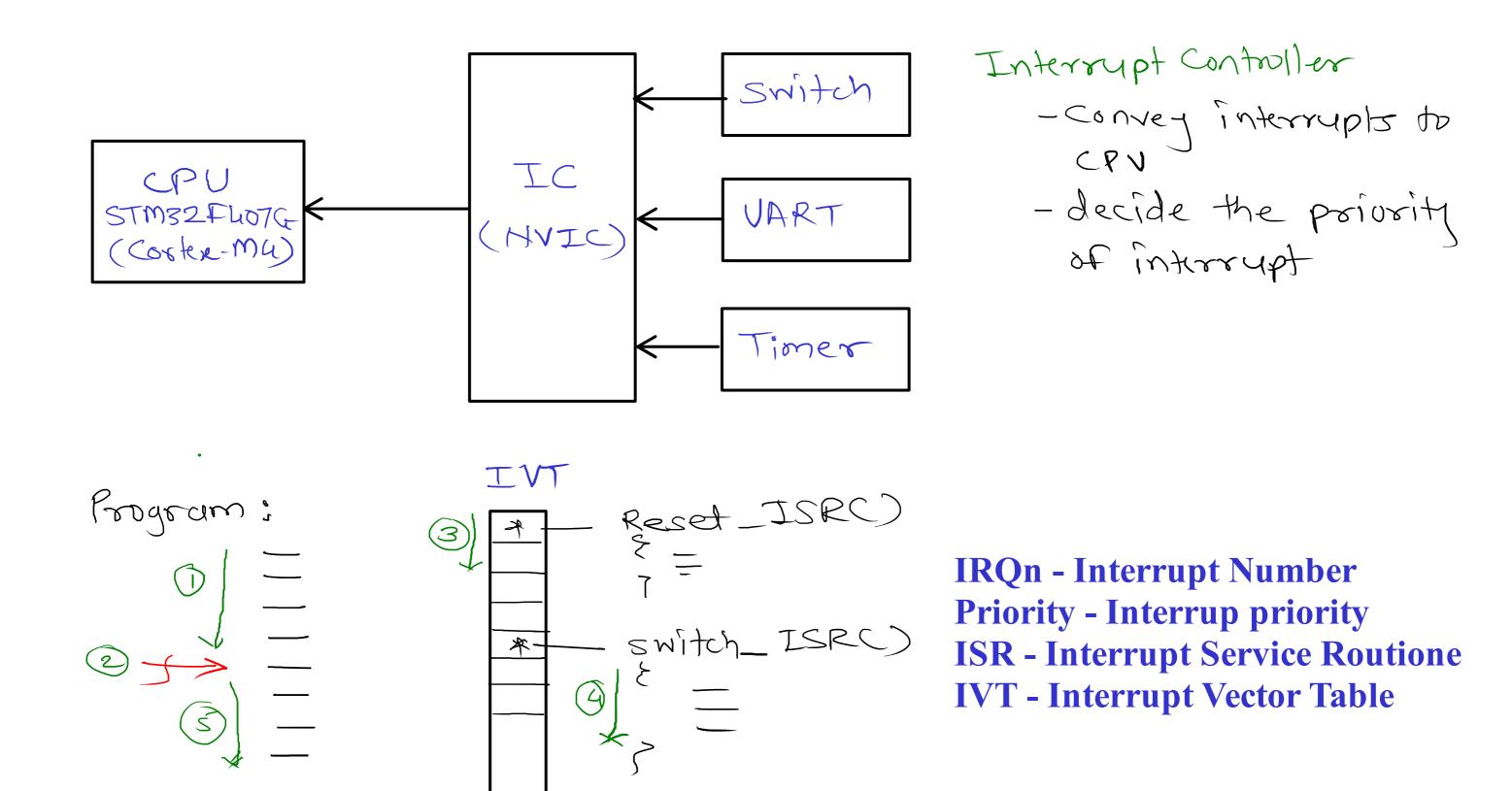


bit_word_addr

bit_band_base

byte_offset * 32

bit_number * 4



Program

Push phase

Interrupt (ISR)

Pop phase

Program

```
Optimization: -O0(None)
                                    Optimization: -O3(Most)
                                                                       Optimization: -O3(Most)
int flag = 0;
                                    int flag = 0;
                                                                       volatile int flag = 0;
void EXTI0_IRQHandler(void)
                                    void EXTI0_IRQHandler(void)
                                                                       void EXTI0_IRQHandler(void)
                                                                       {
     EXTI->PR = BV(0);
                                        EXTI->PR = BV(0);
                                                                           EXTI->PR = BV(0);
     flag = 1;
                                        flag = 1;
                                                                           flag = 1;
         MOV r7, = flag
                                             MOV r7, = flag
                                                                                MOV r7, = flag
         LDA r6, #1
                                             LDA r6, #1
                                                                                LDA r6, #1
         STA r6, [r7]
                                             STA r6, [r7]
                                                                                STA r6, [r7]
     */
                                         */
                                                                           */
int main(void)
                                    int main(void)
                                                                       int main(void)
     while(1)
                                        while(1)
                                                                           while(1)
         while(flag == 0)
                                             while(flag == 0)
                                                                                while(flag == 0)
              MOV r7, = flag
         /*
                                             /*
                                                 MOV r7, = flag
                                                                                    MOV r7, = flag
              start:
                                                 LDA r6, [r7]
                                                                                    start:
                  LDA r6, [r7]
                                                 start:
                                                                                        LDA r6, [r7]
                  CMP r6, #0
                                                      CMP r6, #0
                                                                                         CMP r6, #0
                  beq start
                                                      beq start
                                                                                         beq start
          */}
                                             */}
                                                                                */}
```