

CLAIMS

1. A method of ~~processing~~coding video data, comprising:

performing, a conversion between a current video unit of a video and a bitstream of the video, wherein the current video unit is a luma video unit;

wherein one of a first and a second indications is used to indicate a usage of a pulse code modulation (PCM) for the current video unit, and the other of the first and the second indications is used to indicate mode information of a multiple reference line based intra prediction (MRLIP) for the current video unit, and wherein whether the second indication is ~~presented~~present in the bitstream is related to the first indication_;

2. ~~The method of claim 1, wherein the~~ wherein, in response to a dual tree partition or a single tree partition being applied, the first indication is a luma indication and is used to indicate the usage of the PCM for the current video unit, and the second indication is used to indicate the mode information of the MRLIP, and for the current video unit,
wherein, in a response to the first case that the first indication indicatesindicating that the PCM is applied to the current video unit, the second indication is not ~~presented~~present in the bitstream_; and
wherein a chroma PCM indication is further used to indicate whether to apply the PCM on at least one chroma component, and no chroma MRLIP indication is used for the at least one chroma component regardless of a value of the chroma PCM indication.

3. ~~2.~~ The method of claim 1 ~~or 2~~, wherein the mode information comprises a reference line index.

4. ~~The method of anyone of claims 1-3, wherein the current video unit includes a luma video block and at least one chroma video block, and the first indication includes a luma indication and a chroma indication in response to a single tree being applied to the current video unit, and wherein the luma indication is used to indicate the usage of the PCM for the luma component, the chroma indication is used to indicate the usage of the PCM for the at least one chroma component.~~

3. The method of claim 1, further comprising:

applying a filtering process for the current video unit based on the first indication during the conversion.

4. The method of claim 3, wherein the filtering process is a deblocking filter process.

5. The method of claim 4~~1~~, further comprising:
applying a filtering process for the luma video block at least one chroma component based on the luma chroma PCM indication during the conversion.

6. The method of claim 5, wherein the filtering process is a deblocking filter process.

7. The method of claim 4, ~~further comprising: 1,~~ wherein the first indication and the chroma PCM indication are usage flags.

~~—applying a filtering process for the at least one chroma video block based on the chroma indication during the conversion.~~

8. The method of claim 7~~1~~, ~~wherein the filtering process is a deblocking filter process.~~

9. ~~The method of claim 4, wherein the luma indication is a usage flag, and the chroma indication is a usage flag.~~

10. ~~The method of anyone of claims 1-9, wherein the current video unit is a luma video unit and the first indication is a luma indication, in response to a dual tree the MRLIP being applied to the current video unit, or wherein the current video unit is a chroma video unit with two color components and the first indication is a chroma indication in response to a dual tree being applied to the current video unit, the first indication is not present in the bitstream.~~

11~~9~~. The method of ~~anyone of claims 1-9~~ claim 8, wherein the first indication is used, in response to indicate the mode information of the MRLIP, and the second indication is used to indicate the usage of the PCM, and wherein in a second case that the first indication indicates that the MRLIP being not applied to, the current video unit, the second~~first~~ indication is ~~not presented~~ present in the bitstream.

~~1210.~~ The method of claim ~~11~~, wherein in a third case that the first indication indicates that the MRLIP is not applied to the current video unit, the second indication is presented in the bitstream.

~~13.~~ The method of anyone of claims ~~1-12~~1, wherein the conversion includes encoding the current video unit into the bitstream.

~~14.~~ 11. The method of anyone of claims ~~claim~~ 1-12, wherein the conversion includes decoding the current video unit from the bitstream.

~~15.~~ 12. An apparatus for ~~processing~~coding 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:

~~perform~~performing, a conversion between a current video unit of a video and a bitstream of the video;

~~—, wherein one of a first and a second indications is used to indicate a usage of a pulse code modulation (PCM) for the current video unit, and the other of the first and the second indications is used to indicate mode information of a multiple reference line based intra prediction (MRLIP) for the current video unit, and wherein whether the second indication is presented in the bitstream is related to the first indication.~~

~~16.~~ The apparatus of claim ~~15~~, wherein the first indication is used to indicate the usage of the PCM, and the second indication is used to indicate the mode information of the MRLIP, and wherein in a first case that the first indication indicates that the PCM is applied to the current video unit, the second indication is not presented in the bitstream.

