

From: Luthra Ajay-MGI1164 <aluthra@motorola.com>
Sent: Thursday, September 19, 2002 1:03 AM
To: JVT experts
Cc: Gandhi Rajeev-MGI8094; Wang Limin-MGI1525; Panusopone Krit-MGI1538
Subject: [jvt-experts] RE: Software Implementation Status / New JM Reference Software

> Note: This is the first JM version in which MB Adaptive frame/field
> performs better than frame adaptive frame/field.
>

Following are the initial results that we are getting (take the code for a test drive and see if you get the same results):

Test: comparing MB AFF with Pic AFF.

Test conditions:

150 frames, 2 ref frames, qp values 28, 32, 36 and 40, Qp value for B frame = Qp value for P + 2, CAVLC, RD optimization ON, No ABT, No Bipredictive weighting and Temporal Direct Mode Type.

The first column shows the % bit savings by using MB AFF over Pic AFF with 0B frames and the second column shows % bit savings with 2B frames.

The % bit savings were computed using the "avsnr4" program.

Mobile and Calendar (720 x 480)	14.46%	12.27%
MPEG-4 world News (720 x 480)	17.24%	10.6%
Hybrid (bus on left and mobile on right) (704 x 480)	10.9%	TBD

Hopefully, next software release will allow use of CABAC with MB AFF.

Ajay

> -----Original Message-----

> From: Karsten Suehring [mailto:suehring@hhi.de]

> Sent: Wednesday, September 18, 2002 8:32 AM

> To: JVT experts

> Subject: [jvt-experts] Software Implementation Status / New JM

> Reference Software

>

>

> Dear experts,

>

> 1) New JM Reference Software JM 4.2

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> I uploaded a new version of the JM Reference Software jm42.zip to

> my homepage at <http://bs.hhi.de/~suehring/tml/download/>

> and the JVT FTP Server dropbox.

>

> The changelog is attached at the end of this Mail.

>

> Note: This is the first JM version in which MB Adaptive frame/field
> performs better than frame adaptive frame/field.

>

> 2) Implementation Schedule Revised (R4)

>

> I had to stop the software implementation for a bug fixing period.

> The number of known problems was cumulating too much that these
> could be fixed in parallel development.

>

> Therefore the software implementation schedule had to be revised
> again. The new schedule is attached.

>

> Best regards,

> Karsten

>

> Changelog JM4.2

> =====

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> Changes for Version JM 4.2 to JM 4.1c

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> New features

> * Spatial Direct Prediction for MB AFF (AT)

>

> Bug Fixes

> * align simplified intra prediction to text (AH)

> * fix simplified intra prediction for mb aff (AH)

> * fix spatial direct (YK)

> * fix temporal direct (YK)

> * MB AFF fixes (LW, RG)

>

> Cleanups

> * clean up decode_one_slice (KS)

> * removed commented out code (KS)

>

>

> Changes for Version JM 4.1c to JM 4.1b

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> New features

> * Implicit bi-predictive weighting (YK)

>

> Bug Fixes

> * MAX_QP define (AJ)

>

>

> Changes for Version JM 4.1b to JM 4.1a

> -----

> New features

> * Simplification of Intra Prediction (AH)

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> Cleanups

> * also always enable EncapsulatedNALPayload at the decoder (KS)

- > * reference frame check AFF fix (AT)
- >
- >
- > Changes for Version JM 4.1a to JM 4.1
- > -----
- > New features
- > * Spatial Direct Prediction (AT)
- > Note: Spatial Direct Currently disabled for MB-AFF
- >
- > Bug Fixes
- > * SP chroma bug fixed (XS)
- > Removed SP Switch flag from SI encoding (AT)
- > Corrected readSyntaxElement_fixed (AT)
- > * close reconstruction file only if opened (LWi)
- > * MB AFF fixes (AT)
- >
- > Cleanups
- > * remove double scan routines (KS)
- > * always enable EncapsulatedNALPayload (KS)
- >
- >
- > Changes for Version JM 4.1 to JM 4.0d
- > -----
- > New features
- > * macroblock adaptive frame/field (LW)
- >

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).

You are currently subscribed to jvt-experts as: suehring@hhi.de To unsubscribe send a blank email to leave-jvt-experts-12909W@mail.imtc.org