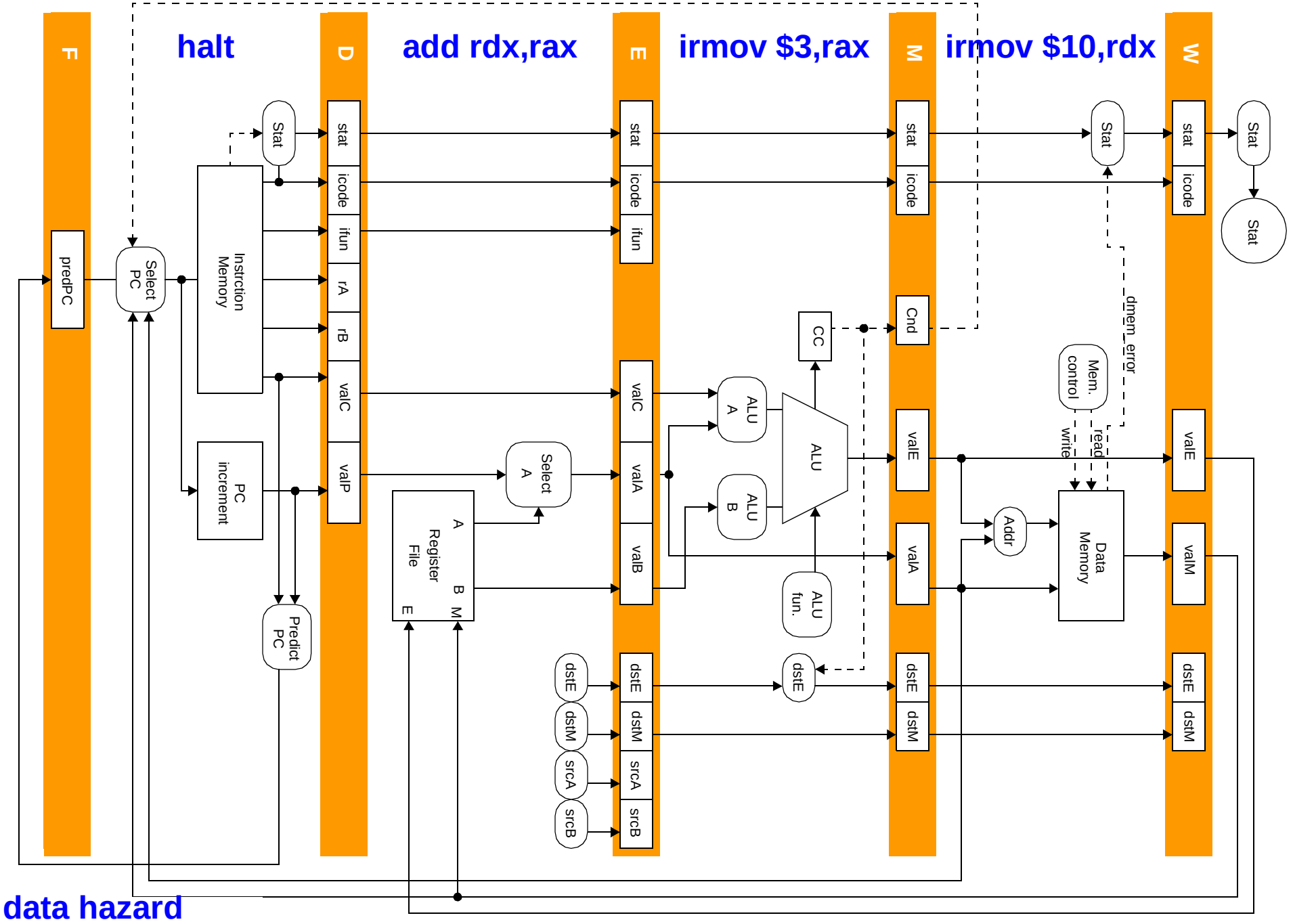
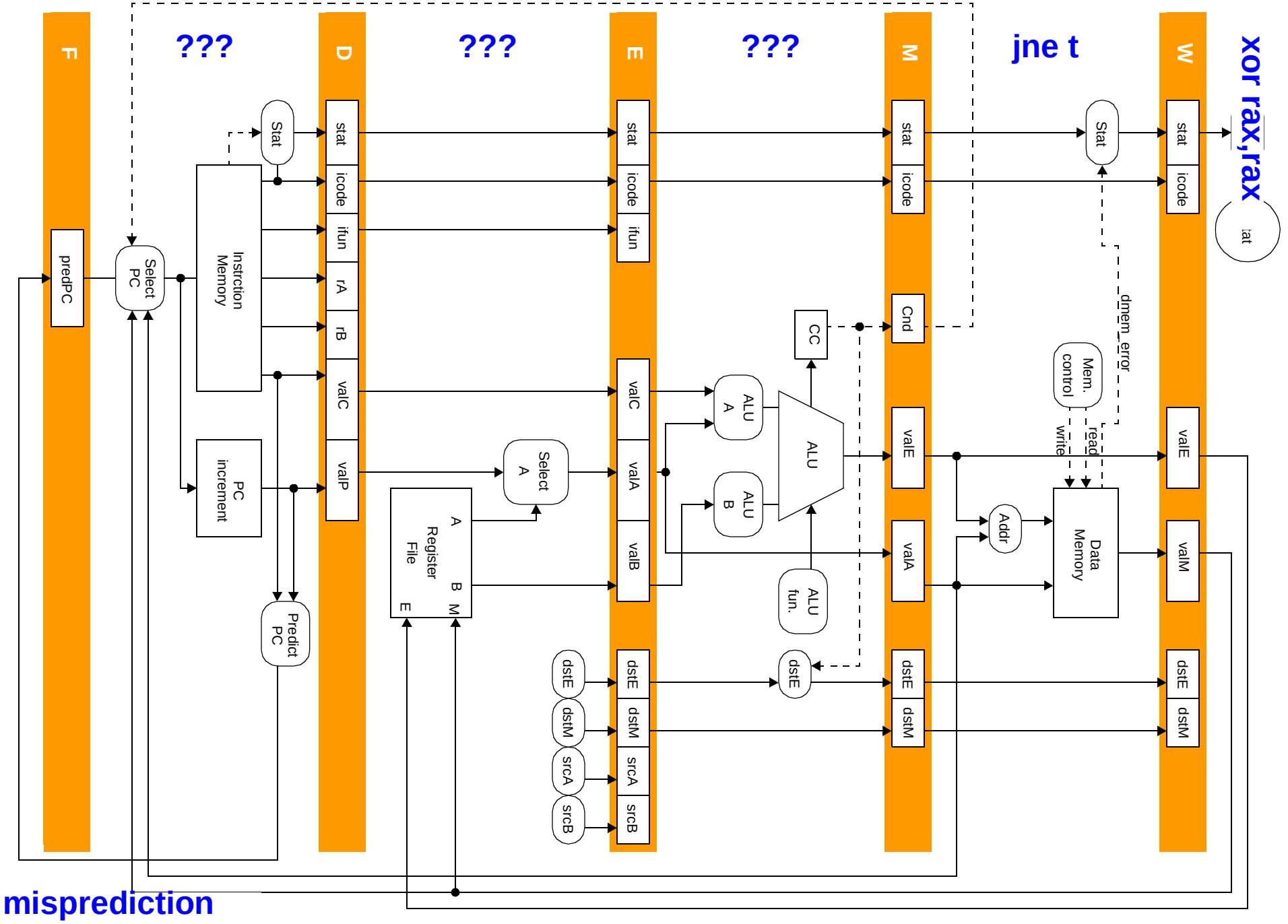
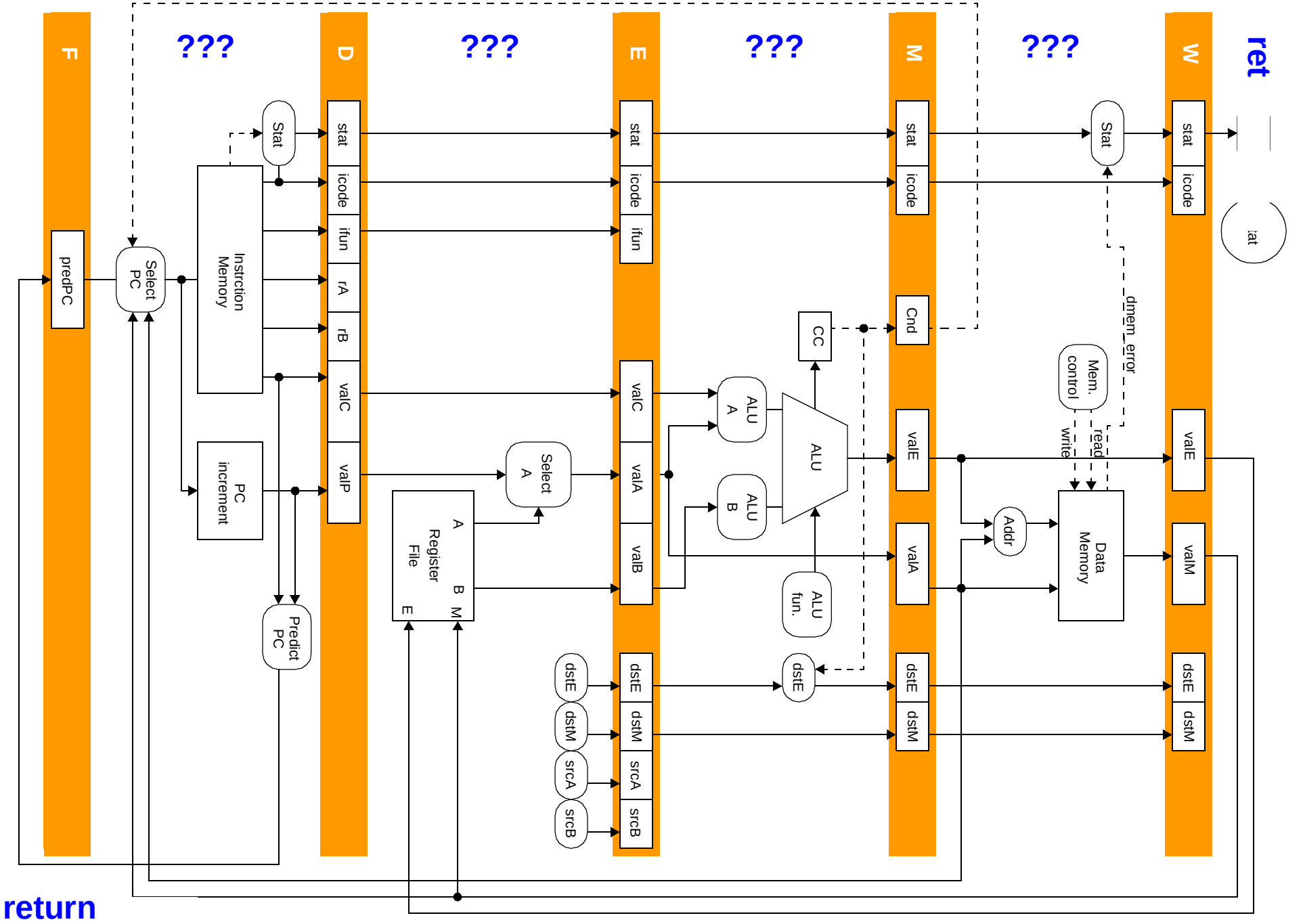

halt
add rdx,rax
irmov $3,rax
irmov $10,rdx
F
D
E
M
W
predPC
Select PC
Instrction Memory
PC increment
Predict PC
Stat
stat
icode
ifun
rA
rB
valC
valP
Register File
Select A
valA
valB
dstE
dstM
srcA
srcB
CC
ALU A
ALU B
ALU
ALU fun.
Cnd
valE
Addr
Data Memory
Mem. control
dmem_error
read
write
valM
data hazard



misprediction


ret
???
???
???
???
F
D
E
M
W
predPC
Select PC
Instrction Memory
PC increment
Predict PC
Stat
stat
icode
ifun
rA
rB
valC
valP
Register File
Select A
valA
valB
ALU A
ALU B
ALU
ALU fun.
CC
dstE
dstM
srcA
srcB
Cnd
valE
Addr
Mem. control
dmem_error
read
write
Data Memory
valM
return