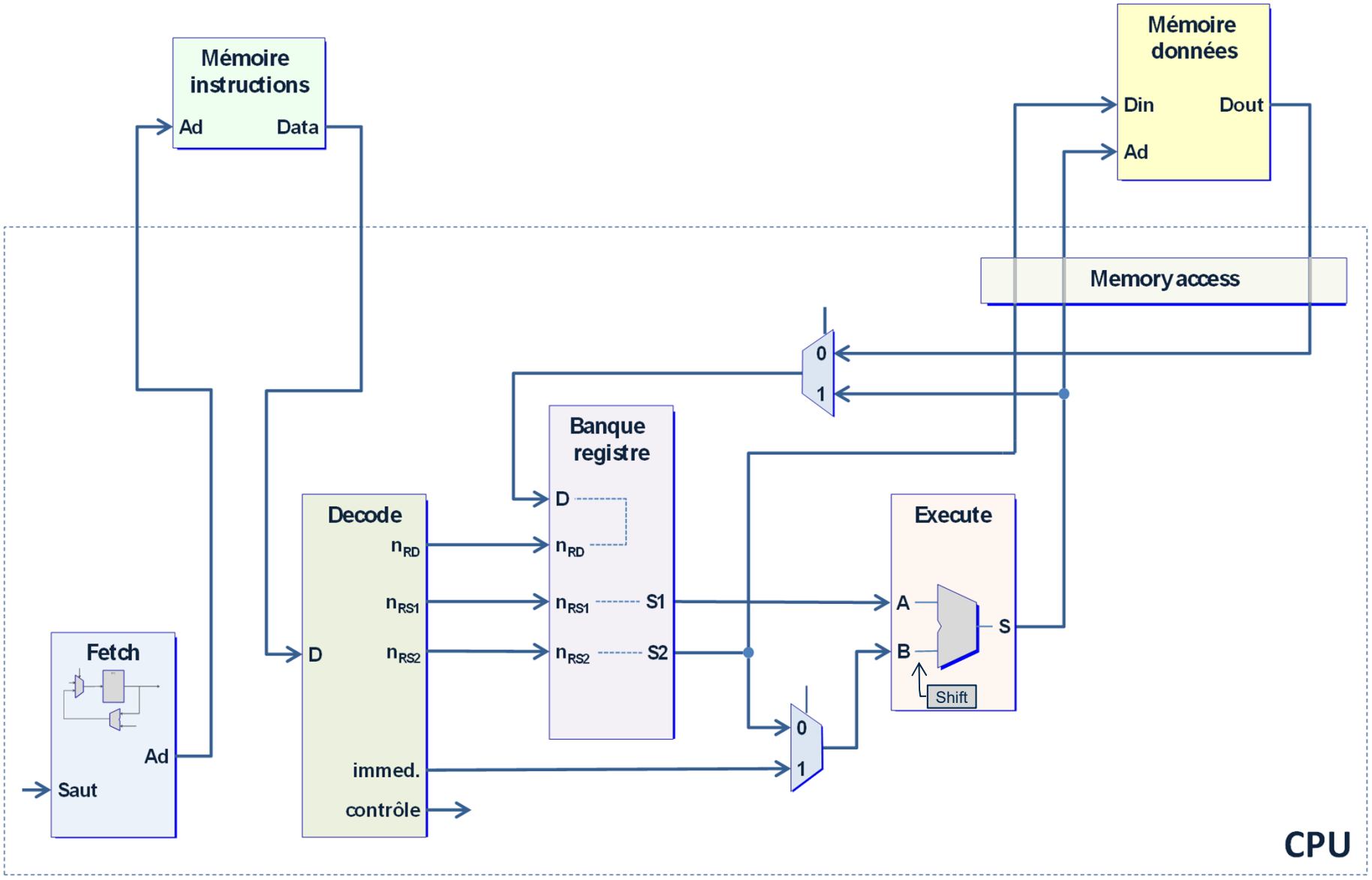
ARO2

Micro-architecture d'un processeur
Schéma-bloc global et récapitulatif

