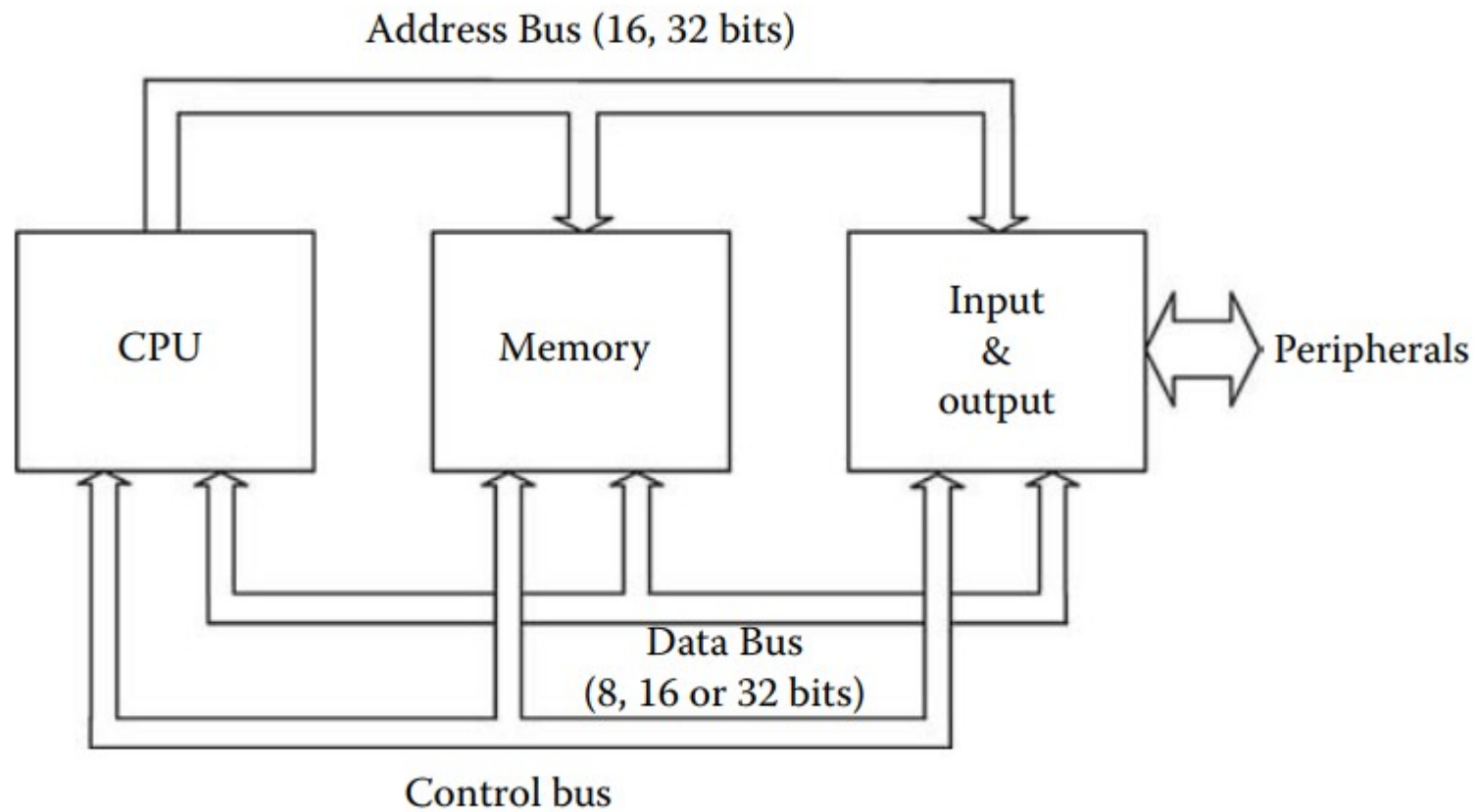


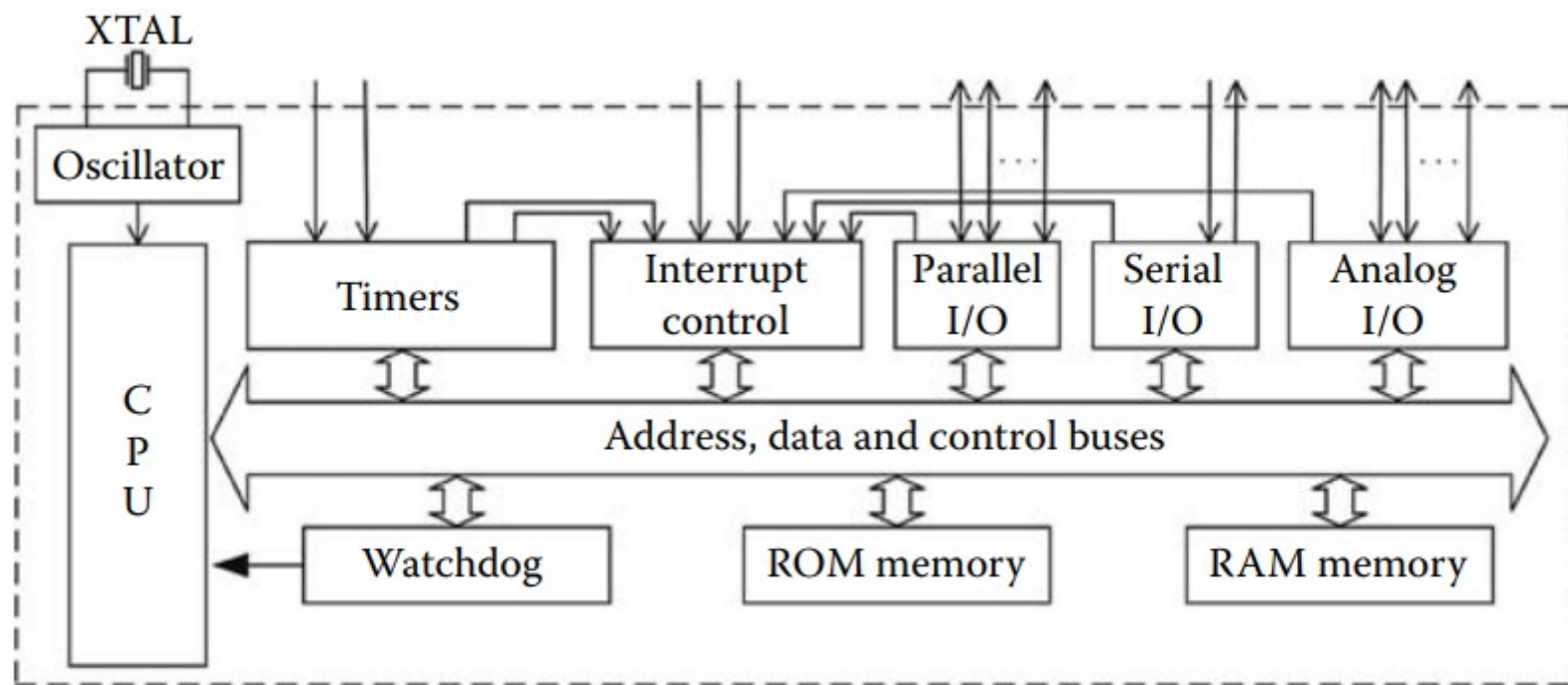


# Microcontroladores

**Intro**



**Fig 1.1** Diagrama genérico de una microcomputadora

