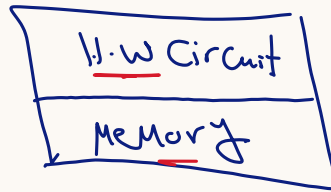
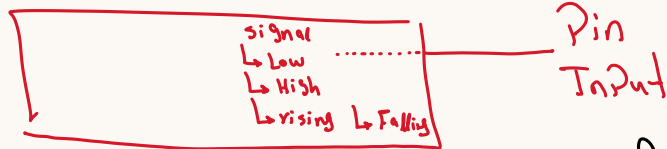


External Interrupt (Specific) Atmega32 →

→ in Atmega have 3 separated



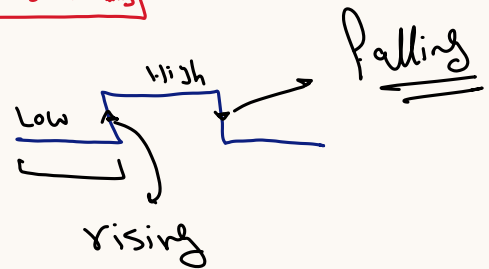
→ Circuit



→ Flag set when Pin low level

→ Flag set when Pin High

→ Flag set when Pin rising




- ① which event fire Flag
- ② which Int will sens
- ③ Action

MCUCR → 0x[]

→ Bit 3, Bit 2 → select sens Control → EXTI
0 0 Low
0 1 Anti-chang
1 0 Falling
1 1 rising

→ Bit 1, 0 → select sens Control For EXTIO
0 0
0 1
1 0
1 1

MCU CSR → 

↳ Bit 6

↳ Sens Control for EXTI2.

↳ 0 → Pulling

↳ 1 → rising

GICR

↳ Bit 7 → Int1 → SIE for
EXTI1

↳ 0 → Not allow

↳ 1 → allow

↳ Bit 6 → Int0 → SIE for
EXTI0

↳ 0 → Not allow

↳ 1 → allow

↳ Bit 5 → Int2 → SIE for
EXTI2

↳ 0 → Not allow

↳ 1 → allow

GIFR → General Interrupt Flag Reg

↳ Bit 7 → Peripheral Interrupt Flag
IntF1 for EXTI1

↳ Bit 6
IntF0

↳ Bit 5
IntF2

→ SIE → INT0, INT1, INT2

→ PIE → INT0, INT1, INT2

→ GIE → Common between all Interrupts
↳ SREQ

↳

↳ void mGIE_Enable ();

↳ void mGIE_Disable ();

↳ structure → EXTI → Driver

Pin → Support

INT0 → PB2

INT1 → PB3

INT2 → PB2