	UPC / Les meves assignatures / 2021/22-01:FIB-270020-CUTotal / Unit 2.1: Understanding parallelism video lesson 2 (part 3)	ı l
Composet of	dijous, 16 de setembre 2021, 16:38	
	Acabat	
	dijous, 16 de setembre 2021, 16:39	
	1 minut 53 segons	
	3,00 sobre 3,00 (100%)	
•		
Pregunta 1		
Correcte		
Puntuació 1,00 sobre 1,0	0	
Assume we want to	o parallelize a loop with 100 iterations with no dependences among them. The finest possible granularity wo	ould imply:
Trieu-ne una:		
a. 1 task with	100 iterations per task	
○ b. 10 tasks w	ith 10 iterations per task	
		14/-II
© c. 100 tasks v	with 1 iteration per task	Well done!
		done:
Your answer is correct.		
La resposta correc	ta és: 100 tasks with 1 iteration per task	
Pregunta 2		
Correcte		
Puntuació 1,00 sobre 1,0		
1 411444010 1,00 30510 1,0		
Assume we want to imply:	o parallelize a loop with 100 iterations with no dependences among them. The coarsest possible granularity	would
.		
Trieu-ne una:		
a. 1 task with	100 iterations per task	Well
		done!
ob. 10 tasks w	ith 10 iterations per task	
o. 100 tasks	with 1 iteration per task	
Your answer is cor	rect.	
La resposta correc	ta és: 1 task with 100 iterations per task	
Pregunta 3		
Correcte		
Puntuació 1,00 sobre 1,0		

Given a task decomposition D_0 , a finer-grain decomposition D_1 would have more tasks, with less work per task. Therefore, D_1 exposes more potential parallelism than D_0 and this **always** implies that D_1 executes faster than D_0 . Note: assume that all tasks are totally

independent in both D_0 and D_1 .

Trieu-ne una:

○ Vertader

○ Fals ✓

Congratulations! The exploitation of parallelism implies some overheads which can outweigh the benefits of having more tasks when they are too fine-grained.

La resposta correcta és 'Fals'.

■ Video lesson 2 (part3)

Salta a...

Additional material >