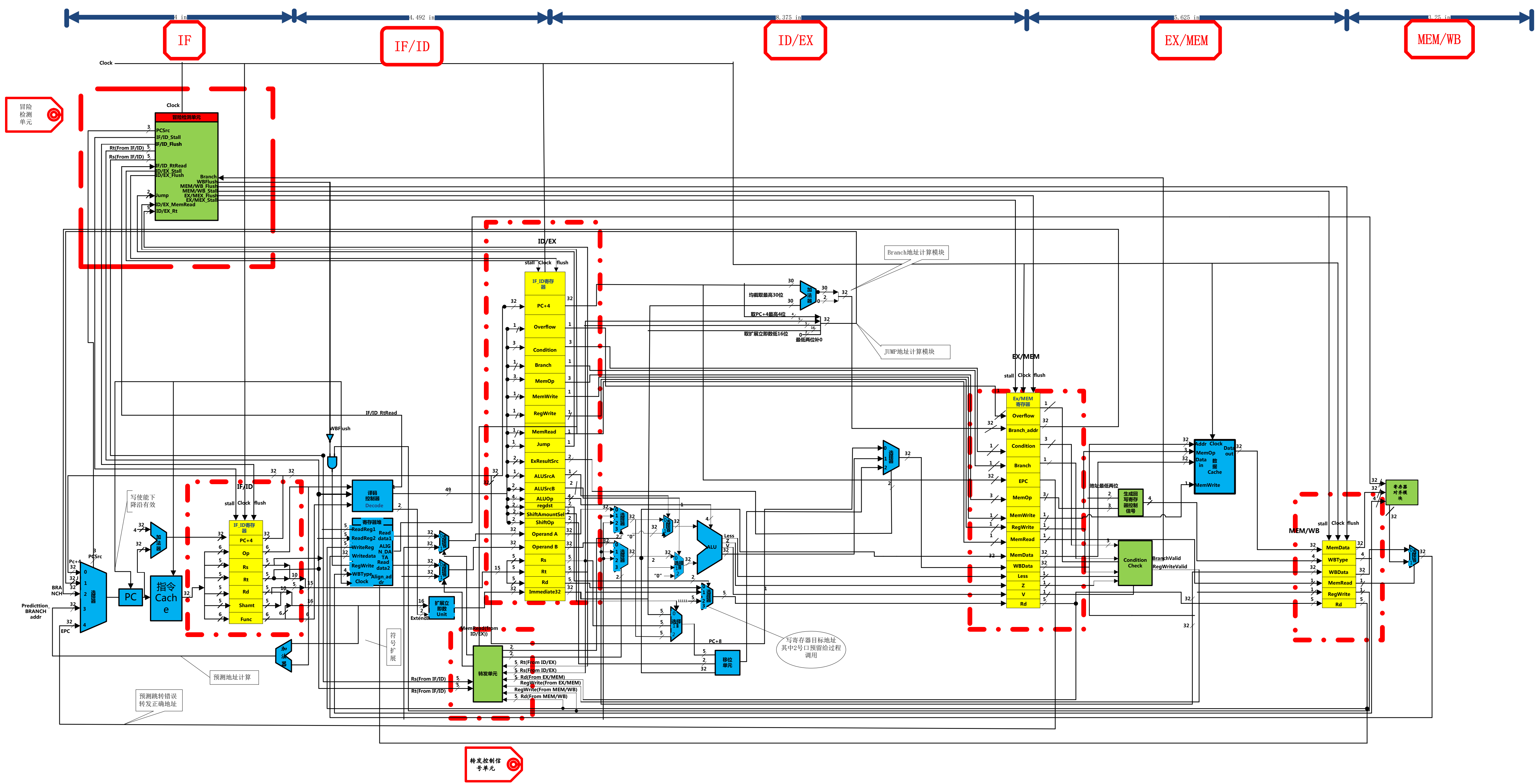
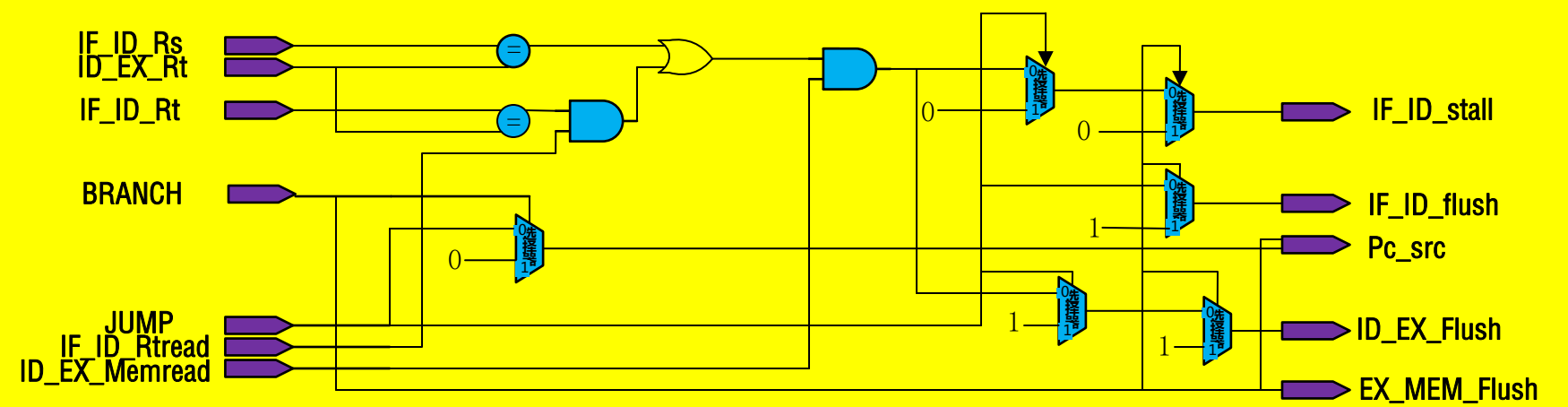