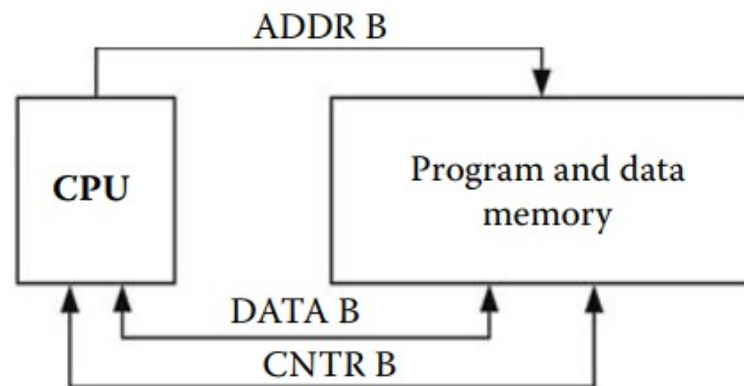


**Fig 1.2** Diagrama básico de un microcontrolador

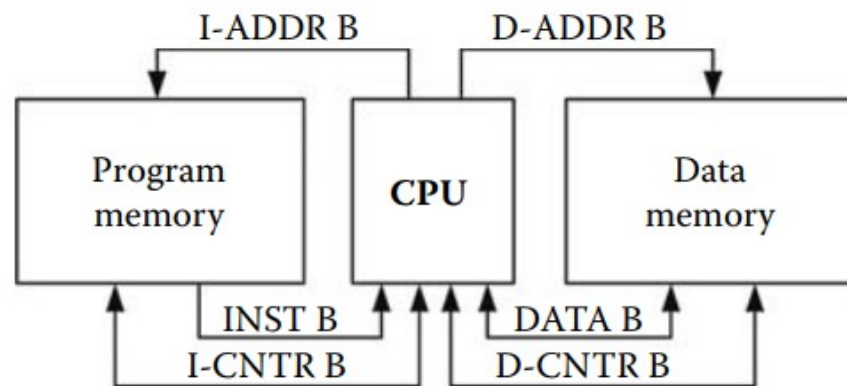
**Fig 1.3**

(a) Von Neumann

(b) Arquitectura Harvard



(a)

