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| EE463  Operating System Lab.  King Abdulaziz University  Faculty of Engineering - ECE |  | **Lab. #8**  **\_\_ / 10** |

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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 0x?????????? (decimal: ?????) → | **RA 0x????** or **Invalid**? **[VPN= ??]** |
| VA 0x?????????? (decimal: ?????) → | **RA 0x????** or **Invalid**? **[VPN= ??]** |
| VA 0x?????????? (decimal: ?????) → | **RA 0x????** or **Invalid**? **[VPN= ??]** |
| VA 0x?????????? (decimal: ?????) → | **RA 0x????** or **Invalid**? **[VPN= ??]** |
| VA 0x?????????? (decimal: ?????) → | **RA 0x????** or **Invalid**? **[VPN= ??]** |

**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)** |
| **??** | **??** | **??** | **??** |

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 = ?????**