NETVC IETF 93 Hackathon Results

Metrics

• Daala

- 12 commits
 - 1 more in review
 - 1 more in progress
- 4 authors
- 5 issues filed
- 2 issues closed
- PSNR: -0.4%, PSNR-HVS: -0.1%, SSIM: -0.2%, FastSSIM: -0.1%

Thor

- AreWeCompressedYet integration
- 4 combined Daala/Thor experiments run

Daala with Thor MC

- Daala's motion compensation is very loosely coupled with the rest of the codec
- Ripped it out and replaced it with Thor's
 - Ran whole Thor encoder with residual coding disabled, stuffed output bits into a Daala frame
- Lots of interesting results on AWCY

Thor's Constrained Low-Pass Filter

- Easy to integrate into Daala
 - So we did!
 - Simple hack with no signaling for now (i.e., cheating)
 - Better patch in progress
- Solves a long-standing "quilting" artifact
 - Found in fades at low rates

Previous Daala (no CLPF)



Daala With Thor's CLPF