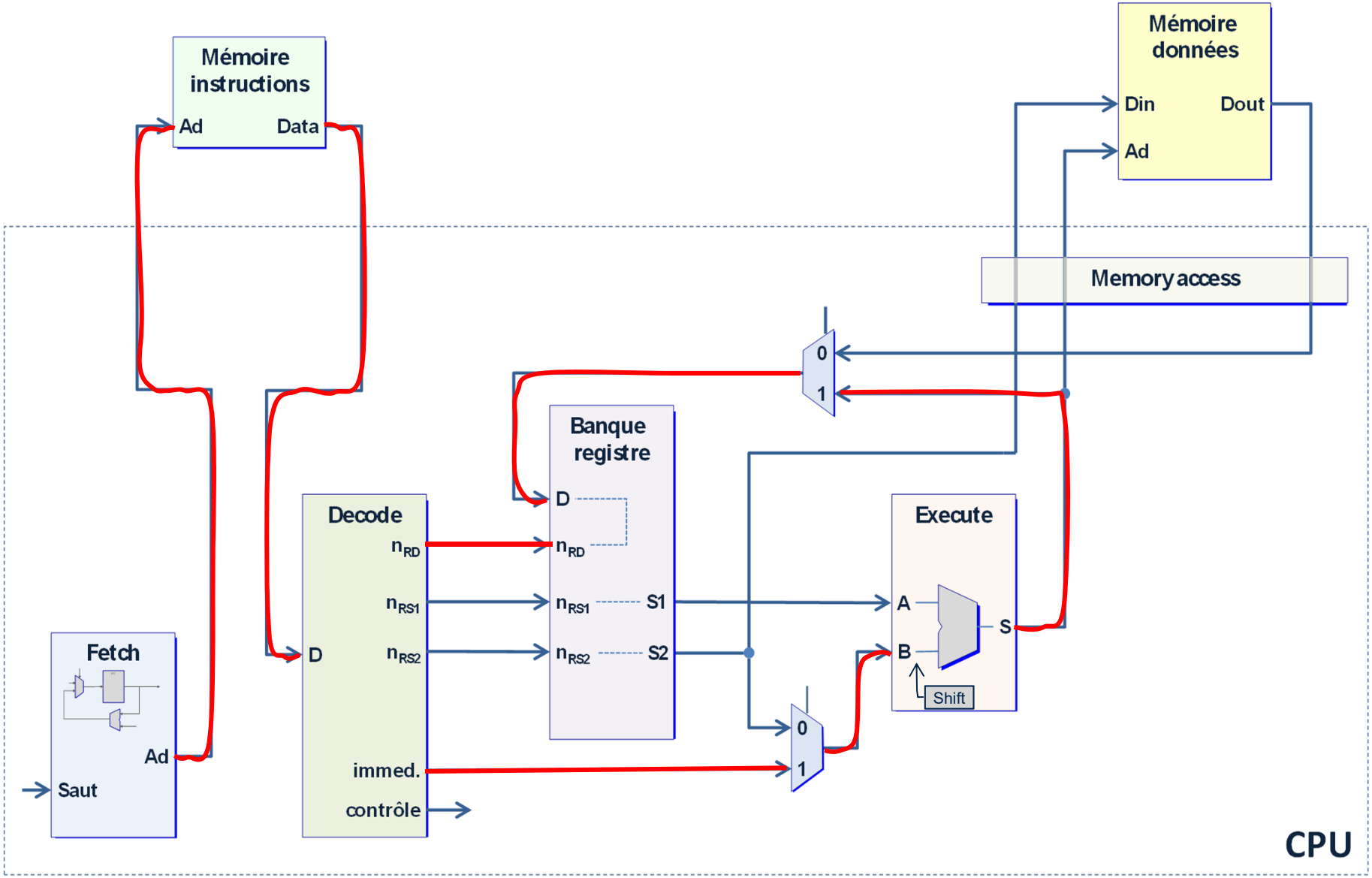
Basé sur le cours du prof. E. Sanchez
et le cours ASP du prof. M.Starkier

