**Berejnec Adrian-Daniel 1.1**

**Aplicatia 7 CD**

**Circuitul :**

Chart, box and whisker chart

Description automatically generated

Diagrame de timp:

A picture containing text, whiteboard

Description automatically generated

**Masuratorile pentru cei 2 timpi pentru toate combinatiile de rezistente:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RA1 = 1K | RB1 = 3K | RC1 = 0,6K | tdb = 15 ns | tbl = 175 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 14 ns | tbl = 177 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 13 ns | tbl = 180 ns | tdb scade,  tbl creste |
|  | RB2 = 6,3K | RC1 = 0,6K | tdb = 15 ns | tbl = 286 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 14,5 ns | tbl = 293 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 12,5 ns | tbl = 300 ns | tdb scade,  tbl creste |
|  | RB3 = 10K | RC1 = 0,6K | tdb = 14 ns | tbl = 438 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 13,8 ns | tbl = 440 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 12,5 ns | tbl = 445 ns | tdb scade,  tbl creste |
|  | RB4 = 20K | RC1 = 0,6K | tdb = 16 ns | tbl = 720 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 14 ns | tbl = 733 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 13 ns | tbl = 755 ns | tdb scade,  tbl creste |
| RA2 = 2K | RB1 = 3K | RC1 = 0,6K | tdb = 30 ns | tbl = 168 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 28 ns | tbl = 172 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 26 ns | tbl = 173 ns | tdb scade,  tbl creste |
|  | RB2 = 6,3K | RC1 = 0,6K | tdb = 29 ns | tbl = 260 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 27 ns | tbl = 277 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 24 ns | tbl = 290 ns | tdb scade,  tbl creste |
|  | RB3 = 10K | RC1 = 0,6K | tdb = 29 ns | tbl = 450 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 28 ns | tbl = 452 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 26 ns | tbl = 456 ns | tdb scade,  tbl creste |
|  | RB4 = 20K | RC1 = 0,6K | tdb = 29 ns | tbl = 808 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 27 ns | tbl = 832 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 26 ns | tbl = 835 ns | tdb scade,  tbl creste |
| RA3 = 5,33K | RB1 = 3K | RC1 = 0,6K | tdb = 115 ns | tbl = 127 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 100 ns | tbl = 147 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 89 ns | tbl = 163 ns | tdb scade,  tbl creste |
|  | RB2 = 6,3K | RC1 = 0,6K | tdb = 82 ns | tbl = 230 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 73 ns | tbl = 270 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 71 ns | tbl = 292 ns | tdb scade,  tbl creste |
|  | RB3 = 10K | RC1 = 0,6K | tdb = 85 ns | tbl = 462 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 74 ns | tbl = 476 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 67 ns | tbl = 483 ns | tdb scade,  tbl creste |
|  | RB4 = 20K | RC1 = 0,6K | tdb = 76 ns | tbl = 770 ns | tdb scade,  tbl creste |
|  | RC2 = 1K | tdb = 73 ns | tbl = 884 ns | tdb scade,  tbl creste |
|  | RC3 = 2K | tdb = 71 ns | tbl = 932 ns | tdb scade,  tbl creste |

Dupa aceste masuratori, putem spune ca timpul de blocare este mai mare decat timpul de deblocare. Timpul de blocare creste odata cu cresterea rezistentei, in timp ce timpul de deblocare scade pe masura ce rezistenta scade.