CLAIMS

What is claimed is:

1. A method of decoding video data, executed by a processor, comprising:

receiving video data comprising one or more subpictures, the video data comprising information signaling a value of a subpicture identifier corresponding to a subpicture from among the one or more subpictures; and

decoding the video data based on the signaled value of the subpicture identifier,

wherein the information signaling the value of the subpicture identifier comprises:

a flag, signaled in a sequence parameter set, indicating whether to use a network abstraction layer (NAL) unit identifier as the subpicture identifier, and

when the flag indicates to use the NAL unit identifier as the subpicture identifier, a value of a variable subpicture identifier is set to be equal to a value of the NAL unit identifier signaled in a NAL unit header, and

when the flag indicates not to use the NAL unit identifier as the subpicture identifier, the value of the variable subpicture identifier is set to be equal to an identifier value corresponding to the subpicture which is present in a slice header.

2. The method of claim 1, wherein a length of the value of the subpicture identifier is signaled by the sequence parameter set.

3. A computer system for decoding video data, the computer system comprising:

one or more computer-readable non-transitory storage media configured to store computer program code; and

one or more computer processors configured to access said computer program code and operate as instructed by said computer program code, said computer program code including:

receiving code configured to cause the one or more computer processors to receive video data comprising one or more subpictures, the video data comprising information signaling a value of a subpicture identifier corresponding to a subpicture from among the one or more subpictures; and

decoding code configured to cause the one or more computer processors to decode the video data based on the signaled value of the subpicture identifier,

wherein the information signaling the value of the subpicture identifier

comprises:

a flag, signaled in a sequence parameter set, indicating whether to use a network abstraction layer (NAL) unit identifier as the subpicture identifier, and

when the flag indicates to use the NAL unit identifier as the subpicture identifier, a value of a variable subpicture identifier is set to be equal to a value of the NAL unit identifier signaled in a NAL unit header, and

when the flag indicates not to use the NAL unit identifier as the subpicture identifier, the value of the variable subpicture identifier is set to be equal to an identifier value corresponding to the subpicture which is present in a slice header.

4. The computer system of claim 3, wherein the identifier value is configured to be signaled by both a network abstraction layer unit header and a slice header.

5. A computer readable medium having stored thereon a computer program for coding video data, the computer program configured to cause one or more computer processors to perform the method of claim 1 or 2.