# 10.modul: megadott állapotokat bejáró léptetőrefiszterrel megvalósított sorrendi hálózat időbeli működésének vizsgálata

Kapcsolási rajz

A képen diagram, vázlat, Műszaki rajz, Tervrajz látható

Automatikusan generált leírás

1.Visszafejtés

Aszinkron törlés nincs:

SI bemenet függvénye

Párhuzamos betöltéskor a betöltött értékek:

(Soronként adott bemenet NDEK jelet 1-esnek többit 0-nak vesszük.)

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| --- | --- | --- | --- | --- |
|  | **D** | **C** | **B** | **A** |
|  | 0 | 0 | 0 | 0 |
|  | 0 | 1 | 1 | 0 |
|  | 1 | 0 | 0 | 1 |
|  | 1 | 0 | 1 | 1 |
|  | 0 | 1 | 0 | 1 |

Léptetés illetve párhuzamos betöltés:

* **Betöltés van -nél, 5 -nél, 8-nál, 10-nél, 11-nél**
* **Minden más esetben léptetés**

Párhuzamos beíró bemenetek függvényei:

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|  | **QD** | **QC** | **QB** | **QA** |  |  |  | **SI** | **D** | **C** | **B** | **A** |  |
| **RES** |  |  |  |  |  | 1 | **0** | **-** | 1 | 1 | 1 | 1 |  |
|  | 0 | 0 | 0 | 0 | **0** | 1 | **1** | **1** | 1 | 1 | 1 | 1 |  |
|  | 0 | 0 | 0 | 1 | **1** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
|  | 0 | 0 | 1 | 0 | **2** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
|  | 0 | 1 | 0 | 0 | **4** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
| **NDEK8** | 1 | 0 | 0 | 0 | **8** | 1 | **0** | **-** | **1** | **0** | **0** | **1** |  |
|  | 1 | 0 | 0 | 1 | **9** | 1 | **1** | **1** | 1 | 1 | 1 | 1 |  |
|  | 0 | 0 | 1 | 1 | **3** | 1 | **1** | **1** | 1 | 1 | 1 | 1 |  |
|  | 0 | 1 | 1 | 1 | **7** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
|  | 1 | 1 | 1 | 0 | **14** | 1 | **1** | **1** | 1 | 1 | 1 | 1 |  |
|  | 1 | 1 | 0 | 1 | **13** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
| **NDEK10** | 1 | 0 | 1 | 0 | **10** | 1 | **0** | **-** | **1** | **0** | **1** | **1** |  |
| **NDEK11** | 1 | 0 | 1 | 1 | **11** | 1 | **0** | **-** | **0** | **1** | **0** | **1** |  |
| **NDEK5** | 0 | 1 | 0 | 1 | **5** | 1 | **0** | **-** | **0** | **1** | **1** | **0** |  |
|  | 0 | 1 | 1 | 0 | **6** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
|  | 1 | 1 | 0 | 0 | **12** | 1 | **1** | **0** | 1 | 1 | 1 | 1 |  |
| **NDEK8** | 1 | 0 | 0 | 0 | **8** |  |  |  |  |  |  |  |  |

Bejárt állapotok:

* **RES → 0,1,2,4,8,9,3,7,14,13,10,11,5,6,12 és újra 8**

2.Idődiagram

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **CLK** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **RES** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **NCLEAR** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **NDEK5** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **NDEK8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **NDEK10** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **NDEK11** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **QD** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **QC** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **QB** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **QA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **SI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **D** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **C** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **B** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **A** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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