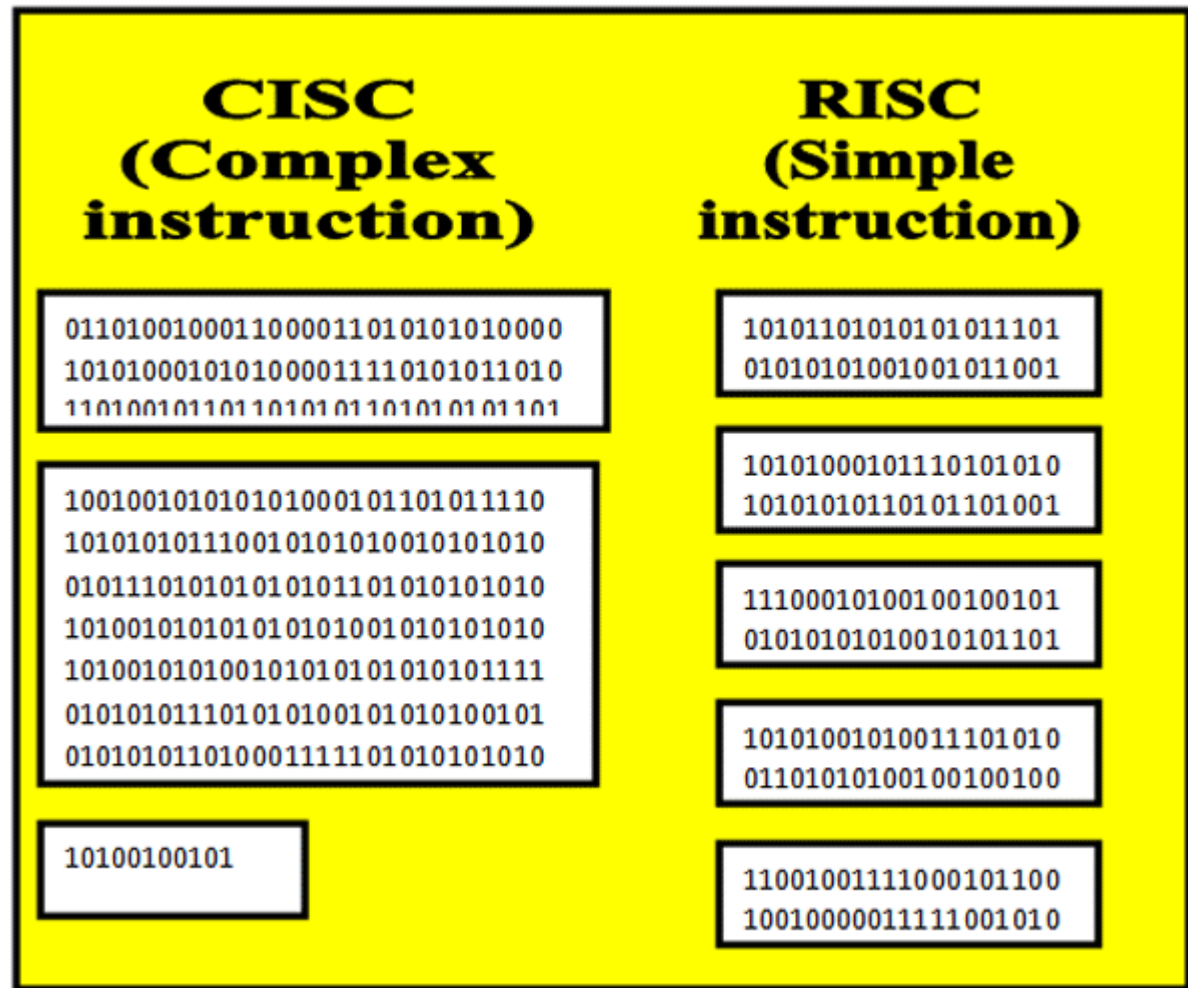


(b)

