

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