Romuald Mosqueron

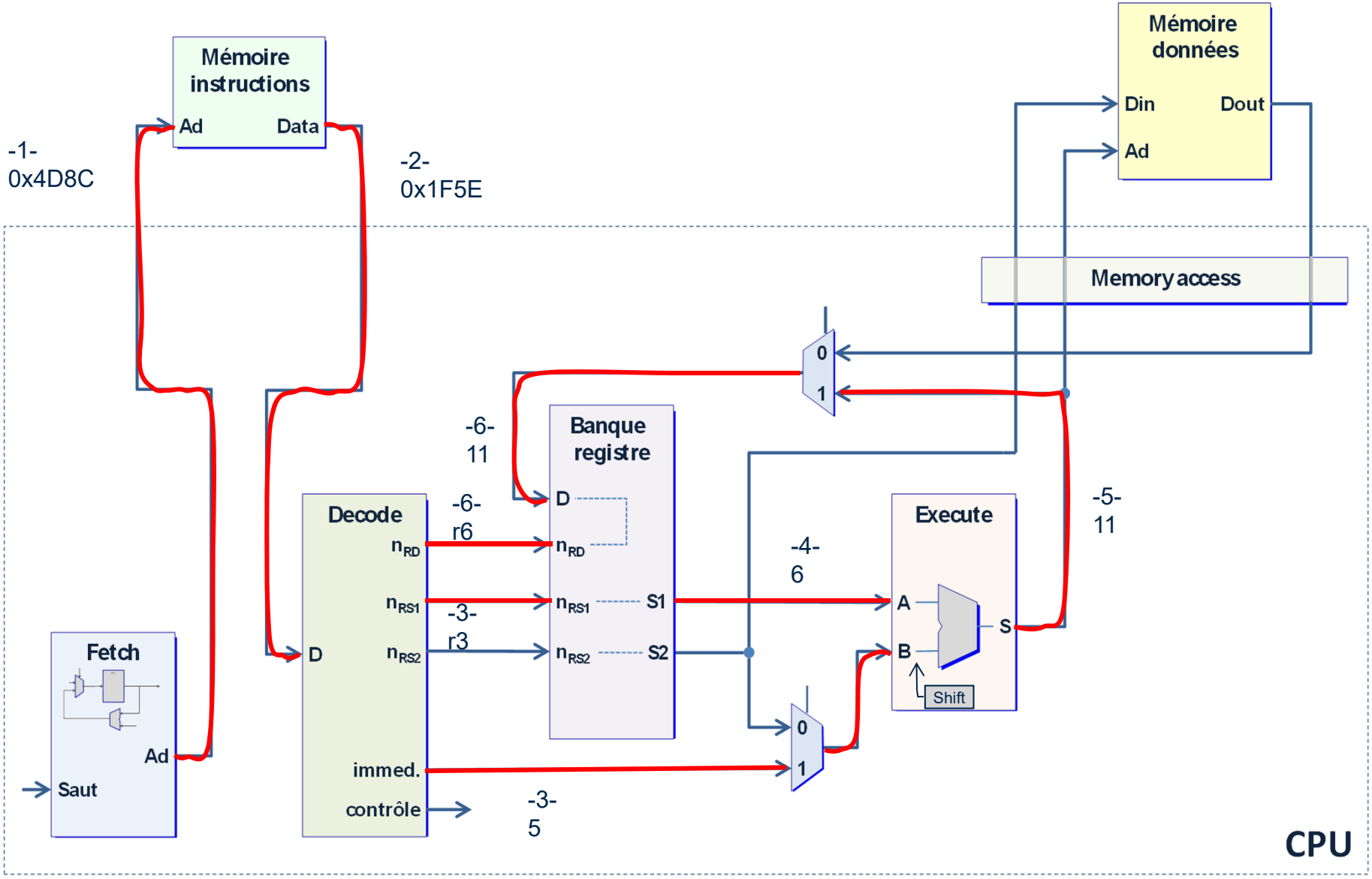
Microarchitecture d'un processeur de type ARM



