**CTMC Performance Indices**

To have this assignment evaluated for the in-class exam, please upload on WeBeep a ZIP file including:

* the source code used to solve this assignment
* this file, with the table below properly filled

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| --- | --- | --- |
| Name (Family + given) | | Siriani Mattia |
| Student ID (codice persona) | | 10571322 |
| QR-code ID (8 digits of the QR that was given you) | | 76344801 |
|  | CTMC drawing: | |
| Infinitesimal generator matrix: | |
| State reward vectors, and transition reward matrices:  Utilization state rewards ->  Power consumption state rewards ->  System throughput transition rewards ->  IO throughput transition rewards ->  GPU throughput transition rewards -> | |

|  |  |
| --- | --- |
|  | Figure with the evolution of the state probabilities as function of time. |
| Figure with the evolution of the rewards as function of time |
| Steady state probabilities, and limit rewards.  Idle steady state probability ->  CPU steady state probability ->  IO steady state probability ->  GPU steady state probability ->  Utilization steady state probability ->  Average power consumption steady state probability ->  System throughput steady state probability ->  IO throughput steady state probability ->  GPU throughput steady state probability -> |