

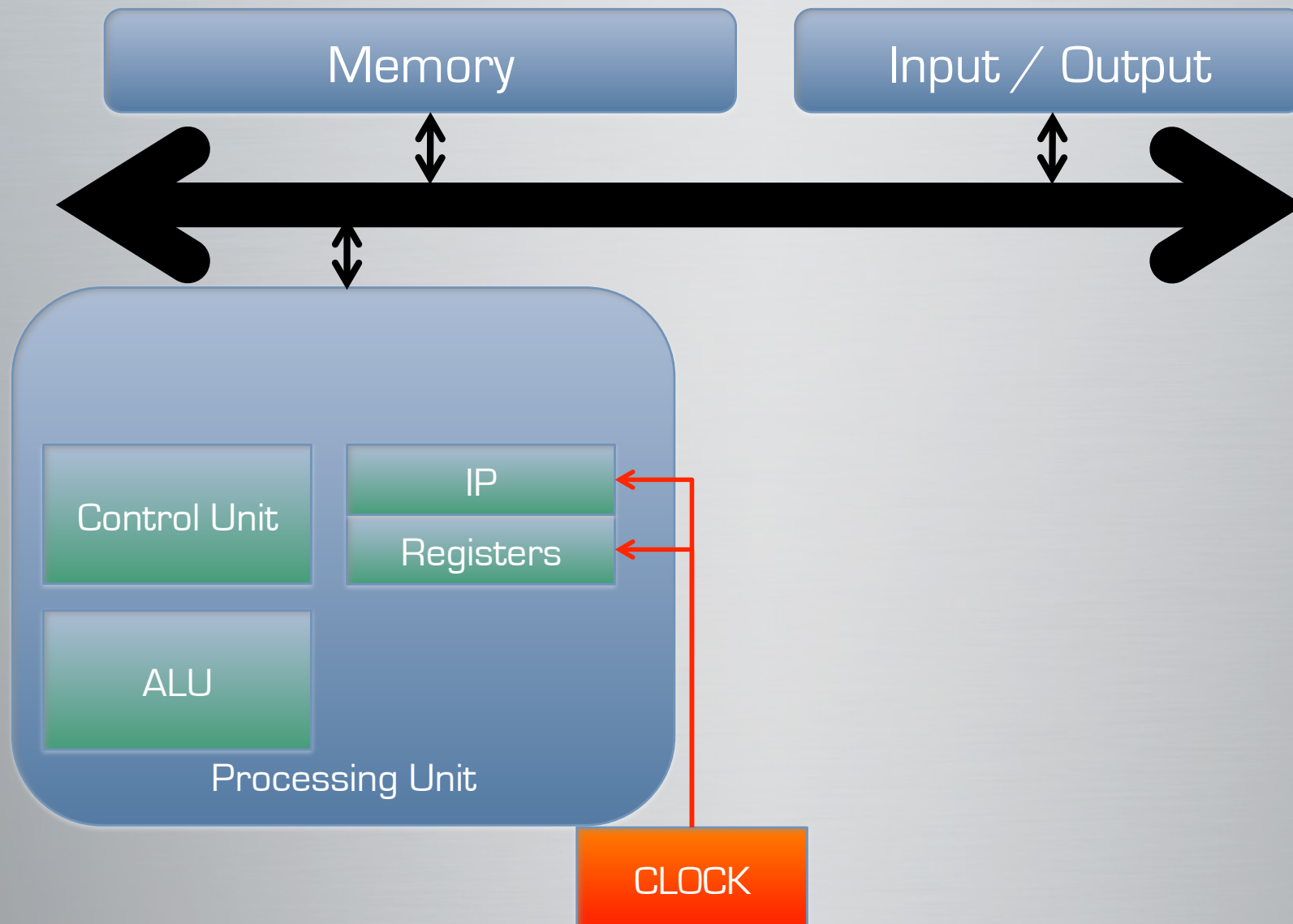
01 - Arquitectura Von Newmann

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Arquitectura de Computadores 2014/15
Universidade do Minho

