

```
/* Test #1 */ void __pci_register_driver_check(...) {
    if (precondition) {
        assert (state.registered == NOT_CALLED);
        set_state (&state.registered, IN_PROGRESS);
        set_driver_bus (DRIVER_PCI);
    } else /* postcondition */ {
        if (retval == 0) set_state (&state.registered, OK);
        else set_state (&state.registered, FAILED);
    }
}

/* Test #2 */ void __kmalloc_check
(..., void *retval, size_t size, gfp_t flags) {
    if (precondition)
        mem_flags_test(GFP_ATOMIC, GFP_KERNEL, flags);
    else /* postcondition */
        generic_allocator(retval, size, ORIGIN_KMALLOC);
}

/* Test #3 */ void _spin_lock_irqsave_check
(..., void *lock) {
    // generic_lock_state supports pre/post-conditions
    generic_lock_state(lock,
        ORIGIN_SPIN_LOCK, SPIN_LOCK_IRQSAVE, 1);
}
```