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 4k -p 1k -r 128k -s 107**
Solution:
Virtual Address Trace

VA 0x00000234 (decimal: 564) →	**Invalid**
VA 0x00000ffa (decimal: 4090) →	**Invalid**
VA 0x00000c11 (decimal: 3089) →	**Invalid**
VA 0x00000400 (decimal: 1024) →	**RA 0x0001f000 [VPN= 1]**
VA 0x00000982 (decimal: 2434) →	**RA 0x0000f582 [VPN= 2]**

Simulator: pagetablesize.py
Command: **python ./pagetablesize.py -v 38 -e 8 -p 2K**
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
38	**27**	**11**	**8**

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 = 256 MB