CAMPUS VIRTUAL	UPC / Les meves assignatures / 2021/22-01:FIB-270020-CUTotal / Unit 1: Why parallel computing?
/ Questions afte	r video lesson 1
Començat el	diumenge, 12 de setembre 2021, 16:39
	Acabat
Completat el	
	7 minuts 37 segons 5,00 sobre 5,00 (100%)
qualificatio	<b>9,00</b> 000.00 (1 <b>00</b> 70)
Pregunta <b>1</b>	
Correcte	
Puntuació 1,00 sobre 1,0	
	applications: App1 and App2. Assume that App1 and App2 execute N1=10 and N2=20 instructions, respectively, and e able to execute 1 instruction per time unit (F=1).
How long the sequ	uential execution of App1 would take if it is sent for execution on a single processor machine?
Trieu-ne una:	
5 time units	
<ul><li>10 time units</li></ul>	✓ Correct! N1=10 instructions at the rate of
9 10 time units	F=1 instructions per time unit
<ul><li>20 time units</li></ul>	
<ul><li>30 time units</li></ul>	
La teva resposta é	s correcta.
Pregunta <b>2</b>	
Correcte	
Puntuació 1,00 sobre 1,0	
How long the sequ	nential version of both applications App1 and App2 would it take if they are sent for execution (at the same time) on a machine?
Trieu-ne una:	
10 time units	
15 time units	
20 time units	
30 time units	✓ Correct! In total N1+N2 instructions at the rate of F=1 instruction per time unit.
La teva resposta é	s correcta.
Pregunta <b>3</b>	
Correcte	
Puntuació 1.00 sobre 1.0	

After how many time units the execution of the sequentia would be completed on a two processors machine?	I version for both applications App1 and App2 (submitted at the same time)
Trieu-ne una:	
<ul><li>10 time units</li></ul>	
15 time units	
20 time units	<ul> <li>Correct! Each application on a different processor, waiting for the termination of the longest one.</li> </ul>
30 time units	
La teva resposta és correcta.	
Pregunta <b>4</b>	
Correcte Puntuació 1,00 sobre 1,00	
How long would it take if we send for execution a parallel	(ideal) version of App2 on a 2 processors machine?
Trieu-ne una:	
2 time units	
○ 5 time units	
10 time units	<ul> <li>Correct! The total number of instructions (N2=20)</li> <li>will be ideally split between the two processors</li> </ul>
20 time units	
La teva resposta és correcta.  Pregunta 5  Correcte	
Puntuació 1,00 sobre 1,00	
	ential version of App1 and the parallel (ideal) version of App2 would be both applications are submitted at the same time and App2 can only make use
Trieu-ne una:  ② 2 time units	
○ 5 time units	
10 time units	Correct! App2 will use two processors, running at the same time than App1 on a single processor.
20 time units	
La teva resposta és correcta.	
✓ Video lesson 1	
Salta a	

Additional material 🗷