# kucomms kernel programmers guide

#### **Table of Contents**

Introduction	1
Defining and registering callbacks	
Sending a message	

### Introduction

In order for a kernel module to communicate with a userspace application, it is necessary to define three callback functions and then register those callback functions with the kucomms module.

## **Defining and registering callbacks**

The first step is to declare the callback functions. The functions shown below have no implementation and are examples only.

The next step is to register the callbacks with the kucomms module.

The user must register in the module init function and must unregister in the module exit function.

```
const char * devname = "kucomms_myname";
static int __init init_mymodule(void)
        bool ok = kucomms_register(
                devname,
                strlen(devname),
                my message hlr,
                my_work_hlr,
                my_timer_hlr,
                0);
        if (!ok) return -ENODEV;
        return 0;
}
static void __exit exit_mymodule(void)
{
        kucomms_unregister_wait(devname, strlen(devname));
}
module_init(init_mymodule);
module_exit(exit_mymodule);
```

## Sending a message