Вариант 71

C=(А1)mod15 Число входных/выходных переменных: 5/5

Разрядность операндов: 4/-

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **y** | **а1** | **а2** | **а3** | **а4** | **v** | **с1** | **с2** | **с3** | **с4** |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 | d | d | d | d | d |
| 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | d | d | d | d | d |

**v**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=0** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 |  |  |  |  |
| 01 |  |  |  |  |
| 11 |  |  | d |  |
| 10 |  |  | 1 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=1** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 | 1 |  |  |  |
| 01 |  |  |  |  |
| 11 |  |  | d |  |
| 10 |  |  |  |  |

**с1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=1** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 | 1 |  | 1 |  |
| 01 |  |  | 1 | 1 |
| 11 |  |  | d | 1 |
| 10 |  |  | 1 | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=0** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 |  |  | 1 | 1 |
| 01 |  |  | 1 | 1 |
| 11 |  | 1 | d | 1 |
| 10 |  |  |  | 1 |

**с2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=1** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 | 1 |  |  | 1 |
| 01 |  | 1 | 1 |  |
| 11 |  | 1 | d |  |
| 10 |  | 1 | 1 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=0** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 |  | 1 | 1 |  |
| 01 |  | 1 | 1 |  |
| 11 | 1 |  | d | 1 |
| 10 |  | 1 |  |  |

**с3**



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=0** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 |  |  |  |  |
| 01 | 1 | 1 | 1 | 1 |
| 11 |  |  | d |  |
| 10 | 1 | 1 |  | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=1** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 |  |  |  |  |
| 11 | 1 | 1 | d | 1 |
| 10 |  |  |  |  |

**с4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=0** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | 1 |
| 01 |  |  |  |  |
| 11 |  |  | d |  |
| 10 | 1 | 1 |  | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **y=1** | **a1a2** | | | | |
| **a3a4** |  | 00 | 01 | 11 | 10 |
| 00 |  | 1 | 1 | 1 |
| 01 |  |  |  |  |
| 11 |  |  | d |  |
| 10 | 1 | 1 | 1 | 1 |



Sq =113

Sq =88

Tv=3τ, Tс1=4τ, Tс2=4τ, Tс3=3τ, Tс4=3τ , T= max (Тv, Tс1, Tс2, Tс3, Tс4)= 4τ.

F(00000) = 00001

F(10000) = 11110

