



# Address Translation & IRAM Cache

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31/12/18



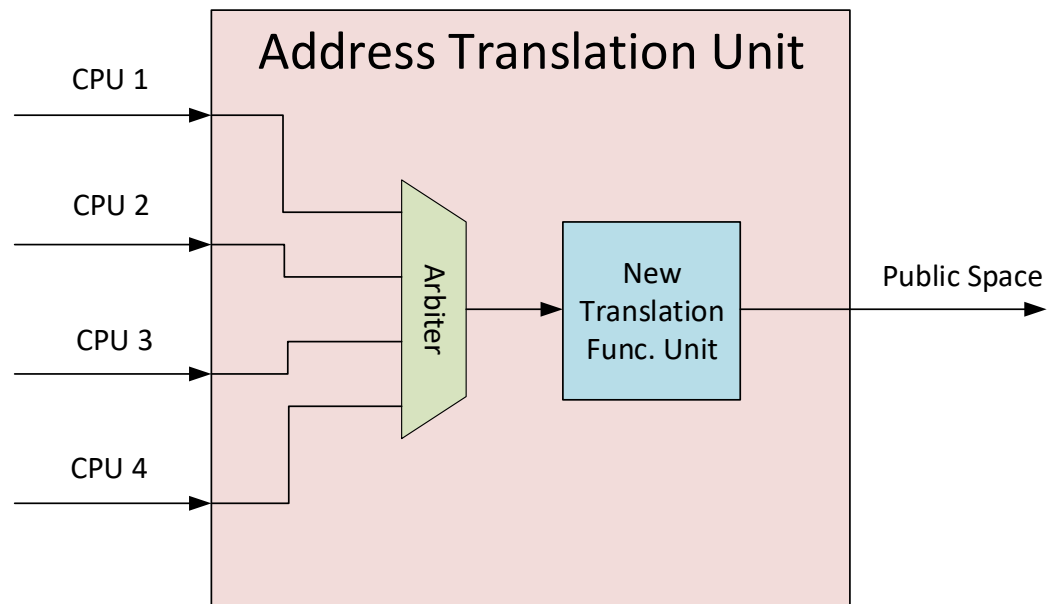
# Overview

- NICs (Network Interface Controllers) are the gateway to the Internet
- Our challenges to face in this projects are:
  - Address Translation
  - IRAM Cache

