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## Instruction Set Encoding

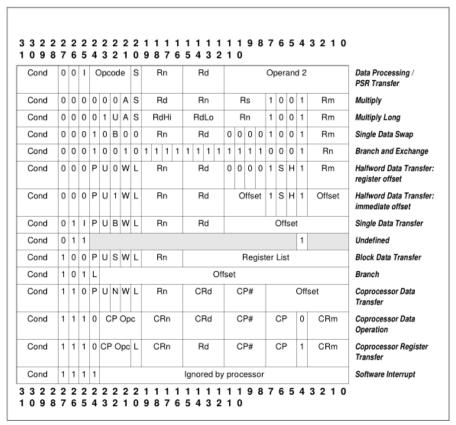


Figure 4-1: ARM instruction set formats

## Data Processing Instruction Encoding

- The ARM data processing instructions are used to modify data values in registers.
- The operations that are supported include arithmetic and bit-wise logical combinations of 32-bit data types.
- One operand may be shifted or rotated en route to the ALU, allowing, for example, shift and add in a single instruction.

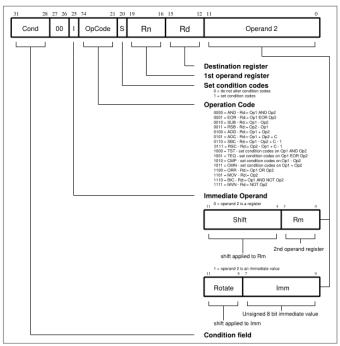


Figure 4-4: Data processing instructions

## The Condition Field

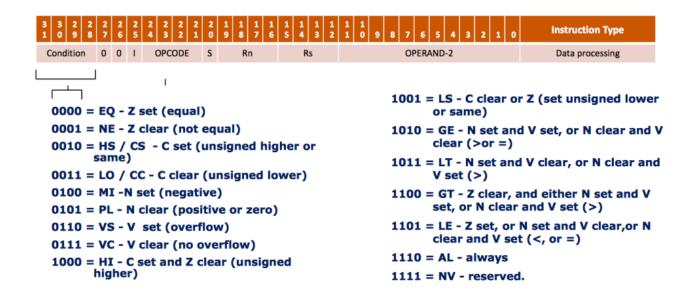


Figure 3