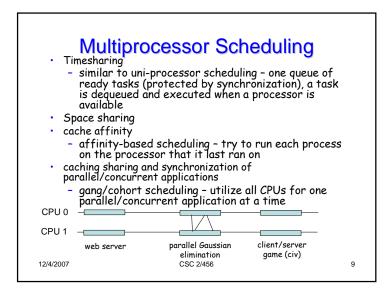
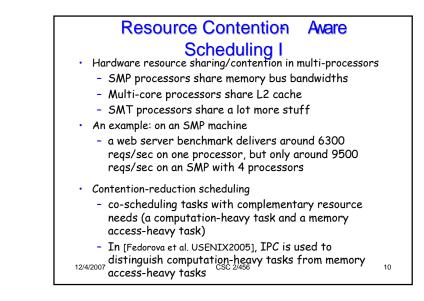
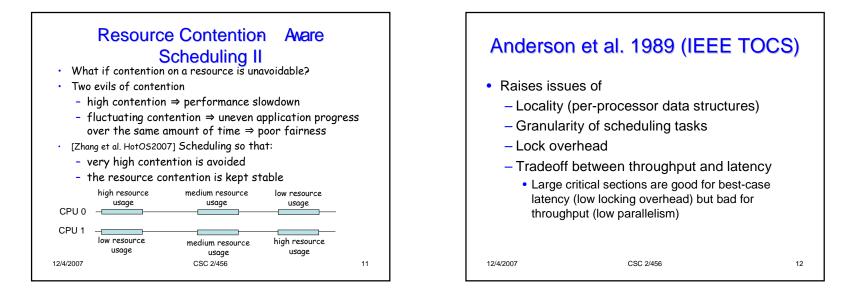
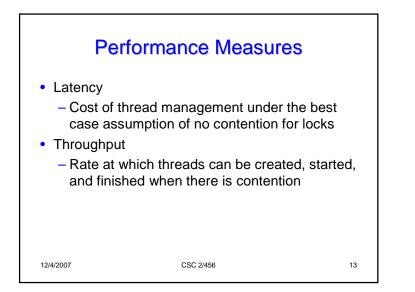


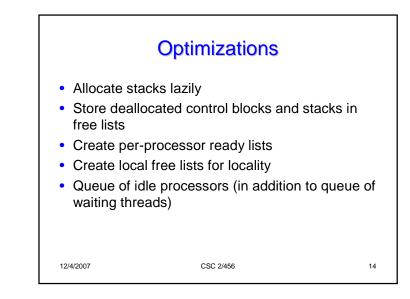
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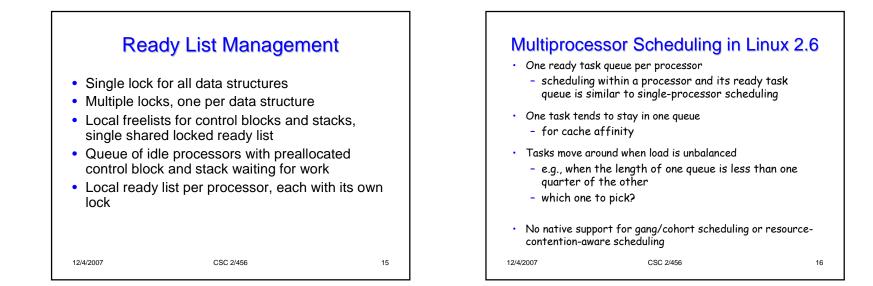


