

Ed Lazowska lazowska@cs.washington.edu Allen Center 570

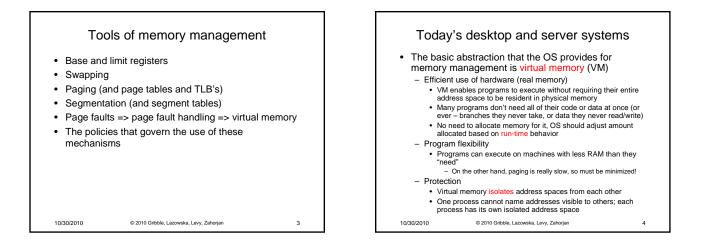
Goals of memory management

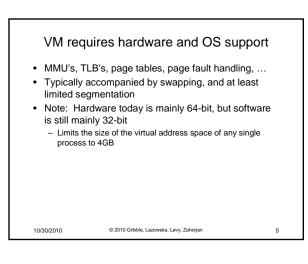
- Allocate memory resources among competing processes, maximizing memory utilization and system throughput
- Provide isolation between processes
 We have come to view "addressability" and "protection" as inextricably linked, even though they're really orthogonal
- Provide a convenient abstraction for programming (and for compilers, etc.)

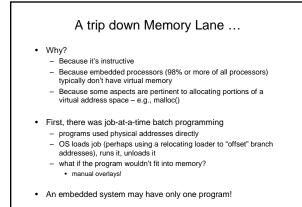
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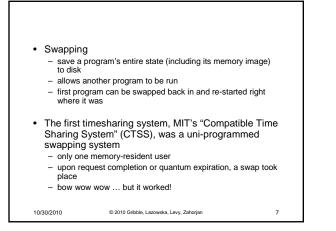


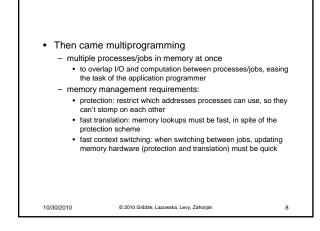


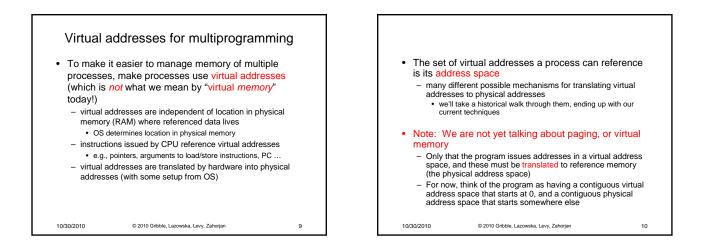


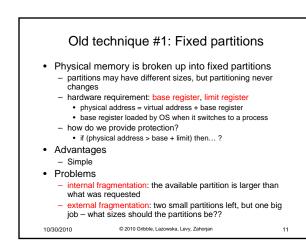
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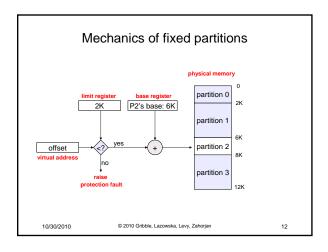
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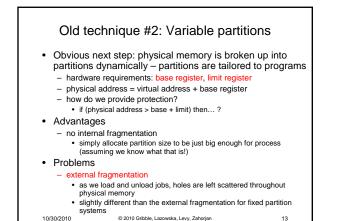