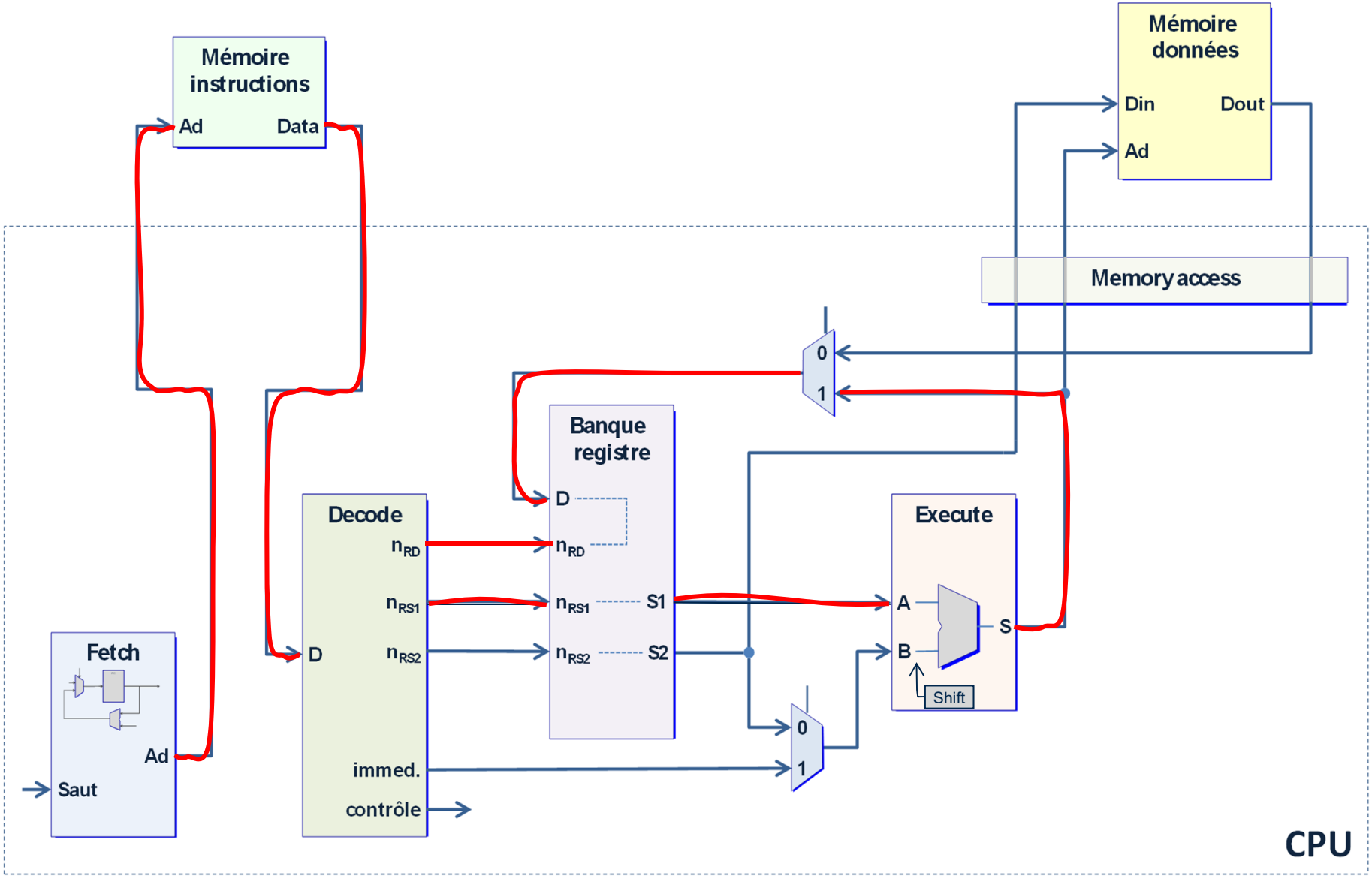
Instruction MOV <Rd>, #<immed_8>



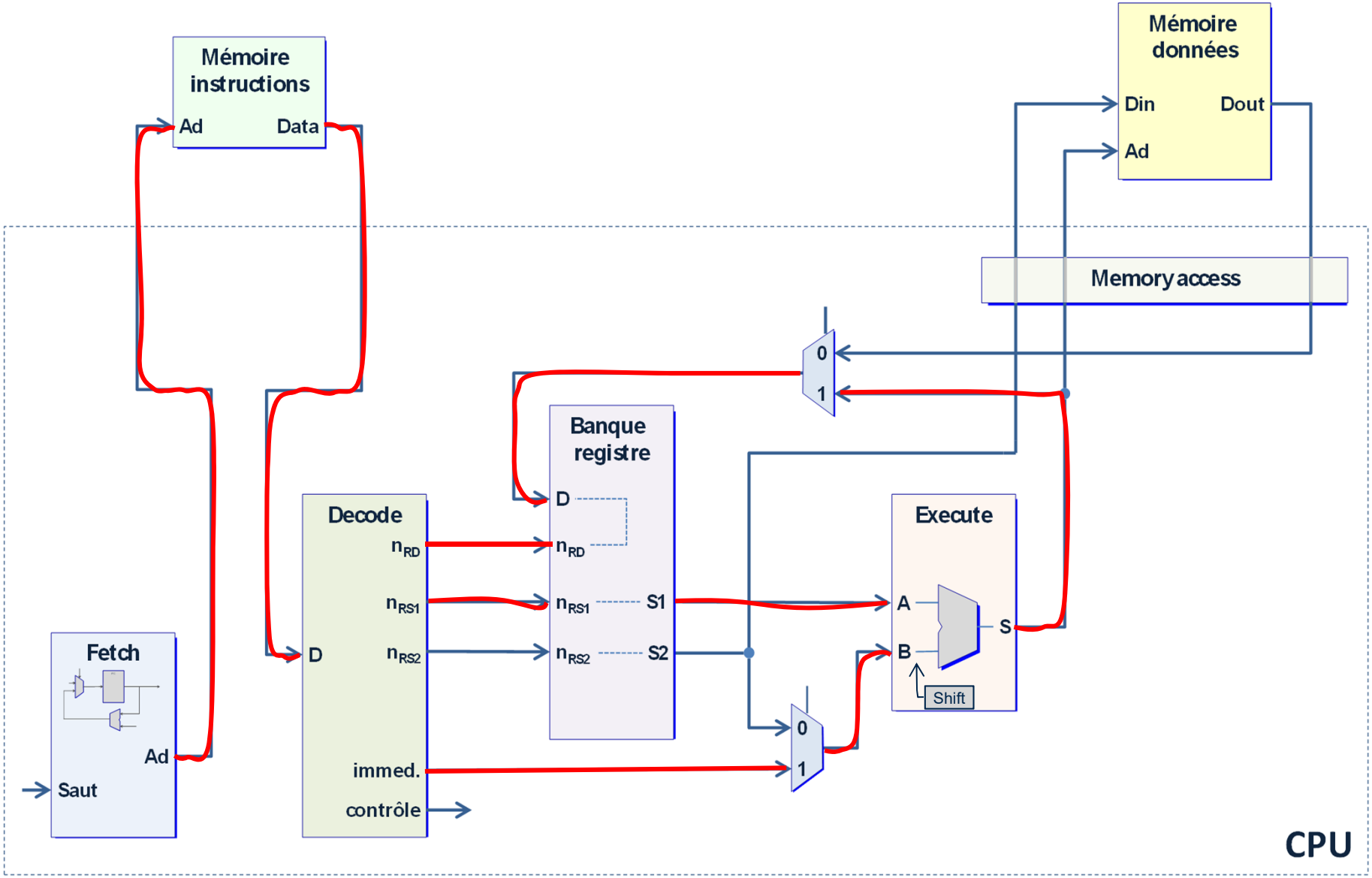
Instruction ADD r6,r3,#5



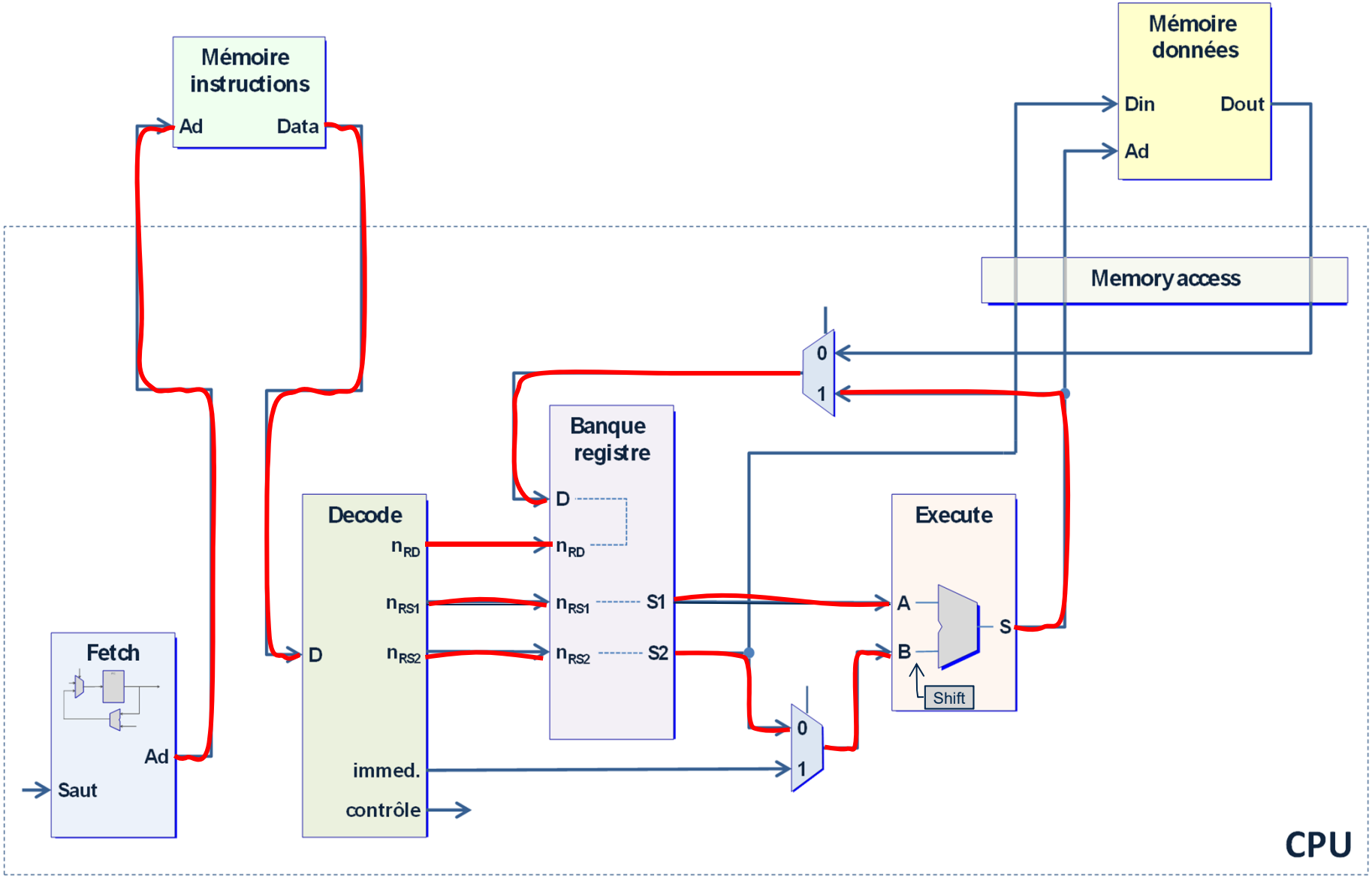
