4.10 Driver Interface in C Language

In addition to the assembly language interface, a driver may support the C language interface as defined below:

Function	Parameters
dx_init	(dev, &datap, tid)
dx_open	(dev, pargp, datap, tid, &rval)
dx_close	(dev, pargp, datap, tid, &rval)
dx_read	(dev, pargp, datap, tid, &rval)
dx_write	(dev, pargp, datap, tid, &rval)
dx_cntrl	(dev, pargp, datap, tid, &rval)

dev is the 32-bit device number.

    bits 31-16   = major device number
    bits 15-0   = minor device number

pargp is the physical address of the parameter block which contains device and operation specific parameters. The format and contents of the block is determined by the driver.

datap is the physical address of the device's data area for all calls except INIT. *datap* is an output parameter in which the INIT routine returns the address of the device's data area.

tid is the task id of the calling task.

rval is an output parameter in which READ, WRITE and CNTRL routines may return completion information about the call.