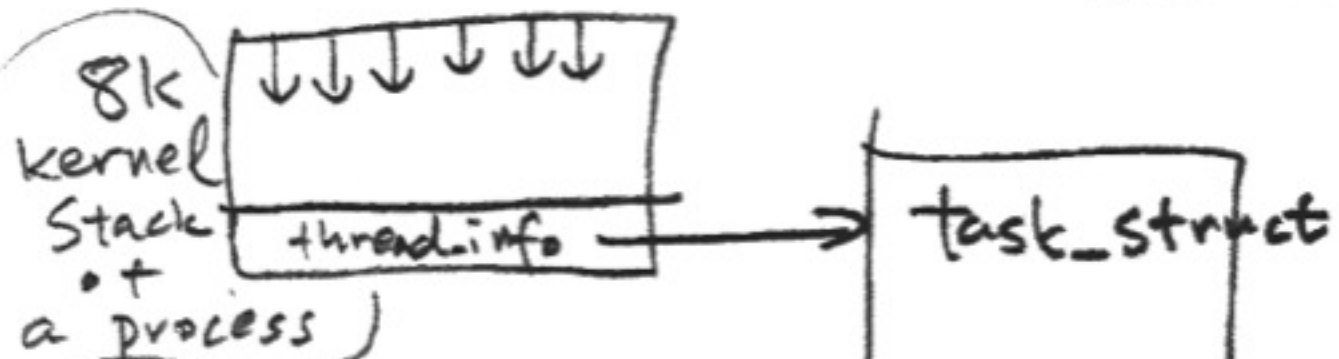


- Contains
- * kernel stack for each process
→ 4k or 8k.
 - * linked list of task_struct
↳ "tasks"
 - * At the bottom of each process's kernel stack, you have "thread_info" struct.