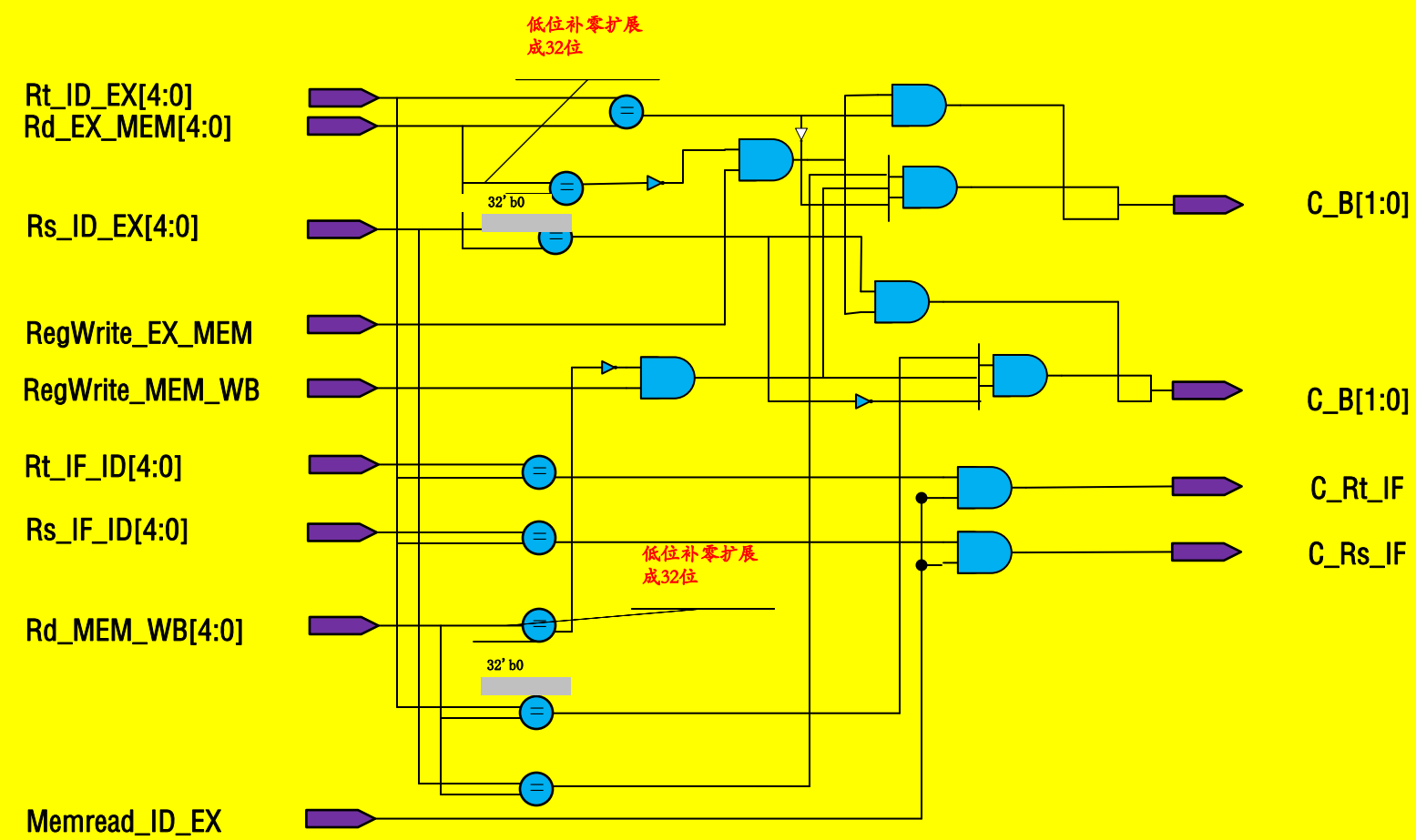
- 流水段寄存器
- 基本功能部件或模块
- 创新部件或模块
- 流水线重要部件
- 冒险控制单元



