**Table 9-5 – coeff\_token mapping to TotalCoeff( coeff\_token ) and TrailingOnes( coeff\_token )**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TrailingOnes**  **( coeff\_token )** | **TotalCoeff**  **( coeff\_token )** | **0 <= nC < 2** | **2 <= nC < 4** | **4 <= nC < 8** | **8 <= nC** | **nC = = −1** | **nC = = −2** |
| 0 | 0 | 1 | 11 | 1111 | 0000 11 | 01 | 1 |
| 0 | 1 | 0001 01 | 0010 11 | 0011 11 | 0000 00 | 0001 11 | 0001 111 |
| 1 | 1 | 01 | 10 | 1110 | 0000 01 | 1 | 01 |
| 0 | 2 | 0000 0111 | 0001 11 | 0010 11 | 0001 00 | 0001 00 | 0001 110 |
| 1 | 2 | 0001 00 | 0011 1 | 0111 1 | 0001 01 | 0001 10 | 0001 101 |
| 2 | 2 | 001 | 011 | 1101 | 0001 10 | 001 | 001 |
| 0 | 3 | 0000 0011 1 | 0000 111 | 0010 00 | 0010 00 | 0000 11 | 0000 0011 1 |
| 1 | 3 | 0000 0110 | 0010 10 | 0110 0 | 0010 01 | 0000 011 | 0001 100 |
| 2 | 3 | 0000 101 | 0010 01 | 0111 0 | 0010 10 | 0000 010 | 0001 011 |
| 3 | 3 | 0001 1 | 0101 | 1100 | 0010 11 | 0001 01 | 0000 1 |
| 0 | 4 | 0000 0001 11 | 0000 0111 | 0001 111 | 0011 00 | 0000 10 | 0000 0011 0 |
| 1 | 4 | 0000 0011 0 | 0001 10 | 0101 0 | 0011 01 | 0000 0011 | 0000 0010 1 |
| 2 | 4 | 0000 0101 | 0001 01 | 0101 1 | 0011 10 | 0000 0010 | 0001 010 |
| 3 | 4 | 0000 11 | 0100 | 1011 | 0011 11 | 0000 000 | 0000 01 |
| 0 | 5 | 0000 0000 111 | 0000 0100 | 0001 011 | 0100 00 | - | 0000 0001 11 |
| 1 | 5 | 0000 0001 10 | 0000 110 | 0100 0 | 0100 01 | - | 0000 0001 10 |
| 2 | 5 | 0000 0010 1 | 0000 101 | 0100 1 | 0100 10 | - | 0000 0010 0 |
| 3 | 5 | 0000 100 | 0011 0 | 1010 | 0100 11 | - | 0001 001 |
| 0 | 6 | 0000 0000 0111 1 | 0000 0011 1 | 0001 001 | 0101 00 | - | 0000 0000 111 |
| 1 | 6 | 0000 0000 110 | 0000 0110 | 0011 10 | 0101 01 | - | 0000 0000 110 |
| 2 | 6 | 0000 0001 01 | 0000 0101 | 0011 01 | 0101 10 | - | 0000 0001 01 |
| 3 | 6 | 0000 0100 | 0010 00 | 1001 | 0101 11 | - | 0001 000 |
| 0 | 7 | 0000 0000 0101 1 | 0000 0001 111 | 0001 000 | 0110 00 | - | 0000 0000 0111 |
| 1 | 7 | 0000 0000 0111 0 | 0000 0011 0 | 0010 10 | 0110 01 | - | 0000 0000 0110 |
| 2 | 7 | 0000 0000 101 | 0000 0010 1 | 0010 01 | 0110 10 | - | 0000 0000 101 |

