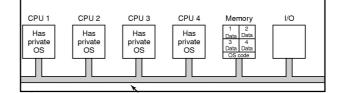


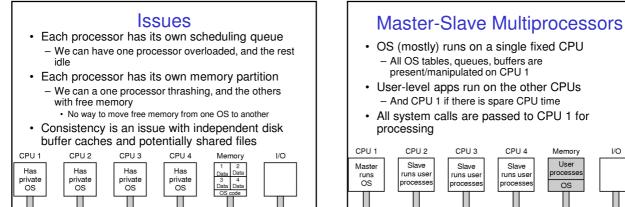
OS

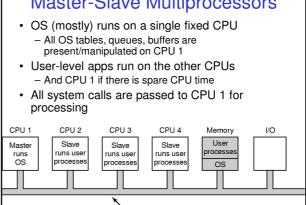
## Each CPU has its own OS

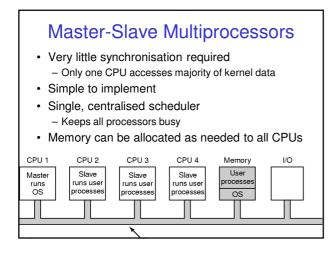
- · Used in early multiprocessor systems to 'get them going'
  - Simpler to implement

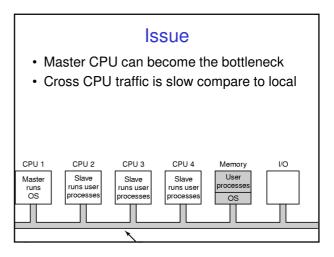
- Avoids concurrency issues by not sharing

