

According to a first aspect of the present invention, there is provided a method for information processing a device comprising: decoding a bit stream based on video parameter set (VPS) syntax structure wherein a byte-alignment syntax is under a condition of a VPS extension flag in the VPS syntax structure.

According to a second aspect of the present invention, there is provided an information processing apparatus comprising: a decoder for decoding a bit stream based on video parameter set (VPS) syntax structure wherein a byte-alignment syntax is under a condition of a VPS extension flag in the VPS syntax structure.

In one ~~aspect~~ embodiment, a method programmed in a non-transitory memory of a device comprises decoding content and accessing information related to the content, wherein the information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information. A video parameter set function used in determining the video parameter set data is under a condition of a video parameter set extension flag. Byte-alignment syntaxes used in determining the video parameter set data are under a condition of a video parameter set extension flag. The video parameter set data includes a raw byte sequence payload trailing bits value. The video parameter set data is determined without using byte alignment syntaxes. The video parameter set data is determined using two syntaxes for mixed sequence signaling support. The video parameter set data is determined using a source mixed codec flag syntax parameter. The video parameter set data is determined using a source mixed video present flag syntax parameter. The video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter. The method further comprises encoding the content. The device comprises a personal computer, a laptop computer, a computer workstation, a server, a mainframe computer, a handheld computer, a personal digital assistant, a cellular/mobile telephone, a smart appliance, a gaming console, a digital camera, a digital camcorder, a camera phone, a smart phone, a portable music player, a tablet computer, a mobile device, a video player, a video disc writer/player, a high definition disc writer/player, an ultra high definition disc writer/player), a television, a home entertainment system, or a smart watch.

In another ~~aspect~~ embodiment, a method programmed in a non-transitory memory of a device comprises providing content and enabling access of information related to the content, wherein the information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information. A video parameter set function used in determining the video parameter set data is under a condition of a video parameter set extension flag. Byte-alignment syntaxes used in determining the video parameter set data are under a condition of a video parameter set extension flag. The video parameter set data includes a raw byte sequence payload trailing bits value. The video parameter set data is determined without

using byte alignment syntaxes. The video parameter set data is determined using two syntaxes for mixed sequence signaling support. The video parameter set data is determined using a source mixed codec flag syntax parameter. The video parameter set data is determined using a source mixed video present flag syntax parameter.

The video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter. The method further comprises encoding the content. The device comprises a personal computer, a laptop computer, a computer workstation, a server, a mainframe computer, a handheld computer, a personal digital assistant, a cellular/mobile telephone, a smart appliance, a gaming console, a digital camera, a digital camcorder, a camera phone, a smart phone, a portable music player, a tablet computer, a mobile device, a video player, a video disc writer/player, a high definition disc writer/player, an ultra high definition disc writer/player), a television, a home entertainment system, or a smart watch.

In another aspect embodiment, an apparatus comprises a non-transitory memory for storing an application, the application for decoding content and accessing information related to the content, wherein the information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information and a processing component coupled to the memory, the processing component configured for processing the application. A video parameter set function used in determining the video parameter set data is under a condition of a video parameter set extension flag. Byte-alignment syntaxes used in determining the video parameter set data are under a condition of a video parameter set extension flag. The video parameter set data includes a raw byte sequence payload trailing bits value. The video parameter set data is determined without using byte alignment syntaxes. The video parameter set data is determined using two syntaxes for mixed sequence signaling support. The video parameter set data is determined using a source mixed codec flag syntax parameter. The video parameter set data is determined using a source mixed video present flag syntax parameter. The video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter. The apparatus further comprises encoding the content.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a flowchart of a method of utilizing a modified VPS syntax according to some embodiments.

FIG. 2 illustrates a block diagram of an exemplary computing device configured to implement the modified VPS method according to some embodiments.

FIG. 3 illustrates a general diagram of an HEVC encoder according to some embodiments.

What is claimed is: CLAIMS

1. A method ~~programmed in a non-transitory memory of~~ for information processing a device comprising:
 - a. ~~decoding content; and a bit stream based on video parameter set (VPS) syntax structure wherein a byte-alignment syntax is under a condition of a VPS extension flag in the VPS syntax structure.~~
 - b. ~~accessing information related to the content, wherein the information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information.~~
2. The method of claim 1 wherein a ~~video parameter set~~ VPS function used in determining the ~~video parameter set data~~ is under a condition of a ~~video parameter set~~ VPS extension flag in VPS syntax structure.
3. The method of claim 1 wherein VPS extension function is present after byte-alignment syntaxes in VPS syntax structure ~~used in determining the video parameter set data~~ are under a condition of a ~~video parameter set extension flag~~.
4. ~~The method of claim 1 wherein the video parameter set data includes a raw byte sequence payload trailing bits value.~~
5. ~~The method of claim 1 wherein the video parameter set data is determined without using byte alignment syntaxes.~~
6. ~~The method of claim 1 wherein the video parameter set data is determined using two syntaxes for mixed sequence signaling support.~~
7. ~~The method of claim 6 wherein the video parameter set data is determined using a source mixed codec flag syntax parameter.~~
8. ~~The method of claim 7 wherein the video parameter set data is determined using a source mixed video present flag syntax parameter.~~

