CLAIMS

1.A method comprising:

determining a first motion predictor and a second motion predictor from a list of candidate motion predictors for a block of pixels;

coding a first index identifying the first motion predictor from the list of candidate motion predictors and a second index identifying the second motion predictor from the list of candidate motion predictors;

generating a first set of predicted pixels that corresponds to a first spatial region within the block according to the first motion predictor;

generating a second set of predicted pixels that corresponds to a second spatial region within the block different from the first spatial region according to the second motion predictor;

computing a combined prediction based on first set of predicted pixels and the second sets of predicted pixels; and

coding the block of pixels according to the combined prediction for motion compensation.

2.The method of claim 1, wherein the list of candidate motion predictors is a set of merge candidates for merge mode.

3.The method of claim 1, wherein the combined prediction is an average of the first and second sets of pixels that are obtained using the first and second motion predictors.

4.The method of claim 3, wherein the average is a weighted average favoring a motion predictor having a smaller difference the block of pixels being encoded and a set of pixels obtained by the motion predictor.

5.An electronic apparatus comprising:

a video decoder circuit capable of:

receiving a bitstream comprising a first index and a second index;

determining a first motion predictor and a second motion predictor from a list of candidate motion predictors based on the first index and the second index, wherein the first index identifies the first motion predictor, and the second index identifies the second motion predictor from the list of candidate motion predictors;

generating a first set of predicted pixels that corresponds to a first spatial region within the block according to the first motion predictor;

generating a second set of predicted pixels that corresponds to a second spatial region within the block different from the first spatial region according to the second motion predictor;

computing a combined prediction based on first set of predicted pixels and the second set of predicted pixels; and

decoding a block of pixels using the first motion predictor to perform motion compensation prediction for a first region of the block of pixels and using the second motion predictor to perform motion compensation prediction for a second region of the block of pixels.

6.An electronic apparatus comprising:

a video encoder circuit capable of:

determining a first motion predictor and a second motion predictor from a list of candidate motion predictors based on the first index and the second index, wherein the first index identifies the first motion predictor, and the second index identifies the second motion predictor from the list of candidate motion predictors;

generating a first set of predicted pixels that corresponds to a first spatial region within the block according to the first motion predictor;

generating a second set of predicted pixels that corresponds to a second spatial region within the block different from the first spatial region according to the second motion predictor;

computing a combined prediction based on first and second sets of pixels that are obtained using the first and second motion predictors, respectively; and

encoding a block of pixels using the first motion predictor to perform motion compensation prediction for a first region of the block of pixels and using the second motion predictor to perform motion compensation prediction for a second region of the block of pixels.