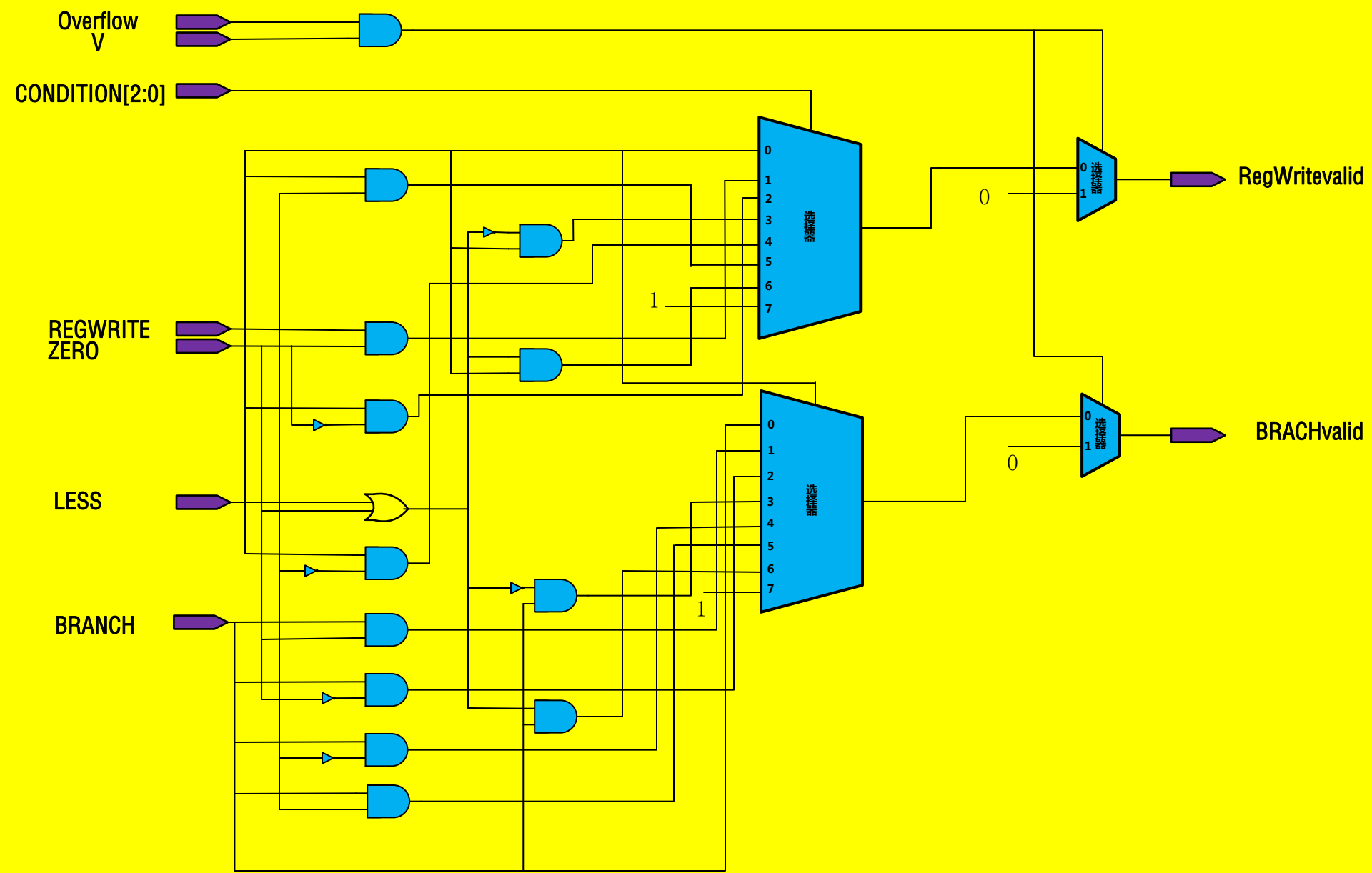
冒险检测模块：检测LOAD\_USE冒险，处理J型以及BRANCH型指令



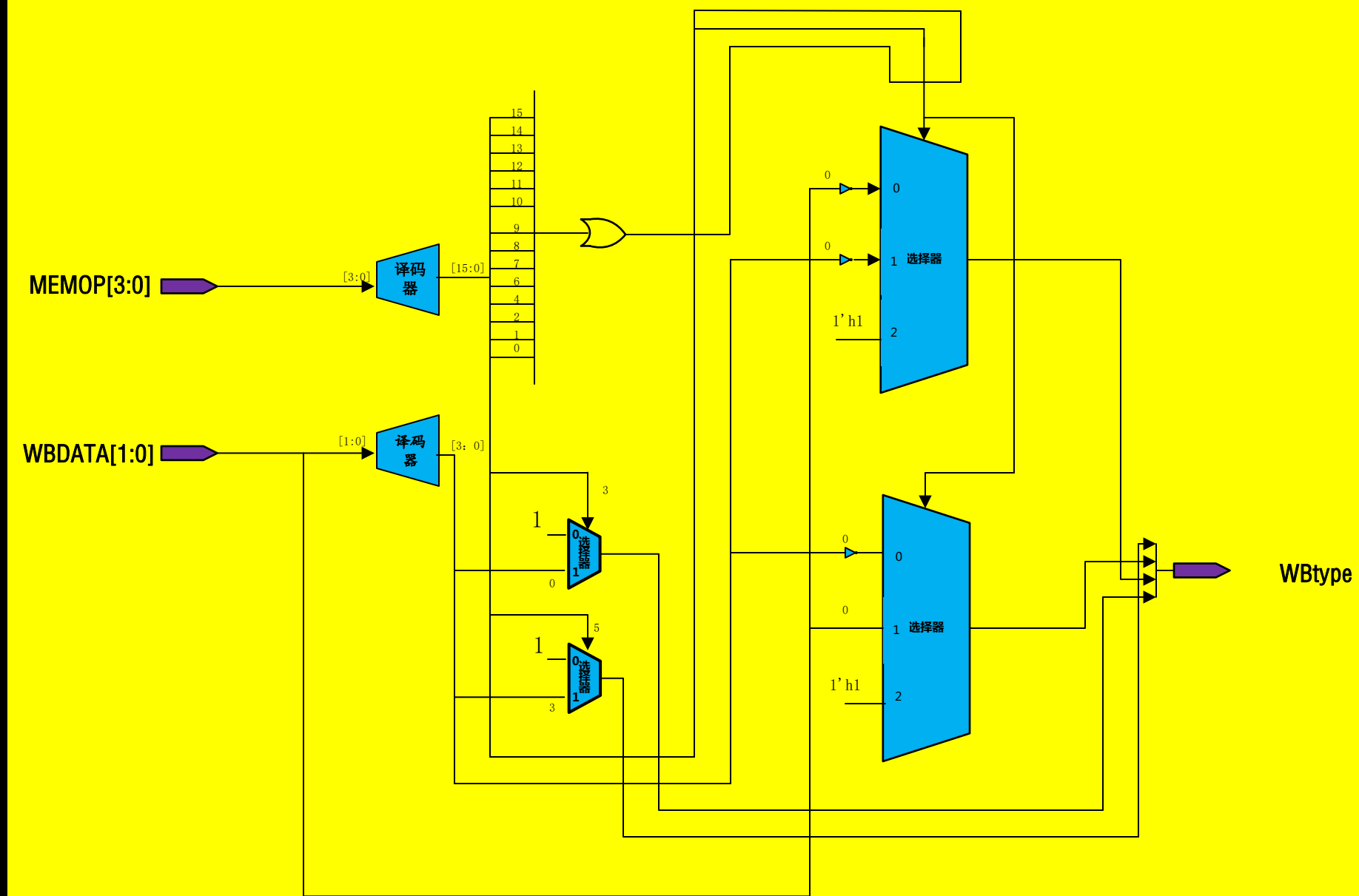
