CLAIMS

1. A method for video processing, comprising:

determining, for a conversion between a current video block of a current picture of a video and a bitstream of the video, whether to use a first half-pel interpolation filter based on whether a refence picture resampling tool is enabled; and

performing the conversion based on the determining;

wherein in case that the refence picture resampling tool is enabled, a resolution of the current picture is different to that of a reference picture of the current video block.

2. The method of claim 1, wherein the first half-pel interpolation filter is not applied to the current video block based on enable of the reference picture resampling tool.

3. The method of claim 1, wherein a second half-pel interpolation filter other than the first half-pel interpolation filter is applied to the current video block based on enable of the reference picture resampling tool.

4. The method of claim 1, wherein a half-pel precision interpolation filter index of the first half-pel precision interpolation filter is equal to 1.

5. The method of claim 3, wherein a half-pel precision interpolation filter index of the second half-pel precision interpolation filter is equal to 0.

6. The method of claim 3, wherein the second half-pel interpolation filter corresponds to an 8-tap filter with filter coefficients [−1 4 −11 40 40 −11 4 −1].

7. The method of claim 1, wherein the first half-pel interpolation filter corresponds to a 6-tap filter with filter coefficients [3 9 20 20 9 3].

8. The method of claim 1, wherein the current video block is coded with at least one motion vector pointing to a half-pel position if the first half-pel interpolation filter is used.

9. The method of claim 1, wherein the current video block is coded with at least one motion vector pointing to a horizontal half-pel position or a vertical half-pel position or a horizonal and vertical half-pel position if the first half-pel interpolation filter is used.

10. The method of claim 1, wherein the conversion comprises encoding the current video block into the bitstream.

11. The method of claim 1, wherein the conversion comprises decoding the current video block from the bitstream.

12. An apparatus for processing video data comprising a processor and a non-transitory memory with instructions thereon, wherein the instructions upon execution by the processor, cause the processor to:

determine, for a conversion between a current video block of a current picture of a video and a bitstream of the video, whether to use a first half-pel interpolation filter based on whether a refence picture resampling tool is enabled; and

perform the conversion based on the determining;

wherein in case that the refence picture resampling tool is enabled, a resolution of the current picture is different to that of a reference picture of the current video block.

13. The apparatus of claim 12, wherein the first half-pel interpolation filter is not applied to the current video block based on enable of the reference picture resampling tool.

14. The apparatus of claim 12, wherein a second half-pel interpolation filter other than the first half-pel interpolation filter is applied to the current video block based on enable of the reference picture resampling tool.

15. The apparatus of claim 12, wherein a half-pel precision interpolation filter index of the first half-pel precision interpolation filter is equal to 1 and a half-pel precision interpolation filter index of the second half-pel precision interpolation filter is equal to 0.

16. The apparatus of claim 14, wherein the second half-pel interpolation filter corresponds to an 8-tap filter with filter coefficients [−1 4 −11 40 40 −11 4 −1].

17. The apparatus of claim 12, wherein the first half-pel interpolation filter corresponds to a 6-tap filter with filter coefficients [3 9 20 20 9 3].

18. A non-transitory computer-readable storage medium storing instructions that cause a processor to:

determine, for a conversion between a current video block of a current picture of a video and a bitstream of the video, whether to use a first half-pel interpolation filter based on whether a refence picture resampling tool is enabled; and

perform the conversion based on the determining;

wherein in case that the refence picture resampling tool is enabled, a resolution of the current picture is different to that of a reference picture of the current video block.

19. The non-transitory computer-readable storage medium of claim 18, wherein the first half-pel interpolation filter is not applied to the current video block based on enable of the reference picture resampling tool.

20. A non-transitory computer-readable recording medium storing a bitstream of a video which is generated by a method performed by a video processing apparatus, wherein the method comprises:

determining, for a current video block of a current picture of a video, whether to use a first half-pel interpolation filter based on whether a refence picture resampling tool is enabled; and

generating the bitstream based on the determining;

wherein in case that the refence picture resampling tool is enabled, a resolution of the current picture is different to that of a reference picture of the current video block.