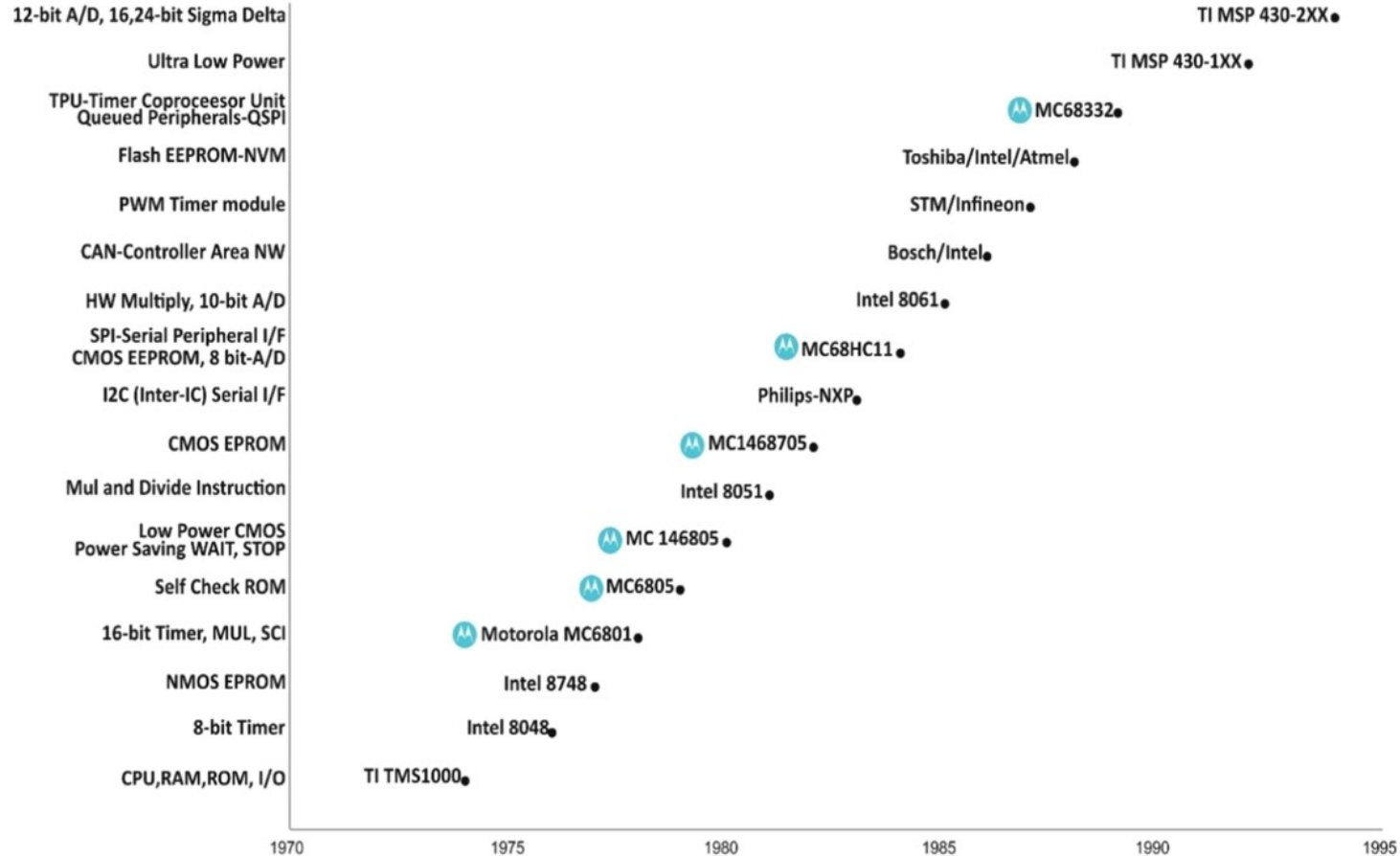
**Fig 1.4**

Visualización

Complex Instruction Set Computing vs  
Reduced Instruction Set Computing



## Feature/Function



New Feature Introduction timeline on MCU

## History of Innovation

# PIC® MCU

**1985**

PIC CPU  
Invention

**1990**

First Microchip  
MCU Introduction

**1999**

1 Billion PIC  
MCUs shipped

**2010**

Introduction of PIC MCU Core  
Independent Peripherals

**2013**

More than 12 Billion  
PIC MCUs shipped

**2016**

Creation of 8-bit  
MCU Powerhouse

**1992**

AVR CPU  
Invention

**1997**

First AVR MCU  
Introduction

**2003**

500 Million AVR  
MCUs shipped

**2007**

Introduction of AVR  
MCU Event System

**2015**

More than 7 Billion  
AVR MCUs shipped

# AVR® MCU

**Motorola's MPC555**  
PowerPC™ Microcontroller