movl \$-8192, %eax
andl %esp, %eax

Enables quick access to your own task_struct

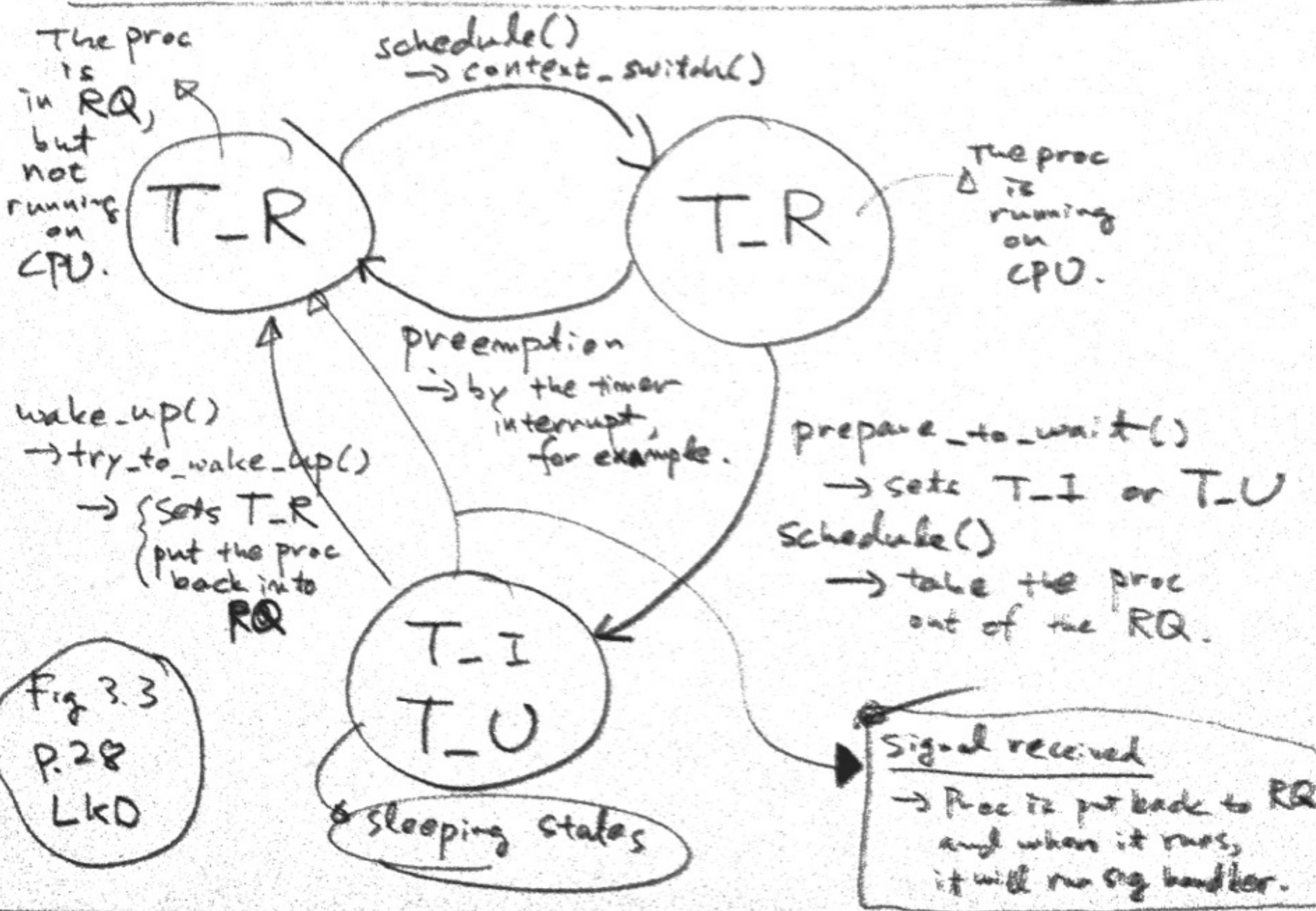
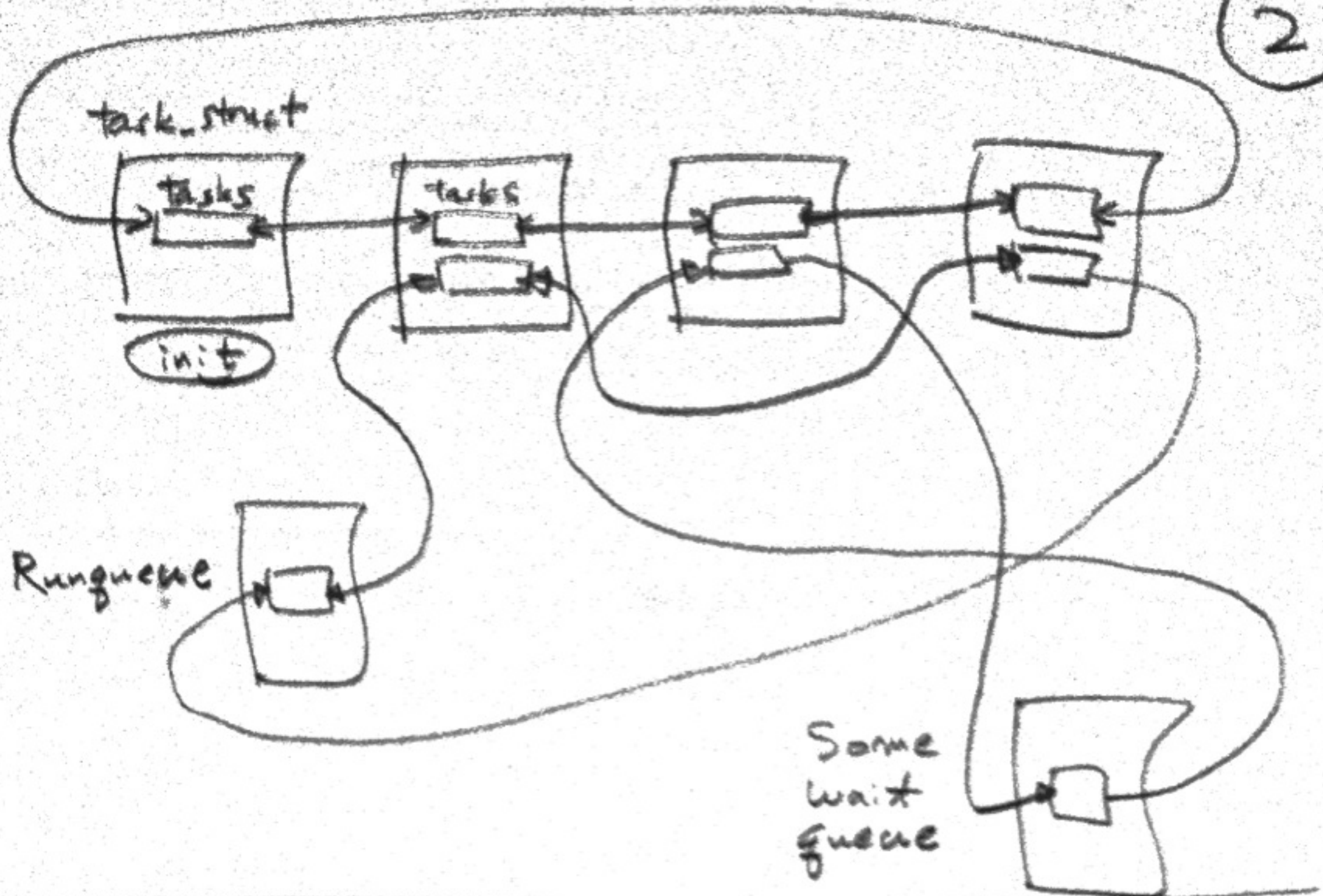


