Replacement Processor rbget s0, rb0 # get request ... # extra <set,tag> to <r2,r3> Replacement Cache FrontEnd mtrb s1, r2, 0 # build tag array reg Processor rbput rb1, s1 # send reg to tag array rbget s1, rb1 # wait resp ... # do pseudo-LRU Replacement Tag Array # r4 <- victim way mtrb s0, r4, 0 # build replacement req rbput rb0, s0 # send out request