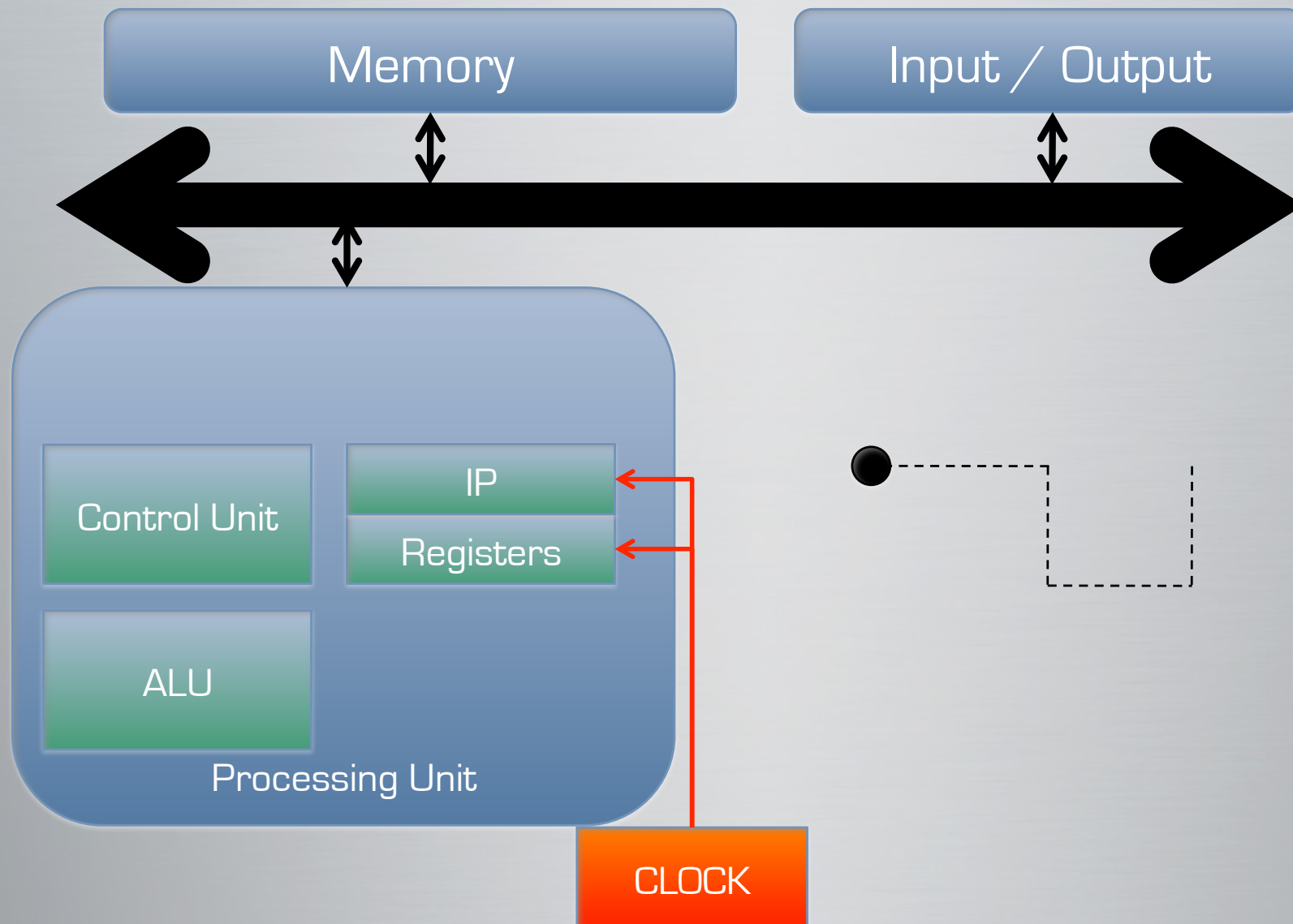
Arquitetura “von Neumann”