Instruction MOV <Rd>, <Rn>



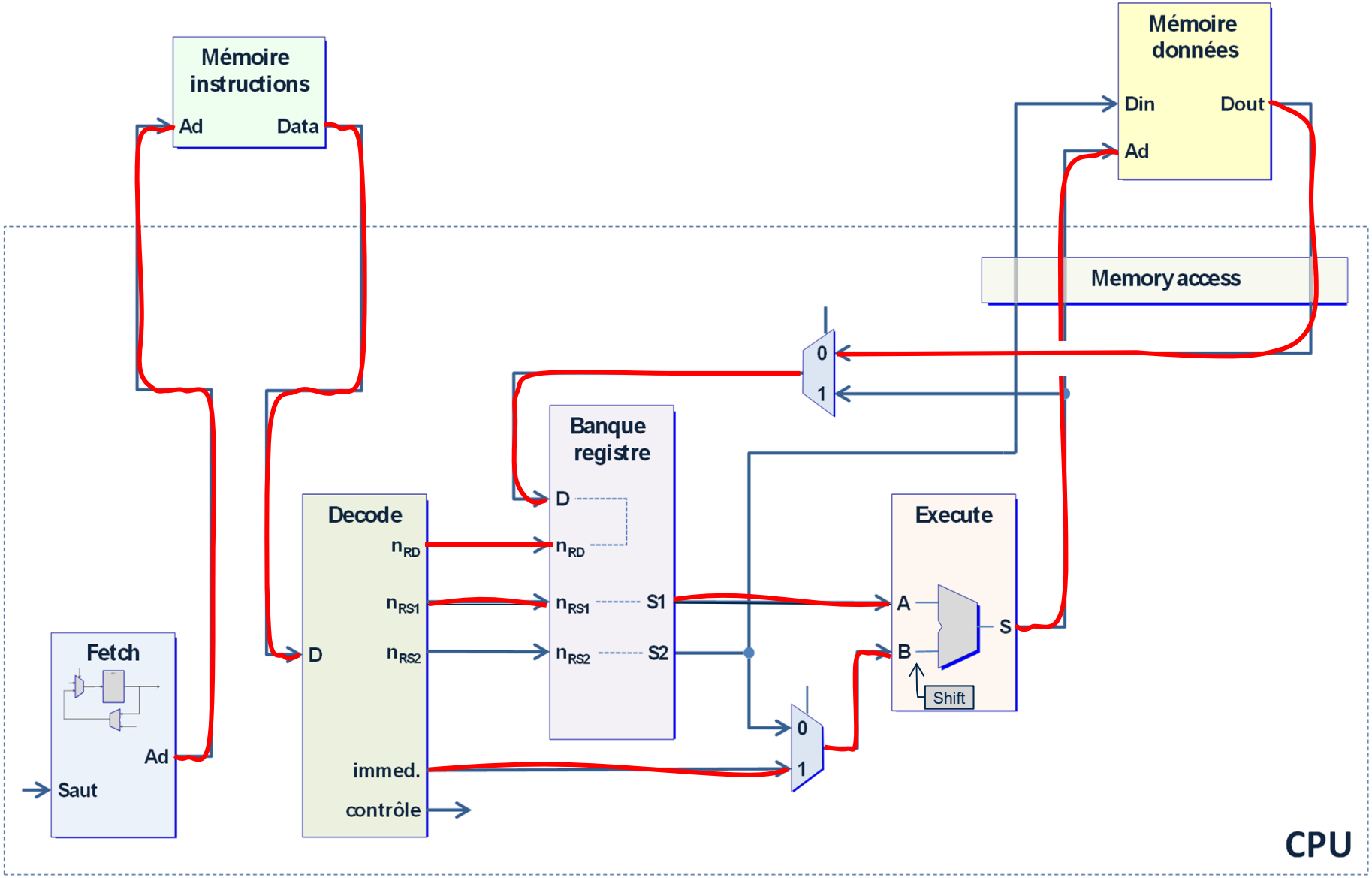
Instruction ADD <Rd>, <Rn>, #<immed_3>



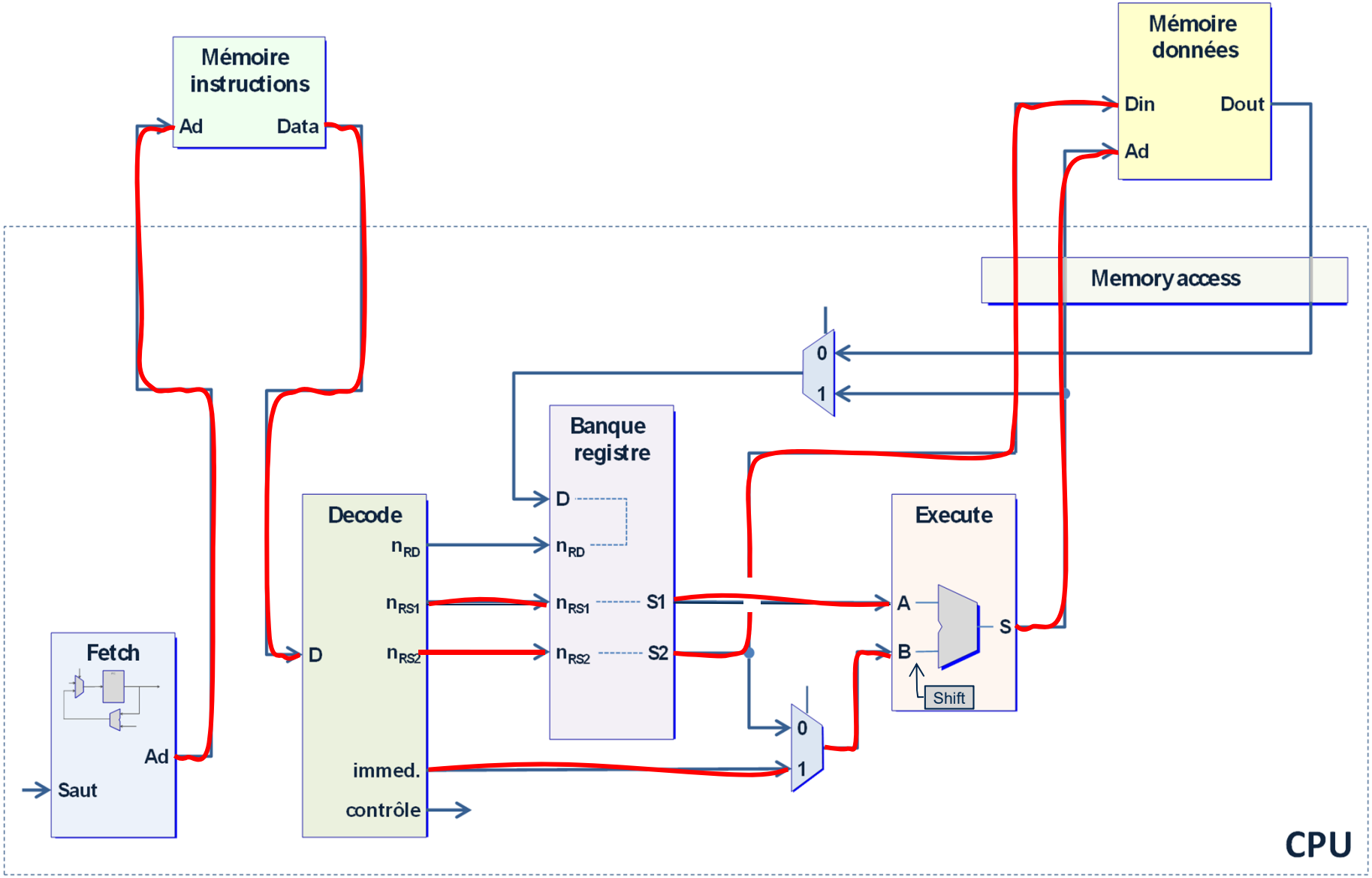
Instruction ADD <Rd>, <Rn>, <Rm>



