draft-ietf-netvc-testing-03

IETF 96
Sub-Agenda

- Set results
- BD-Rate calculations
- Software updates
- TODO
Set Selections

- Objective-1 and Objective-1-fast now deployed
- Objective-1-fast is not actually that fast… (4 hours)
  - Mostly solvable by software improvements
Set Selections

- Has already found bugs

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<tr>
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<th>PSNR Cr</th>
<th>PSNR Cb</th>
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<td>0.30</td>
<td>0.43</td>
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BD-Rate Range

- Removed deprecated bitrate range method
- Tests showed that Q bound method gave nearly identical results to anchor method for most changes, so allowed this when doing AV1 vs AV1 tests
BD-Rate Range – Quantizer-derived

![Graph showing BD-Rate Range with Quantizer-derived points on a graph with Picture quality (dB) on the y-axis and Bits per Pixel on the x-axis.](image-url)
BD-Rate Range – Anchor-derived
Software updates

• Objective-1 includes 10bit content, which the metric tools didn’t previously handle

• All previous metric tools updated to support 10 bit content (PSNR, PSNR-HVS-M, SSIM, FASTSSIM, MS-SSIM)
New metric - VMAF

• Video Multi-Method Assessment Fusion – new metric by Netflix

• Source code to VMAF metric released:
  – https://github.com/netflix/vmaf

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- New HDR sources available
  - amazon_hdr_education_reel
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PedestrianCrossing and ToddlerFountain from Netflix
CC-BY-NC-ND 4.0 https://media.xiph.org/video/derf/
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