## 转发模块：处理数据冒险



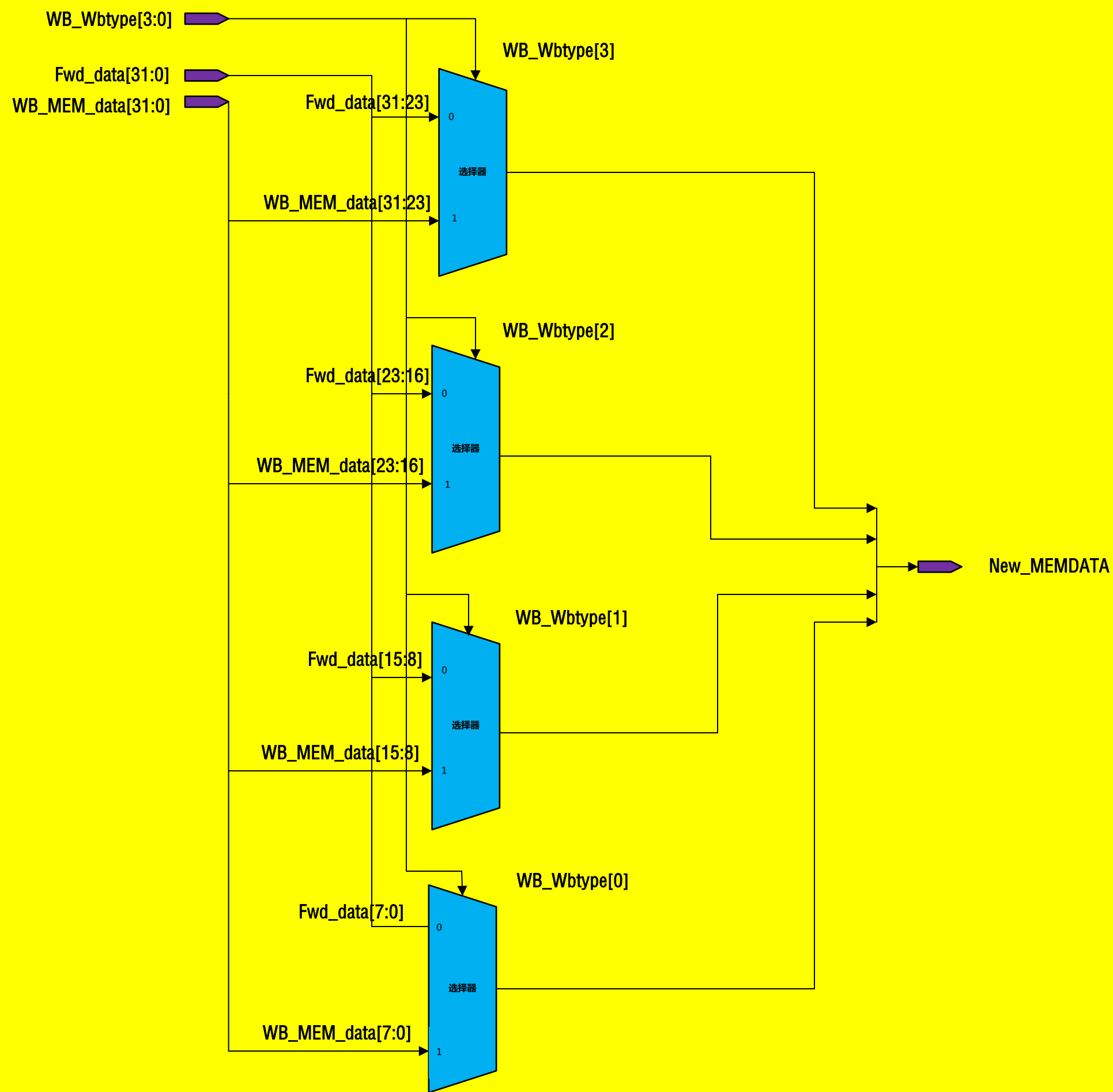
CONDITIONCHECK:跳转条件检测，回写条件检测

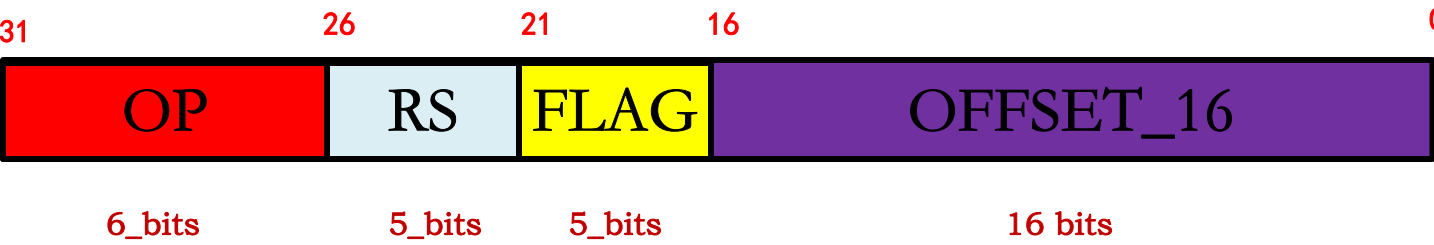
