



MOALU

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Michele Pugno - 830513
Federica di Lauro - 829470

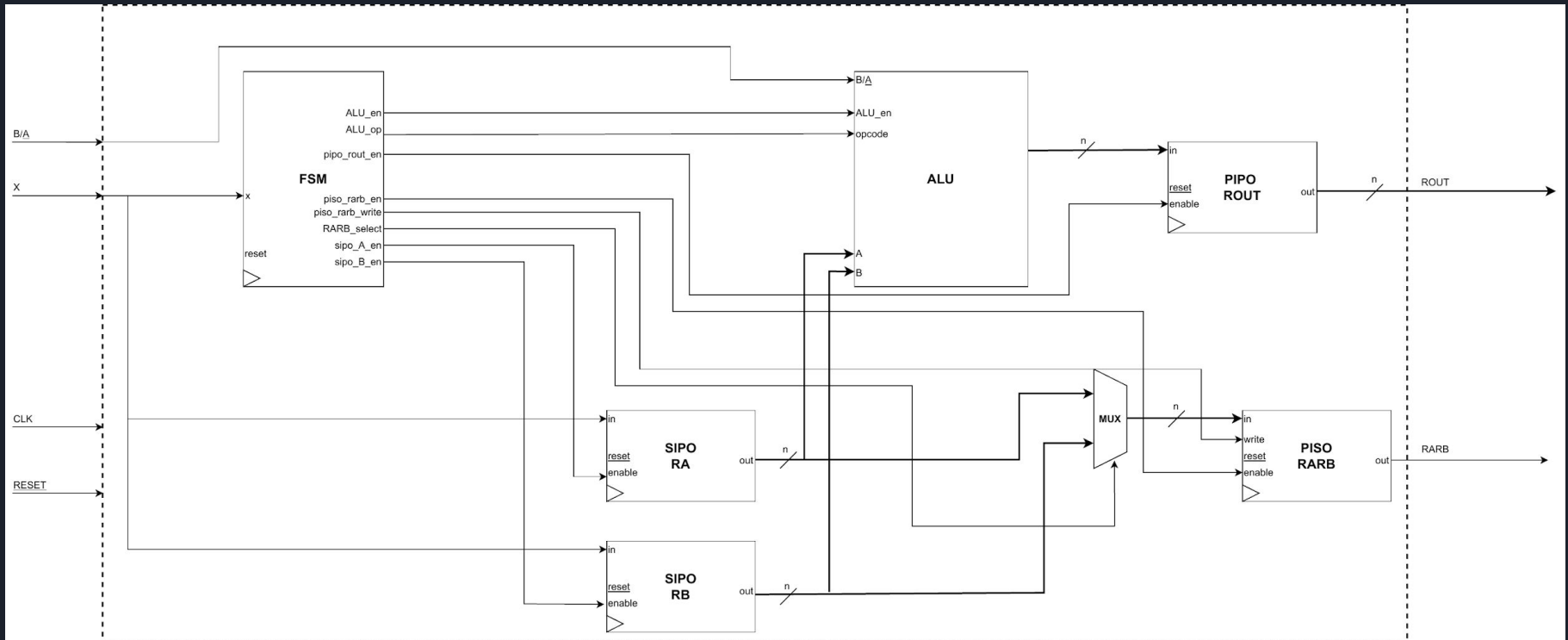


Introduzione

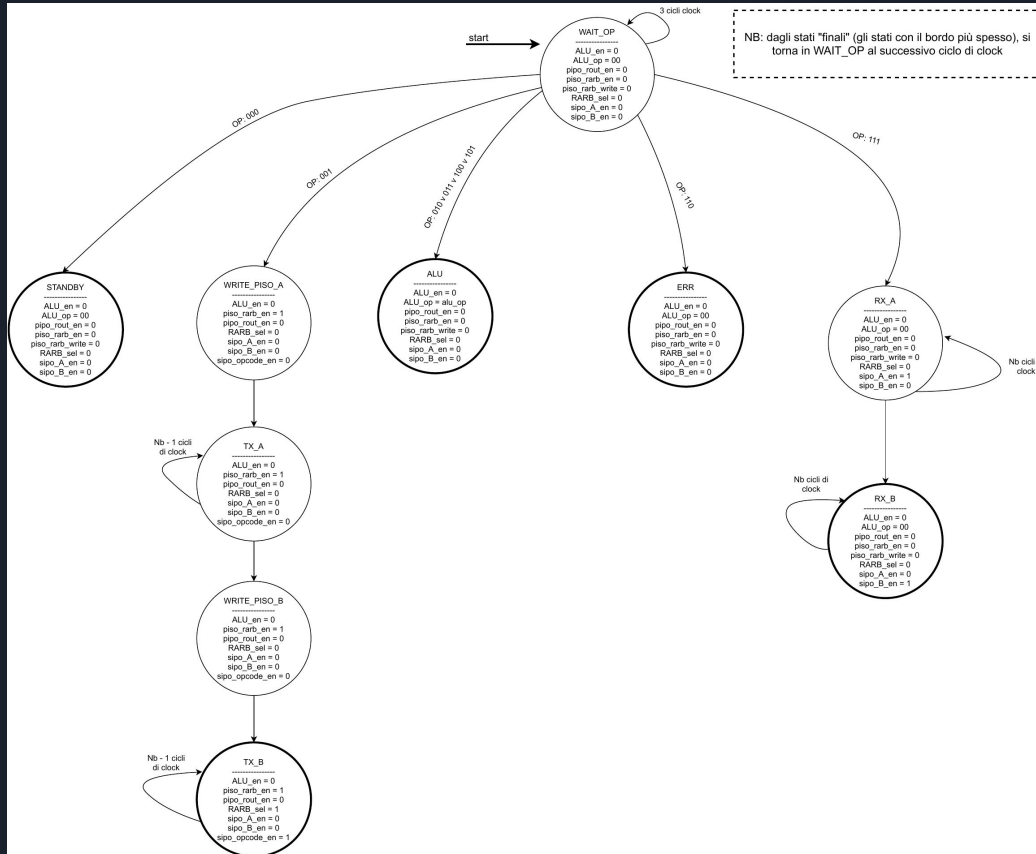
Multi-Operation ALU (MOALU) è un sistema che:

- riceve in input seriale 3 bit di OP-code.
- riceve in input seriale $2 \cdot N_b$ bit di dati, che salva in due registri A e B.
- effettua varie operazioni aritmetico-logiche (ADD, C2, SUB, COMP) su A e B, salvando l'output in un registro ROUT di tipo PIPO.
- può trasmettere serialmente in output il contenuto dei registri A e B.

