

Final Quiz Operating Systems II

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Common data questions - paging

Consider Page size: 4 KB, Virtual address: 32-bits, Physical address: 22-bits, Process memory size: 13465 bytes, Each page table entry is 32-bits (4 Bytes). Assume 1KB=1024 bytes. Answer the following questions for such a setup. Give a brief description of your calculations or justifications.

Space wasted due to external fragmentation when allocating memory to the process. 1 point

Your answer

Space wasted due to internal fragmentation when allocating memory to the process. 1 point

Your answer

Page-table size (number of mappings) when using a single level page table. 1 point

Your answer

Page-table size (number of mappings) when using an inverted page table. 2 points

Your answer



Total memory size (in bytes/KB/MB) used by page-tables with a single level page table, when there are 8 copies of the same process active in the system. 2 points

Your answer

Total memory size (in bytes/KB/MB) used by page-tables with a inverted page table setup, when there are 8 copies of the same process active in the system. 2 points

Your answer

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