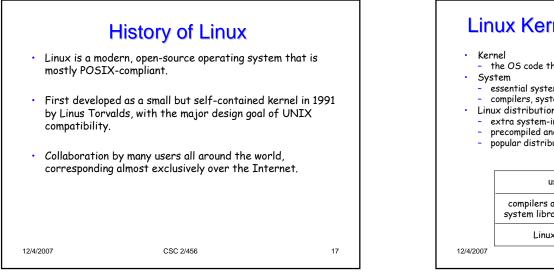


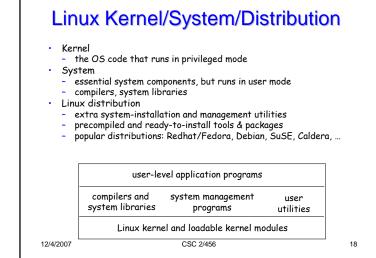


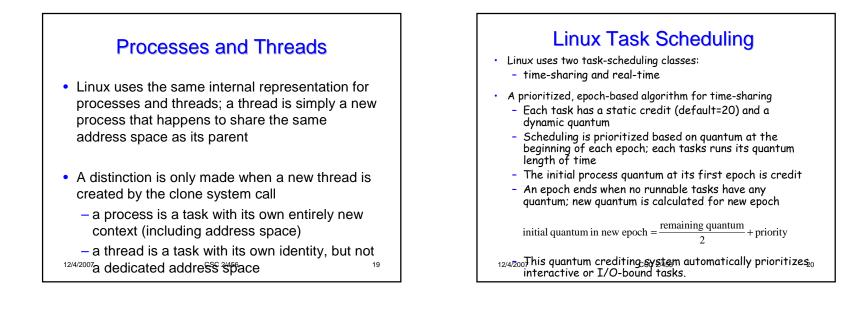


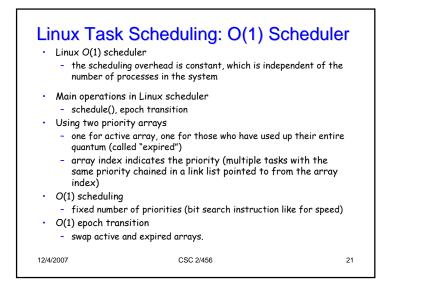


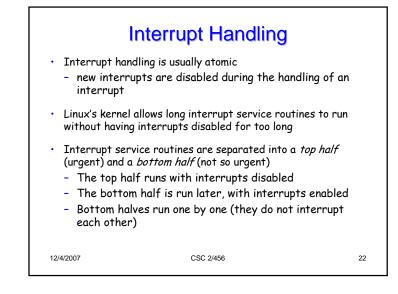


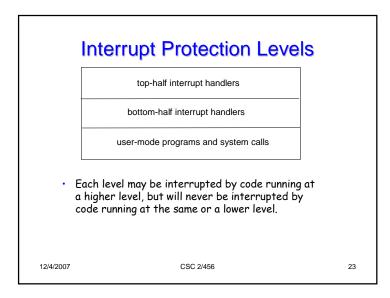


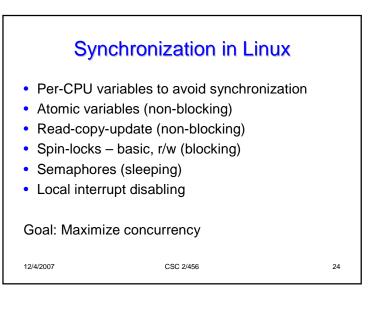




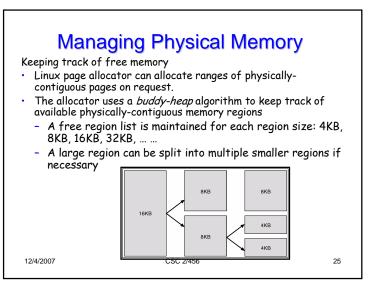








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Memory Page Replacement All memory pages are managed together - stack/heap/code, ... - file system buffer cache Memory pages are managed in two LRU lists: active list and inactive list - each LRU list is managed using a CLOCK (secondchance) LRU approximation

- pages evicted from the active list go to the inactive list; pages evicted from the inactive list are out of the system
- pages in the inactive list may be promoted to the active list under certain circumstances CSC 2/456

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Ext2fs File System Disks are divided into contiguous block groups - the hope is that there is not much seeking within each block group requests - there is a section for inodes in each block group - the FS tries to keep inodes and corresponding file blocks in the same block group • Ext2fs tries to place logically adjacent blocks of a file into physically adjacent blocks on disk - with the help of the free block bitmap Ext3fs supporting file system journaling 12/4/2007 CSC 2/456 27 12/4/2007

The Linux /proc File System The proc file system does not store data, rather, its contents are computed on demand according to user file I/O - When data is read from one of these files, proc collects the appropriate information, formats it into text form and places it into the requesting process's read buffer CSC 2/456 28

