

A6

Due

10 Oct 2022 at 10:14

Points

1

Questions

1

Available

10 Oct 2022 at 10:04 - 10 Oct 2022 at 10:14

10 minutes

Time limit

10 Minutes

This quiz was locked 10 Oct 2022 at 10:14.

Attempt history

	Attempt	Time	Score
LATEST	Attempt 1	2 minutes	1 out of 1

Score for this quiz: **1** out of 1
Submitted 10 Oct 2022 at 10:06
This attempt took 2 minutes.

Submission details:	
Time:	2 minutes
Current score:	1 out of 1
Kept score:	1 out of 1

Question 11 / 1 pts

UNROLL LOOP 7 TIMES--VLIW PROGRAM:

Clock	MemOp1	MemOp2	FPOp1	FPOp2	Int/BROp
1	L.D F0,0(R1)	L.D F6,-8(R1)			
2	L.D F10,-16(R1)	L.D F14,-24(R1)			
3	L.D F18,-32(R1)	L.D F22,-40(R1)	ADD.D F4,F0,F2	ADD.D F8,F6,F2	
4	L.D F26,-48(R1)		ADD.D F12,F10,F2	ADD.D F16,F14,F2	
5			ADD.D F20,F18,F2	ADD.D F24,F22,F2	
6	S.D 0(R1),F4	S.D -8(R1),F8	ADD.D F28,F26,F2		SUBI R1,R1,#56
7	S.D 40(R1),F12	S.D 32(R1),F16			BNE R1,R2,Clock1
8	S.D 24(R1),F20	S.D 16(R1),F24			
9	S.D 8(R1),F28				

Which of the following statement is correct assuming that all instructions take a single cycle to execute?

Correct!

- ☒ The number of unused slots is 22
- ☐ The number of unused slots is 23
- ☐ IPC=5
- ☐ The number of unused slots is 45