COMPUTER ORGANISATION

Lab Session 14: System Calls (II)

IAME AND SURNAME						
Question 1. Stop the simulation while running <i>Usuario0.s</i> . (Before clicking on "Si" button look at "Execution paused by the user at $PC =$ ", and check if PC points to a user program instruction, that means an address of type " $0x0040nnnn$ ". If it points to an address of type " $0x8000nnnn$ " press "No" and try again).						
► What is the value of coprocessor Status (register \$12) that appear on the top simulator panel?						
► In what mode is the processor running? Are the interrupts enabled?						
► What is the value of the interrupt mask bits?						
► Indicate with what instructions on the <i>MiMoSv0.handler</i> starting code are the interrupts disabled for the keyboard, clock and console.						

► Indicate how the coprocessor state register is initialized.						
From now, several <i>MiMoS</i> versions will be succesively developed that will include new functions. A new version will be created always from the previous one, create a copy of the handler code file renamed with the new version number.						
Question 2. Write the code to handle the clock interrupt.						
int2:						
Question 3. Modify the starting code in such a way that the clock interrupt become enabled, both on the clock interface and on the coprocessor state register.						

Question 4. Write the code of function <i>get_time</i> .						
get_time:						
	User0.s can be executed correctly with handler MiMoSv.1? User1.s can be etly with handler MiMoS v.0? Explain your answer.					
Question 6.	Write the implemented code for wait_time.					
wait_time:						
Question 7.	Write the clock interrupt handling code added from label int2.					
int2:						

Que conte	<i>User2.s</i> just after	writing the ac	ctual time, wh	nat is the PC a	and Status re	gister
What proce	ing while you s	top execution	the handler,	the main pr	ocess or the	void