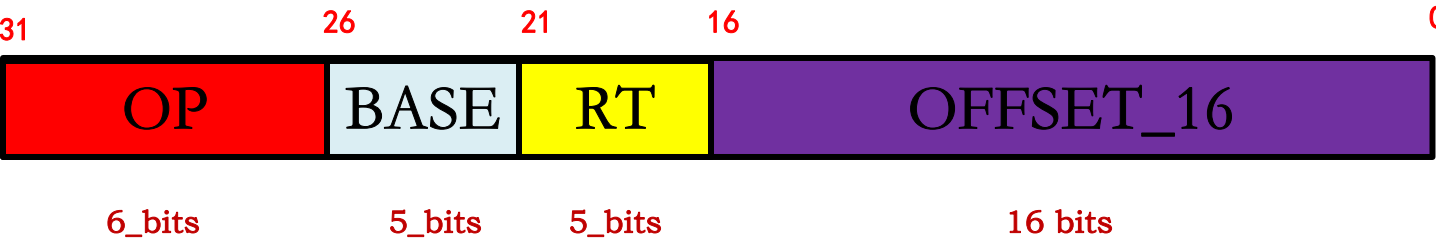
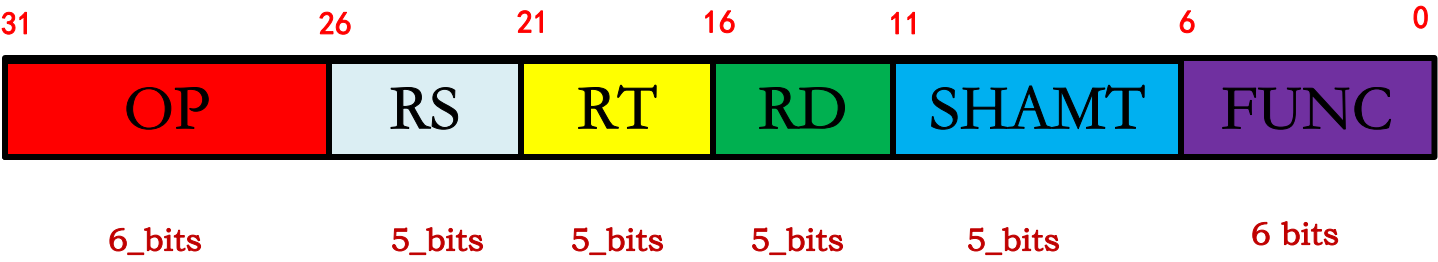
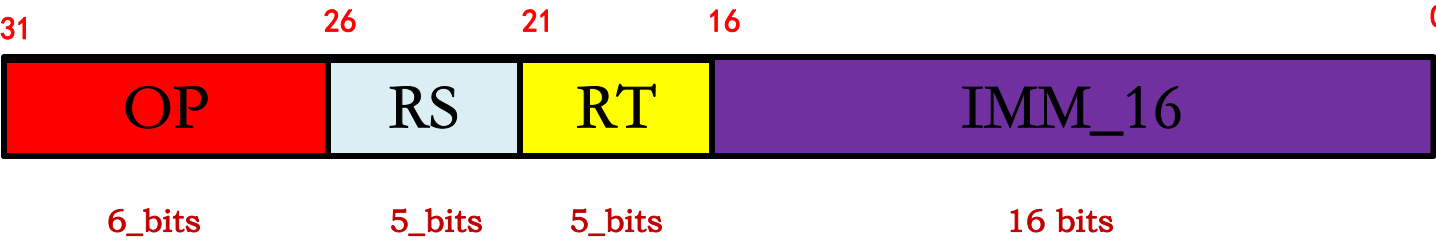


