## NAME
**atkbdc** - the AT keyboard controller interface

## SYNOPSIS
**options KBD_RESETDELAY=N**
**options KBD_MAXWAIT=N**
**options KBD_DELAY1=N**
**options KBD_DELAY2=N**
**options KBDIO_DEBUG=N**
**device atkbdc**

In */boot/device.hints*:
**hint.atkbdc.0.at="isa"**
**hint.atkbdc.0.port="0x060"**

## DESCRIPTION
The keyboard controller **atkbdc** provides I/O services for the AT keyboard and PS/2 mouse style pointing devices.  This controller is required for the keyboard driver **atkbd** and the PS/2 pointing device driver **psm**.

There can be only one **atkbdc** device configured in the system.

## DRIVER CONFIGURATION
### Kernel Configuration Options
The following kernel configuration options can be used to control the **atkbdc** driver.  They may be set in the kernel configuration file (see config(8)).

*KBD_RESETDELAY=X*, *KBD_MAXWAIT=Y*

> The keyboard driver **atkbd** and the pointing device driver **psm** may ask the **atkbdc** driver to reset these devices during the boot process.  It sometimes takes a long time before these devices respond to the reset command.  These options control how long the **atkbdc** driver should wait before eventually giving up -- the driver will wait $X * Y$ msecs at most.  If the drivers seem unable to detect devices, you may want to increase these values.  The default values are 200 msec for *X* and 5 for *Y*.

*KBD_DELAY1=X, KBD_DELAY2=Y*

> DELAY1 sets the intitial key repeat delay to *X*.  The default value is 500ms.  DELAY2 sets the key repeat delay to *Y*.  The default value is 100ms.

*KBDIO_DEBUG=N*

Sets the debug level to *N*.  The default value is zero, which suppresses all debugging output.

## SEE ALSO
atkbd(4), psm(4), config(8)

## HISTORY
The **atkbdc** driver first appeared in FreeBSD 3.1.  It is based on the kbdio module in FreeBSD 2.2.

## AUTHORS
The kbdio module, the **atkbdc** driver and this manual page were written by Kazutaka Yokota *<yokota@FreeBSD.org>*.