

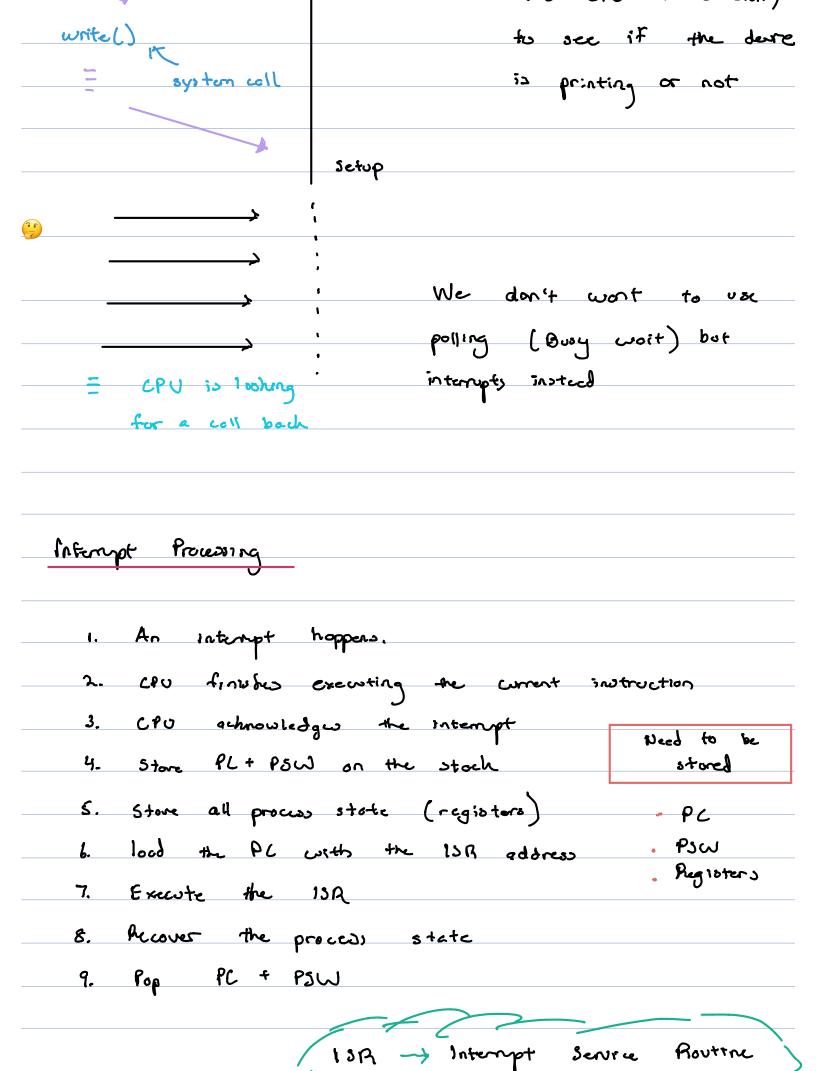
Operation
-
When booted a program in firmware executes
Initializes aspects of the system
· Locks the Os into money. · Os executes it's first process and water for
events to hoppen while loop (ombeded system
· init is the first process that executes
Events are usually signaled by an interrupt
Intempt: Mechanism in which uses software and
hordware may intempt the CPU
· Why?
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Keeping CPV as busy as possible
-Improva CPV utilization
- 1/0 devices are much slower than CPU
<u> </u>
CPU Printer

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Intempt Vector 1 13	13 Ro		Stock		
			Storage		
	:	* 60	'U only	loads	instructron
		. (RAT	1) from	memory	
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Interript Sevice Routine	ISA,				
Routine	13A ₂	* Memoru	is an	مدرحع	et works
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The instruction	execution	cycle			
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2. Opcode 12 exe	wted				
3. Awults may b	benote s	in memory			
		J			
or register)					
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2. Vals-	ti le				
Storege Hierarch	u				
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derries

Nemony	-2 Device drivers allow
SSD	the 6) to integrate
Megnetic Owh	such devices
Optice\	
Topes (Tepe Drives)	* Direct Memory Access (DMA)
	· Encode It in blacks then !
	send interpt when compilee
	· Transfer an entire block of
	deto before intempting the
	CPU