

```

procedure enter(int mName) {
    find descriptor for monitor mName;
    if (mLock == 1) {
        insert descriptor of executing at end of entry queue;
        executing = 0;
    }
    else
        mLock = 1;    # acquire exclusive access to mName
    dispatcher();
}

procedure exit(int mName) {
    find descriptor for monitor mName;
    if (entry queue not empty)
        move process from front of entry queue to rear of ready list;
    else
        mLock = 0;    # clear the lock
    dispatcher();
}

procedure wait(int mName; int cName) {
    find descriptor for condition variable cName;
    insert descriptor of executing at end of delay queue of cName;
    executing = 0;
    exit(mName);
}

procedure signal(int mName; int cName) {
    find descriptor for monitor mName;
    find descriptor for condition variable cName;
    if (delay queue not empty)
        move process from front of delay queue to rear of entry queue;
    dispatcher();
}

```

**Figure 6.6** Monitor kernel primitives.