CLAIMS

1.A method of obtaining a maximum number of geometric partitioning merge mode candidates for video decoding, wherein the method comprises:

obtaining a bitstream for a video sequence;

obtaining a value of a first indicator according to the bitstream, wherein the first indicator represents the maximum number of merging motion vector prediction, MVP, candidates;

obtaining a value of a second indicator according to the bitstream, wherein the second indicator represents whether a geometric partition based motion compensation is enabled for the video sequence;

parsing a value of a third indicator from the bitstream, when the value of the first indicator is greater than a threshold and when the value of the second indicator is equal to a preset value, wherein the third indicator represents the maximum number of geometric partitioning merge mode candidates subtracted from the value of the first indicator;

obtaining the maximum number of geometric partitioning merge mode candidates according to the value of the first indicator and the value of the third indicator; and

setting the value of the maximum number of geometric partitioning merge mode candidates to 2, when the value of the first indicator is equal to the threshold and when the value of the second indicator is equal to the preset value.

2. The method of claim 1, wherein the threshold is 2.

3. The method of any one of claims 1 to 2, wherein the method further comprises:

setting the value of the maximum number of geometric partitioning merge mode candidates to 0, when the value of the first indicator is less than the threshold or when the value of the second indicator is not equal to the preset value.

4. The method of any one of claims 1 to 3, wherein the preset value is 1.

5. The method of any one of claims 1 to 4, wherein the step of obtaining the value of the second indicator is performed after the step of obtaining the value of the first indicator.

6. The method of claim 5, wherein the value of the second indicator is parsed from a sequence parameter set, SPS, of the bitstream, when the value of the first indicator is greater than or equal to the threshold.

7. The method of any one of claims 1 to 6, wherein the value of the second indicator is obtained from a sequence parameter set, SPS, of the bitstream.

8. The method of any one of claims 1 to 7, wherein the value of the third indicator is obtained from a sequence parameter set, SPS, of the bitstream.

9. A video decoding apparatus, wherein the video decoding apparatus comprises:

a receiving module, which is configured to obtain a bitstream for a video sequence;

an obtaining module, which is configured to obtain a value of a first indicator according to the bitstream, wherein the first indicator represents the maximum number of merging motion vector prediction, MVP, candidates; and wherein

the obtaining module is configured to obtain a value of a second indicator according to the bitstream, wherein the second indicator represents whether a geometric partition based motion compensation is enabled for the video sequence;

a parsing module, which is configured to parse a value of a third indicator from the bitstream, when the value of the first indicator is greater than a threshold and when the value of the second indicator is equal to a preset value, wherein the third indicator represents the maximum number of geometric partitioning merge mode candidates subtracted from the value of the first indicator, wherein the maximum number of geometric partitioning merge mode candidates is obtained according to the value of the first indicator and the value of the third indicator,

the obtaining module is configured to set the value of the maximum number of geometric partitioning merge mode candidates to 2, when the value of the first indicator is equal to the threshold and when the value of the second indicator is equal to the preset value.

10. The video decoding apparatus of claim 9, wherein the obtaining module is configured to set the value of the maximum number of geometric partitioning merge mode candidates to 0, when the value of the first indicator is less than the threshold or when the value of the second indicator is not equal to the preset value.

11. The video decoding apparatus of any one of claims 9 to 10, wherein the threshold is 2.

12. The video decoding apparatus of any one of claims 9 to 11, wherein the preset value is 1.

13. The video decoding apparatus of any one of claims 10 to 14, wherein the step of obtaining the value of the second indicator is performed after the step of obtaining the value of the first indicator.

14. The video decoding apparatus of claim 13, wherein the value of the second indicator is parsed from a sequence parameter set, SPS, of the bitstream, when the value of the first indicator is greater than or equal to the threshold.

15. The video decoding apparatus of any one of claims 9 to 14, wherein the value of the second indicator is obtained from a sequence parameter set, SPS, of the bitstream.

16. The video decoding apparatus of any one of claims 9 to 15, wherein the value of the third indicator is obtained from a sequence parameter set, SPS, of the bitstream.

17. A decoder, comprising:
one or more processors; and
a non-transitory computer-readable storage medium coupled to the processors and storing programming for execution by the processors, wherein the programming, when executed by the processors, configures the decoder to carry out the method according to any one of the claims 1 to 8.

18. A non-transitory computer-readable medium comprising a bitstream for a video sequence decoded by performing the method of any one of the claims 1 to 8.