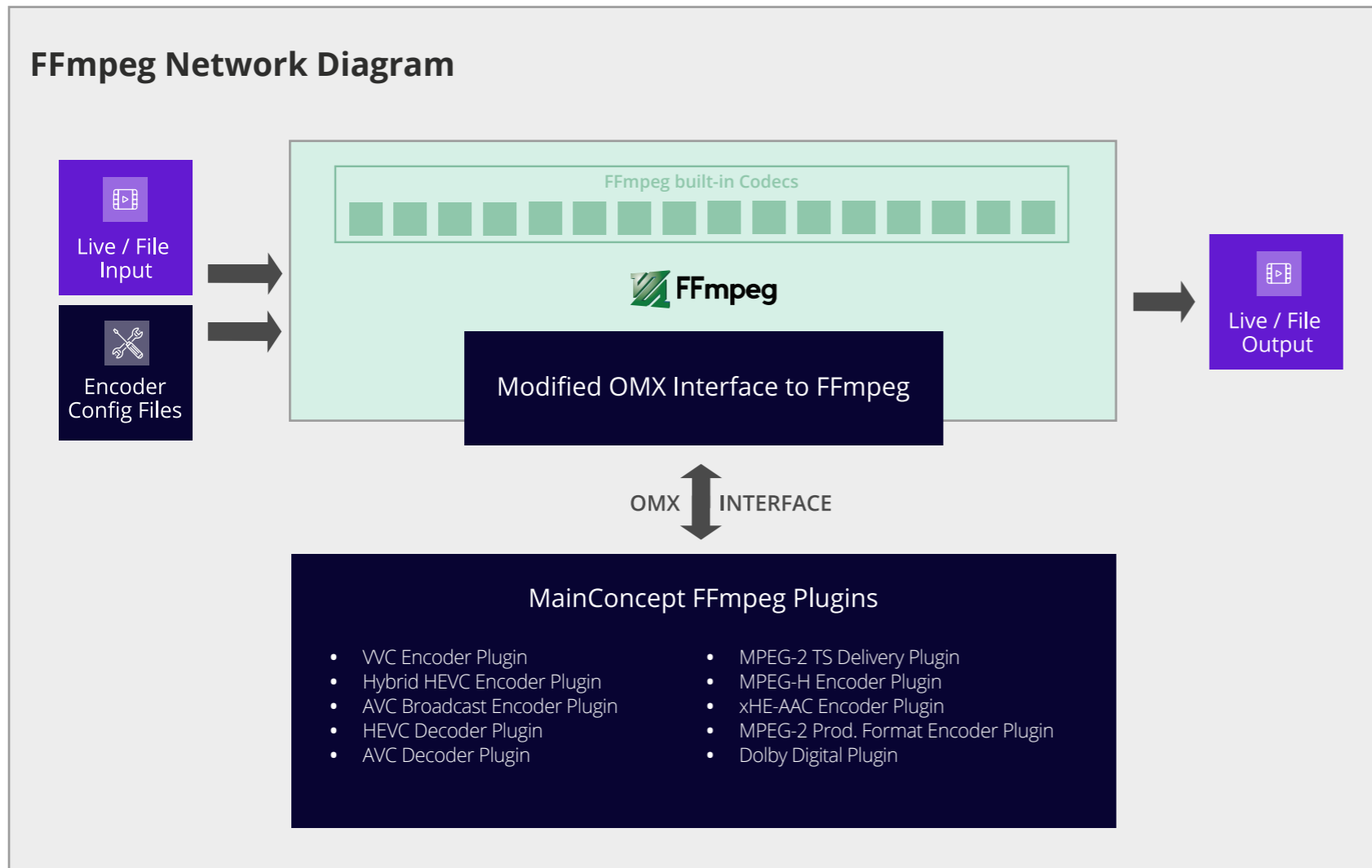Gain access to ready-to-use presets, and more

KEY FEATURES

- 2.5x encoding performance increase with Hybrid GPU acceleration[2]

- 4:2:2 10-bit chroma support for professional video encoding

- 8K60 Hybrid GPU accelerated 10-bit video encoding

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

(1) Source: Moscow State University 4K codec performance comparison.
(2) Compared to MainConcept HEVC encoder without hybrid GPU acceleration

OPERATING SYSTEM

- Microsoft Windows 10, Windows 11 (64-bit)

- Linux x86 Ubuntu 20.04 LTS glibc 2.31, Rocky Linux 8 glibc 2.28 (64-bit)

- Linux ARM Ubuntu 20.04 glibc 2.31 (64-bit)

- Works with FFmpeg 4.4 (Rao), FFmpeg 6.0 (Von Neumann) or FFmpeg 7.0 (Dijkstra)

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FFmpeg Network Diagram

Live / File Input

Encoder Config Files

FFmpeg built-in Codecs

FFmpeg

Modified OMX Interface to FFmpeg

Live / File Output

OMX INTERFACE

MainConcept FFmpeg Plugins

- VVC Encoder Plugin
- Hybrid HEVC Encoder Plugin
- AVC Broadcast Encoder Plugin
- HEVC Decoder Plugin
- AVC Decoder Plugin
- MPEG-2 TS Delivery Plugin
- MPEG-H Encoder Plugin
- xHE-AAC Encoder Plugin
- MPEG-2 Prod. Format Encoder Plugin
- Dolby Digital Plugin

MAINCONCEPT FFMPEG PLUGINS

The MainConcept FFmpeg Plugins are a highly flexible product line that enable you to use the industry-leading MainConcept libraries seamlessly in FFmpeg-based use cases and environments. The simple plugin approach for fast integration into FFmpeg leads to quick results without the need to change your workflow. Full parameter control of the MainConcept SDK libraries in combination with FFmpeg's built-in components brings world-class video and audio quality to your solution or service. MainConcept FFmpeg Plugins are free to try and easy to integrate into your workflow.

ABOUT MAINCONCEPT

Since 1993, MainConcept has provided best-of-breed video/audio codec solutions that fuel creativity and business globally for professional video production, multimedia, broadcast, digital signage, gaming, medical and security industries. Our software development kits, transcoding applications and plugins are used across industry verticals to meet an ever-expanding list of use cases. With world-class engineering, exquisite attention to detail, and best-in-class support and professional services, we are constantly innovating to deliver you the simplicity you need with the customer experience you deserve. MainConcept codecs are engineered to surpass the challenges of even the most demanding use cases and are used by organizations such as Adobe, AVID, Autodesk, Corel, Dalet, Endeavor Streaming, Globo, Grass Valley, Intel, MAGIX, Nikon, PlayBox, Soliton, Sony, Telestream, V-Nova and Wowza. For more information, visit www.mainconcept.com.