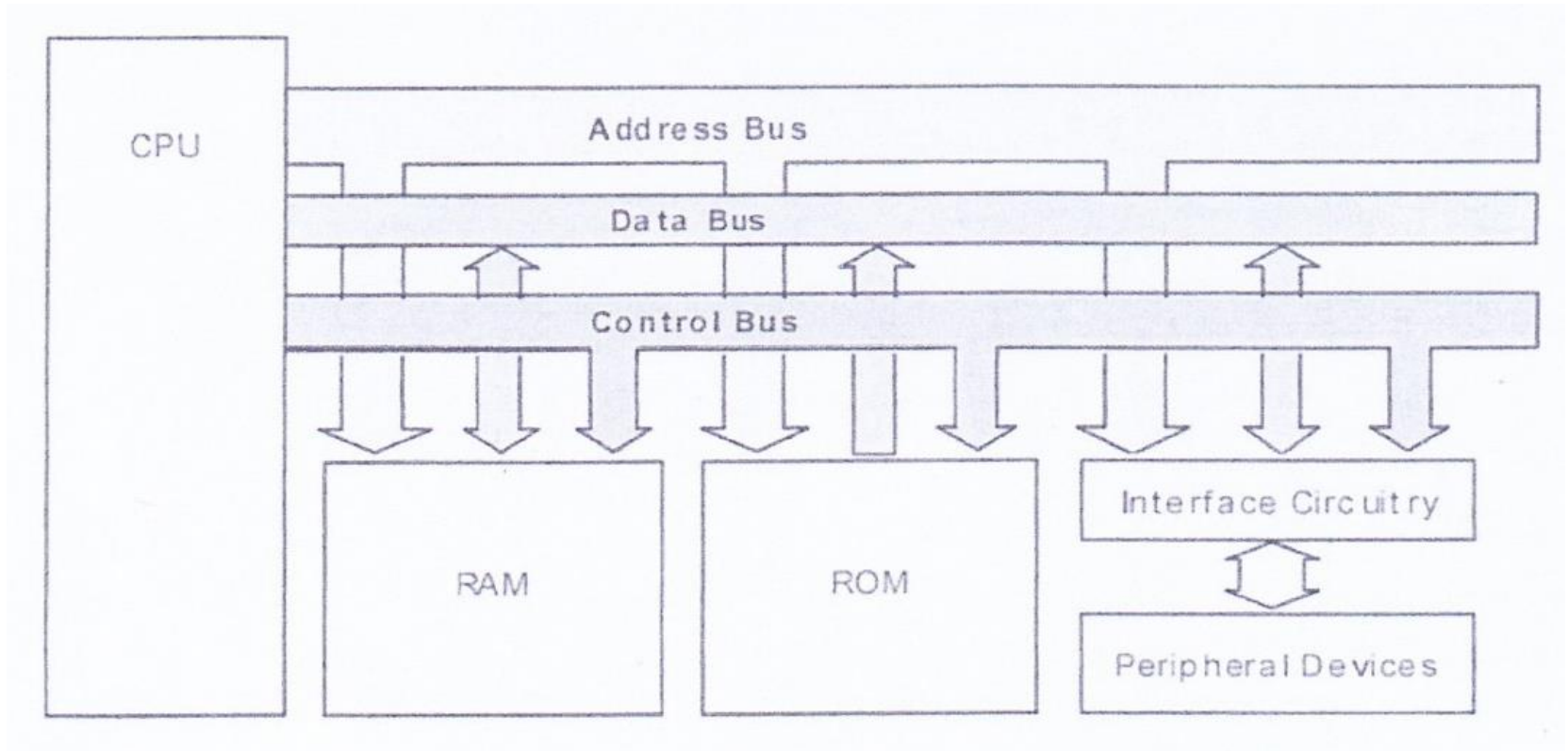# EBU4202
Digital Circuit Design

Microcomputer Block Diagram

There are 3 Buses: Address, Data and Control
Address and Control are Unidirectional; Data is Bidirectional

Examples of Control signals are:

- Read/Write
- Chip Select
- Output Enable, etc.

RAM can be a combination of volatile and non-volatile (SRAM/DRAM) as "working memory" and temporary storage.

ROM is non-volatile, storing the operating system (e.g. Windows 10, iOS12, Linux, etc) and other permanent firmware.