

Interrupts:

Interrupts or Exceptions are basically a condition that forces the process in execution to suspend by storing the context of the process and they result in a forced transfer of execution from current process to interrupt service routine.

In this assignment we have implemented 4 interrupts which are:

1) Divide by Zero:

Divide by zero (INT 0) is encountered when trying to divide by zero.

2) Overflow :

While doing any arithmetic operations if the value exceeds the maximum value that can be stored then this INT 4 Service Routine is called.

3) General Protection Fault :

When we try to write into the segment which has read only permissions GPF is raised which calls INT 13 or interrupt service routine which handles it.

4) User Defined Interrupt:

The user defined interrupts are the one which are defined by the user.

These all interrupts are invoked in the code and checked whether each interrupt is called or not by changing a value in the memory location [0x01]. Then finally jumping to chanHappy.