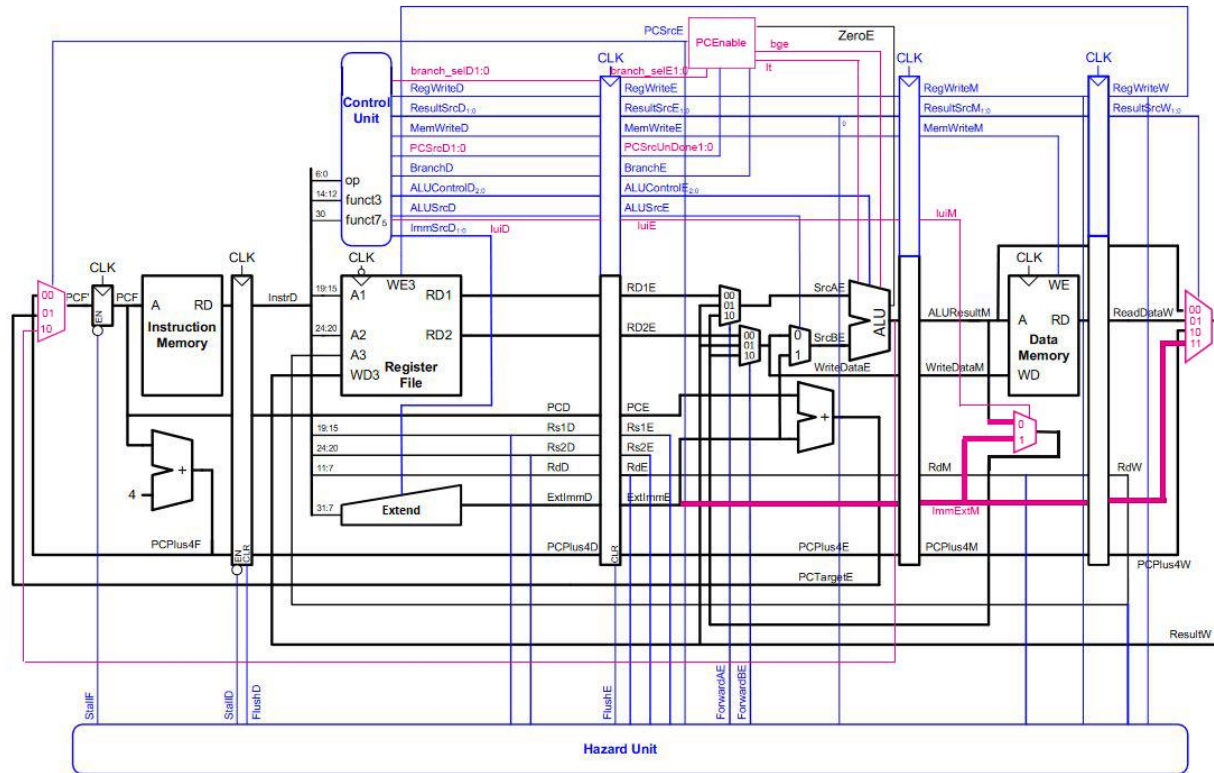


Computer Architecture – CA4 (RISC-V PipeLine Design)– Report

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DataPath For PipeLined RISC-V (Code included)

Test : writing assembly code to find lowest Data in a array of numbers.

Instruction	
addi X2, Zero, -1	#Loading X2 with Maximum number Available
addi X3, Zero, Zero	#Loading X3 (Array index) with 0
addi X4, Zero, 40	#Loading X4 (Max number of loop)
FOR : bge X3, X4, END-FOR	#LOOP
Lw t1, A[X3]	#Loading Array number X3
Bltn X2, t1, END-IF	#Check if lower than 16'b1
add X2, Zero, t1	#Replace Array number with 16'b1 if lower
END-IF: addi X3, X3, 4	#Increment index
Jal rd, FOR	#Restart Loop
END-FOR	#END Programm

