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 16k -p 8k -r 128k -s 107
Solution:
Virtual Address Trace

VA 0x00002a19 (decimal: 10777) →	RA 0x0001ea19 [VPN= 1]
VA 0x00001ee1 (decimal: 7905) →	Invalid [VPN= 0]
VA 0x000013c6 (decimal: 5062) →	Invalid [VPN= 0]
VA 0x000008d1 (decimal: 2257) →	Invalid [VPN= 0]
VA 0x00003feb (decimal: 16363) →	RA 0x0001ffeb [VPN= 1]

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

VA (bits)	VPN (bits)	D (bits)	pte (byte)
38	24	14	16

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