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Amended Set of Claims

1. A method of processing video data, the method comprising:
selecting, from among a set of Hypothetical Reference Decoder (HRD) parameters in a video parameter set (VPS) and a set of HRD parameters in a sequence parameter set (SPS), a set of HRD parameters applicable to a particular operation point of a bitstream comprising encoded video data, wherein selecting the set of HRD parameters applicable to the particular operation point comprises determining that the set of HRD parameters in the SPS is applicable to the particular operation point when a layer identifier set of the particular operation point contains a set of all layer identifiers present in a bitstream subset that is to be decoded or that is under test; and
performing, based at least in part on the selected set of HRD parameters applicable to the particular operation point, an HRD operation on the bitstream subset.
2. (Deleted).
3. The method of claim 1, wherein the set of HRD parameters applicable to the particular operation point includes parameters that specify an initial coding picture buffer (CPB) removal delay, a CPB size, a bit rate, an initial decoded picture buffer (DPB) output delay, and a DPB size.
4. The method of claim 1, further comprising:
determining a target layer identifier set of the particular operation point that contains each layer identifier present in the bitstream subset, wherein the target layer identifier set of the particular operation point is a subset of layer identifiers present in the bitstream, and
determining a target temporal identifier of the particular operation point that is equal to a greatest temporal identifier present in the bitstream subset, wherein the target temporal identifier of the particular operation point is less than or equal to the greatest temporal identifier present in the bitstream.

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5. (Deleted).

6. The method of claim 4, wherein selecting the set of HRD parameters comprises selecting the set of HRD parameters in the SPS in response to determining that a set of layer identifiers specified in the SPS is identical to the target layer identifier set of the particular operation point.

7. The method of claim 1, wherein performing the HRD operation comprises performing a bitstream conformance test that determines whether the bitstream conforms to a video coding standard.

8. The method of claim 7, wherein performing the bitstream conformance test comprises determining that the bitstream does not conform to the video coding standard when, for all sets of HRD parameters in a coded video sequence, more than one set of HRD parameters applies to the same operation point.

9. The method of claim 7, wherein performing the bitstream conformance test comprises determining that the bitstream does not conform to the video coding standard when more than one set of HRD parameters in the VPS applies to the same operation point.

10. The method of claim 7, wherein performing the bitstream conformance test comprises determining that the bitstream does not conform to the video coding standard when the VPS includes a set of HRD parameters that applies to operation points having layer identifier sets containing only the value 0.

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11. A device comprising:
a storage medium storing encoded video data; and
one or more processors configured to:
select, from among a set of Hypothetical Reference Decoder (HRD) parameters in a video parameter set (VPS) and a set of HRD parameters in a sequence parameter set (SPS), a set of HRD parameters applicable to a particular operation point of a bitstream comprising the encoded video data, wherein the one or more processors are configured to determine that the set of HRD parameters in the SPS is applicable to the particular operation point when a layer identifier set of the particular operation point contains a set of all layer identifiers present in a bitstream subset that is to be decoded or that is under test; and
perform, based at least in part on the selected set of HRD parameters applicable to the particular operation point, an HRD operation on the bitstream subset.
12. (Deleted).
13. The device of claim 11, wherein the set of HRD parameters applicable to the particular operation point include parameters that specify an initial coding picture buffer (CPB) removal delay, a CPB size, a bit rate, an initial decoded picture buffer (DPB) output delay, and a DPB size.
14. The device of claim 11, wherein the one or more processors are configured to:
determine a target layer identifier set of the particular operation point that contains each layer identifier present in the bitstream subset; wherein the target layer identifier set of the particular operation point is a subset of layer identifiers present in the bitstream, and

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determine a target temporal identifier of the particular operation point that is equal to a greatest temporal identifier present in the bitstream subset, wherein the target temporal identifier of the particular operation point is less than or equal to the greatest temporal identifier present in the bitstream.

15. (Deleted).

16. The device of claim 14, wherein the one or more processors are configured to select the set of HRD parameters in the SPS in response to determining that a set of layer identifiers specified in the SPS is identical to the target layer identifier set of the particular operation point.

17. The device of claim 11, wherein the one or more processors are configured to perform a bitstream conformance test that determines whether the bitstream conforms to a video coding standard.

18. The device of claim 17, wherein the one or more processors are configured to determine that the bitstream does not conform to the video coding standard when, for all sets of HRD parameters in a coded video sequence, more than one set of HRD parameters applies to the same operation point.

19. The device of claim 17, wherein the one or more processors are configured to determine that the bitstream does not conform to the video coding standard when more than one set of HRD parameters in the VPS applies to the same operation point.

20. The device of claim 17, wherein the one or more processors are configured to determine that the bitstream does not conform to the video coding standard when the VPS includes a set of HRD parameters that applies to operation points having layer identifier sets containing only the value 0.

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21. A device comprising:

means for selecting, from among a set of Hypothetical Reference Decoder (HRD) parameters in a video parameter set (VPS) and a set of HRD parameters in a sequence parameter set (SPS), a set of HRD parameters applicable to a particular operation point of a bitstream comprising encoded video data, wherein the means for selecting comprises means for determining that the set of HRD parameters in the SPS is applicable to the particular operation point when a layer identifier set of the particular operation point contains a set of all layer identifiers present in a bitstream subset that is to be decoded or that is under test; and

means for performing, based at least in part on the selected set of HRD parameters applicable to the particular operation point, an HRD operation on a bitstream subset.

22. (Deleted).

23. The device of claim 21, further comprising:

means for determining a target layer identifier set of the particular operation point that contains each layer identifier present in the bitstream subset, wherein the target layer identifier set of the particular operation point is a subset of layer identifiers present in the bitstream;

means for determining a target temporal identifier of the particular operation point that is equal to a greatest temporal identifier present in the bitstream subset, wherein the target temporal identifier of the particular operation point is less than or equal to the greatest temporal identifier present in the bitstream; and

means for selecting the set of HRD parameters in the SPS in response to determining that a set of layer identifiers specified in the SPS is identical to the target layer identifier set of the particular operation point.

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24. A computer-readable data storage medium having instructions stored thereon that, when executed by one or more processors of a device, configure the device to:

select, from among a set of Hypothetical Reference Decoder (HRD) parameters in a video parameter set (VPS) and a set of HRD parameters in a sequence parameter set (SPS), a set of HRD parameters applicable to a particular operation point of a bitstream comprising encoded video data, wherein the instructions configure the device to determine that the set of HRD parameters in the SPS is applicable to the particular operation point when a layer identifier set of the particular operation point contains a set of all layer identifiers present in the bitstream subset that is to be decoded or that is under test; and

perform, based at least in part on the selected set of HRD parameters applicable to the particular operation point, an HRD operation on a bitstream.

25. (Deleted).

26. The computer-readable data storage medium of claim 24, wherein the instructions configure the device to:

determine a target layer identifier set of the particular operation point that contains each layer identifier present in the bitstream subset, wherein the target layer identifier set of the particular operation point is a subset of layer identifiers present in the bitstream;

determine a target temporal identifier of the particular operation point that is equal to a greatest temporal identifier present in the bitstream subset, wherein the target temporal identifier of the particular operation point is less than or equal to the greatest temporal identifier present in the bitstream; and

select the set of HRD parameters in the VPS in response to determining that a set of layer identifiers specified in the VPS is identical to the target layer identifier set of the particular operation point.

CLAIMS

1. An invention not claimed in any divisional application.