**Jeongsoo Kim**

**N0**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2C1 C0G | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 0 | 0 |
| 01 | 1 | 1 | 1 | 1 |
| 11 | 0 | 0 | X | X |
| 10 | 1 | 1 | 0 | 0 |

**N0 = C’2C1 + C’2C0’G + C2C’1C’0**

**N1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2C1 C0G | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 1 |
| 01 | 1 | 1 | 0 | 1 |
| 11 | 0 | 1 | X | X |
| 10 | 0 | 0 | 1 | 1 |

**N1 = C’2C1C0’ + C1C0’G + C2C0 + C0G’**

**N2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2C1 C0G | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 1 | 0 |
| 01 | 0 | 0 | 1 | 0 |
| 11 | 0 | 1 | X | X |
| 10 | 1 | 1 | 1 | 1 |

**N2 = C2C’1 + C0G + C2G**

**W**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2 C1C0 | 00 | 01 | 11 | 10 |
| 0 | 0 | 0 | 1 | 1 |
| 1 | 0 | 0 | X | 1 |

**W = c1**

**X**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2 C1C0 | 00 | 01 | 11 | 10 |
| 0 | 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | X | 0 |

**X = C’2C’1C0’ + C1C0**

**Y**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2 C1C0 | 00 | 01 | 11 | 10 |
| 0 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | X | 1 |

**Y = C2C0 + C2C1 + C1C0**

**Z**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C2 C1C0 | 00 | 01 | 11 | 10 |
| 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 1 | X | 0 |

**Z = C’2C1C0’ + C2C’1**