

# Mutual Exclusion With Busy Waiting

## Lock Variables

```
1  int lock=0; //shared variable
2  {
3      ...
4      while(lock); //busy waiting
5      lock=1;
6      critical_code();
7      lock=0;
8      ...
9  }
```

### Problem:

- ▶ What if an interrupt occurs right at line 5?
- ▶ Checking the lock again while backing from an interrupt?