EE463 **Lab. #8**

Operating System Lab. King Abdulaziz University Faculty of Engineering - ECE

/ 10

Name: Abdullah Saleh Al-Zahrani Id: 1936535

Solution

Simulator: pagetrans.py

Command: python ./pagetrans.py -a 4k -p 2k -r 16k -s 106

Solution:

Virtual Address Trace

VA 0x00000f12 (decimal: 3858) →	RA or Invalid address? [VPN= 1]
VA 0x00000d22 (decimal: 3362) →	RA or Invalid address? [VPN=1]
VA 0x000000e8 (decimal: 232) →	RA or Invalid address? [VPN= 0]
VA 0x00000ce6 (decimal: 3302) →	RA or Invalid address? [VPN=1]
VA 0x00000cdf (decimal: 3295) →	RA or Invalid address? [VPN=1]

Simulator: pagetablesize.py

Command: ./pagetablesize.py -v 32 -e 1 -p 8k

Solution:

Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
32	19	13	1

Calculate (Linear Page Table Size) and write the results in the simplest readable form (e.g. byte, KB, MB, GB, and TB)

Linear Page Table Size = 524288 bytes