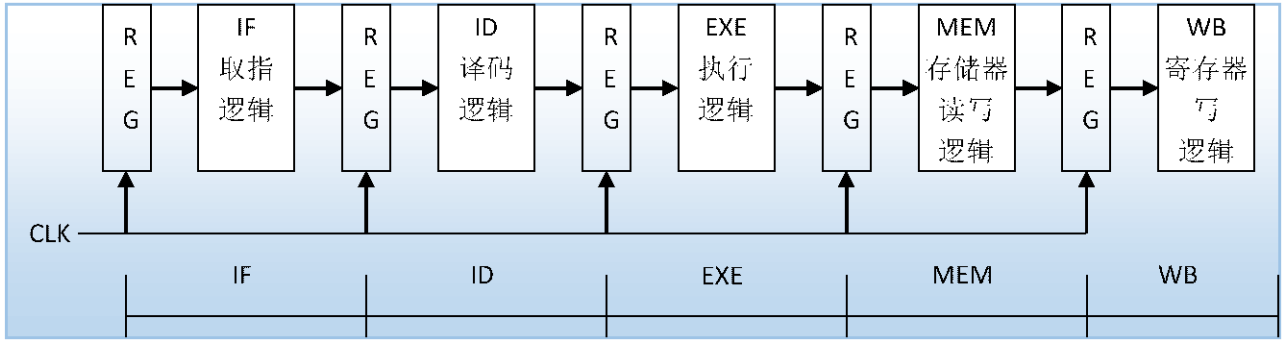
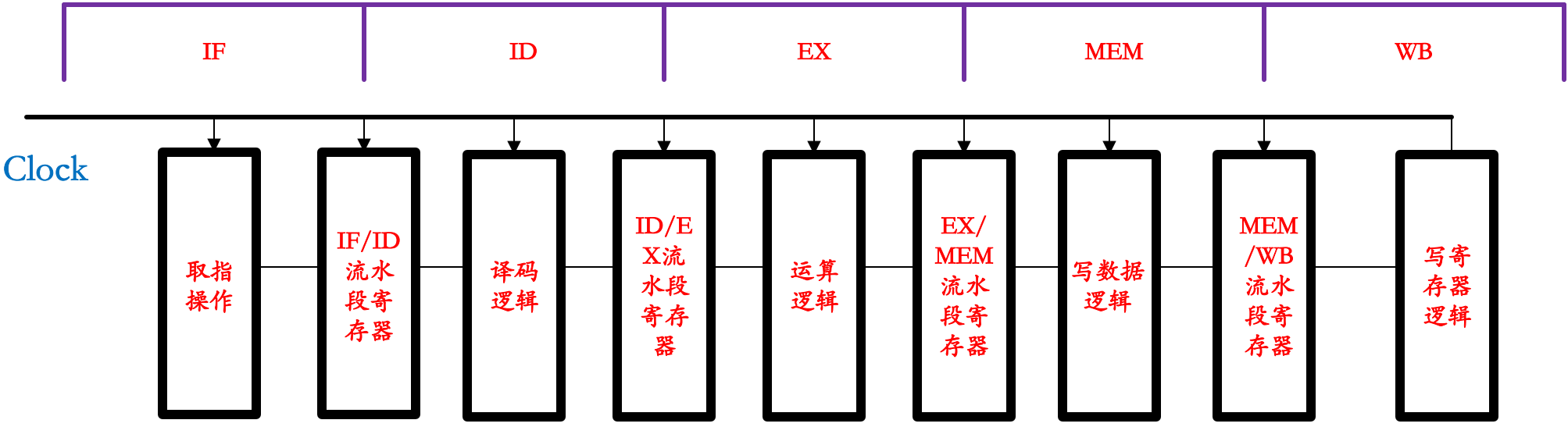
回写控制器：LW, LWR, LWL, LB, LH, LHU指令的回写控制信号