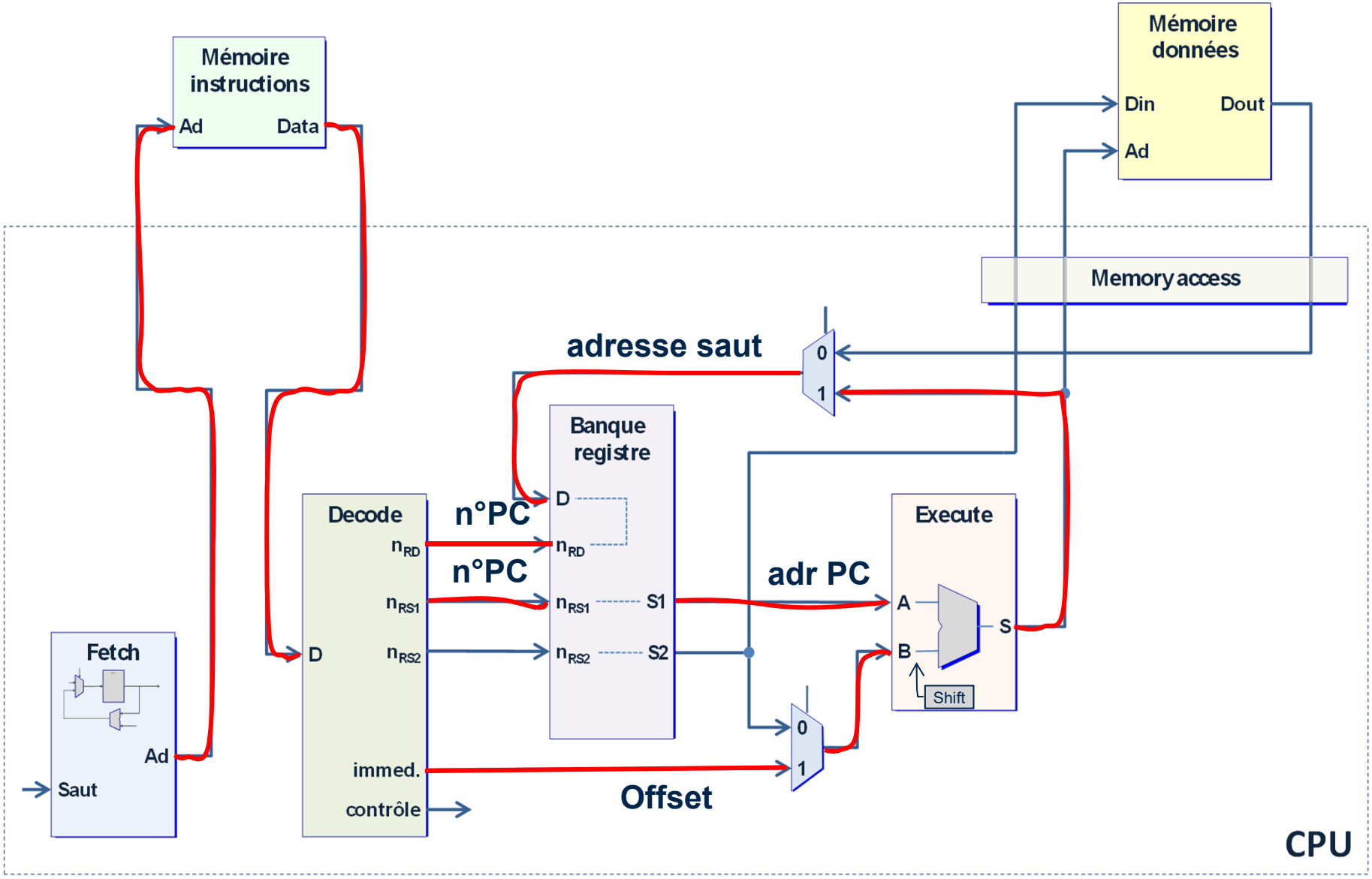
Instruction LDRH <Rd>, [<Rn>, #<immed_5> * 2]



Instruction STRH <Rd>, [<Rn>, #<immed_5> * 2]



Instruction B <target_address>



Exercice

- **Compléter les schémas avec les valeurs correspondant aux exemples ci-dessous :**

Slide 3:	**MOV R3, #34**
Slide 4:	**R6 = 26, MOV R2, R6**
Slide 5:	**R3 = 12, ADD R2, R3, #3**
Slide 6:	**R4 = 14, R6 = 7, ADD R1, R4, R6**
Slide 7:	**R2 = 0x200, LDRH R3, [R2, #3 * 2]**
Slide 8:	**R6 = 37, R5 = 0x 220, STRH R6, [R5,#4 * 2]**
Slide 9:	**PC = 0x140, Label = 0x150, B Label**