|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BLD** | **BM** | **Estado Atual** | **Próximo**  **Estado** | **Qn** | | **Qn+1** | | **T** | | **R1** | **R2** | **MV** |
| X2 | X1 | X’2 | X’1 | T2 | T1 |
| 0 | 0 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | Y | X | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 0 | Z | X | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| 0 | 0 | W | X | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 0 | 1 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | Y | X | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | Z | X | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| 0 | 1 | W | X | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 1 | 0 | X | Y | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | Y | Y | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | Z | Z | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 1 | 0 | W | W | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | X | Y | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | Y | Z | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| 1 | 1 | Z | W | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 1 | 1 | W | Y | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |

Mapas de karnaugh:

T2

X2 X1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BLD BM | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 1 | 1 |
| 01 | 0 | 0 | 1 | 1 |
| 11 | 0 | 1 | 1 | 0 |
| 10 | 0 | 0 | 0 | 0 |

T2= BLD.X2 + BLD.BM.X1

T1

X2 X1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BLD BM | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 1 | 0 |
| 01 | 0 | 1 | 1 | 0 |
| 11 | 1 | 1 | 0 | 1 |
| 10 | 1 | 0 | 0 | 0 |

T1= BLD.X1 + BLD.BM.X2 + BLD.X1.X2 + BLD.BM.X1

R1

X2 X1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BLD BM | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 0 | 1 |
| 01 | 0 | 1 | 0 | 1 |
| 11 | 0 | 1 | 0 | 1 |
| 10 | 0 | 1 | 0 | 1 |

R1= X1 + X2

R2

X2 X1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BLD BM | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 1 |
| 01 | 0 | 0 | 0 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 10 | 0 | 0 | 0 | 1 |

R2=X2.X1

MV

X2 X1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BLD BM | 00 | 01 | 11 | 10 |
| 00 | 0 | 1 | 1 | 1 |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 0 | 1 | 1 | 1 |
| 10 | 0 | 1 | 1 | 1 |

MV= X2 + X1

BM

0

1

R2

R1

MV

0

1

1

0

0

1

0

1

1

0

0

1

BM

BM

BLD

BLD

BLD

BLD

11

10

01

W

Z

Y

X

00