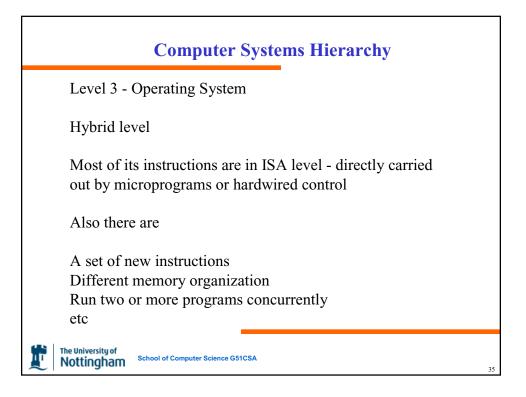
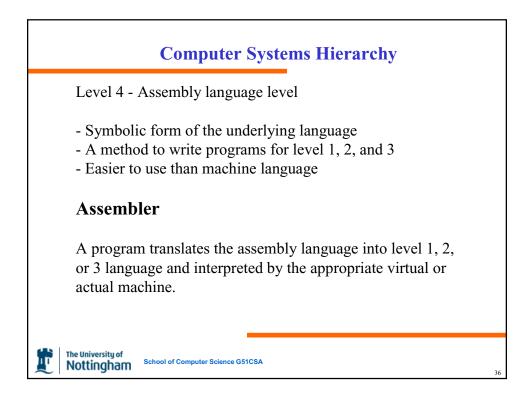
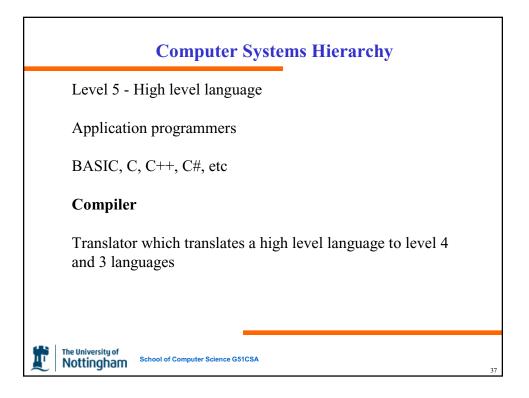
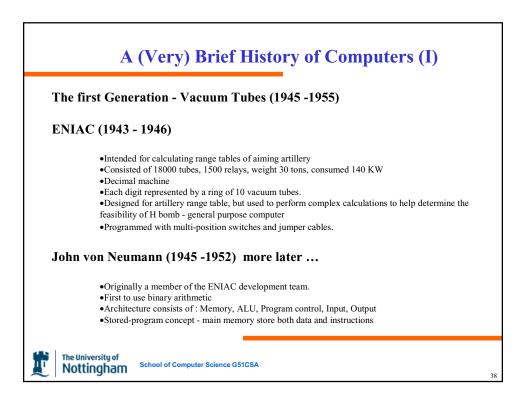


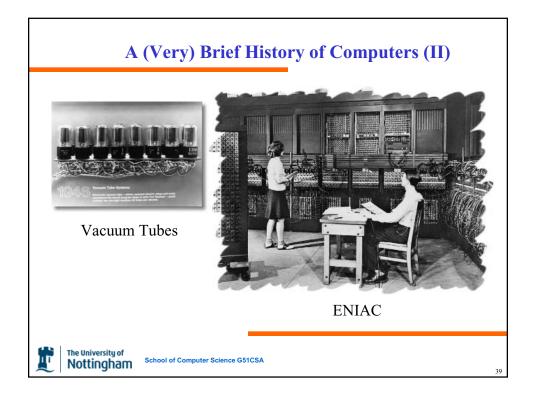
Leve	el 2	I	nstr	uct	ion S	Set Arc	hitectu	ıre		1	
	28-24	Virtual 8086 Mode Exceptions None.	Real Address Mode Exceptions None.	Protected Mode Exceptions None:	Flags Affected The SF, ZF, and PF flags are set according to the result; the OF, AF, and CF flags are undefined.	Description Execute the AVM interaction only after executing a MUL astruction between two unpedded BCO digits that leaves the result in the AX register. Because the result is less than 100, it is contained earliefy in the AL register. The AAM instructions unpedden the AL result by dividing AL by the second byte of the report, leaving the quotient (most-significant digit) in the AH register and the remainder (heast-significant digit) in the AL register.	NOTE: imm8 has the value of the interaction second byte. The second byte under notating, secondary of this interactions will be 0.4. As neverse, explicit notating, which is the second in the operation described above and may after results.	Operation mybL - Aci NH - rungki tumok AL nybL MCD innok	AAM—ASCII Adjust AX after Multiply Oneon Internation Credit Description CH-00 ANN 11 ANN 12 Add AV BILL TABLE		

