Digitális technika laboratórium (INBMM0210L)

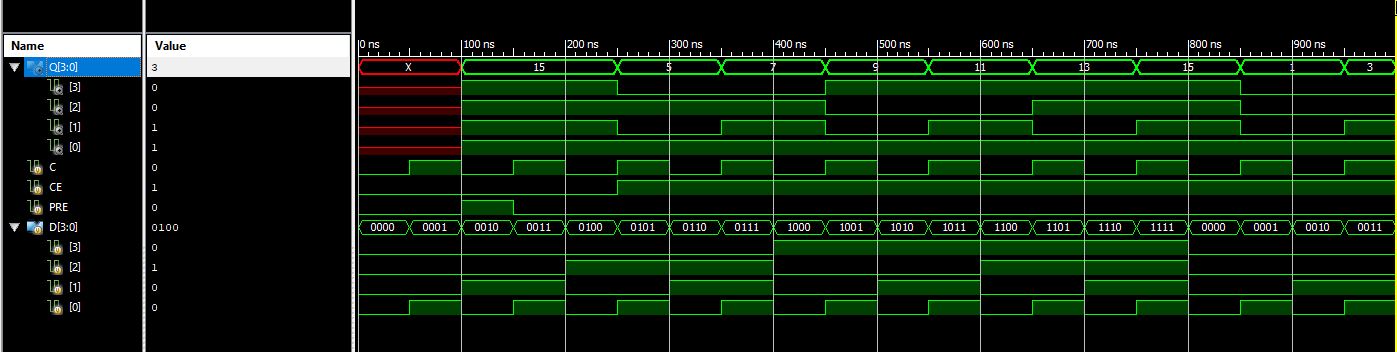
**Mérnők informatikus BSc képzés Digitális technika laboratórium INBMM0210L**

**Laboratórium 10. hét eredmények**

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| Laborkurzus kódja: | Dátum: |
| INBMM0210L-01 | 2019.05.02 |
| Hallgatók neve: | NEPTUN kódja: |
| Takács Tamás | CJRNIE |
|  |  |
| Mérésvezető neve: | Eredmény: |
| Dr. Oniga István |  |

# Lab10\_1 feladat:

* A feladat címe: **4 bites regiszter felfutó órajellel, aszinkron PRESET és órajel engedélyezővel**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.)



* Mérési tapasztalatok: **A 4 bites regiszter sikeresen elkészült, amit ebben az esetben felfutó órajellel működik. Ha az engedélyező bit magas szinten van, akkor az órajel felfutó élére eltárolja a bemeneti 4 bitet. A preset gombbal felülirhatjuk a regiszter értékét.**

# Lab10\_2 feladat:

* A feladat címe: **8 bites balra léptető regiszter**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.) **A bemeneti érték órajelre bekerült a regiszterbe, majd a megadott órajel segitségével láthatóan tolódott tovább. Itt 8 biten, azaz itt 8 leden figyelhetjük az eltolást.**
* Mérési tapasztalatok: **8 bites shift regiszter esetén azt érjük el, hogy a regiszter bitjeinek értékei, ebben az esetben felfutó élen, balra lépődnek eggyel. A tárolók kimenete a következő bemenete lesz. Kapcsolóval állitjuk a kezdeti bit értékét.**

# Lab10\_3 feladat:

* A feladat címe: **8 bites balra léptető regiszter, aszinkron párhuzamos töltéssel**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.) **Ebben az esetben ugyanúgy 8 biten dolgozunk, a bemeneti érték órajelre bekerül a regiszterbe, a többi eltólódik. Fontos megjegyezni hogy a a legutolsó megjelenik a shift kimeneten is. Ha betöltést engedélyezzük, akkor a regiszterben a betöltés értéke jelenik meg. Ez nem tolódik tovább egész addig amig az aload alacsony szintre kerül.**
* Mérési tapasztalatok:

# Lab10\_4feladat:

* A feladat címe: **8 bites két irányba léptető regiszter, soros be- és párhuzamos ki- menettel**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.)

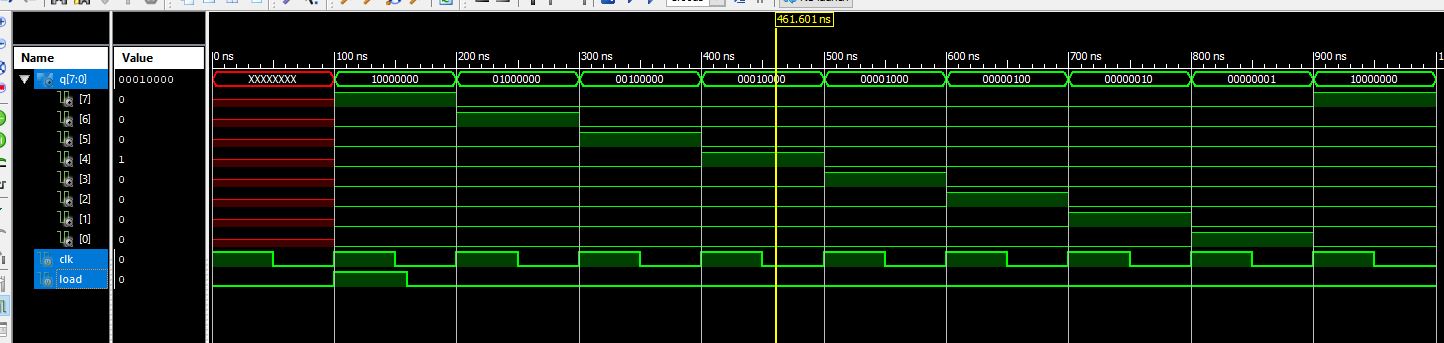
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| 1 | 1 | 01101010 | 10110101 |
| 0 | 0 | 11011111 | 10111110 |
| 1 | 0 | 11000011 | 01100001 |

**Táblázatból látszik, hogy ha az iránymeghatározó bit 0 értéket vesz fel, akkor balra tolódnak az értékek, ha pedig 1, akkor jobbra. A bemenet és kimenet viszonya hasonlit a második feladatban elkészitett regiszterrel.**

* Mérési tapasztalatok: **Nagyon hasonlit a kettes feladathoz, csak annyiban különbözik, hogy meghatározhatjuk a léptetés irányát. Tesztelni sajnos nem sikerült.**

# Lab10\_5 feladat:

* A feladat címe: **Gyűrűs számláló**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.)



* Mérési tapasztalatok: **Gyűrűs számláló esetén azt csináljuk, hogy egy előre meghatározott értéket egy load jelre betöltünk a regiszterbe. Ezek után az értéket toljuk balra, majd az utolsó bitet visszakötjük az első helyre. A load bitet vissza kell venni 0-ra betöltés után.**

# Lab10\_6 feladat:

* A feladat címe: **Johnson számláló**
* A feladat elkészült, működött? ***Igen Nem***
* Eredmények (táblázatok/szimulációk, stb.)

![A képen zene látható

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* Mérési tapasztalatok: **A Johnson számláló abban különbözik a Gyűrűs számlálótól, hogy a clr jelünk lenullázza a számálót, majd a számot eltolja balra, és az utolsó bit negáltját kötjük vissza az első értékre. Az elején clr-t kell engedélyezni, majd visszavenni.**