

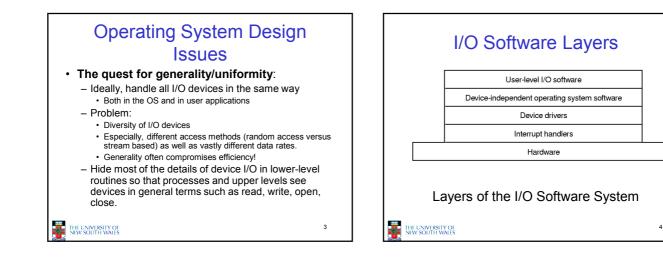


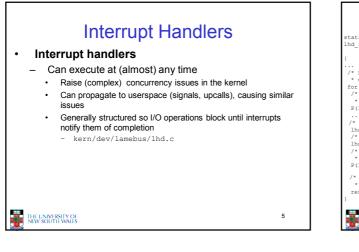
- Most I/O devices slow compared to main memory (and the CPU)
 - Use of multiprogramming allows for some processes to be waiting on I/O while another process executes
 - Often I/O still cannot keep up with processor speed
 - Swapping may used to bring in additional Ready processes
 More I/O operations

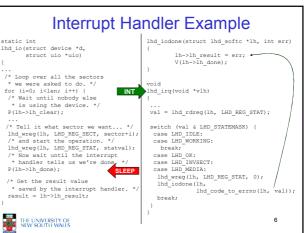
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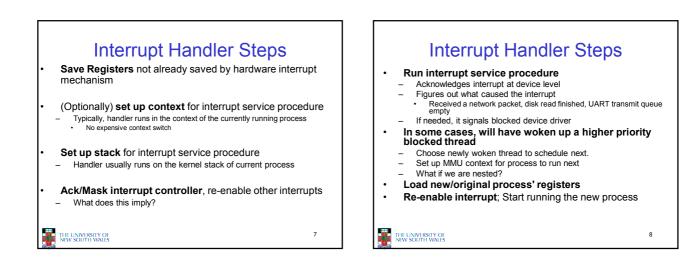
 Optimise I/O efficiency – especially Disk & Network I/O

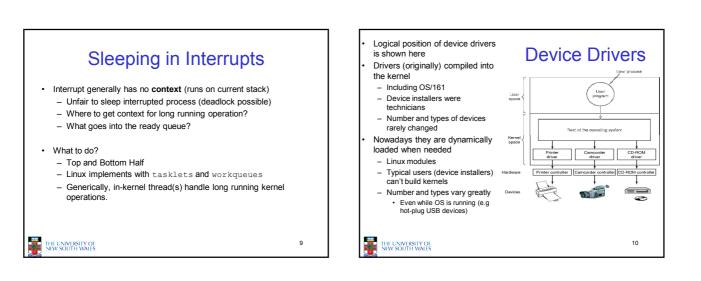
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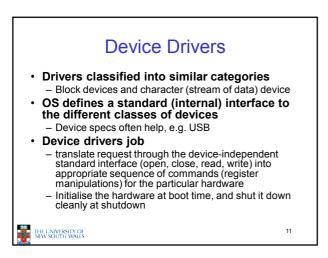


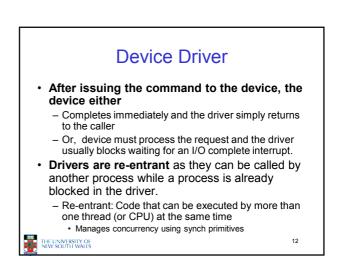










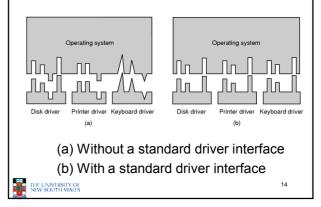


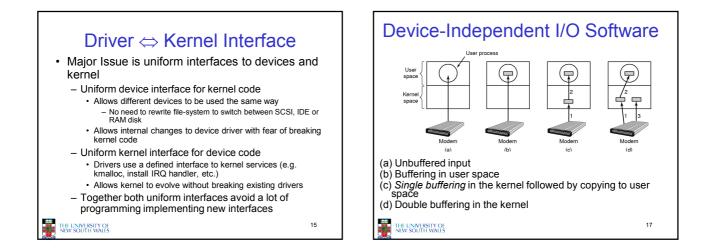
Device-Independent I/O Software

- · 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
 - Error reporting

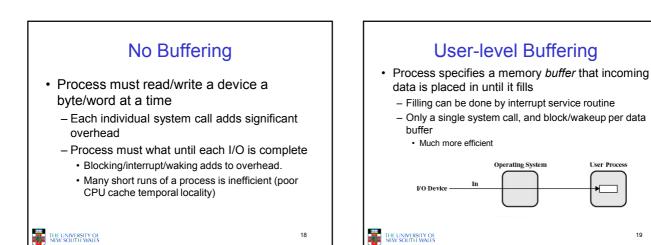
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Device-Independent I/O Software





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