CLAIMS

1. A video decoding method comprising:

determining whether an offset parameter of a current block is determined according to an offset parameter of a left block;

in response to determining that the offset parameter of the current block is determined according to the offset parameter of the left block, determining an offset type of a luma component of the current block using an offset type of a luma component of the left block and determining an offset type of a chroma component of the current block using an offset type of a chroma component of the left block;

in response to determining that the offset parameter of the current block is not determined according to the offset parameter of the left block, determining whether the offset parameter of the current block is determined according to an offset parameter of an upper block;

in response to determining that the offset parameter of the current block is determined according to the offset parameter of the upper block, determining the offset type of the luma component of the current block using an offset type of a luma component of the upper block and determining the offset type of the chroma component of the current block using an offset type of a chroma component of the upper block;

in response to determining that the offset parameter of the current block is not determined according to the offset parameter of the upper block, obtaining, from the bitstream, offset type information of the luma component of the current block and offset type information of the chroma component of the current block; and

compensating for samples of the current block by using offset values,

wherein the obtaining, from the bitstream, offset type information of the luma component of the current block and offset type information of the chroma component of the current block comprises:

when the offset type information of the luma component of the current block indicates an edge offset type, obtaining, from the bitstream, luma offset values and a luma edge class indicating a direction of a luma edge of the current block and compensating for luma samples of the current block by using the luma offset values and the luma edge class;

when the offset type information of the chroma component of the current block indicates the edge offset type, obtaining, from the bitstream, chroma offset values and a chroma edge class indicating a direction of a chroma edge of the current block and compensating for chroma samples of the current block by using the chroma offset values and the chroma edge class;

when the offset type information of the luma component of the current block indicates a band offset type, obtaining, from the bitstream, the luma offset values, and compensating for the luma samples of the current block by using the luma offset values; and

when the offset type information of the chroma component of the current block indicates the band offset type, obtaining, from the bitstream, the chroma offset values, and compensating for the chroma samples of the current block by using the chroma offset values.