Mutual Exclusion With Busy Waiting

Hardware Solution: The TSL Instruction

Lock the memory bus

enter_region:

TSL REGISTER,LOCK | copy lock to register and set lock to 1

CMP REGISTER,#0 | was lock zero?

JNE enter_region | if it was non zero, lock was set, so loop

RET | return to caller; critical region entered

leave_region:

MOVE LOCK,#0 | store a 0 in lock

RET | return to caller