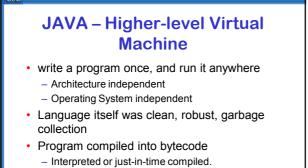


OS is an extended virtual machine

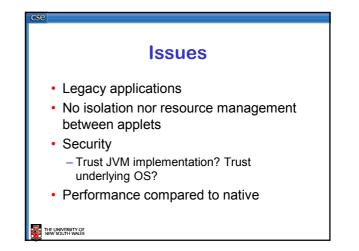
- Multiplexes the "machine" between applications
 - Time sharing, multitasking, batching
- Provided a higher-level machine for
 - Ease of use
 - Portability
 - Efficiency
 - Security
 Etc....
- EtC...

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- Lower than native performance

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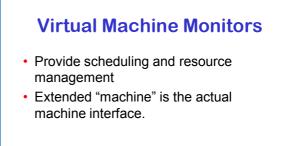
Is the OS the "right" level of extended machine?

Security

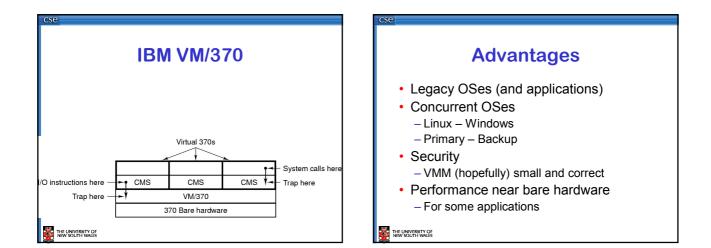
- Trust the underlying OS?

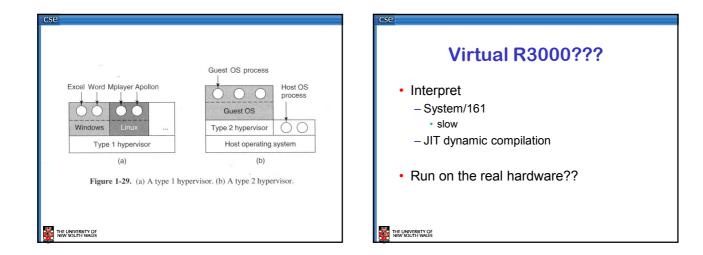
- Legacy application and OSs
- Resource management of existing systems suitable for all applications?
- What about activities requiring "root"
 privileges

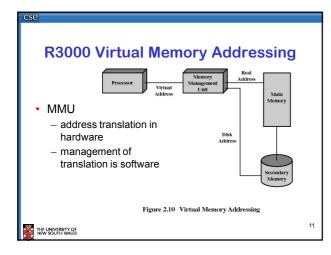
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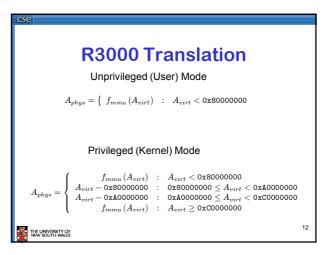


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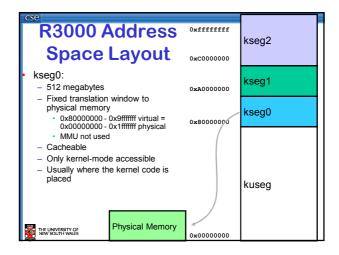


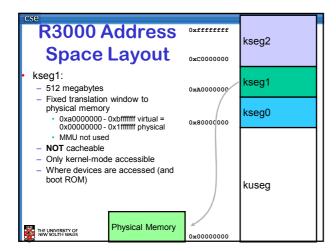






R3000 Address Space Layout	0xFFFFFFFF	kseg2
 kuseg: 2 gigabytes MMU translated Cacheable user-mode and kernel mode 	0xA0000000	kseg1
	0x80000000	kseg0
accessible		kuseg
	0x00000000	





R3000 Address Space Layout	0×ffffffff	kseg2
 kseg2: 1024 mogobytos 	0xA000000	kseg1
 – 1024 megabytes – MMU translated 	0x80000000	kseg0
 Cacheable Only kernel-mode accessible 		
		kuseg
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