# Draft Text Specification: The proposed text changes are based on the document JCTVC-M1005-v2.doc. Changes are marked in yellow.

**7.3.8.11 Residual coding syntax**

|  |  |
| --- | --- |
| residual\_coding( x0, y0, log2TrafoSize, cIdx ) { | Descriptor |
| … |  |
| signHidden = ( lastSigScanPos − firstSigScanPos > 3 && !cu\_transquant\_bypass\_flag ) |  |
| if ( transform\_skip\_flag[ x0 ] [ y0 ] [ cIdx ] && ( CuPredMode[ x0 ][ y0 ] == MODE\_INTRA ) && ( predModeIntra == 26 ) || ( predModeIntra == 10 ) ||  ( predModeIntra == 2 ) || ( predModeIntra == 18 ) || ( predModeIntra == 34 ) ) ) |  |
| signHidden = 0 |  |
| if( lastGreater1ScanPos != −1 ) |  |
| … |  |

* + - 1. **General decoding process for intra blocks**

…

5. When either cu\_transquant\_bypass\_flag is equal to 1 or transform\_skip\_flag[ xTb0 ] [ yTb0 + yTbOffset ] [ cIdx ] is equal to 1 and either predModeIntra is equal to 10, or predModeIntra is equal to 26, 2, 18 and 34, the directional residual modification process for intra blocks as specified in subclause 8.4.4.3 is invoked with the intra

…

#### Residual modification process for intra blocks using transquant bypass

…

– Otherwise, if predModeIntra is equal to 26, the array values r[ x ][ y ], for x = 0..nTbS − 1, y = 1..nTbS − 1, are modified as follows:

r[ x ][ y ] += r[ x ][ y − 1 ] (8‑64)

– Otherwise, if predModeIntra is equal to 2, the array values r[ x ][ y ], for x = 1..nTbS − 1, y = 0..nTbS − 2, are modified as follows:

r[ x ][ y ] += r[ x -1][ y + 1 ] (8‑64.1)

– Otherwise, if predModeIntra is equal to 18, the array values r[ x ][ y ], for x = 1..nTbS − 1, y = 1..nTbS − 1, are modified as follows:

r[ x ][ y ] += r[ x-1 ][ y − 1 ] (8‑64.2)

– Otherwise, if predModeIntra is equal to 34, the array values r[ x ][ y ], for y = 1..nTbS − 1, x = 0..nTbS − 2 are modified as follows:

r[ x ][ y ] += r[ x +1][ y − 1 ] (8‑64.3)