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

Lab. #8

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Name: Abdulqader Assaggaf **Id: 1935453**

Solution

Simulator: pagetrans.py
Command: `python ./pagetrans.py -a 16k -p 1k -r 256k -s 104`

Solution:
Virtual Address Trace

VA 0x00002463 (decimal: 9315)→	**RA 0x00019063 [VPN= 9]**
VA 0x0000066a (decimal: 1642)→	**RA 0x0000ea6a [VPN= 1]**
VA 0x00002641 (decimal: 9793)→	**RA 0x00019241 [VPN= 9]**
VA 0x00003350 (decimal: 13136)→	**Invalid**
VA 0x000034ff (decimal: 13567)→	**Invalid**

Simulator: pagetablesize.py
Command: **python ./pagetablesize.py -v 38 -e 4 -p 16k**
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
38	**24**	**14**	**4**

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 = 67,108,864 bytes