Bảng ngõ ra controller

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ER1** | **ER2** | **ER3** | **ER4** | **ER5** | **AU1[1]** | **AU1[0]** | **AU2[1]** | **AU2[0]** | **ET1** | **ET2** | **ET3** | **ET4** | **ET5** | **ET6** | **ET7** | **ET8** | **ET9** | **ET10** | **DONE** |
| **S0** | 1 | 1 | 0 | 0 | 0 | X | X | X | X | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **S1** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | X | X | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S2** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | X | X | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S3** | 0 | 1 | 0 | 0 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S4** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S5** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **S6** | 0 | 0 | 1 | 1 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **S7** | 1 | 1 | 0 | 0 | 0 | X | X | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| **S8** | 0 | 0 | 1 | 0 | 0 | 0 | 1 | X | X | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **S9** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **S10** | 0 | 1 | 1 | 0 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| **S11** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| **S12** | 0 | 0 | 1 | 0 | 1 | 1 | 1 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| **S13** | 0 | 0 | 1 | 1 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **ER1** | **ER2** | **ER3** | **ER4** | **ER5** | **AU1[1]** | **AU1[0]** | **AU2[1]** | **AU2[0]** | **ET1** | **ET2** | **ET3** | **ET4** | **ET5** | **ET6** | **ET7** | **ET8** | **ET9** | **ET10** | **DONE** |
| **0000** | **S0** | 1 | 1 | 0 | 0 | 0 | X | X | X | X | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| **0001** | **S1** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | X | X | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0010** | **S3** | 0 | 1 | 0 | 0 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0011** | **S2** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | X | X | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0100** | **S7** | 1 | 1 | 0 | 0 | 0 | X | X | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| **0101** | **S6** | 0 | 0 | 1 | 1 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **0110** | **S4** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0111** | **S5** | 0 | 0 | 0 | 0 | 1 | 1 | 1 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1000** |  | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 0 |
| **1001** |  | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 0 |
| **1010** | **S12** | 0 | 0 | 1 | 0 | 1 | 1 | 1 | X | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| **1011** | **S13** | 0 | 0 | 1 | 1 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **1100** | **S8** | 0 | 0 | 1 | 0 | 0 | 0 | 1 | X | X | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| **1101** | **S9** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **1110** | **S11** | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| **1111** | **S10** | 0 | 1 | 1 | 0 | 0 | X | X | X | X | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |