EE463
Operating System Lab.
King Abdulaziz University
Faculty of Engineering - ECE

Lab. #8

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Solution

Simulator: pagetrans.py
Command: python ./pagetrans.py -a 8k -p 2k -r 64k -s 109
Solution:
Virtual Address Trace

VA 0x00001201 (decimal: 4609) →	**RA 0x00001A01 [VPN= 2]**
VA 0x0000109A (decimal: 4250) →	**RA 0x0000189A [VPN= 2]**
VA 0x00001947 (decimal: 6471) →	**RA 0x0000F147 [VPN= 3]**
VA 0x00000E6E (decimal: 3694) →	**Invalid**
VA 0x000008CE (decimal: 2254) →	**Invalid**

Simulator: pagetablesize.py
Command: python ./pagetablesize.py -v 38 -e 2 -p 16k
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
32	**20**	**12**	**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 = 1MB