|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **t** | | | | **t+1** | | |  | | |
|  | **Q2** | **Q1** | **Q0** | **Z** | **Q2** | **Q1** | **Q0** | **D2** | **D1** | **D0** |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
|  | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
|  | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
|  | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |
| --- | --- | --- |
| **t** | **T+1** | **z** |
| Q0 | Q1 | 0 |
| Q1 | Q2 | 0 |
| Q2 | Q3 | 0 |
| Q3 | Q1 | 0 |
| Q4 | Q1 | 0 |
| Q5 | Q1 | 0 |
| Q0 | Q0 | 1 |
| Q1 | Q1 | 1 |
| Q2 | Q1 | 1 |
| Q3 | Q4 | 1 |
| Q4 | Q5 | 1 |
| Q5 | Q0 | 1 |

***D2***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q0Z0**  **Q2Q1** | **00** | **01** | **11** | **10** |
| **00** | 0 | 0 | 0 | 0 |
| **01** | 0 | 0 | 1 | 0 |
| **11** | - | - | - | - |
| **10** | 0 | 1 | 0 | 0 |

D2 =

***D1***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q0Z0**  **Q2Q1** | **00** | **01** | **11** | **10** |
| **00** | 0 | 0 | 0 | 1 |
| **01** | 1 | 0 | 0 | 0 |
| **11** | - | - | - | - |
| **10** | 0 | 0 | 0 | 0 |

D1 =

***D0***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q0Z0**  **Q2Q1** | **00** | **01** | **11** | **10** |
| **00** | 1 | 0 | 1 | 0 |
| **01** | 1 | 1 | 0 | 1 |
| **11** | - | - | - | - |
| **10** | 1 | 1 | 0 | 1 |

D0 =

|  |  |  |  |
| --- | --- | --- | --- |
| **Q2** | **Q1** | **Q0** | **Y** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |

|  |  |  |
| --- | --- | --- |
| **Q0**  **Q2Q1** | **0** | **1** |
| **00** | 0 | 0 |
| **01** | 0 | 0 |
| **11** | - | - |
| **10** | 0 | 1 |

Y0 = Q2Q0 + Q2Q1