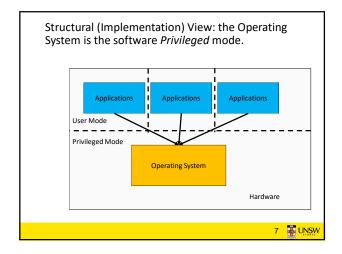


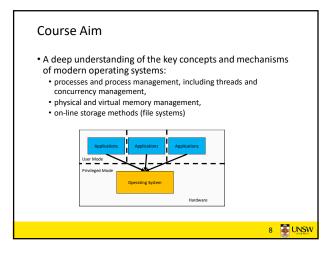
Role 2: The Operating System is a Resource Manager

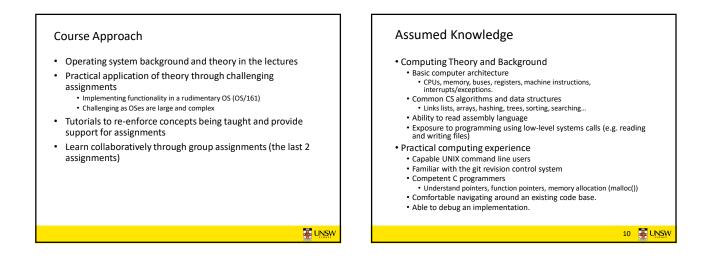
- Responsible for allocating resources to users and processes
- Must ensure
 - No Starvation
 - Progress

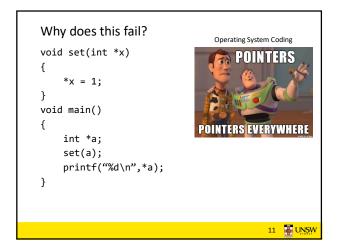
 - Allocation is according to some desired policy
 First-come, first-served; Fair share; Weighted fair share; limits (quotas), etc
 - Overall, that the system is efficiently used

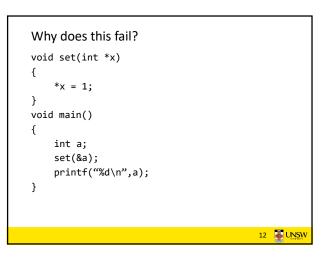
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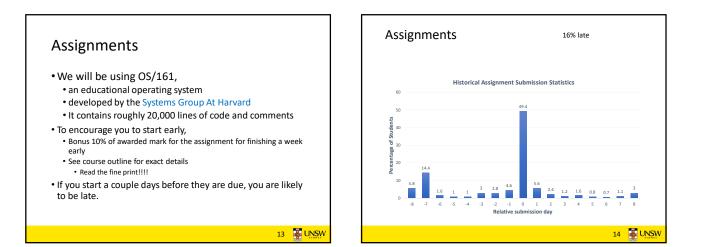


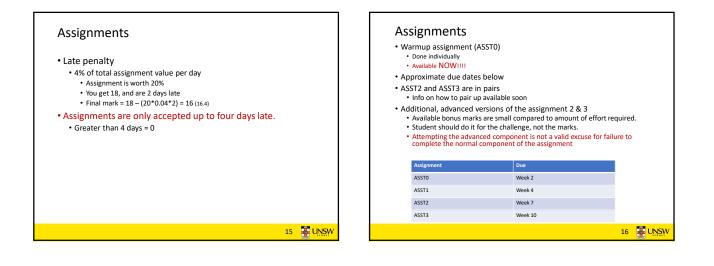


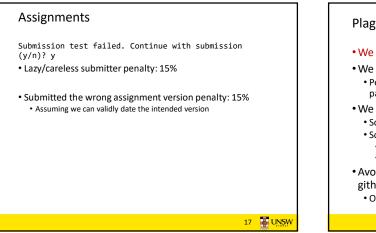












Plagiarism We take cheating seriously!!! We systematically check for plagiarised code Penalties are generally sufficient to make it difficult to pass We can google as easy as you can Some solutions are wrong Some solutions are wrong Some are greater scope than required at UNSW You do more than required Makes your assignment stick out as a potential plagiarism case Avoid developing your code in public bitbucket and github repositories!! Obtain a free academic account.

Exams

- There is NO mid-session
- The final written exam is 2 hours
- Supplementary exam are available according to UNSW & school policy, not as a second chance.
 Medical or other special consideration only

Piazza Forums • Forum for Q/A about assignments and course • Ask questions there for the benefit of everybody • Share your knowledge for the benefit of your peers • Look there before asking • Apps for phone • <u>https://piazza.com/</u> • Longer link on class web page • You will have received an invite from them to your UNSW email address. • Please join and contribute.

Consultations/Questions

- Questions should be directed to the forum.
- Admin and Personal queries can be directed to the class account cs3231@cse.unsw.edu.au
- We reserve the right to ignore email sent directly to us (including tutors) if it should have been directed to the forum.
- Consultation Times
- See course web site.
 - Must email (cs3231@cse) at least an hour in advance and show up on time.

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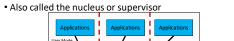
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Back to Operating Systems Chapter 1 – 1.3 Chapter 1.5 – 1.9

Learning Outcomes High-level understand what is an operating system and the role it plays A high-level understanding of the structure of operating systems, applications, and the relationship between them. .

Operating System Kernel

- Portion of the operating system that is running in *privileged* mode
- Usually resident (stays) in main memory
- Contains fundamental functionality
 - Whatever is required to implement other services
 Whatever is required to provide security
- Contains most from the security
- Contains most-frequently used functions



Hardware

Privileged Mod

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