

Resource Sharing

Thread-1

R1 ← R1 + R2
R3 ← R1 + R4
R5 ← R1 + R3

Instr Fetch

P65 ← P1 + P2
P66 ← P65 + P4
P67 ← P65 + P66

Instr Rename

Instr Fetch

R2 ← R1 + R2
R5 ← R1 + R2
R3 ← R5 + R3

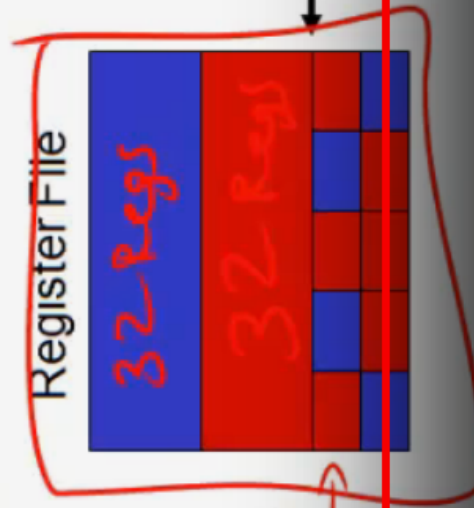
Instr Rename

P76 ← P33 + P34
P77 ← P33 + P76
P78 ← P77 + P35

Issue Queue

P65 ← P1 + P2 ✓
P66 ← P65 + P4
P67 ← P65 + P66 ✓
P76 ← P33 + P34 ✓
P77 ← P33 + P76 ✓
P78 ← P77 + P35 ✓

Thread-2



P65 - P128

FU

FU

FU

FU