- Proposta em 1945
- Incorpora uma *processing unit* (*control unit*, *registos*, *ALU*), memória para armazenar **dados** e **programa**, unidades de entrada/saída dados e barramento
- *stored program* (vs. *fixed program*)
- John von Neumann + Alan Turing + J. Eckert + John Mauchly

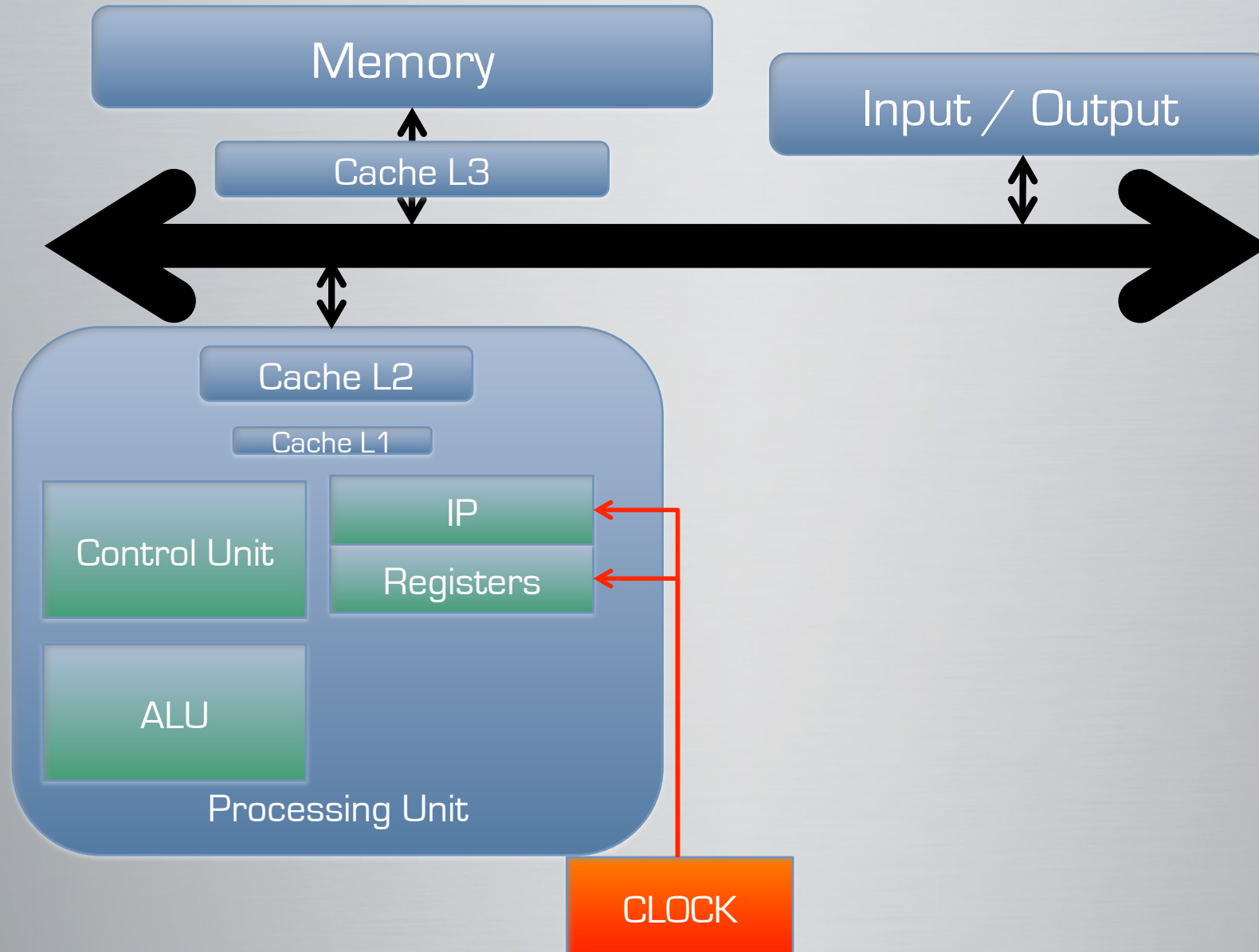
Arquitectura “von Neumann”