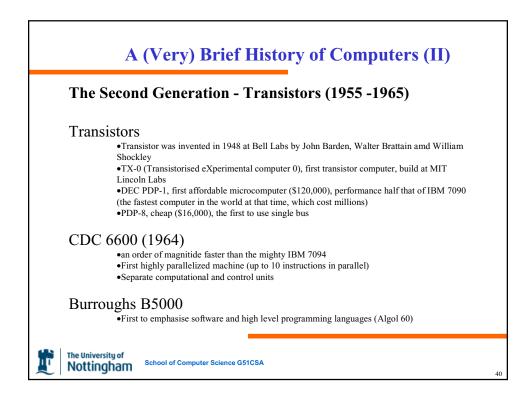


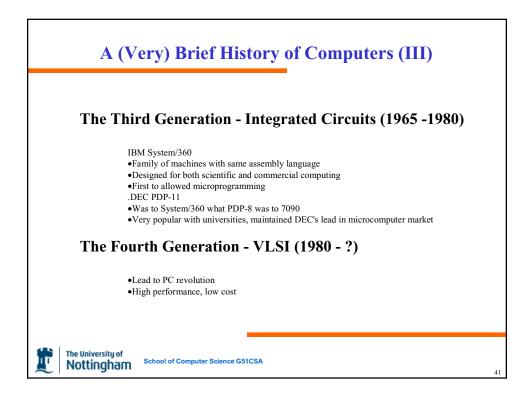












1970s Proc	essors	8008	8080	8086	8088
Introduced		4/1/72	4/1/74	6/8/78	6/1/79
Clock Speeds	108KHz	200KHz	2MHz	5MHz, 8MHz, 10MHz	5MHz, 8MHz
Bus Width	<mark>4 bits</mark>	8 bits	8 bits	16 bits	8 bits
Number of Transistor s	2,300 (10 microns)	3,500 (10 microns)	6,000 (6 microns)	29,000 (3 microns)	29,000 (3 microns)
Addressab le Memory	640 bytes	16 KBytes	64 KBytes	1 MB	1 MB
Virtual Memory					
Brief Descriptio n	First microcomputer chip, Arithmetic manipulation	Data/character manipulation	10X the performance of the 8008	10X the performance of the 8080	Identical to 8086 excep for its 8-bit external bus

1980s Processors						
	80286	Intel386 [™] DX Microprocessor	Intel386 [™] SX Microprocessor	Intel486 [™] DX CPU Microproce ssor		
Introduced	2/1/82	10/17/85	6/16/88	4/10/89		
Clock Speeds	6MHz, 8MHz, 10MHz, 12.5MHz	16MHz, 20MHz, 25MHz, 33MHz	16MHz, 20MHz, 25MHz, 33MHz	25MHz, 33MHz, 50MHz		
Bus Width	16 bits	32 bits	16 bits	32 bits		
Number of Transistor s	134,000 (1.5 microns)	275,000 (1 micron)	275,000 (1 micron)	1.2 million (1 micron) (.8 micron with 50MHz)		
Addressab le Memory	16 megabytes	4 gigabytes	16 megabytes	4 gigabytes		
Virtual Memory	1 gigabyte	64 terabytes	64 terabytes	64 terabytes		
Brief Descriptio n	3-6X the performance of the 8086	First X86 chip to handle 32- bit data sets	16-bit address bus enabled low- cost 32-bit processing	Level 1 cache on chip		

1990s Proce	ssors Intel486™ SX Pentium® Pro Pentium® II				
	Microprocessor	Pentium® Processor	Processor	Processor	
Introduced	4/22/91	3/22/93	11/01/95	5/07/97	
Clock Speeds	16MHz, 20MHz, 25MHz, 33MHz	60MHz,66MHz	150MHz, 166MHz, 180MHz, 200MHz	200MHz, 233MHz, 266MHz, 300MHz	
Bus Width	32 bits	64 bits	64 bits	64 bits	
Number of Transistors	1.185 million (1 micron)	3.1 million (.8 micron)	5.5 million (0.35 micron)	7.5 million (0.35 micron)	
Addressable Memory	4 gigabytes	4 gigabytes	64 gigabytes	64 gigabytes	
Virtual Memory	64 terabytes	64 terabytes	64 terabytes	64 terabytes	
Brief Description	Identical in design to Intel486 TM DX but without math coprocessor	Superscalar architecture brought 5X the performance of the 33-MHz Intel486 TM DX processor	Dynamic execution architecture drives high-performing processor	Dual independent bus, dynamic execution, Intel MMX TM technology	

