

MODULE 5

Data Processing Instructions

- The data processing instructions manipulate data within registers. They are move instructions, arithmetic instructions, logical instructions, compare instructions and multiply instructions.
- Most data processing instructions can process one of their operands using the barrel shifter.
- If S is suffixed on a data processing instruction, then it updates the flags in the cpsr.

MOVE INSTRUCTIONS:

- It copies N into a destination register Rd, where N is a register or immediate value. This instruction is useful for setting initial values and transferring data between registers.

Syntax: <instruction> {<cond>} {S} Rd, N

MOV	Move a 32-bit value into a register	$Rd = N$
MVN	move the NOT of the 32-bit value into a register	$Rd = \sim N$

- In the example shown below, the MOV instruction takes the contents of register r5 and copies them into register r7.

```

PRE    r5 = 5
        r7 = 8
        MOV    r7, r5    ; let r7 = r5
POST   r5 = 5
        r7 = 5

```

USING BARREL SHIFTER WITH DATA TRANSFER INSTRUCTION:

- Data processing instructions are processed within the arithmetic and logic unit (ALU).
- A unique and powerful feature of the ARM processor is the ability to shift the 32-bit binary pattern in one of the source registers left or right by a specific number of positions before it enters the ALU.
- This shift increases the power and flexibility of many data processing operations.
- For example, We apply a logical shift left (LSL) to register Rm before moving it to the destination register.

```

PRE    r5=5
        r7=8
        MOV r7, r5, LSL #2
POST   r5=5
        r7=20

```

- The above example shift logical left r5=5 (00000101 in binary) by two bits and then r7=20 (00010100 in binary).

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