COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE

ROTATION

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CS 3RD SEMESTER

ROTATION

The set of rotation instructions is one of the most Useful set in any processor instruction set, it simplifies really complex task to a very simple.

TYPES OF ROTATION

ROTATE RIGHT

ROTATE LEFT

ROTATE THROUGH CARRY RIGHT

ROTATE THROUGH CARRY LEFT

ROTATE RIGHT (ROR)

In rotate right operation every bit moves one position to the right and the bit dropped is inserted at the left, this bit is also copied into the carry flag.

ROTATE LEFT

In rotate right operation every bit moves one position to the left and the bit dropped is inserted at the right, this bit is also copied into

the carry flag.

ROTATE THROUGH CARRY RIGHT

In rotate through carry right operation carry flag is inserted to the left and the right most bit is moved to carry flag.

ROTATE THROUGH CARRY LEFT

In rotate through carry right operation carry flag is inserted to the right and the left most bit is moved to carry flag.