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To: jvt-experts@mail.imtc.org
Subject: [jvt-experts] Intra16x16 Prediction Mode 3

I find it quite strange that edge pixels at both horizontal and vertical location 7 are not used from the prediction. Could the same performance be achieved by using them instead of the pixel in the neighbouring top-left MB? In this case we might have to use different scale factors for computing a, b and c.

It does not seem that the FCD says anything if this mode should be used as a candidate when the top-left neighbouring MB is in a slice different from the MB to be predicted. The reference software of version 4.0c will proceed to compute this prediction mode and use it as a candidate as long as the top and left neighbouring MBs are available (in the same slice). However, the availability of these two MBs does not guarantee that the top-left MB is within the same slice as well. Because one pixel in the top-left neighbouring MB is used for this intra prediction, is it a bug of the reference software to make this prediction as candidate if the top-left MB is in a different slice?

Not using the top-left edge pixel for the prediction will probably make the prediction a little bit simpler.

Dongning

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