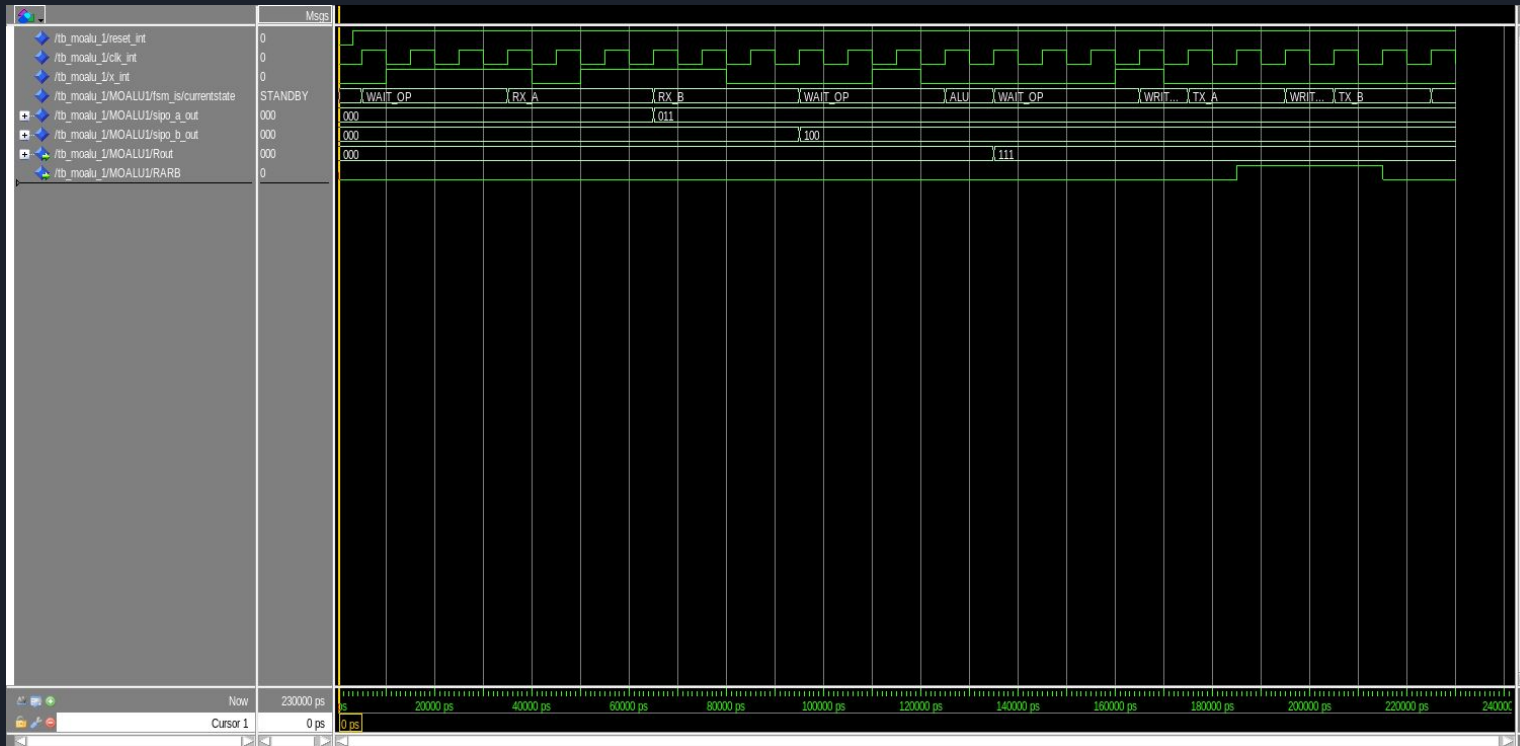
Diagramma a Blocchi



