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 4k -r 256k -s 101
Solution:
Virtual Address Trace

VA 0x00000e30 (decimal: 3632)→	**RA** 0x00000CE30 **[VPN= 0]**
VA 0x00001277 (decimal: 4727) →	**RA** 0x00003b277 **[VPN= 1]**
VA 0x00002c50 (decimal: 11344)→	**Invalid**
VA 0x00000d97 (decimal: 3479)→	**RA** 0x0000cd97 **[VPN= 0]**
VA 0x00003e26 (decimal: 15910)→	**RA 0xde26 [VPN=3]**

Simulator: pagetablesize.py
Command: python ./pagetablesize.py -v 38 -e 2 -p 4k
Solution:
Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
38	**26**	**12**	**2**

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 = 128MB