CAMPUS VIRTUAL	UPC / Les meves assignatures / 2021/22-01:FIB-270020-CUTotal / Unit 1: Why parallel computing?
/ Questions after	r video lesson 1
	divendres, 10 de setembre 2021, 15:20
	Acabat divendres, 10 de setembre 2021, 15:23
-	2 minuts 35 segons
	5,00 sobre 5,00 (100 %)
Pregunta 1	
Correcte	
Puntuació 1,00 sobre 1,00	
	applications: App1 and App2. Assume that App1 and App2 execute N1=10 and N2=20 instructions, respectively, and that to execute 1 instruction per time unit (F=1).
How long the sequ	ential execution of App1 would take if it is sent for execution on a single processor machine?
Trieu-ne una:	
5 time units	
10 time units	✓ Correct! N1=10 instructions at the rate of
	F=1 instructions per time unit
20 time units	
30 time units	
La teva resposta és Pregunta 2	correcta.
Correcte	
Puntuació 1,00 sobre 1,00	
How long the sequ single processor m	ential version of both applications App1 and App2 would it take if they are sent for execution (at the same time) on a achine?
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 és	correcta.
Pregunta 3	
Correcte	
Puntuació 1,00 sobre 1,00	

be completed on a two processors machi		
Trieu-ne una:		
10 time units		
15 time units		
20 time units	•	 Correct! Each application on a different processor, waiting for the termination of the longest one.
30 time units		waiting for the termination of the longest one.
La teva resposta és correcta.		
Pregunta 4		
Correcte Puntuació 1,00 sobre 1,00		
How long would it take if we send for exe	cution a parallel (ideal) version of App2 or	n a 2 processors machine?
Trieu-ne una:		
2 time units		
5 time units		
10 time units	~	Correct! The total number of instructions (N2=20) will be ideally split between the two processors
20 time units		will be ideally split between the two processors
La teva resposta és correcta.		
Pregunta 5		
Correcte		
Puntuació 1,00 sobre 1,00		
		the parallel (ideal) version of App2 would be completed same time and App2 can only make use of 2 processors.
Trieu-ne una:		
2 time units		
5 time units		
10 time units	✓	Correct! App2 will use two processors, running at the
20 time units		same time than App1 on a single processor.
La teva resposta és correcta.		
√ Video lesson 1		
Salta a		

Additional material -

After how many time units the execution of the sequential version for both applications App1 and App2 (submitted at the same time) would