Claims

[Claim 1] A method of performing motion vector prediction for coding video data, the method comprising:

determining a motion vector (mv);

determining a rounded motion vector being

equivalent to a value of rmv in the following equations:

s = mv >> 17;

f = Floor(Log2((mv ^ s) | 31)) – 4;

mask = (-1 << f) >> 1;

round = (1 << f) >> 2;

rmv = (mv + round) & mask; and

generating a motion vector predictor candidate based on the rounded motion vector.

[Claim 2] The method of claim 1, wherein the motion vector (mv) is derived as a motion vector corresponding to a collocated luma coding block inside a specified collocated picture.

[Claim 3] The method of claim 1, wherein the motion vector predictor candidate is generated based on the rounded motion vector by clipping a value within the range of -131072 to 131071.

[Claim 4] A device comprising one or more processors configured to:

determine a motion vector (mv);

determine a rounded motion vector being equivalent to a value of rmv in the following equations:

s = mv >> 17;

f = Floor(Log2((mv ^ s) | 31)) – 4;

mask = (-1 << f) >> 1;

round = (1 << f) >> 2;

rmv = (mv + round) & mask; and

generate a motion vector predictor candidate based on the rounded motion vector.