Risk - V Superscalar Simulation

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1. Program Information

Index	Instruction
0000	0x430820
0001	0xa62022
0002	0xe83820
0003	0x12a5022

2. Performance Analysis

Metric	Value
Total Cycles	7
Instructions	4
CPI	1.75
Efficiency	28.6%

3. Pipeline Stages Analysis

Stage	Instructions
IF	4392992, 10887202
ID	NOP, NOP
EX	NOP, NOP
MEM	NOP, NOP
WB	NOP, NOP

Stage	Instructions
IF	15218720, 19550242
ID	ADD, SUB

EX	NOP, NOP
MEM	NOP, NOP
WB	NOP, NOP

Stage	Instructions
IF	NOP, NOP
ID	ADD, SUB
EX	ADD, SUB
MEM	NOP, NOP
WB	NOP, NOP

Stage	Instructions
IF	NOP, NOP
ID	NOP, NOP
EX	ADD, SUB
MEM	ADD, SUB
WB	NOP, NOP

Stage	Instructions
IF	NOP, NOP
ID	NOP, NOP
EX	NOP, NOP
MEM	ADD, SUB
WB	ADD, SUB

Stage	Instructions
IF	NOP, NOP
ID	NOP, NOP
EX	NOP, NOP
MEM	NOP, NOP

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WB	ADD, SUB

Stage	Instructions
IF	NOP, NOP
ID	NOP, NOP
EX	NOP, NOP
MEM	NOP, NOP
WB	NOP, NOP