

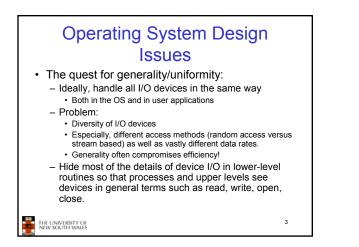


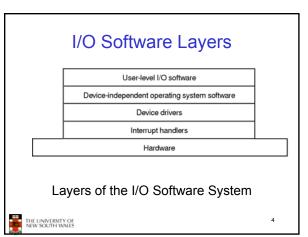
- Most I/O devices slow compared to main memory (and the CPU)
  - Use of multiprogramming allows for some processes to be waiting on I/O while another process executes
  - Often I/O still cannot keep up with processor speed
  - Swapping may used to bring in additional Ready processes
    More I/O operations

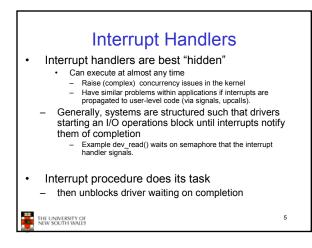
2

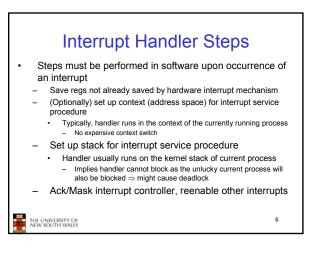
 Optimise I/O efficiency – especially Disk & Network I/O

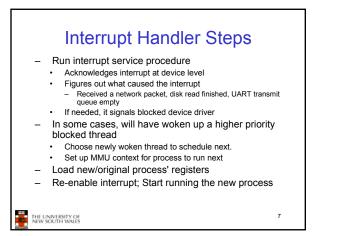
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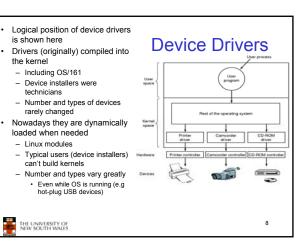


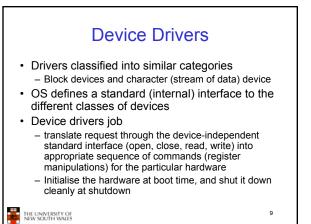


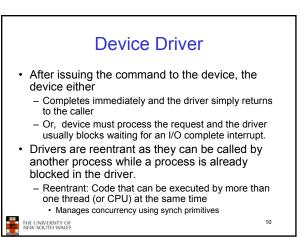












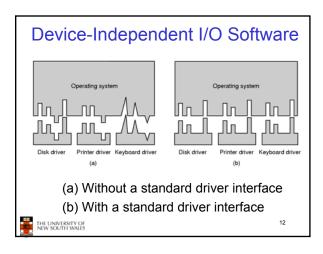
## Device-Independent I/O Software

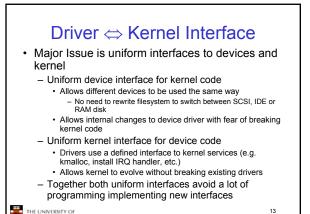
- There is commonality between drivers of similar classes
- Divide I/O software into device-dependent and device-independent I/O software
- · Device independent software includes
  - Buffer or Buffer-cache management
  - Managing access to dedicated devices

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Error reporting







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