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I.7.3.8.5.1 Intra mode extension syntax

|  |
| --- |
| intra\_mode\_ext( x0 , y0 , log2CbSize ) { |
| if( log2CbSize < 6 ) |
| **dmm\_flag**[ x0 ][ y0 ] |
|  |
|  |
| if( dmm\_flag[x0][y0] ) |
| **wedge\_full\_tab\_idx**[ x0  ][ y0 ] |
| } |

**dmm\_flag**[ x0 ][ y0 ] equal to 1 specifies that depth modeling modes are used for the current coding unit. The variable DepthIntraMode[x0][y0] is set to INTRA\_DEP\_DMM\_WFULL. dmm\_flag[ x0 ][ y0 ] equal to 0 specifies that depth modeling modes are not used for the current coding unit. The variable DepthIntraMode[x0][y0] is set to INTRA\_DEP\_NONE When not present, the value of dmm\_flag[ x0 ][ y0 ] is inferred to be equal to 0.



**wedge\_full\_tab\_idx**[ x0 ][ y0 ]specifies the index of the wedgelet pattern in the corresponding pattern list when dmm\_flag[x0][y0] is equal to 1.

I.7.3.8.5.2 Coding unit extension syntax

|  |
| --- |
| … |
| if( dmm\_flag[ x0 + k ][ y0 + j ] | | sdc\_flag[ x0 ][ y0 ] ) { |
| if( CuPredMode[ x0 ][ y0 ] = = MODE\_INTRA ) { |
| **depth\_dc\_flag**[ x0 + k ][ y0 + j ] |
| dcNumSeg = dmm\_flag[ x0 + k ][ y0 + j ] ? 2 : 1 |
| } else |
| … |

I.8.4.2 Derivation process for luma intra prediction mode

Table I‑4 – Specification of intra prediction mode and associated names

|  |  |
| --- | --- |
| **Intra prediction mode** | **Associated name** |
| 0 | INTRA\_PLANAR |
| 1 | INTRA\_DC |
| 2..34 | INTRA\_ANGULAR2..INTRA\_ANGULAR34 |
| 35 | INTRA\_DMM\_WFULL |
|  |  |

* If DepthIntraMode[ xPb ][ yPb ] is equal to INTRA\_DEP\_DMM\_WFULL, IntraPredModeY[ xPb ][ yPb ] is set equal to INTRA\_DMM\_WFULL.

…

I.8.4.4.1 General decoding process for intra blocks

…

* + - * If DltFlag[ nuh\_layer\_id ] is equal to 1 and predModeIntra is equal to INTRA\_DC, INTRA\_ANGULAR10, INTRA\_ANGULAR26, INTRA\_DMM\_WFULL, the following applies, for i in the range of 0 to nTbS − 1, inclusive, and j in the range of 0 to nTbS − 1, inclusive:

idx = DepthValue2Idx[ predSamples[ i ][ j ] ] + resSamples[ i ][ j ] (‑58)

SL[ xTb0 + i ][ yTb0 + j ] =   
 Idx2DepthValue[ clip3( 0, NumDepthValuesInDlt[ nuh\_layer\_id ] − 1, idx ) ] (‑59)

…

I.8.4.4.2.1 General intra sample prediction

…

I.8.4.4.3 Segmental depth intra coding process

…

* Otherwise (predModeIntra is not equal to INTRA\_DMM\_WFULL or INTRA\_DMM\_CPREDTEX), the following applies:

…

* Otherwise (DltFlag[ nuh\_layer\_id ] is equal to 1), the following applies:
  + The variables dcPred[ 0 ] and dcPred[ 1 ] are derived as specified in the following:
    - If predModeIntra is not equal to INTRA\_DMM\_WFULL, the following applies:
      * 1. dcPred[ 0 ] = ( predSamples[ 0 ][ 0 ] + predSamples[ 0 ][ nTbS − 1 ] + predSamples[ nTbS − 1 ][ 0 ] + predSamples[ nTbS − 1 ][ nTbS − 1 ] + 2 ) >> 2 (I‑80)
    - Otherwise (if predModeIntra is equal to INTRA\_DMM\_WFULL), the following applies:
      * 1. dcPred[ wedgePattern[ 0 ][ 0 ] ] = predSamples[ 0 ][ 0 ] (I‑81)
        2. dcPred[ wedgePattern[ nTbS − 1 ][ 0 ] ] = predSamples[ nTbS − 1 ][ 0 ] (I‑82)
        3. dcPred[ wedgePattern[ 0 ][ nTbS − 1 ] ] = predSamples[ 0 ][ nTbS − 1 ] (I‑83)
        4. dcPred[ wedgePattern[ nTbS − 1 ][ nTbS − 1 ] ] = predSamples[ nTbS − 1 ][ nTbS − 1 ] (I‑84)

…

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