**Table 9-5 – coeff\_token mapping to TotalCoeff( coeff\_token ) and TrailingOnes( coeff\_token )**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TrailingOnes**  **( coeff\_token )** | **TotalCoeff**  **( coeff\_token )** | **0 <= nC < 2** | **2 <= nC < 4** | **4 <= nC < 8** | **8 <= nC** | **nC = = −1** |  | **nC = = −2** |
| 3 | 7 | 0000 0010 0 | 0001 00 | 1000 | 0110 11 | - | 0000 0001 00 | |
| 0 | 8 | 0000 0000 0100 0 | 0000 0001 011 | 0000 1111 | 0111 00 | - | 0000 0000 0011 1 | |
| 1 | 8 | 0000 0000 0101 0 | 0000 0001 110 | 0001 110 | 0111 01 | - | 0000 0000 0101 | |
| 2 | 8 | 0000 0000 0110 1 | 0000 0001 101 | 0001 101 | 0111 10 | - | 0000 0000 0100 | |
| 3 | 8 | 0000 0001 00 | 0000 100 | 0110 1 | 0111 11 | - | 0000 0000 100 | |
| 0 | 9 | 0000 0000 0011 11 | 0000 0000 1111 | 0000 1011 | 1000 00 | - | - |  |
| 1 | 9 | 0000 0000 0011 10 | 0000 0001 010 | 0000 1110 | 1000 01 | - | - |  |
| 2 | 9 | 0000 0000 0100 1 | 0000 0001 001 | 0001 010 | 1000 10 | - | - |  |
| 3 | 9 | 0000 0000 100 | 0000 0010 0 | 0011 00 | 1000 11 | - | - |  |
| 0 | 10 | 0000 0000 0010 11 | 0000 0000 1011 | 0000 0111 1 | 1001 00 | - | - |  |
| 1 | 10 | 0000 0000 0010 10 | 0000 0000 1110 | 0000 1010 | 1001 01 | - | - |  |
| 2 | 10 | 0000 0000 0011 01 | 0000 0000 1101 | 0000 1101 | 1001 10 | - | - |  |
| 3 | 10 | 0000 0000 0110 0 | 0000 0001 100 | 0001 100 | 1001 11 | - | - |  |
| 0 | 11 | 0000 0000 0001 111 | 0000 0000 1000 | 0000 0101 1 | 1010 00 | - | - |  |
| 1 | 11 | 0000 0000 0001 110 | 0000 0000 1010 | 0000 0111 0 | 1010 01 | - | - |  |
| 2 | 11 | 0000 0000 0010 01 | 0000 0000 1001 | 0000 1001 | 1010 10 | - | - |  |
| 3 | 11 | 0000 0000 0011 00 | 0000 0001 000 | 0000 1100 | 1010 11 | - | - |  |
| 0 | 12 | 0000 0000 0001 011 | 0000 0000 0111 1 | 0000 0100 0 | 1011 00 | - | - |  |
| 1 | 12 | 0000 0000 0001 010 | 0000 0000 0111 0 | 0000 0101 0 | 1011 01 | - | - |  |
| 2 | 12 | 0000 0000 0001 101 | 0000 0000 0110 1 | 0000 0110 1 | 1011 10 | - | - |  |
| 3 | 12 | 0000 0000 0010 00 | 0000 0000 1100 | 0000 1000 | 1011 11 | - | - |  |
| 0 | 13 | 0000 0000 0000 1111 | 0000 0000 0101 1 | 0000 0011 01 | 1100 00 | - | - |  |
| 1 | 13 | 0000 0000 0000 001 | 0000 0000 0101 0 | 0000 0011 1 | 1100 01 | - | - |  |
| 2 | 13 | 0000 0000 0001 001 | 0000 0000 0100 1 | 0000 0100 1 | 1100 10 | - | - |  |
| 3 | 13 | 0000 0000 0001 100 | 0000 0000 0110 0 | 0000 0110 0 | 1100 11 | - | - |  |
| 0 | 14 | 0000 0000 0000 1011 | 0000 0000 0011 1 | 0000 0010 01 | 1101 00 | - | - |  |
| 1 | 14 | 0000 0000 0000 1110 | 0000 0000 0010 11 | 0000 0011 00 | 1101 01 | - | - |  |
| 2 | 14 | 0000 0000 0000 1101 | 0000 0000 0011 0 | 0000 0010 11 | 1101 10 | - | - |  |
| 3 | 14 | 0000 0000 0001 000 | 0000 0000 0100 0 | 0000 0010 10 | 1101 11 | - | - |  |
| 0 | 15 | 0000 0000 0000 0111 | 0000 0000 0010 01 | 0000 0001 01 | 1110 00 | - | - |  |
| 1 | 15 | 0000 0000 0000 1010 | 0000 0000 0010 00 | 0000 0010 00 | 1110 01 | - | - |  |
| 2 | 15 | 0000 0000 0000 1001 | 0000 0000 0010 10 | 0000 0001 11 | 1110 10 | - | - |  |
| 3 | 15 | 0000 0000 0000 1100 | 0000 0000 0000 1 | 0000 0001 10 | 1110 11 | - | - |  |
| 0 | 16 | 0000 0000 0000 0100 | 0000 0000 0001 11 | 0000 0000 01 | 1111 00 | - | - |  |