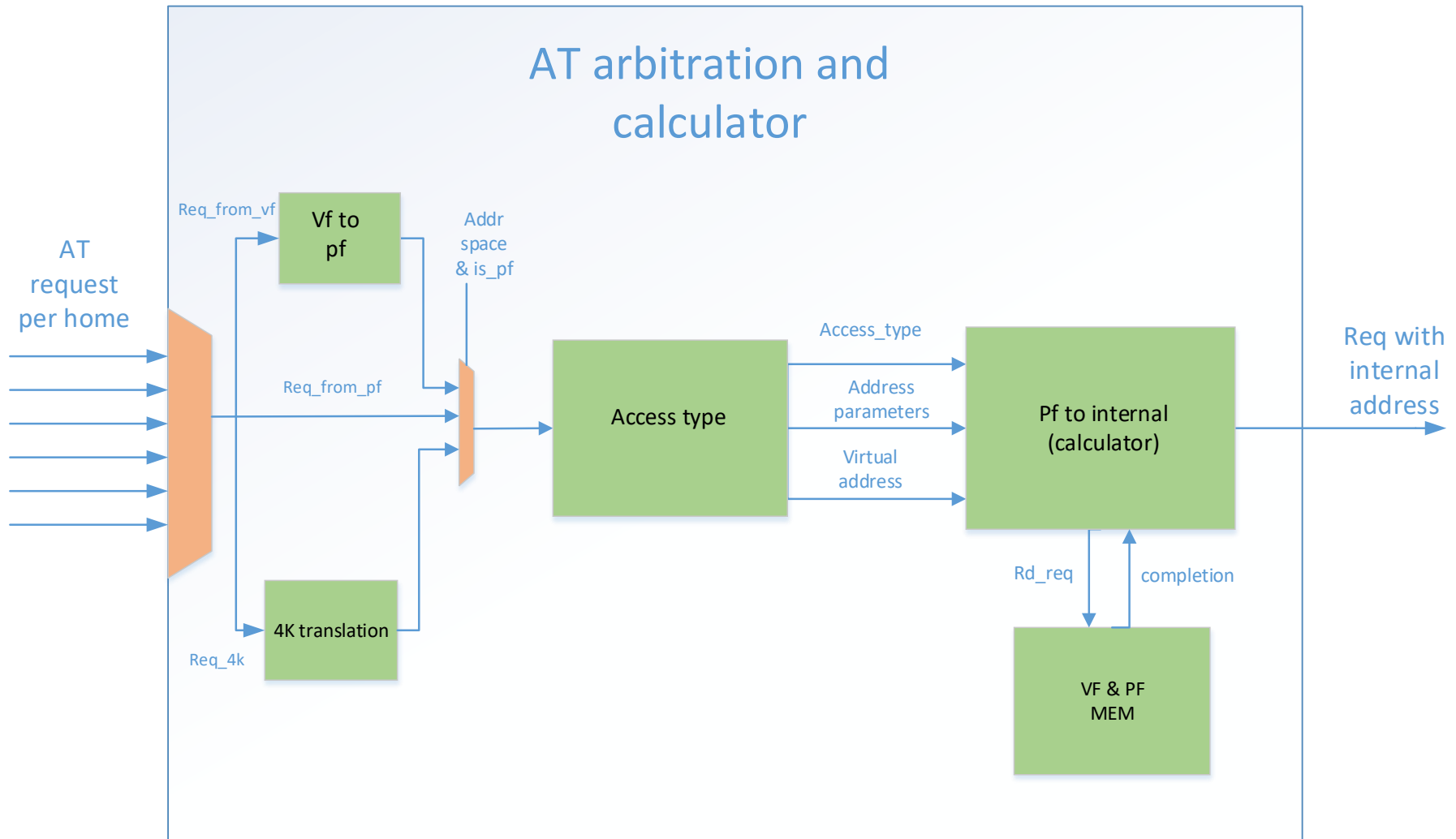


# Address Translation - Problem

- Nowadays NICs requires much higher Traffic performance.
- Several processes must run independently and in parallel.
- NICs memory space is public for all agents.

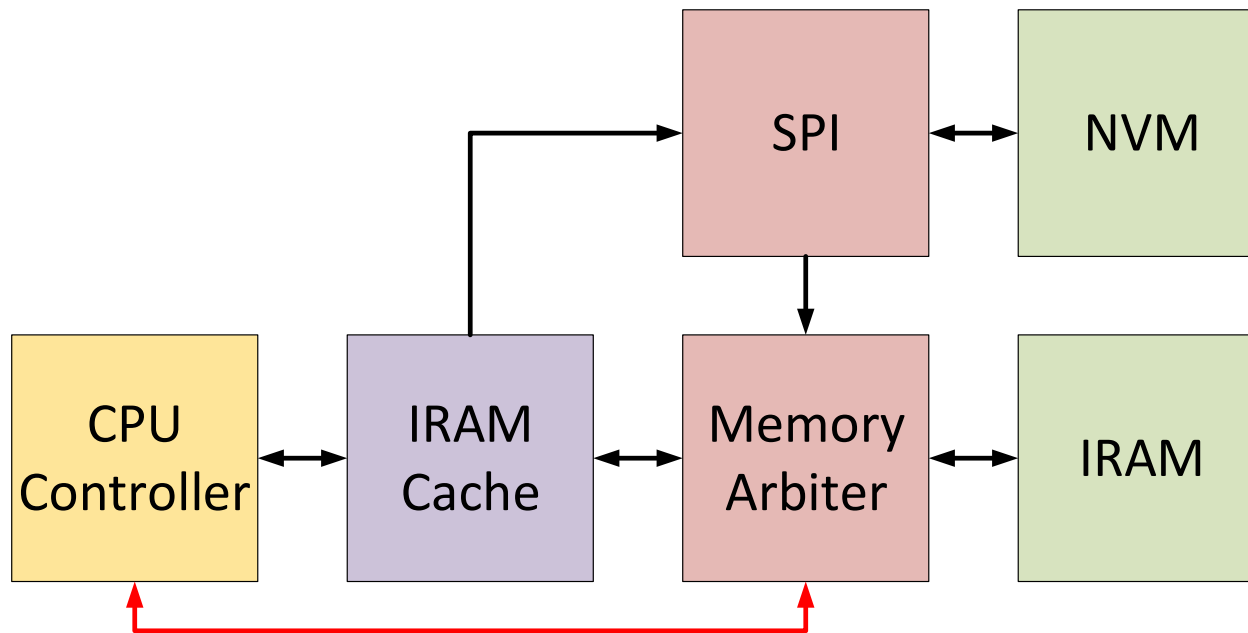


# Address Translation – Detailed scheme



# IRAM Cache - Problem

- Limited memory space dedicated to Instruction.
- There is a need for dynamically increase of the IRAM space for allowing more features.



# IRAM Cache – Detailed scheme

