|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BLD** | **BO** | **Estado Atual** | **Próximo**  **Estado** | **Qn** | | | **Qn+1** | | | **T** | | | **MO** | **SD** | **SE** |
| X3 | X2 | X1 | X’3 | X’2 | X’1 | T3 | T2 | T1 |
| 0 | 0 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | Y | X | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | Z | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 0 | 0 | W | X | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 0 | 0 | K | X | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | L | X | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0 | 1 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 1 | Y | X | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | Z | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| 0 | 1 | W | X | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 0 | 1 | K | X | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 0 | 1 | L | X | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 0 | X | Y | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | Y | Y | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | Z | Z | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1 | 0 | W | W | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1 | 0 | K | K | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | L | L | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | X | Y | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| 1 | 1 | Y | Z | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | Z | W | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| 1 | 1 | W | K | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| 1 | 1 | K | L | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1 | 1 | L | Y | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Mapas de karnaugh:

T3

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |
| 01 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |
| 11 | 0 | 0 | 1 | 0 | - | - | 1 | 0 |
| 10 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |

T3= BLD.BO.X3.X2.X1 + BLD.X3 + BO.X3.X1

T2

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |
| 01 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |
| 11 | 0 | 1 | 1 | 0 | - | - | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |

T2= BLD.BO.X3.X1 + BLD.X2

T1

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 1 | 1 | 0 | - | - | 1 | 0 |
| 01 | 0 | 1 | 1 | 0 | - | - | 1 | 0 |
| 11 | 1 | 1 | 1 | 1 | - | - | 0 | 1 |
| 10 | 1 | 0 | 0 | 0 | - | - | 0 | 0 |

T1= X3.X1.BLD + BLD.BO.X3 + BLD.X2.X3.X1 + BLD.X3.X2.X1 + BLD.BO.X3.X2.X1

MO

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |
| 01 | 1 | 1 | 1 | 1 | - | - | 1 | 1 |
| 11 | 1 | 1 | 1 | 1 | - | - | 1 | 1 |
| 10 | 0 | 0 | 0 | 0 | - | - | 0 | 0 |

MO= BO

SD

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |
| 01 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |
| 11 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |
| 10 | 0 | 0 | 1 | 1 | - | - | 0 | 0 |

SD= X2

SE

X3 X2 X1

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BLD BO | 000 | 001 | 011 | 010 | 110 | 111 | 101 | 100 |
| 00 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |
| 01 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |
| 10 | 0 | 0 | 0 | 0 | - | - | 1 | 1 |

SE= X3

SE

SE

SD

SD

1

0

0

1

1

0

0

1

0

1

1

0

0

1

0

1

0

1

1

0

0

1

BO

BO

BO

BO

BO

BLD

BLD

BLD

BLD

BLD

BLD

101

100

011

010

001

L

K

W

Z

Y

X

000