

From: imoccaga@lsil.com on behalf of iole moccagatta <imoccaga@lsil.com>
Sent: Friday, October 4, 2002 7:05 PM
To: JVT experts
Subject: [jvt-experts] JVT-E079, JVT-E109, and JVT-E110 have been uploaded.

Dear Experts,

JVT-E079, JVT-E109, and JVT-E110 have been uploaded.

JVT-E079:

Title: A performance comparison of CABAC and VCL-based entropy coders for SD and HD sequences

Status: Input Document to JVT

Purpose: Information

Author(s): I. Moccagatta and K. Ratakonda

Summary: This document analyzes the performance of CABAC and the VLC-based entropy coders over a large number of test sequences and using two encoder configurations. In both configurations and for all the 21 test sequences used, CABAC achieves a large bitrate reduction, ranging from 6.3 to 31.2%, when compared with the VLC-based entropy coders. In light of these results, and taking into account the considerations presented in JVT-E116, we recommend the removal of the VLC-based entropy coders from the AVC Main profile.

JVT-E109

Title: Specifying overscan parameters

Status: Input Document to JVT

Purpose: Proposal

Author(s): E. Linzer and I. Moccagatta

Summary: We propose a method that allows an encoder to specify which part of each picture in a sequence is the overscan area.

The decoder can take appropriate action depending on the nature of the display to which it is connected. This proposal does not affect the normative decoding process. In many cases, it can result in bit-rate savings of 11-15% without any change in decompressed video quality or the part of each image seen by the viewer.

JVT-E110

Title: Request for correction of the minimum luma bi-predictive block size

Status: Input Document to JVT

Purpose: Information

Author(s): I. Moccagatta

Summary: In the AVC FCD it is stated that the minimum luma bi-predictive block size is set to 8x8 for all levels (see Subclause A.6.2, Table A-1). It is our understanding that a decision was made to set such limitation only for Level 4 and above to constrain implementation complexity for HD material. Setting the minimum luma bi-predictive block size to 8x8 for levels lower than 4 would have a negative impact on quality. We respectfully request to modify the specification to reflect such decision.

Best regards,

Iole

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=                                                         =
=   "Spatium...ultima confinia.... Haec sunt itinera astranavis   =
=   Incepti. Huic missio quinque annorum: explorare mundos alienos novos, =
=   petere vitam novam novosque cultus, ire fortiter quo nemo iverit   =
=   ante."                                                  =
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The use of the jvt-experts list is intended only for the video coding standardization work conducted by the Joint Video Team (JVT) of ISO/IEC JTC1/SC29/WG11 (MPEG) and ITU-T SG16 Q.6 (VCEG).

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