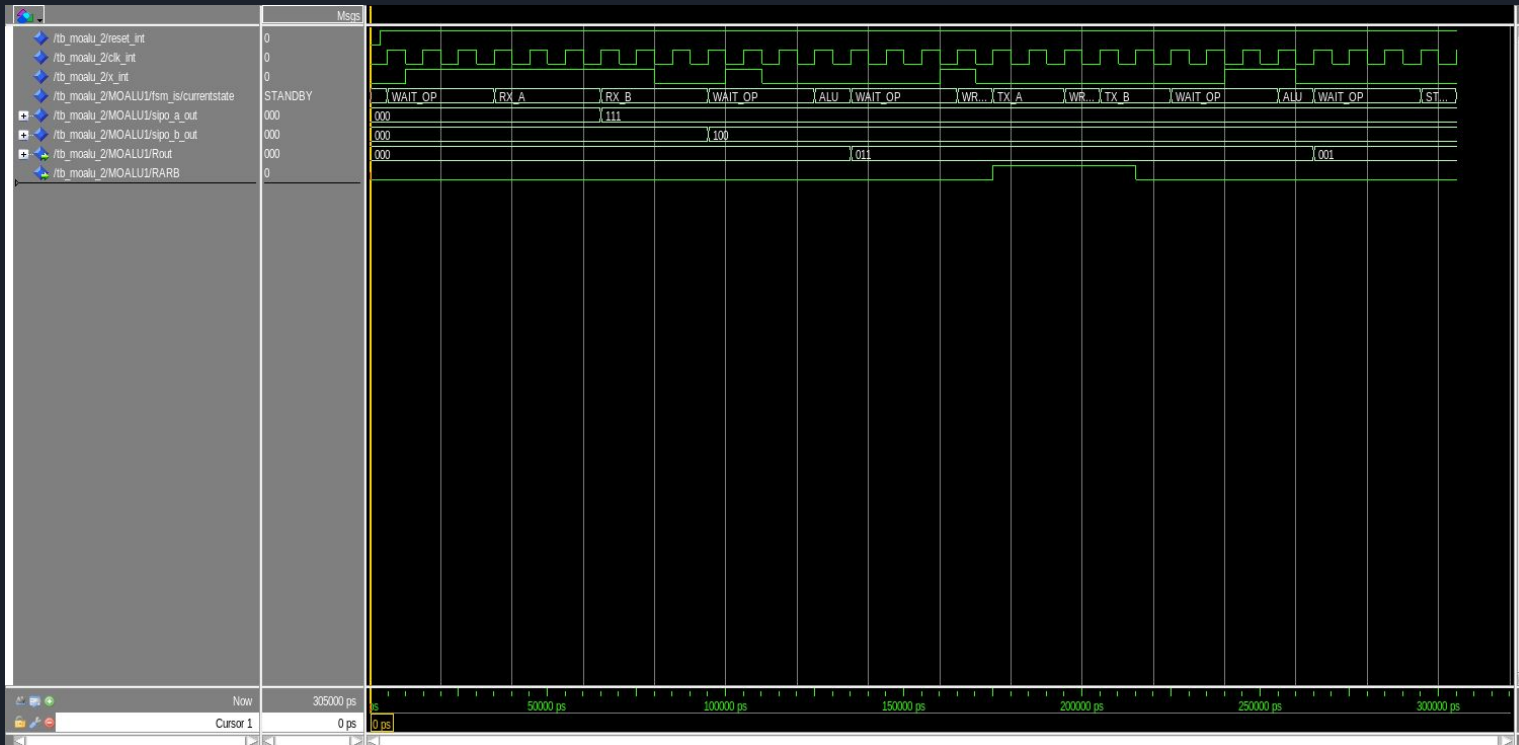
Finite State Machine



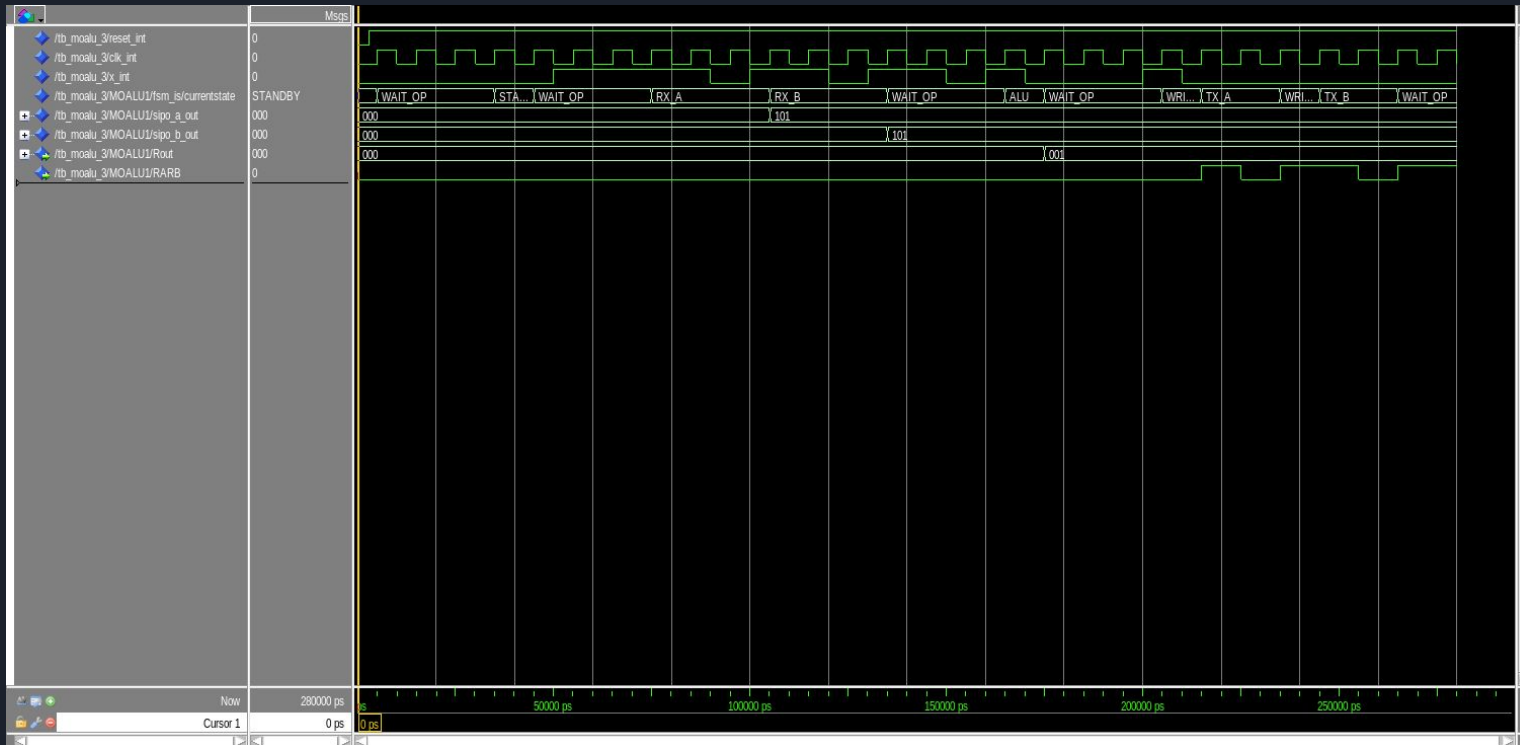
Test Bench 1



Test Bench 2



Test Bench 3





Grazie!