**Table 9-5 – coeff\_token mapping to TotalCoeff( coeff\_token ) and TrailingOnes( coeff\_token )**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TrailingOnes**  **( coeff\_token )** | **TotalCoeff**  **( coeff\_token )** | **0 <= nC < 2** | **2 <= nC < 4** | **4 <= nC < 8** | **8 <= nC** | **nC = = −1** |  | **nC = = −2** |
| 1 | 16 | 0000 0000 0000 0110 | 0000 0000 0001 10 | 0000 0001 00 | 1111 01 | - | - |  |
| 2 | 16 | 0000 0000 0000 0101 | 0000 0000 0001 01 | 0000 0000 11 | 1111 10 | - | - |  |
| 3 | 16 | 0000 0000 0000 1000 | 0000 0000 0001 00 | 0000 0000 10 | 1111 11 | - | - |  |

**Table 9-6 – Codeword table for level\_prefix (informative)**

|  |  |
| --- | --- |
| **level\_prefix** | **bit string** |
| 0 | 1 |
| 1 | 01 |
| 2 | 001 |
| 3 | 0001 |
| 4 | 0000 1 |
| 5 | 0000 01 |
| 6 | 0000 001 |
| 7 | 0000 0001 |
| 8 | 0000 0000 1 |
| 9 | 0000 0000 01 |
| 10 | 0000 0000 001 |
| 11 | 0000 0000 0001 |
| 12 | 0000 0000 0000 1 |
| 13 | 0000 0000 0000 01 |
| 14 | 0000 0000 0000 001 |
| 15 | 0000 0000 0000 0001 |
| … | … |

**Table 9-7 – total\_zeros tables for 4x4 blocks with tzVlcIndex 1 to 7**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **total\_zeros** |  |  |  | **tzVlcIndex** | |  |  |  |
|  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 |
| 0 | 1 | 111 | 0101 |  | 0001 1 | 0101 | 0000 01 | 0000 01 |
| 1 | 011 | 110 | 111 |  | 111 | 0100 | 0000 1 | 0000 1 |
| 2 | 010 | 101 | 110 |  | 0101 | 0011 | 111 | 101 |
| 3 | 0011 | 100 | 101 |  | 0100 | 111 | 110 | 100 |
| 4 | 0010 | 011 | 0100 |  | 110 | 110 | 101 | 011 |
| 5 | 0001 1 | 0101 | 0011 |  | 101 | 101 | 100 | 11 |
| 6 | 0001 0 | 0100 | 100 |  | 100 | 100 | 011 | 010 |
| 7 | 0000 11 | 0011 | 011 |  | 0011 | 011 | 010 | 0001 |
| 8 | 0000 10 | 0010 | 0010 |  | 011 | 0010 | 0001 | 001 |
| 9 | 0000 011 | 0001 1 | 0001 1 | | 0010 | 0000 1 | 001 | 0000 00 |
| 10 | 0000 010 | 0001 0 | 0001 0 | | 0001 0 | 0001 | 0000 00 | - |
| 11 | 0000 0011 | 0000 11 | 0000 01 | | 0000 1 | 0000 0 | - | - |
| 12 | 0000 0010 | 0000 10 | 0000 1 | | 0000 0 | - | - | - |
| 13 | 0000 0001 1 | 0000 01 | 0000 00 | | - | - | - | - |
| 14 | 0000 0001 0 | 0000 00 | - |  | - | - | - | - |
| 15 | 0000 0000 1 | - | - |  | - | - | - | - |