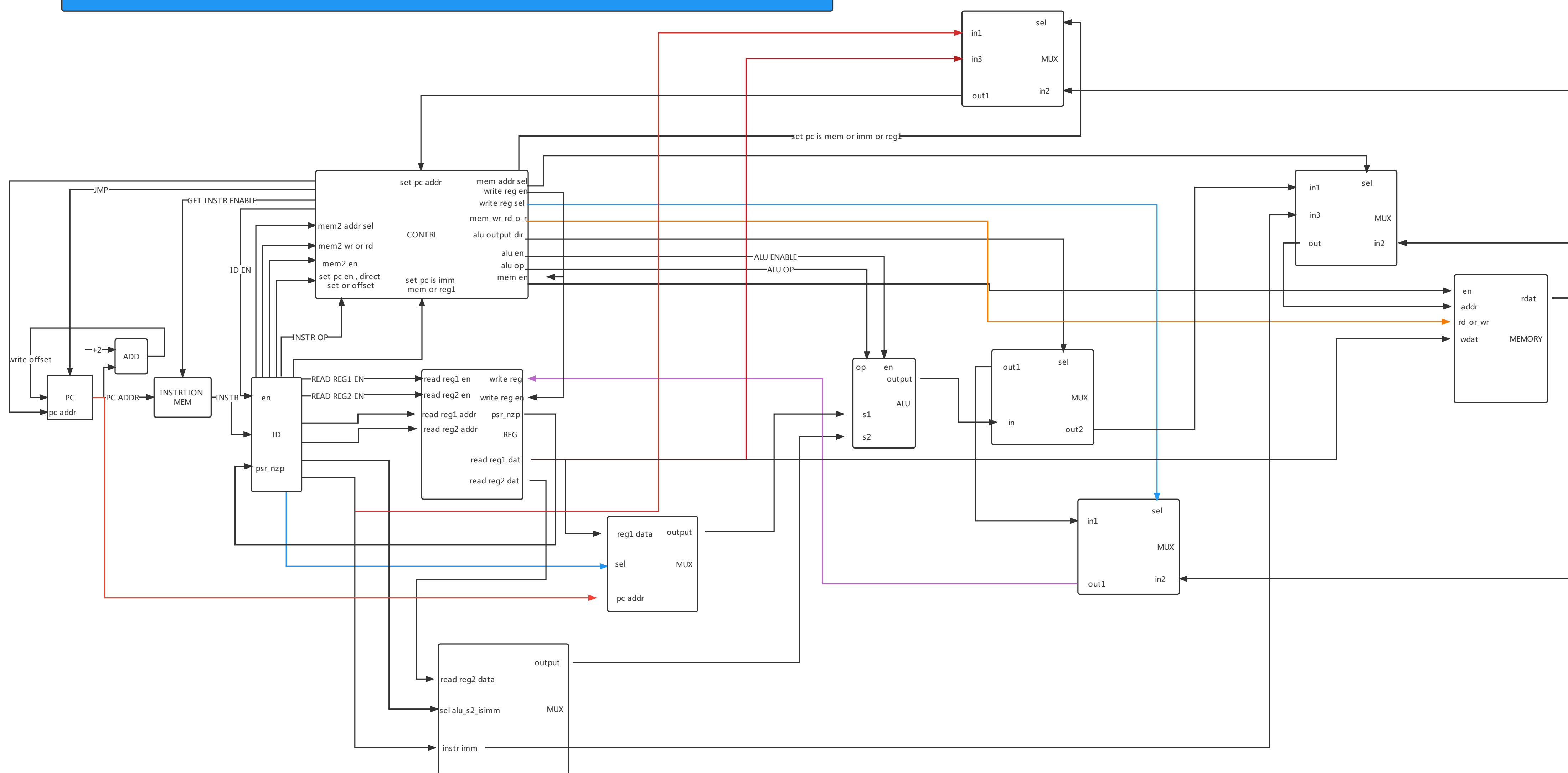


add memory access support



PP line support