

From: Sandy (Alexander) MacInnis <macinnis@broadcom.com>
Sent: Wednesday, September 11, 2002 8:50 PM
To: Lowell Winger; 'Shawn Zhong'; 'Yoichi Yagasaki'; 'jvt-experts@mail.imtc.org'
Subject: [jvt-experts] RE: Level constraints/limits on the number of MVs and block sizes

I can answer.

Limiting the number of MVs on every second pair, as Lowell suggests, would not provide as much benefit to decoders in terms of managing worst case DRAM cycles required. If we were going to do that, we could consider other schemes as well, such as limiting the number of MVs on every 4 consecutive MBs. But making the limit on every 2 MBs instead of every one is already a compromise intended to make encoders easier at the expense of decoders.

--Sandy

At 09:26 AM 9/11/2002, Lowell Winger wrote:

>Shawn and others experts,
>
>It seems that a very natural way to impose a pair-of-MBs restriction,
>if such a restriction is desired, is to impose the restriction only
>between every other pair of MBs (ie. between MB 0 and 1, 2 and 3, etc.
>but not between 1 and 2, or 3 and 4, etc.)
>
>In the main profile when super-MB AFF is used processing is very likely
>to be done on a super-MB (pair of MBs) basis anyhow, so the restriction
>would fit very naturally within many architectures.
>
>This less restrictive restriction would still give the desired benefit
>for both deterministic and statistical real-time systems, and would be
>a more natural fit.
>
>Shawn, does this make sense to you in terms of the motivation behind
>your original proposal?
>
>Regards,
>Lowell Winger
>VideoLocus

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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