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Solution

Simulator: pagetrans.py

Command: python ./pagetrans.py -a 8k -p 4k -r 64k -s 105

Solution:

Virtual Address Trace

VA 0x000009fd (decimal: 2557 →	RA or Invalid address? [VPN= 0 valid]
VA 0x00001896 (decimal: 6294 →	RA or Invalid address? [VPN= 1 invalid]
VA 0x00000ab5 (decimal: 2741 →	RA or Invalid address? [VPN=0]
VA 0x0000053d (decimal: 1341 →	RA or Invalid address? [VPN= 0]
VA 0x00000b25 (decimal: 2853 →	RA or Invalid address? [VPN= 0]

Simulator: pagetablesizes.py

Command: python ./pagetablesizes.py -v 20 -e 2 -p 2K

Solution:

Virtual Address (VA) = [Virtual Page Number (VPN) | Offset (D)]

VA (bits)	VPN (bits)	D (bits)	pte (byte)
1048576	??	??	64000

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 = **64 x 2 = 128 Kb**