非对称存储指令数据对齐模块

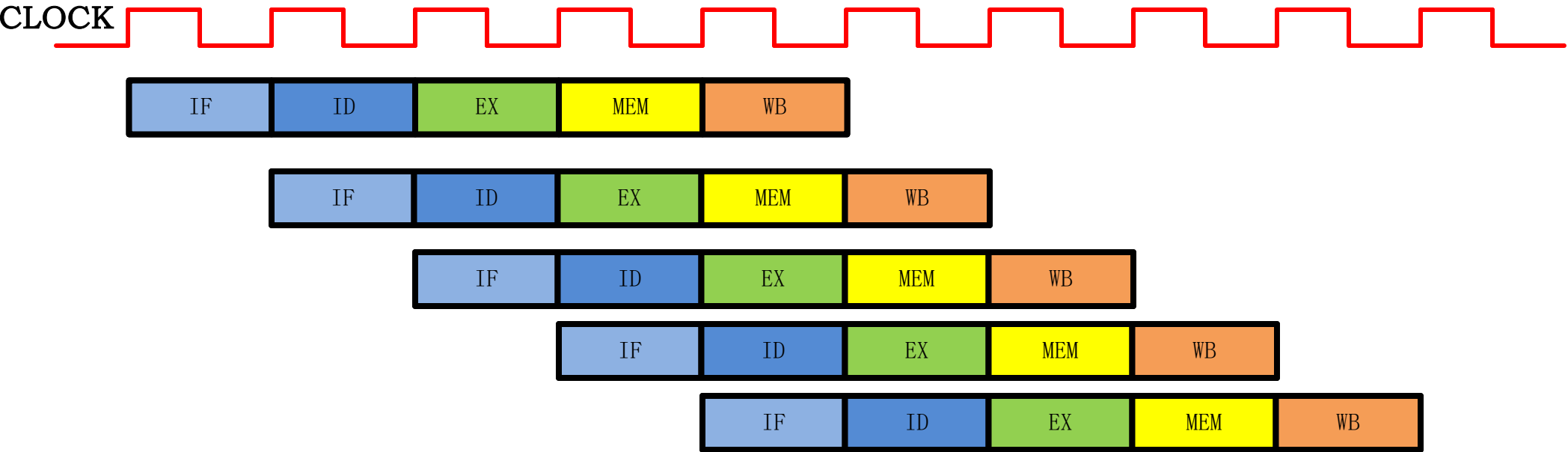




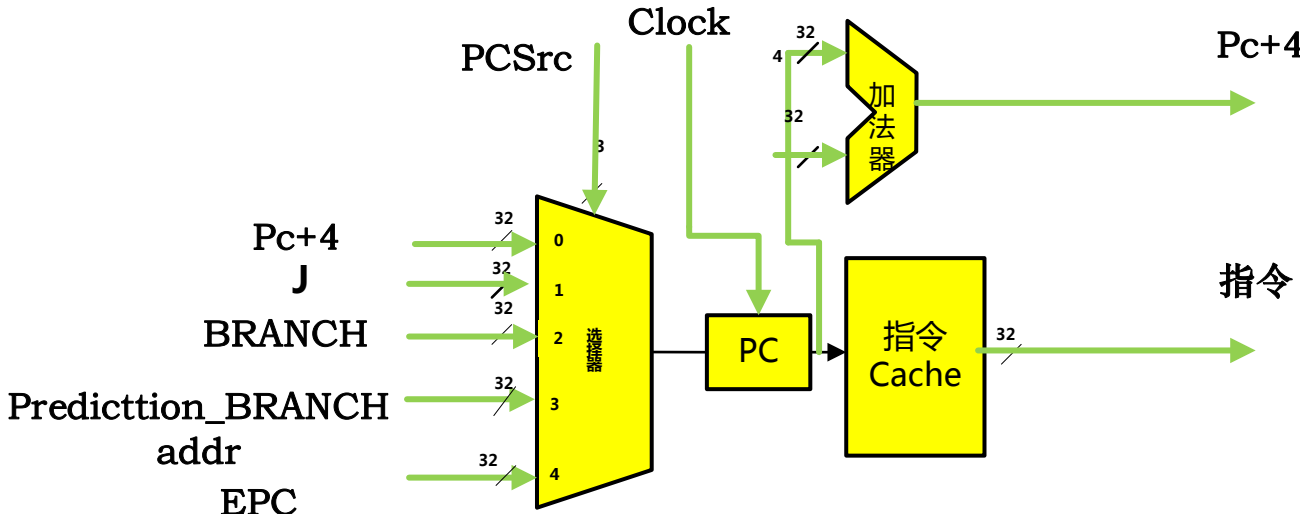




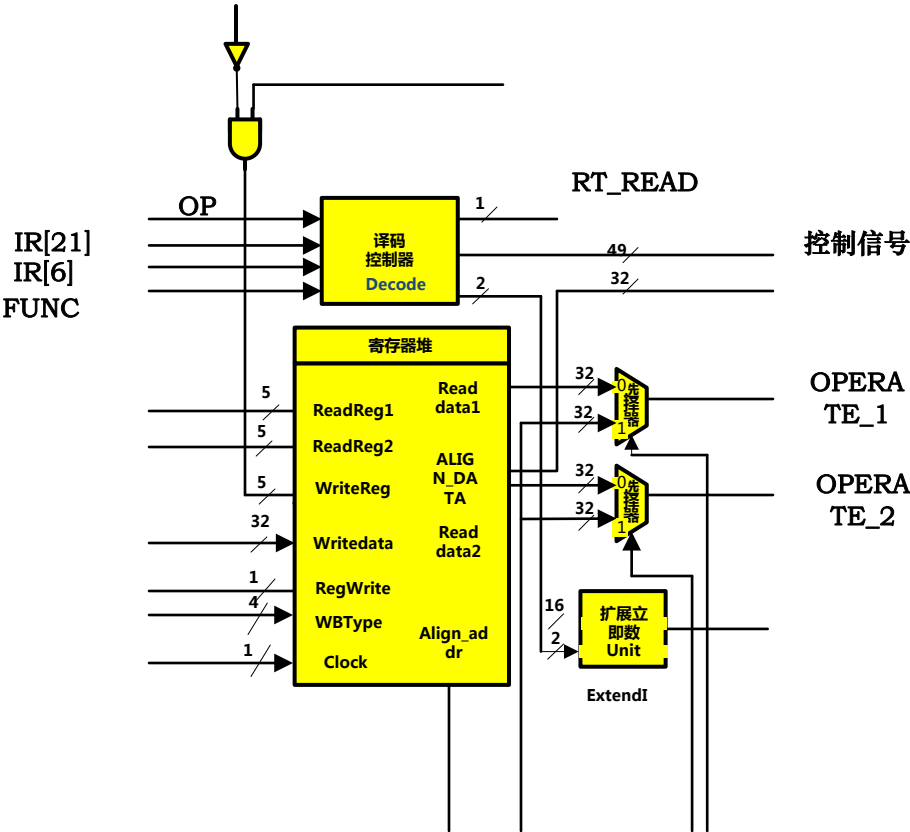