~~17.~~ The apparatus of claim ~~15 or 16~~, wherein the mode information comprises a reference line index.

~~18.~~ The apparatus of claim ~~15 or 16~~, wherein the current video unit includes is a luma video block and at least one chroma video block, and the first indication includes a luma indication and a chroma indication in response to a single tree being applied to the current video unit, and wherein

~~the luma indication is used to indicate the usage of the PCM for the luma component, the chroma indication is used to indicate the usage of the PCM for the at least one chroma component.~~

~~19. A non-transitory computer-readable storage medium storing instructions that cause a processor to:~~

~~— perform, a conversion between a current video unit of a video and a bitstream of the video unit;~~

wherein one of a first and a second indications is used to indicate a usage of a pulse code modulation (PCM) for the current video unit, and the other of the first and the second indications is used to indicate mode information of a multiple reference line based intra prediction (MRLIP) for the current video unit, and wherein whether the second indication is ~~presented~~present in the bitstream is related to the first indication;

~~— wherein, in response to a dual tree partition or a single tree partition being applied, the first indication is a luma indication and is used to indicate the usage of the PCM for the current video unit, and the second indication is used to indicate the mode information of the MRLIP for the current video unit,~~

~~— wherein in response to the first indication indicating that the PCM is applied to the current video unit, the second indication is not present in the bitstream, and~~

~~— wherein a chroma PCM indication is further used to indicate whether to apply the PCM on at least one chroma component, and no chroma MRLIP indication is used for the at least one chroma component regardless of a value of the chroma PCM indication.~~

13. The apparatus of claim 12, wherein the mode information comprises a reference line index.

~~20.14. A non-transitory computer-readable ~~recording~~storage medium storing a ~~bitstream of a video which is generated by a method performed by a video processing apparatus, wherein the method comprises~~instructions that cause a processor to:~~

~~generating the bitstream based onperforming, a conversion between a current video unit of the video and a bitstream of the video, wherein the current video unit is a luma video unit;~~

wherein one of a first and a second indications is used to indicate a usage of a pulse code modulation (PCM) for the current video unit, and the other of the first and the second indications

is used to indicate mode information of a multiple reference line based intra prediction (MRLIP) for the current video unit, and wherein whether the second indication is ~~presented~~present in the bitstream is related to the first indication;

wherein, in response to a dual tree partition or a single tree partition being applied, the first indication is a luma indication and is used to indicate the usage of the PCM for the current video unit, and the second indication is used to indicate the mode information of the MRLIP for the current video unit,

wherein, in response to the first indication indicating that the PCM is applied to the current video unit, the second indication is not present in the bitstream, and

wherein a chroma PCM indication is further used to indicate whether to apply the PCM on at least one chroma component, and no chroma MRLIP indication is used for the at least one chroma component regardless of a value of the chroma PCM indication.

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

generating a bitstream of a video from a current video unit of the video, wherein the current video unit is a luma video unit;

wherein one of a first and a second indications is used to indicate a usage of a pulse code modulation (PCM) for a current video unit, and the other of the first and the second indications is used to indicate mode information of a multiple reference line based intra prediction (MRLIP) for the current video unit, and wherein whether the second indication is present in the bitstream is related to the first indication,

wherein, in response to a dual tree partition or a single tree partition being applied, the first indication is a luma indication and is used to indicate the usage of the PCM for the current video unit, and the second indication is used to indicate the mode information of the MRLIP for the current video unit,

wherein, in response to the first indication indicating that the PCM is applied to the current video unit, the second indication is not present in the bitstream, and

wherein a chroma PCM indication is further used to indicate whether to apply the PCM on at least one chroma component, and no chroma MRLIP indication is used for the at least one chroma component regardless of a value of the chroma PCM indication.