

Id: 1946282

Simulator: pagetrans.py

Solution:

Virtual Address Trace

Simulator: pagetablesize.py

Solution:

Virtual Address (VA) = [vvvvvvvvvvvvvvvvvvvvvvv | 000000000000]

Calculate (Linear Page Table Size) and write the results in the simplest readable form (e.g. byte, KB, MB, GB, and TB)

Solution Steps:

- $2^{(\text{VPN bits})} = 2^{21} = 2,097,152$
- Size of every page = 8
- $8 * 2,097,152 = \mathbf{16,777,216 \text{ B}}$

Linear Page Table Size =

$$\text{KB} \Rightarrow \frac{16,777,216}{1024} = \mathbf{16384 \text{ KB}}$$

$$\text{MB} \Rightarrow \frac{16384}{1024} = \mathbf{16 \text{ MB}}$$