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 1k –r 128k –s 103
Virtual Address Trace

VA 0x00002eec (decimal: 12012) →	**Invalid [VPN= 11]**
VA 0x00002e45 (decimal: 11845) →	**Invalid [VPN= 7]**
VA 0x00001a8f (decimal: 6799) →	**RA 0x0001be8f [VPN= 6]**
VA 0x00003250 (decimal: 12880) →	**Invalid [VPN= 12]**
VA 0x000024a3 (decimal: 9379) →	**Invalid [VPN= 9]**

Simulator: pagetablesize.py
Command: python ./pagetablesize.py -v 38 -e 1 -p 8k
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
38	**25**	**13**	**1**

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 = 32 MB (Mebibyte)