

**NAME**

**dcons** - dumb console device driver

**SYNOPSIS**

To compile this driver into the kernel, place the following lines in your kernel configuration file:

```
options GDB  
device firewire  
device dcons
```

Alternatively, to load the driver as a module at boot time, place the following line in your kernel configuration file:

```
options GDB
```

and in loader.conf(5):

```
dcons_load="YES"
```

**DESCRIPTION**

The **dcons** device is a simple console device which just reads from and writes to an allocated buffer for input and output respectively. It is of no use by itself and it is supposed that the buffer is accessed via a bus like firewire(4) or kvm(3) for interaction.

The buffer consists of 4 channels. There are 2 ports, one for the console TTY and another is GDB port, then each port has an input channel and an output channel.

**FILES**

```
/dev/dcons  
/etc/ttys
```

**EXAMPLES**

If you want to run getty(8) on **dcons**, insert the following line into ttys(5) and send a HUP signal to init(8) using kill(1).

```
dcons    "/usr/libexec/getty std.115200"    vt100    on secure
```

Once the fwohci(4) device is initialized to allow physical access, the buffer can be accessed from another host via a firewire(4) bus using the dconschat(8) application. See dconschat(8) for more details.

If you want to use **dcons** as a `gdb(1)` (*ports/devel/gdb*) port, add the following line into `loader.conf(5)`:

```
dcons_gdb="1"
```

### SEE ALSO

`dcons_crom(4)`, `ddb(4)`, `firewire(4)`, `fwohci(4)`, `gdb(4)`, `ttys(5)`, `conscontrol(8)`, `dconschat(8)`,  
`fwcontrol(8)`

### AUTHORS

Hidetoshi Shimokawa <*simokawa@FreeBSD.org*>

### BUGS

This driver is currently under development.