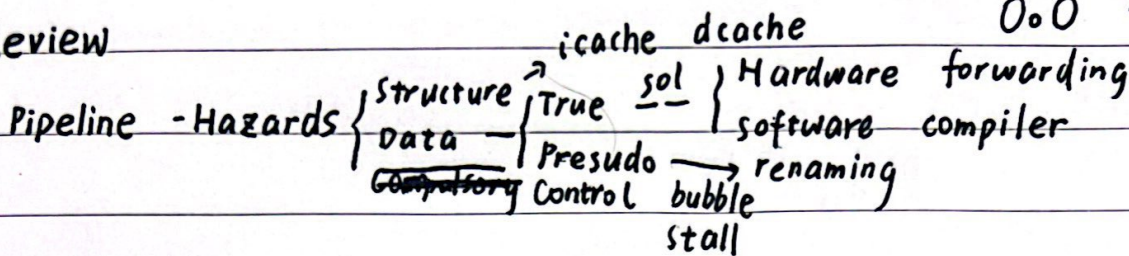


# Review



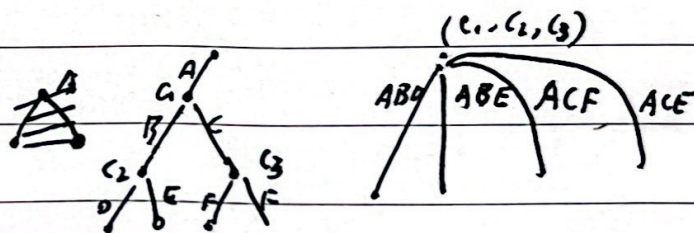
## Condition. Ex

消 control Hazard  
br ... delay slot      分支预测

Out-of-Order      乱序      interruption      Rob 解决问题  
Branch

Tomastlo      broadcast  
issue - ex - commit  
多个 function unit

编译方法 super block



循环展开  
loop unrolling 减少跳转

$$\text{Cache (locality)} \quad \text{AMAT}_{\#} = \underline{T_{hit}} + \eta_{\text{mis-rate}} \times T_{\text{penalty}}$$

by Marrice Wilkes      小者快      多级 Cache

三种方法

$$\text{AMAT}_{\#} = T_{\text{addr}} + \underline{T_{\text{access}}} + T_{\text{trans}}$$

Multi bank