

Department of Computer Science & Engineering Microprocessor & Computer Architecture UNIT 1 Notes

Introduction and Motivation. How Program Execute? Relation between Processor, Operating System, Compiler and Memory. 1. 1.1 Interrupts, Context Switching an overview. 1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 1.6 Text Book T2 Section 5.1	
How Program Execute? Relation between Processor, Operating System, Compiler and Memory. 1. 1.1 Interrupts, Context Switching an overview. 1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 1.6 Text Book T2 Section 5.1	
between Processor, Operating System, Compiler and Memory. 1. 1.1 Interrupts, Context Switching an overview. 1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 1.6 Text Book T2 Section 5.1	
System, Compiler and Memory. 1. 1.1 Interrupts, Context Switching an overview. 1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 1.6 Text Book T2 Section 5.1	
1. 1.1 Interrupts, Context Switching an overview. 1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 1.6 Text Book T2 Section 5.1	
1.2 Classification CISC Vs RISC and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 5.1	
and Introduction to ARM Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 5.1	
Processor 2. ARM Processor: Register set, Introduction to ARM ISA and Instruction Layout Text Book T2 Section 5.1	
Introduction to ARM ISA and Instruction Layout	
Instruction Layout	
3. Data Processing Instructions: Text Book T3 Chapter 3 Section 3.1 Pag	ges 50-57
Addition and Subtraction with	
programming Examples 4. Data Processing Instruction Text Book T3 Chapter 3 Section 3.1.3. S	Section 2.1.5
4. Data Processing Instruction Variants. Text Book T3 Chapter 3 Section 3.1.3, Section 3.1.6	section 3.1.3,
5. Data Transfer Instructions: Load Text Book T3 Chapter 3 Section 3.3,3.3.2	2
and Store with programming	2
examples	
6. Data Transfer instruction and Text Book T3 Chapter 3 Section 3.3.3	
STACK operations	
7. Branch Instructions Text Book T3 Chapter 3 Section 3.2 Pag	ges 58-59
8. Multiplication Instructions and Text Book T3 Section 3.1.7	
Instruction Encoding	
9. Interrupts and Programming Text Book T2 Section 5.6	
Examples 10. Instruction Encoding 1: Data Text Book T3 Appendix B.1,	
Processing Instruction	
11. Instruction Encoding 2: Data Transfer Instruction Text Book T2 all instructions Chapter 5.	.1 to 5.13
12. Instruction Encoding 3: Branch	
and other Instructions Text Book T2 all instructions Chapter 5.	.1 to 5.13

Literature:

Electricated C.							
Book	Code	Title & Author	Publication Info				
Туре			Edition	Publisher	Year		
Text Book	T1	Hennessy Patterson	Fifth Edition	MK Morgan Kaufmann	2012		
Text Book	T2	ARM System on Chip, Steve Furber	Second Edition,	Pearson Education	2000		
Text Book	Т3	ARM System Developer's Guide	Reprint 2009	Elsevier	2009		