

## Performance indices of a AI training CPU + GPU application

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

- the JMT model used to solve this assignment
- this file, with the table below properly filled

Name (Family + given)		Giovanni Demasi	
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QR-code ID (8 digits of the QR that was given you)		71847928	
<i>For N = 10 users</i>	CPU – 1 <sup>st</sup> pass	GPU	CPU – 2 <sup>nd</sup> pass
Utilization	0,5887	0,9820	0,3906
Average response time	22,7147 <i>seconds</i>	37,2188 <i>seconds</i>	21,6533 <i>seconds</i>
System Throughput	0,0978 <i>jobs/second</i>		
System Response Time	102,1933 <i>seconds</i>		

### Clarifications about measurements

The measurements regarding the system, take into consideration the whole system, delay included. This means that the reported system response time is the one computer using JSIM, which includes the think time.

The system response time without delay can be computed as  $102,1933 - \text{Think time} = 102,1933 - 20 = 82,1933 \text{ seconds}$ .