WHAT IS CLAIMED:

[Claim 1]

An apparatus for decoding compressed video data, the apparatus comprising:

a video decoder that accesses a bitstream of compressed video data including at least one coding unit of coded video data, wherein

the video decoder determines a bit limit scaling factor corresponding to the coding unit of coded video data from a plurality of bit limit scaling factors based on a coding mode of the coding unit of coded video data, and

the video decoder determines a bit number limit associated with the coding unit based on the bit limit scaling factor, and to determine the bit number limit, the video decoder multiplies a raw data size of the coding unit by the bit limit scaling factor.

[Claim 2]

The apparatus according to claim 1, further comprising a storage, wherein

the video decoder determines a buffer size of the storage based at least in part on the determined bit number limit.

[Claim 3]

The apparatus according to claim 1 or 2, wherein the bitstream includes an indicator corresponding to the coding mode.

[Claim 4]

The apparatus according to any one of claims 1 to 3, wherein

when the coding mode comprises a first coding mode with transform skipping being enabled, the bit limit scaling factor comprises a first value and

when the coding mode comprises a second coding mode with transform

skipping being disabled, the bit limit scaling factor comprises a second value, and

the first value is less than the second value.

[Claim 5]

The apparatus according to claim 4, wherein an only difference between the first coding mode and the second coding mode is whether the transform skipping is enabled or disabled.

[Claim 6]

The apparatus according to claim 4 or 5, wherein the first value is 4/3 and the second value is 3/2.

[Claim 7]

The apparatus according to any one of claims 1 to 3, wherein

when the coding mode comprises a first coding mode with a first bit depth, the bit limit scaling factor comprises a first value and

when the coding mode comprises a second coding mode with a second bit depth, the bit limit scaling factor comprises a second value, and

the first bit depth is less than the second bit depth and the first value is less than the second value.

[Claim 8]

The apparatus according to claim 7, wherein the first bit depth is 8 bits, the second bit depth is 10 bits, the first value is 4/3, and the second value is 5/3.

[Claim 9]

A system comprising the apparatus according to any one of claims 1 to 8 and further comprising a display, wherein

the video decoder decodes the at least one coding unit to generate decoded

video data, and

the system further comprises a processor that displays the decoded video data on the display.

[Claim 10]

The system according to claim 9, further comprising one or more radios that receive the bitstream.

[Claim 11]

A computer-implemented method of decoding compressed video data, comprising:

a step of accessing a bitstream of compressed video data including at least one coding unit of coded video data;

a step of determining a bit limit scaling factor corresponding to the coding unit of coded video data from a plurality of bit limit scaling factors based on a coding mode of the coding unit of coded video data; and

a step of determining a bit number limit associated with the coding unit, wherein

the step of determining the bit number limit includes a step of multiplying a raw data size of the coding unit by the bit limit scaling factor.

[Claim 12]

The method according to claim 11, further comprising a step of determining a buffer size based at least in part on the determined bit number limit.

[Claim 13]

The method according to claim 11 or 12, wherein the bitstream includes an indicator corresponding to the coding mode.

[Claim 14]

The method according to any one of claims 11 to 13, wherein

when the coding mode comprises a first coding mode with transform skipping being enabled, the bit limit scaling factor comprises a first value

when the coding mode comprises a second coding mode with transform skipping being disabled, the bit limit scaling factor comprises a second value, and

the first value is less than the second value.

[Claim 15]

The method according to claim 14, wherein an only difference between the first coding mode and the second coding mode is whether the transform skipping is enabled or disabled.

[Claim 16]

The method according to claim 14 or 15, wherein the first value is 4/3 and the second value is 3/2.

[Claim 17]

The method according to any one of claims 11 to 13, wherein

when the coding mode comprises a first coding mode with a first bit depth, the bit limit scaling factor comprises a first value,

when the coding mode comprises a second coding mode with a second bit depth, the bit limit scaling factor comprises a second value, and

the first bit depth is less than the second bit depth and the first value is less than the second value.

[Claim 18]

The method according to claim 17, wherein the first bit depth is 8 bits, the

second bit depth is 10 bits, the first value is 4/3, and the second value is 5/3.

[Claim 19]

An integrated circuit comprising means that performs the method according to any one of claims 11 to 18.

[Claim 20]

A program that causes a computer to realize the apparatus according to any one of claims 1 to 8 or to implement the method according to any one of claims 11 to 18.