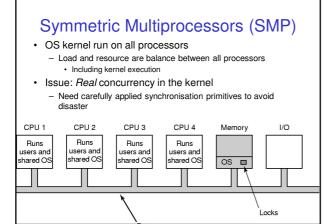


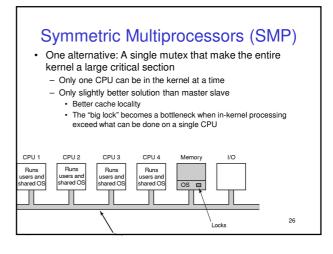


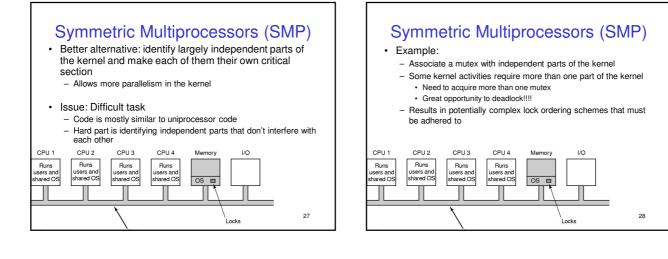


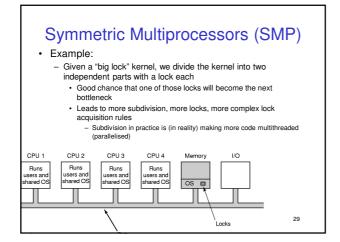


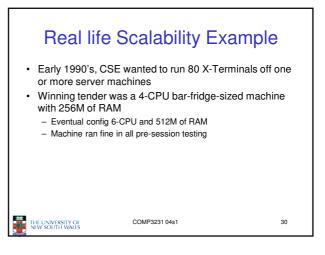


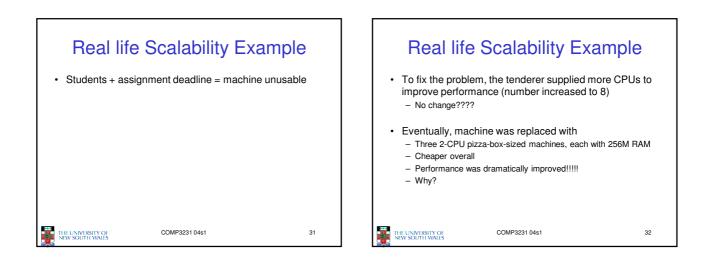


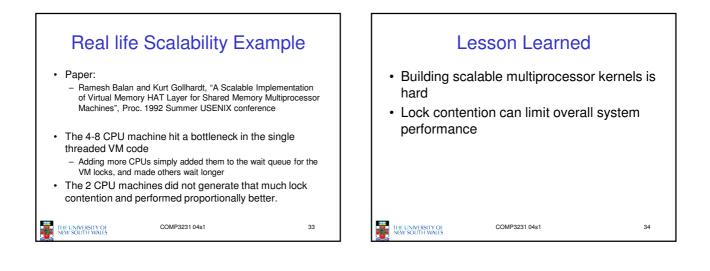


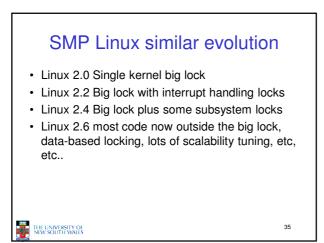


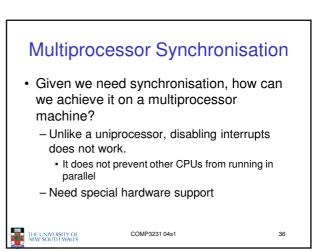


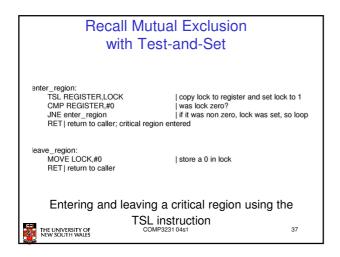


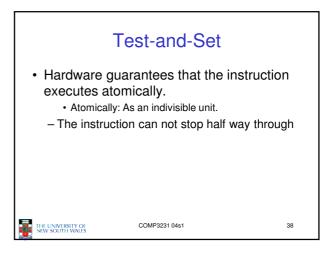


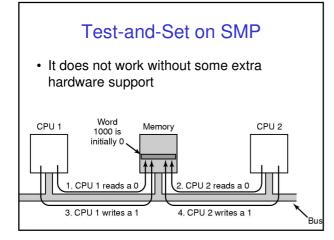




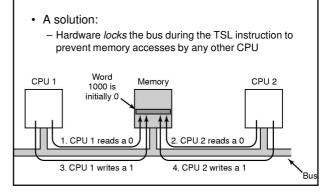


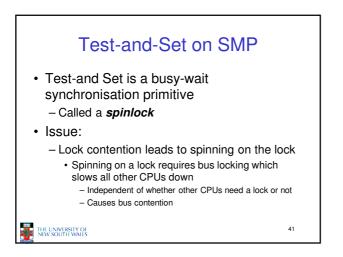


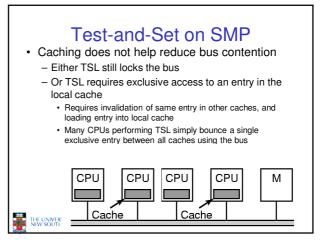


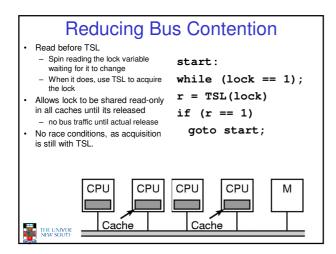


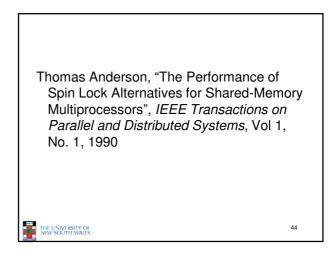
## Test-and-Set on SMP

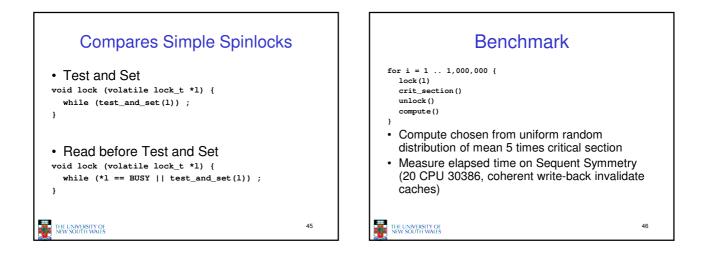


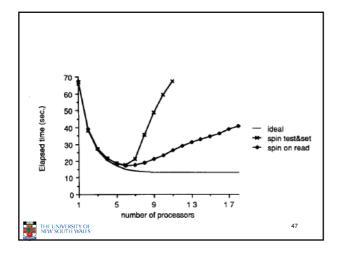


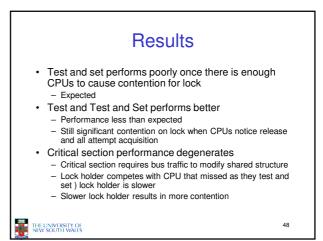






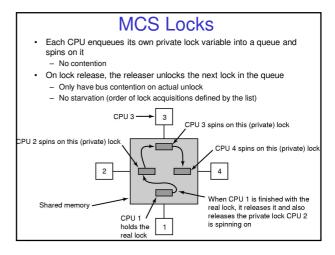


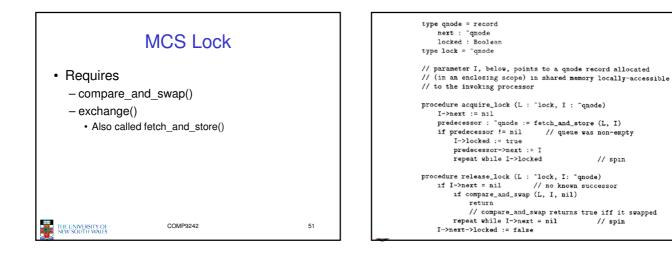




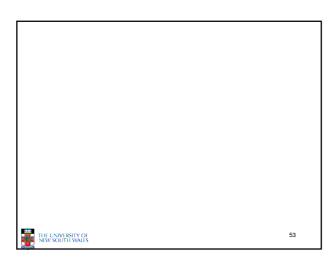
## · John Mellor-Crummey and Michael Scott, "Algorithms for Scalable Synchronisation on Shared-Memory Multiprocessors", ACM Transactions on Computer Systems, Vol. 9, No. 1, 1991

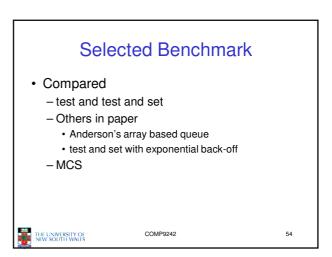
THE UNIVERSITY OF NEW SOUTH WALES





49





// spin

