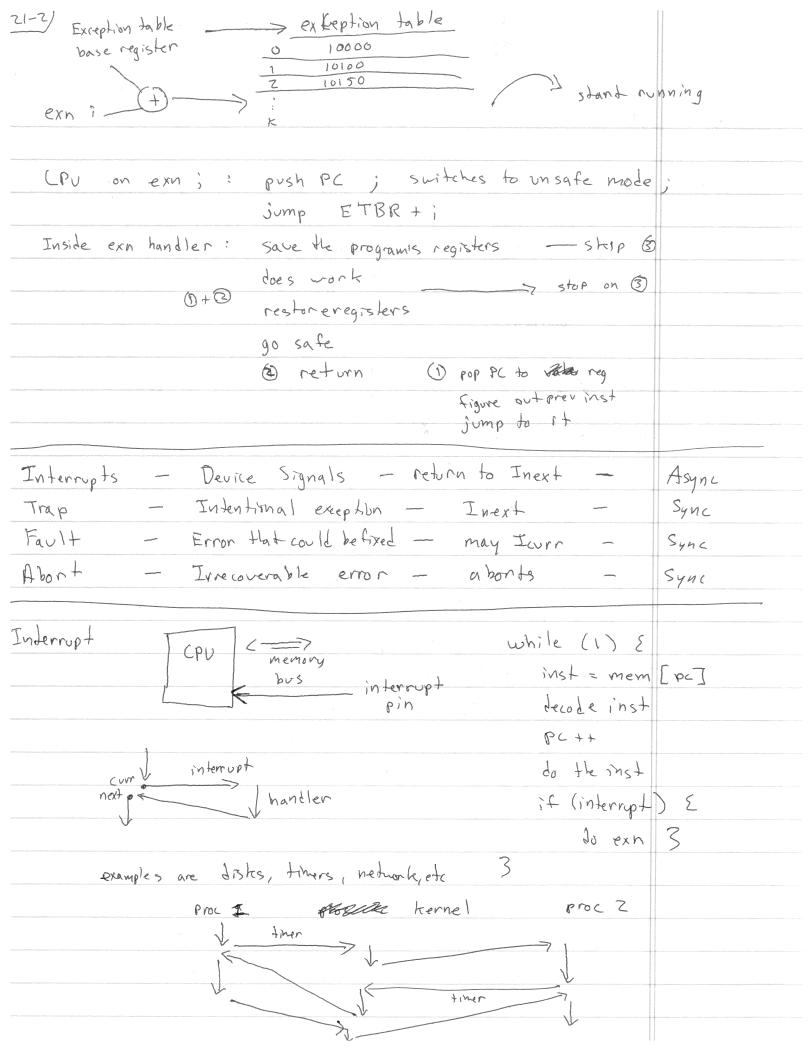
21-1/ 8000 8001 8002 8603 8004	movy % rax, \$13  PC > 8000 - 78002 - 78003  movy % rax, \$22  'program  addy % rax, % rbx  counter"  8000  PC dada is the control-flow
was proposed displaces and with the control of th	
8005	divy clorax, \$0 only influenced by the program text
	Exceptions - when the PC takes on values not in the
Biologica and a second contraction of the se	Program text
	, program
	Icur Exception Estand
	(a) exception handler
Icun+1 =	Inat (2) Eend
	9 bon 7
()	Estant is a known place and the exception is data
	> jump to addr 9000 % rax = what exception it was
@	Estant is a costomizable place and the exn is data
	jump to * % exn
	- protected by CPV exection "modes"
	two modes: safe and usafe
	can't hange been can change been
1	stay safe become safe
	start
	exn handler
6	Estant = customizable place (%exn) + exn no.
	% en = 9000 en = 17 en = 18
	jump 9017 jump 9018
	9017: jump 10000 908: jump 10100
an all and a second	



	Traps - intentional example by program
	a user program traps to run the OS/kernel
	a "system call"
	(communitate (re saure ma known place) the 0s request
	Strace Pid
	returns to Inext
	Taults
	Icom Return to Icurn
	page fault (movy clorax, 10000) and 10000 isn't
	in memory
	exn handler puts 10000 in memory (19k)
	Hen run instruction again
	abouts - di by &, tried to read memory and correspted
	exh 0 - divide by zero
	13 - general protection fault (segfault) fault
	14 - page fault
	18 - "check machine" fault abont
	32-127 - used by hardware 105
	129 (0x80) - System (911
	129-255 - Used by 08
	lest melude/sys/ syscall, h
	(: exit(0)
	asm: mova \$1, 0/0 pax = syscall number
	movy \$0, % & bx = rbx = exites argument
	movy \$0, % & >
	(545call)

Progth of data rsection, data string: a scil "hello world In" num0: 杨,in+ 73 · section . Lext main: mov \$4, rax mor 31, rbx mov \$string, ocx mov num 0 / rex in+ 1 x 80

write (1, "hello world In", 13);