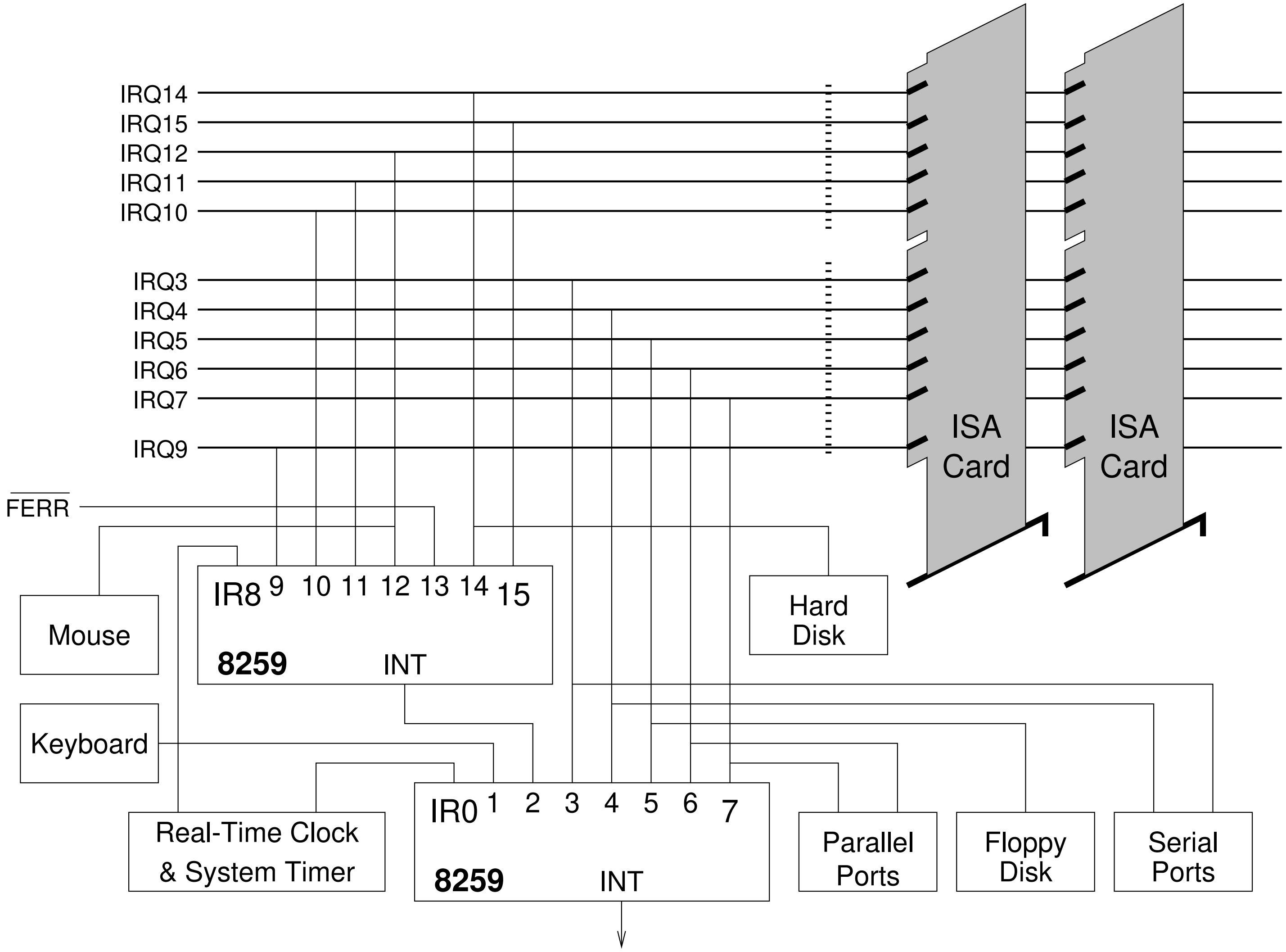
PC Interrupts



PC Interrupts

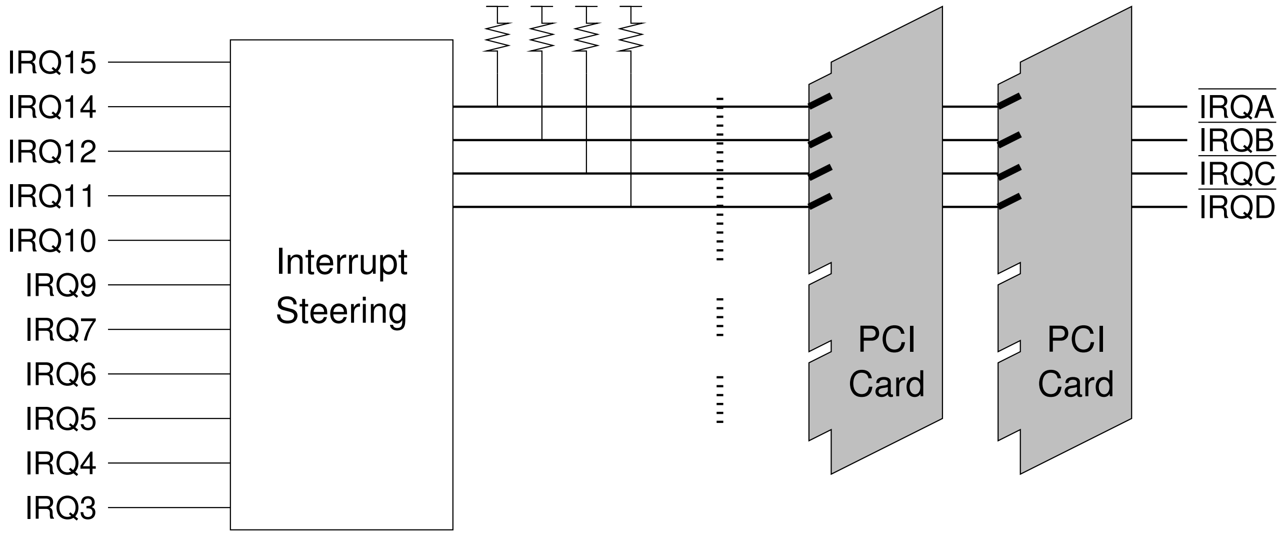
ISA bus interrupts

- Two daisychained 8259 interrupt controllers
- 15 interrupts
  - 5 for motherboard only
  - 7 go to ISA and motherboard devices
    motherboard interrupts may not be required e.g. LPT2
  - 3 for ISA cards only
- 8259 defaults to edge triggered inputs[1]
  lines cannot support multiple active devices.

[1] useful for simple devices such as the 18.2 Hz clock

PC Interrupts

PCI bus interrupts



- 4 level sensitive active low interrupts (suitable for wire-or)
- interrupt steering maps these to (unused) IRQn lines

note 8259 like devices within newer PCs allow individual IRQ lines to be configured level sensitive while ISA motherboard interrupts remain edge triggered.