

```
monitor Timer {
    int tod = 0;    ## invariant CLOCK -- see text
    cond check;    # signaled when tod has increased

    procedure delay(int interval) {
        int wake_time;
        wake_time = tod + interval;
        while (wake_time > tod) wait(check);
    }

    procedure tick() {
        tod = tod + 1;
        signal_all(check);
    }
}
```

**Figure 5.7** Interval timer with a covering condition.