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 1k -r 64k -s 104
Solution:
Virtual Address Trace

VA 0x000014A7 (decimal: 5287) →	**Invalid [VPN= 05]**
VA 0x00001B97 (decimal: 7063) →	**RA 0x1F97 [VPN= 06]**
VA 0x0000129B (decimal: 4763) →	**Invalid [VPN= 04]**
VA 0x00000C84 (decimal: 3204) →	**RA 0xCC84 [VPN= 03]**
VA 0x00000A50 (decimal: 2640) →	**Invalid [VPN= 02]**

Simulator: pagetablesize.py
Command: python ./pagetablesize.py -v 32 -e 1 -p 2K
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
32	**21**	**11**	**0031**

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 KiB