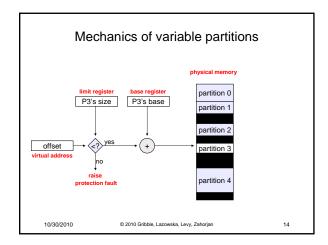


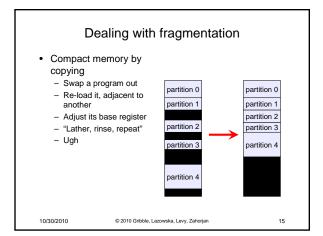


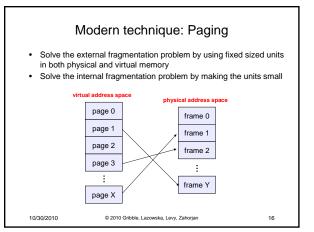


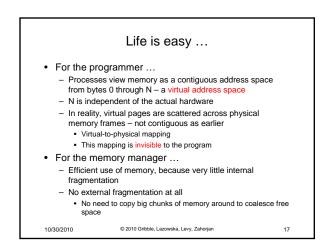


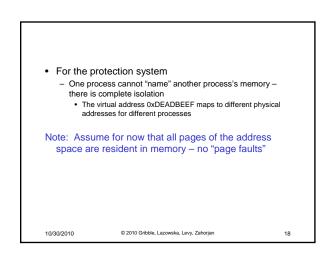


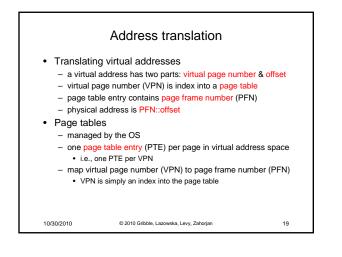


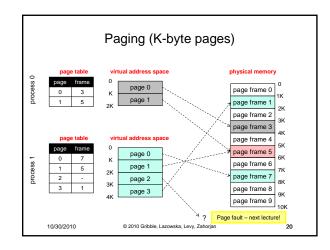


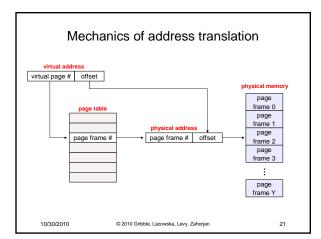


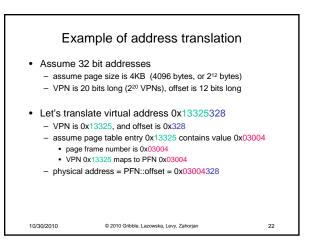


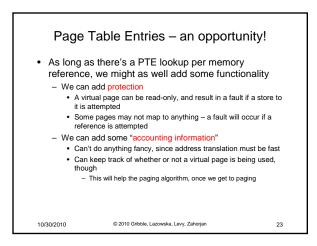


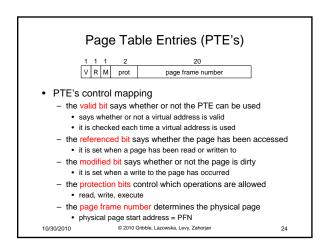


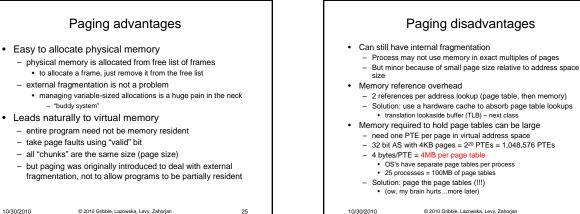


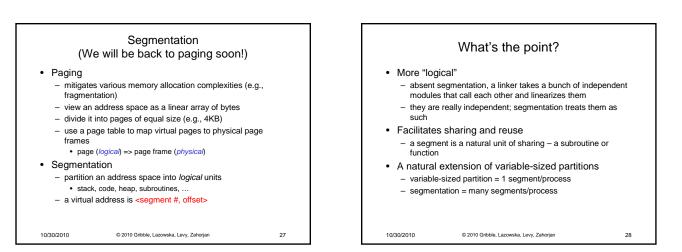


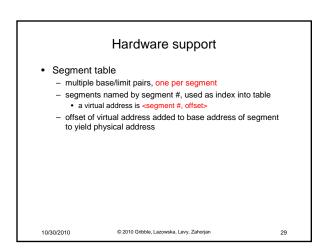




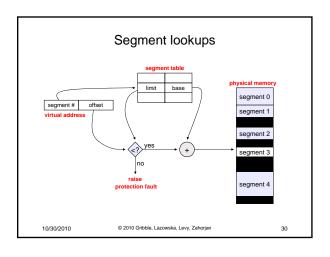




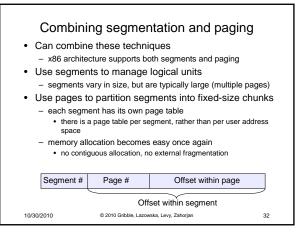




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Pros and cons 9. (e.g., i's "logical" and it facilitates sharing and reuse 6. (b.g., it has all the horror of a variable partition system 6. (b.g., it has all the horror of a variable partition system 7. (b.g., it has all the horror of a variable partition system 7. (b.g., ith has all the horror of a variable partition system 7. (b.g., ith has all the horror of a variable partition system 7. (b.g., ith has all the horror of a variable partition system 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the horror of a variable partition system) 7. (b.g., ith has all the hor



Linux:
1 kernel code segment, 1 kernel data segment.
1 user code segment, 1 user data segment.
all of these segments are paged
Note: this is a very limited/boring use of segments!