NAME

    iovctl - PCI SR-IOV configuration utility

SYNOPSIS

    iovctl -C -f *config-file* [**-n**]
    iovctl -D [**-f** *config-file* | **-d** *device*] [**-n**]
    iovctl -S [**-f** *config-file* | **-d** *device*]

DESCRIPTION

    The **iovctl** utility creates or destroys PCI Single-Root I/O Virtualization (SR-IOV) Virtual Functions
    (VFs). When invoked with the **-C** flag, **iovctl** creates VFs as children of the Physical Function (PF)
    configured in the specified configuration file. When invoked with the **-D** flag, **iovctl** destroys all VFs
    that are children of the specified device. Available PF devices can be seen in */dev/iov/*.

    The following options are available:

    -C   Enable SR-IOV on the specified PF device and create VF children. This operation will fail if the
            PF already has VF children. This option must be used in conjunction with the **-f** option.

    -d *device*
            Specify the PF device to use for the given operation. *device* may either be the name of a PF
            device, or a full path name to a node in */dev/iov/*. This option may not be used with the **-C**
            option.

    -D   Delete all VF children of the specified PF device. This operation will fail if SR-IOV is not
            currently enabled on the specified device.

    -f *config-file*
            Specify the pathname of the configuration file. For the **-C** option, this file will be used to specify
            all configuration values. For the **-D** and **-S** options, this file will only be used to specify the
            name of the PF device.

            See iovctl.conf for a description of the config file format and documentation of the configuration
            parameters that apply to all PF drivers. See the PF driver manual page for configuration
            parameters specific to particular hardware.

    -n   Perform a dry-run. Perform all validation of the specified action and print what would be done,
            but do not perform the actual creation or destruction of VFs. This option may not be used with
            the **-S** flag.

-S   Read the configuration schema from the specified device and print its contents to stdout. This action may be used to discover the configuration parameters supported on a given PF device.

SEE ALSO
iovctl.conf(5), rc.conf(5)

AUTHORS
This manual page was written by Ryan Stone <*rstone@FreeBSD.org*>.