

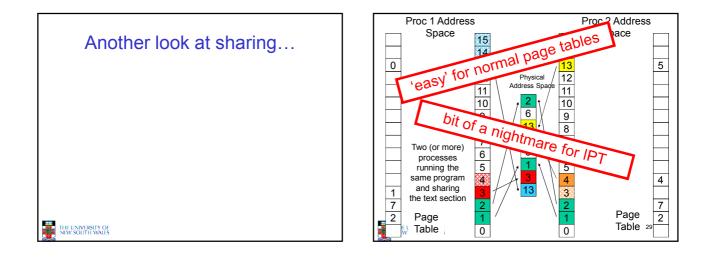
Given *n* processes

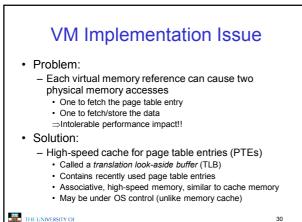
- how many page tables will the system have for
 - 'normal' page tables
 - inverted page tables?

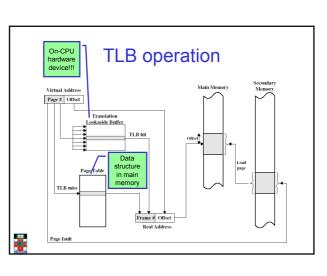
THE UNIVERSITY OF NEW SOUTH WALES

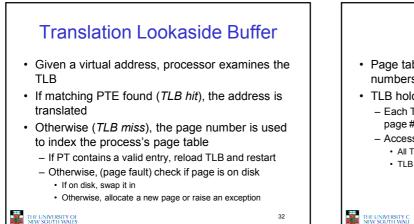
THE UNIVERSITY OF NEW SOUTH WALES

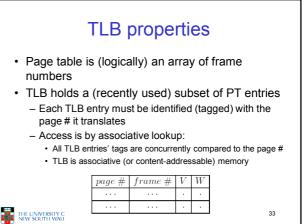
26

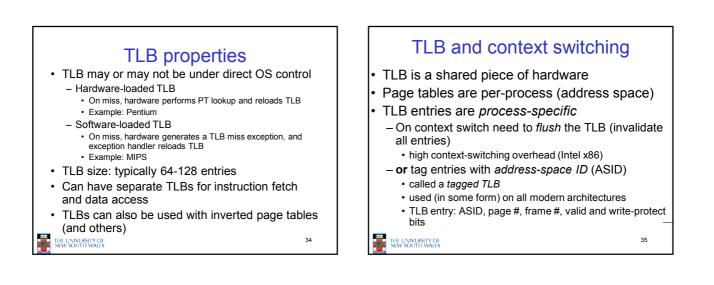


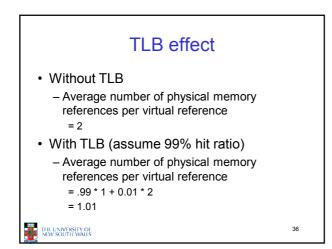


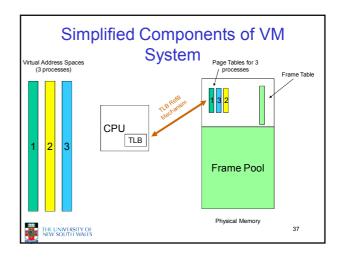




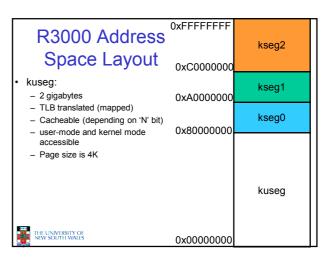








| MIPS R3000 TLB | | | | | | | | | |
|--|----|------|--|---|---|---|----|--|--|
| 31 | 12 | 11 | | | 6 | 5 | 0 | | |
| VPN EntryHi Register (TLB key fields) | | ASID | | | | 0 | | | |
| 31 | 12 | 11 | 10 | 9 | 8 | 7 | 0 | | |
| PFN | | Ν | D | V | G | 0 | | | |
| EntryLo Register (TLB data fields) N = Not cacheable D = Dirty = Write protect G = Global (ignore ASID in lookup) | | | V = valid bit 64 TLB entries Accessed via software through Cooprocessor 0 registers EntryHi and EntryLo | | | | | | |
| THE UNIVERSITY OF NEW SOUTH WALES | | | | | | | 38 | | |



| R3000 Space | kseg2 | | | |
|--|-----------------|------------|-----------------|--|
| Switching processes switches the translation | | 0xA0000000 | kseg1 | |
| (page table) for kuseg | | | kseg0 | |
| Proc 1 kuseg | Proc 2 kuseg | 0x0000000 | Proc 3 kuseg | |

