





















Virtual Memory Use Today - 1

- Desktops/servers have full demand-paged virtual memory
 - Portability between machines with different memory sizes
 - Protection between multiple users or multiple tasks
 - Share small physical memory among active tasks
 - Simplifies implementation of some OS features
- Vector supercomputers have translation and protection but not demand-paging
- (Older Crays: base&bound, Japanese & Cray X1/X2: pages)
 Don't waste expensive CPU time thrashing to disk (make jobs fit in memory)
 - Mostly run in batch mode (run set of jobs that fits in memory)
 - Difficult to implement restartable vector instructions

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