Microchip PIC Processors

- The Microchip line has nearly 150 different processors
- All are 8-bit MCU but have extensive memory and I/O configurations.
- All are Harvard Architecture RISC designs (separate program and data memory)
PIC 18F452

- Internal RAM - 1536 bytes
- Internal EEPROM - 32K bytes
- Serial I/O - USART, SPI, I²C
- 4 - timers
- Bus frequency 4 - 10 MHz
- 8 A/D channels, 10 bits
- 2 PWM channels (8 and 16 bit)
- 24 IO pins
Motorola 68HC11 / - / continued

- Power requirements - 1.0 W maximum
- Mechanical - 40 and 44 pin
- Product family - extensive
- Processing unit - 8-bit
- Instruction Set - 77 instructions
- Addressing Modes - 3 (literal, direct, indirect) relative)
- Price $15
PIC 18F452/ - / Block Diagram