

```
struct kfifo {  
    unsigned char *buffer;    /* the buffer holding the data */  
    unsigned int size;        /* the size of the allocated buffer */  
    unsigned int in;          /* data is added at offset (in % size) */  
    unsigned int out;         /* data is extracted from off. (out % size) */  
    spinlock_t *lock;         /* protects concurrent modifications */  
};
```