五级流水线示意图



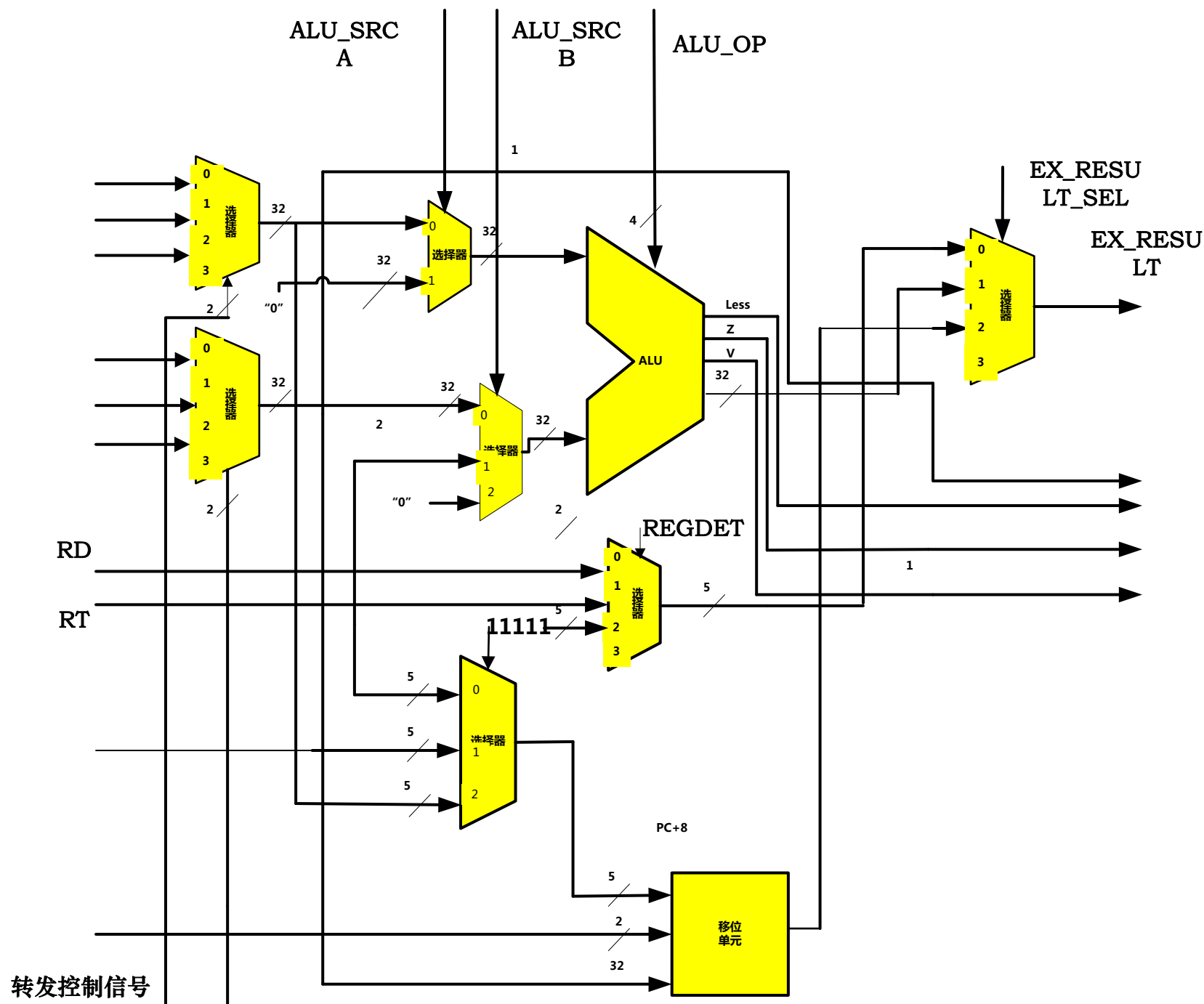
## 取指逻辑实现



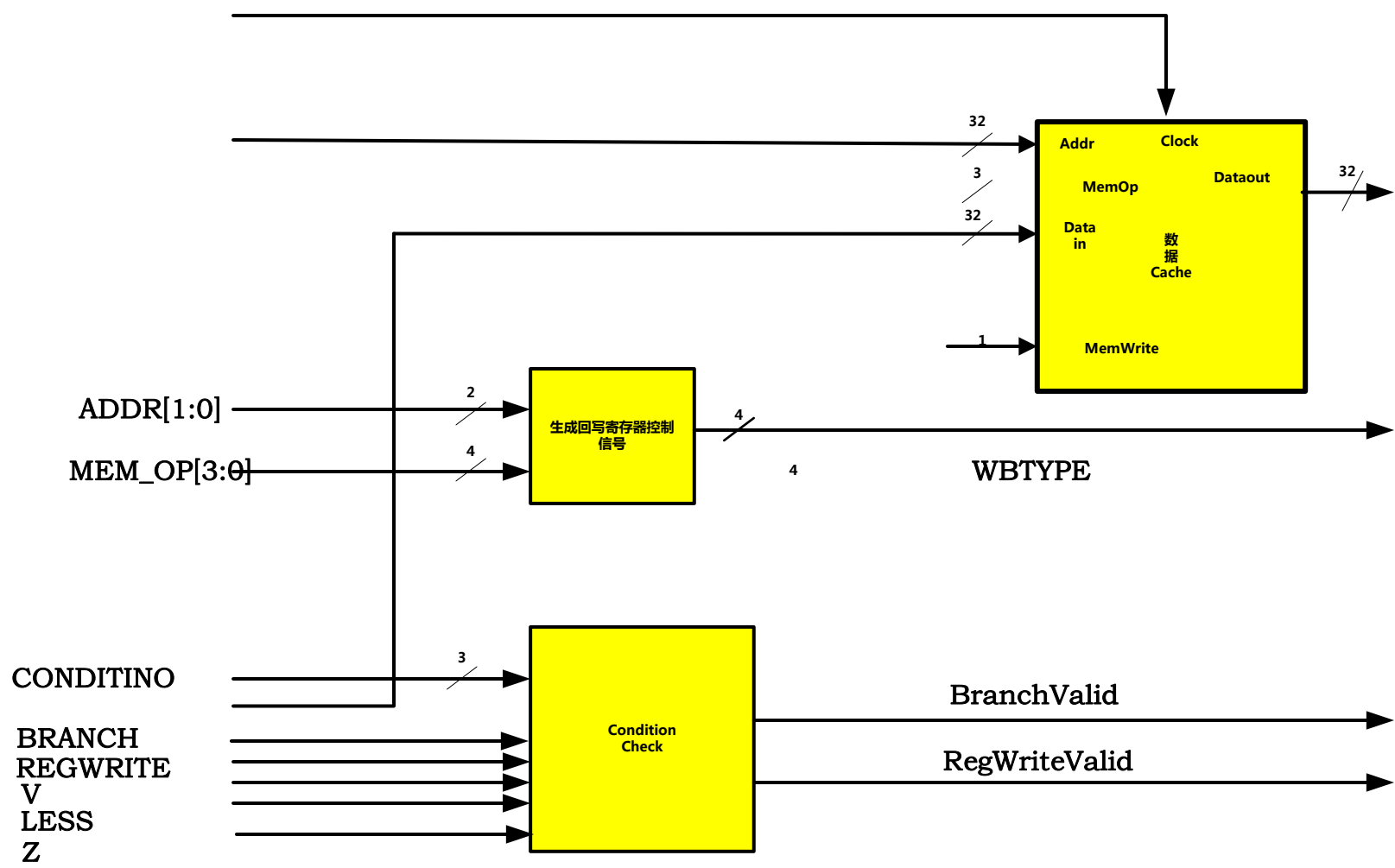
译码逻辑实现



运算逻辑实现



存储逻辑实现



回写逻辑实现