9. — The method of claim 1 wherein the video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter.

10. — The method of claim 1 further comprising encoding the content.

11. — The method of claim 1 wherein the device comprises a personal computer, a laptop computer, a computer workstation, a server, a mainframe computer, a handheld computer, a personal digital assistant, a cellular/mobile telephone, a smart appliance, a gaming console, a digital camera, a digital camcorder, a camera phone, a smart phone, a portable music player, a tablet computer, a mobile device, a video player, a video disc writer/player, a high definition disc writer/player, an ultra high definition disc writer/player), a television, a home entertainment system, or a smart watch.

12. — A method programmed in a non-transitory memory of a device comprising:

—— a. providing content; and

—— b. enabling access of information related to the content, wherein the

—— information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information.

13. — The method of claim 12 wherein a video parameter set function used in determining the video parameter set data is under a condition of a video parameter set extension flag.

14. — The method of claim 12 wherein byte alignment syntaxes used in determining the video parameter set data are under a condition of a video parameter set extension flag.

15. — The method of claim 12 wherein the video parameter set data includes a raw byte sequence payload trailing bits value.

16. — The method of claim 12 wherein the video parameter set data is determined without using byte alignment syntaxes.

~~17. The method of claim 12 wherein the video parameter set data is determined using two syntaxes for mixed sequence signaling support.~~

~~18. The method of claim 17 wherein the video parameter set data is determined using a source mixed codec flag syntax parameter.~~

~~19. The method of claim 18 wherein the video parameter set data is determined using a source mixed video present flag syntax parameter.~~

~~20. The method of claim 12 wherein the video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter.~~

~~21. The method of claim 12 further comprising encoding the content.~~

~~22. The method of claim 12 wherein the device comprises a personal computer, a laptop computer, a computer workstation, a server, a mainframe computer, a handheld computer, a personal digital assistant, a cellular/mobile telephone, a smart appliance, a gaming console, a digital camera, a digital camcorder, a camera phone, a smart phone, a portable music player, a tablet computer, a mobile device, a video player, a video disc writer/player, a high definition disc writer/player, an ultra high definition disc writer/player), a television, a home entertainment system, or a smart watch.~~

~~23~~ 4. An information processing apparatus comprising:

~~a. a non-transitory memory for storing an application, the application for:~~

~~i. decoding content; and a decoder for decoding a bit stream based on video parameter set (VPS) syntax structure wherein a byte-alignment syntax is under a condition of a VPS extension flag in the VPS syntax structure.~~

~~ii. accessing information related to the content, wherein the information comprises video parameter set data, further wherein the video parameter set data comprises mixed signaling information; and~~

~~b. a processing component coupled to the memory, the processing component configured for — processing the application.~~

~~245. The apparatus of claim 234 wherein a video parameter set VPS function used in determining the video parameter set data is under a condition of a video parameter set VPS extension flag in VPS syntax structure.~~

~~256. The apparatus of claim 235 wherein VPS extension function is present after byte-alignment syntaxes in VPS syntax structure used in determining the video parameter set data are under a condition of a video parameter set extension flag.~~

~~26. The apparatus of claim 23 wherein the video parameter set data includes a raw byte sequence payload trailing bits value.~~

~~27. The apparatus of claim 23 wherein the video parameter set data is determined without using byte alignment syntaxes.~~

~~28. The apparatus of claim 23 wherein the video parameter set data is determined using two syntaxes for mixed sequence signaling support.~~

~~29. The apparatus of claim 28 wherein the video parameter set data is determined using a source mixed codec flag syntax parameter.~~

~~30. The apparatus of claim 29 wherein the video parameter set data is determined using a source mixed video present flag syntax parameter.~~

~~31. The apparatus of claim 23 wherein the video parameter set data is determined using specific application support and a source mixed video present flag syntax parameter.~~

~~32. The apparatus of claim 23 further comprising encoding the content.~~