ICS Homework Week 1

February 16, 2022

1 Exception

Please specify which kind of exception (Faults, Aborts, Traps, Interrupts) will occur in the given scenario, point out whether it is asynchronous or synchronous, and specify where the exception handler will return to.

A. Access content at address 0x0.

B. The memory of your PC corrupted.

C. You run a command "$kill - 9 < pid >$" in your shell.

D. You click your mouse.

2 Y86-64 Instructions

Please write down the byte codes of the following Y86-64 instructions.

Y86-64 instructions	Byte codes (hex value)
rrmovq %rbx, %rdx	
jmp 0xabc	
addq %rbx, %rax	
call 0x1234	
rmmovl %rcx, 0x12(%rbx)	
jle 0x280	
pushq %rax	