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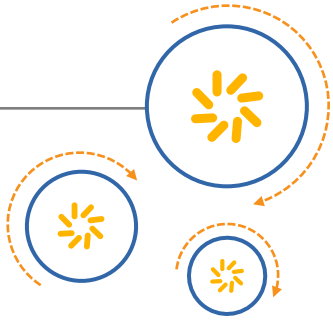

Qualcomm® High Efficiency Video Coding (HEVC) Video Encoder

Test Manual

80-PC029-1 Rev. A

April 13, 2017

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Revision history

Revision	Date	Description
A	April 2017	Initial release

Contents

Tables

1 Introduction

1.1 Purpose

The Qualcomm H265/HEVC encoder binary is packaged for both Windows and Linux platforms. This manual validates that the encoder executable generates the same output for the customer. Each package contains the codec executable, a sample input RAW file, and the .265 output file (for reference).

The user must uncompress the package in a suitable location and run the encoder executable on the RAW input file, which creates the encoded H265 output (Annex B, Byte Stream Format of www.itu.int). The encoded file can be encapsulated into MP4 and other video containers with an audio file, if needed.

For details on the command line options, see *Qualcomm HEVC Video Encoder User Manual* (80-PC029-2).

1.2 Conventions

Function declarations, function names, type declarations, attributes, and code samples appear in a different font, for example, `#include`.

1.3 Technical assistance

For assistance or clarification on information in this document, submit a case to Qualcomm Technologies, Inc. (QTI) at hevc-encoder-support@qualcomm.com.

2 Windows

2.1 Package contents

Table 2-1 Windows files

File	Details
HDR10_Final_frame_0_to_120.yuv	Input RAW file yuv420p 10 bit, 24 fps
QcHevcEncode	Encoder executable
HDR10_Final_frame_0_to_120.265	Output H265 file (for reference)

2.2 Encoding

```
QcHevcEncode.exe -Preset 5 -c 3 -w 3840 -h 2160 -r 24 -InputDepth 10 -q 27
-b HDR10_Final_frame_0_to_120.265 -f 120 -i HDR10_Final_frame_0_to_120.yuv
```

3 Linux (Ubuntu 12.04 64 Bit)

3.1 Package contents

Table 3-1 Linux files

File	Details
HDR10_Final_frame_0_to_120.yuv	Input RAW file yuv420p 10 bit, 24 fps
QcHevcEncode	Encoder executable
HDR10_Final_frame_0_to_120.265	Output H265 file (for reference)

3.2 Encoding

```
QcHevcEncode -Preset 5 -c 3 -w 3840 -h 2160 -r 24 -InputDepth 10 -q 27 -b
HDR10_Final_frame_0_to_120.265 -f 120 -i HDR10_Final_frame_0_to_120.yuv
```

A References

A.1 Related documents

Table A-2 Related documents

Title	DCN or URL
Qualcomm Technologies, Inc.	
Qualcomm HEVC Video Encoder User Manual	80-PC029-2
Resources	
ITU-T, Series H: Audiovisual and Multimedia Systems, Infrastructure of Audiovisual Services – Coding of Moving Video, High Efficiency Video Coding	www.itu.int