

4.9.2 OPEN

NAME

de_open -- "Open a device for I/O"

SYNOPSIS

```
uint de_open ( dev, argp, &rval )
```

```
uint dev;      /* 32-bit device number */  
char *argp;    /* Address of parameter block */  
uint rval;     /* rval - returned by this call */
```

DESCRIPTION

The OPEN routine is generally used in conjunction with the CLOSE routine. An example is the implementation of mutual exclusion. OPEN can define the start of a task's exclusive access to a device.

RETURN VALUE

If the call succeeds, *rval* may be filled in, and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

To be defined.

NOTES

Not callable from ISR.

4.9.3 CLOSE

NAME

de_close -- "Close a device"

SYNOPSIS

```
uint de_close ( dev, argp, &rval )
```

```
uint dev;      /* 32-bit device number */  
char *argp;    /* Address of parameter block */  
uint rval;     /* rval - returned by this call */
```

DESCRIPTION

The CLOSE routine is generally used in conjunction with the OPEN routine. An example is the implementation of mutual exclusion. CLOSE can define the end of a task's exclusive access to a device.

RETURN VALUE

If the call succeeds, *rval* may be filled in, and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

To be defined.

NOTES

Not callable from ISR.

4.9.4 READ

NAME

de_read - "Read from a device"

SYNOPSIS

```
uint de_read ( dev, argp, &rval )
```

```
uint dev;      /* 32-bit device number */  
char *argp;    /* Address of parameter block */  
uint rval;     /* rval - returned by this call */
```

DESCRIPTION

The READ routine transfers data from a device to a user's buffer.

RETURN VALUE

If the call succeeds, *rval* may be filled in, and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

To be defined.

NOTES

Not callable from ISR.

4.9.5 WRITE

NAME

`de_write` - "Write to a device"

SYNOPSIS

```
uint de_write ( dev, argp, &rval )
```

```
uint dev;      /* 32-bit device number */  
char *argp;    /* Address of parameter block */  
uint rval;     /* rval - returned by this call */
```

DESCRIPTION

The WRITE routine transfers data from a user's buffer to a device.

RETURN VALUE

If the call succeeds, *rval* may be filled in, and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

To be defined.

NOTES

Not callable from ISR.

4.9.6 CNTRL**NAME**

de_cntrl - "Special device services"

SYNOPSIS

uint de_cntrl (dev, argp, &rval)

```
uint dev;      /* 32-bit device number */
char *argp;    /* Address of parameter block */
uint rval;     /* Return value - returned by this call */
```

DESCRIPTION

The function of the CNTRL routine is driver dependent. For serial I/O drivers, this routine can define tty parameters such as the baud rate. For a disk driver, the CNTRL routine can include disk formatting.

RETURN VALUE

If the call succeeds, *rval* may be filled in, and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

To be defined.

NOTES

Not callable from ISR.