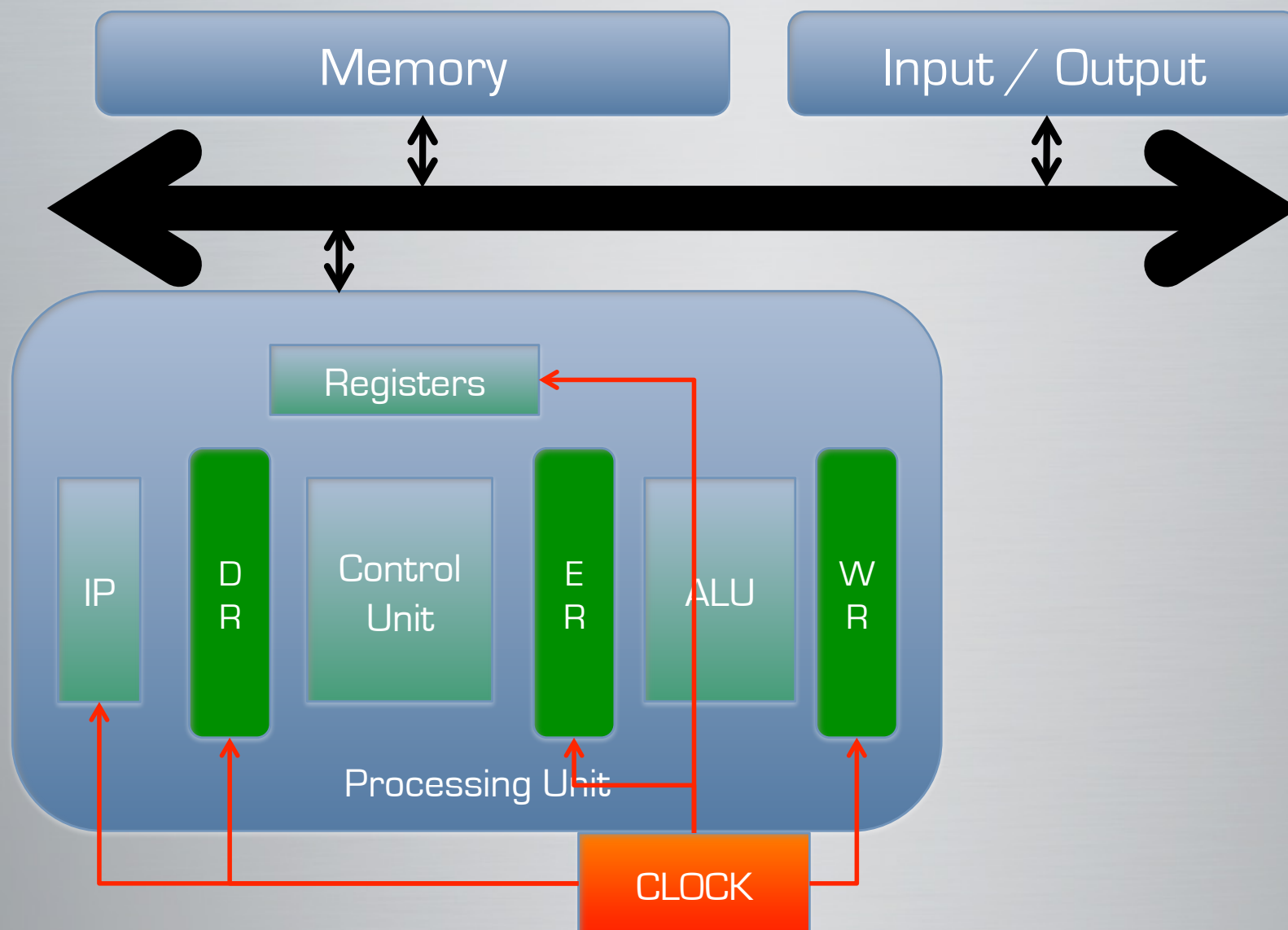
Avaliação Desempenho



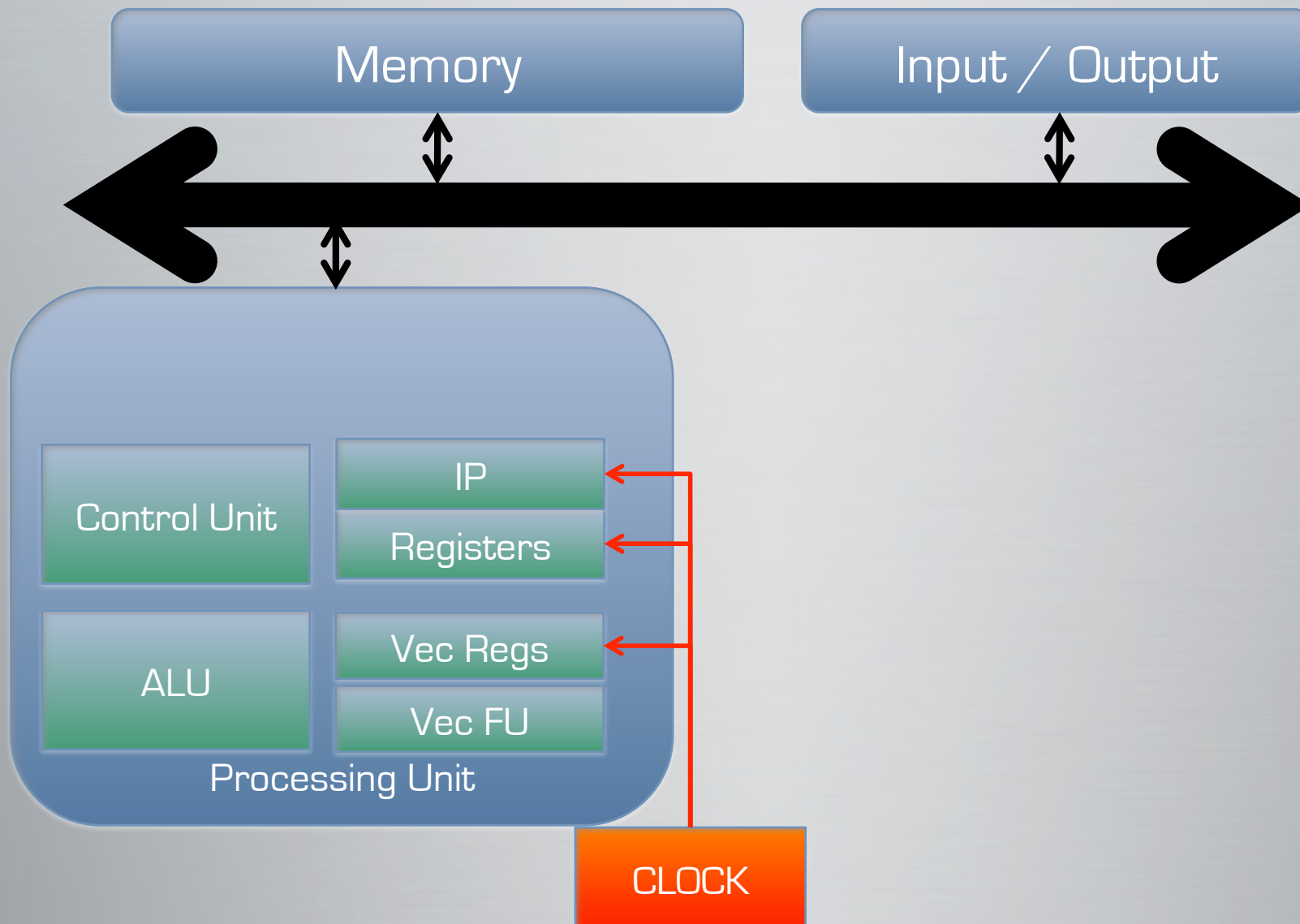
Hierarquia de Memória



Pipelining



Processamento Vectorial



Multi Core

