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

Lab. #8

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Name: Abdulrahman Bakhsh **Id: 1936878**

Solution

Simulator: pagetrans.py
Command: `python ./pagetrans.py -a 4k -p 512 -r 256k -s 104`
Solution:
Virtual Address Trace

VA `0x00000a53` (decimal: `2643`)→	RA 0x000079cb [VPN= 6]
VA `0x00000dcb` (decimal: `3531`)→	`Not Valid`
VA `0x0000094d` (decimal: `2381`)→	`Not Valid`
VA `0x00000642` (decimal: `1602`)→	RA 0x00033a42 [VPN= 3]
VA `0x00000528` (decimal: `1320`)→	`Not Valid`

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)
38	26	12	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 = 268,435,456 bytes → 262,144 KB → 256 MB