

Thursday, February 7, 2019 2:16 PM

- Go over test
- How to improve performance of control hazards
- Summary of hazards

Control hazards

Right h
ho f
for clw

```

a1, 8
lw
a2,
0(a1)
j 8
lw
a2,
0(t0)

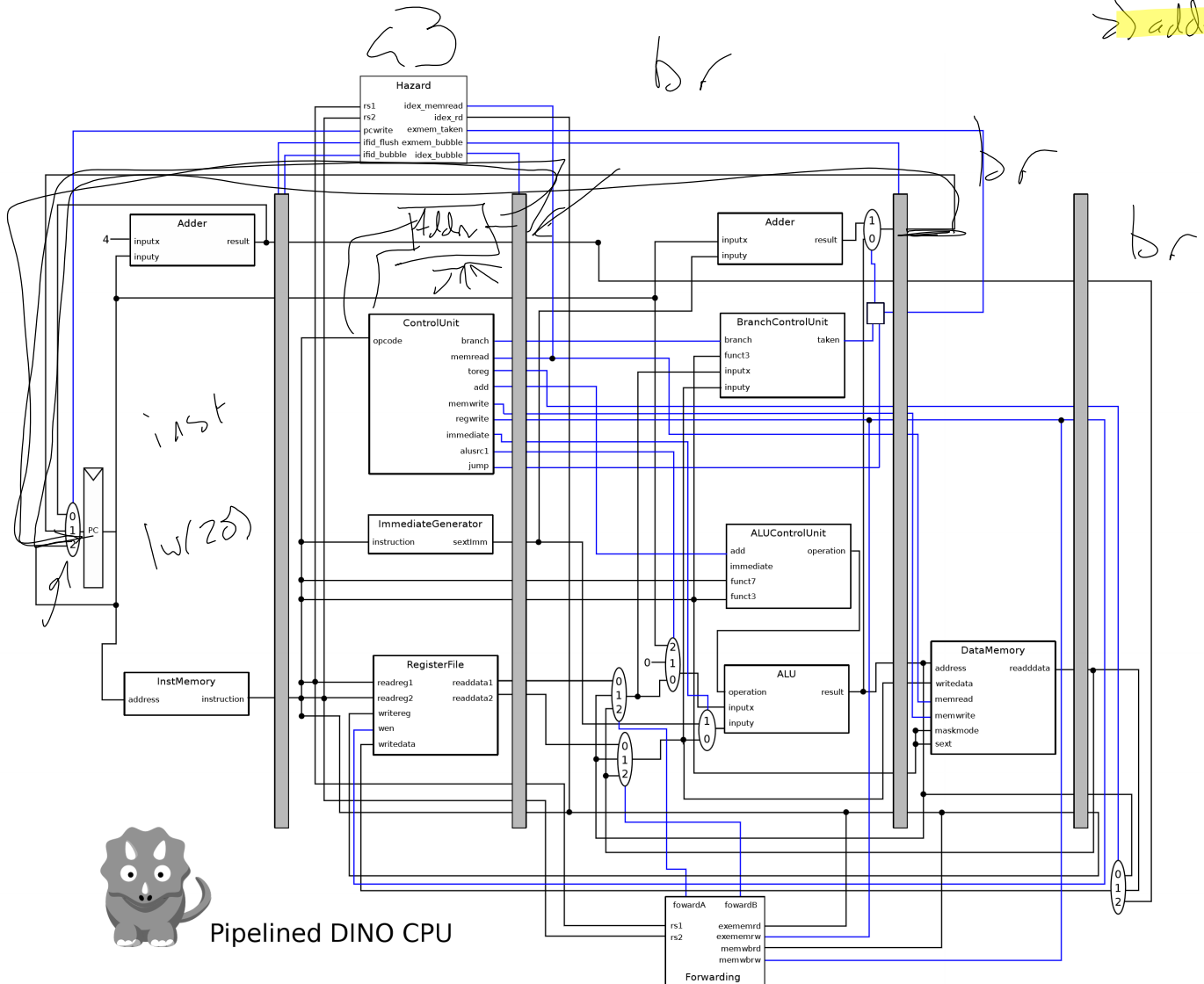
```

Squash

Pen

branch pred needs
2 infos

→ taken
→ addr



Pipelined DINO CPU

Branch prediction

1000 insts 20% branches 75% taken 25% not taken

Branches resolved in 4th cycle + 2 cycles for target
by addr jumping to

Always tak

Hazard summary