NAME

pcic – Intel i82365SL PC Card Interface Controller

DESCRIPTION

The Intel i82365SL PC Card Interface Controller provides one or more PCMCIA PC Card sockets. The **pcic** adapter driver provides an interface between the PCMCIA sockets and the PCMCIA nexus.

The driver supports the Intel 82365SL chip and a number of chips from other vendors based on the 82365SL design. The chip that have been tested are:

- Intel 82365SL
- Cirrus Logic PD6710/PD6720
- Vadem VG365/VG465/VG468
- Toshiba
- Ricoh RF5C366

Most systems using one of these chips should work.

Direct access to the PCMCIA hardware is not supported. The driver exists solely to support the PCMCIA nexus.

CONFIGURATION

Driver Configuration

There are several required configuration properties which are used to tell the PCMCIA nexus driver what resources are available to be allocated to PC card drivers. The properties and their definitions are as follows:

res-ioaddr=<*io-range***>,...,<***io-range***>**
: This property is a list of *io-range* values which consist of an I/O base address and length. The address ranges must not overlap any other device's I/O address range.

res-memory=<*mem-range***>,...,<***mem-range***>**
: This property is a list of *mem-range* values which consist of a memory base address in the first 16MB of memory and a length of the block of memory. The memory range must not be used either by real memory or any device that uses a shared memory interface. Typically, the memory will be in the 640K to 1MB range where normal device memory resides. It must also not be at location zero to 64K.

res-irq=<*irq-list***>**
: This property is a simple list of IRQ levels that are available for use by the **pcic** driver. Care must be taken to ensure that no other device in the system uses any of the IRQ levels presented in this list. The list should only consider IRQs from the list 3, 4, 5, 7, 9, 10, 11, 12, 14 and 15 since these are the only ones the hardware can use.

  The driver defaults to using the second to last interrupt level defined in **res-irq** as its system management interrupt (SMI) which is used to handle card insertion/removal events. If, for some reason, the default is not desirable, it can be overridden by adding an **smi** property to the **pcic.conf** file. The value of the property should be the IRQ level to use and it must be one of the values specified in the **res-irq** list.

FILES

/kernel/drv/pcic	**pcic** driver
/kernel/drv/pcic.conf	**pcic** configuration file

SEE ALSO

pcmcia(4)