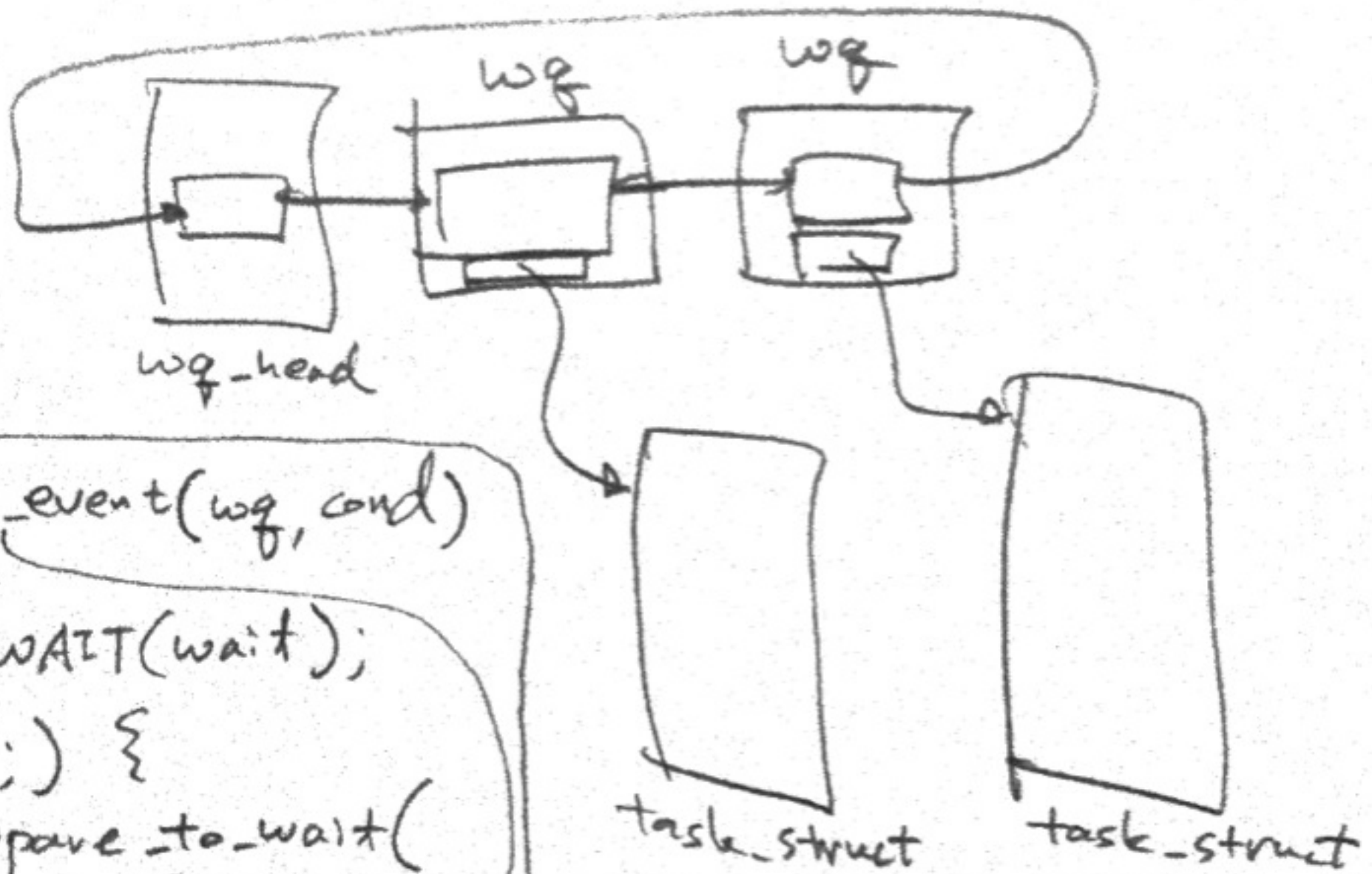
Fig 3.3 P.28 LKD

Wait queues (pseudo code)

3

```
struct wq_head {  
    spin_lock_t lock;  
    list_head task_list;  
};
```

```
struct wq {  
    task_struct *task;  
    wq_func func; // call back function  
    list_head task_list;  
};
```



```
void wait_event(wq, cond)  
{  
    DEF_WAIT(wait);  
    for (;;) {  
        prepare_to_wait(  
            *wq,  
            *wait,  
            T_I );  
        if (cond)  
            break;  
        schedule();  
    }  
    finish_wait(*wq, *wait);  
}
```

See LKD P59 for explanation

"wait_event" is a real function in Linux kernel. Skeleton pseudocode is shown here