

NAME

safexcel - Inside Secure SafeXcel-IP-97 security packet engine

SYNOPSIS

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

```
device crypto  
device cryptodev  
device safexcel
```

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
safexcel_load="YES"
```

DESCRIPTION

The **safexcel** driver implements crypto(4) support for the cryptographic acceleration functions of the EIP-97 device found on some Marvell systems-on-chip. The driver can accelerate the following AES modes:

- ⊕ AES-CBC
- ⊕ AES-CTR
- ⊕ AES-XTS
- ⊕ AES-GCM
- ⊕ AES-CCM

safexcel also implements SHA1 and SHA2 transforms, and can combine AES-CBC and AES-CTR with SHA1-HMAC and SHA2-HMAC for encrypt-then-authenticate operations.

SEE ALSO

crypto(4), ipsec(4), random(4), crypto(7), geli(8), crypto(9)

HISTORY

The **safexcel** driver first appeared in FreeBSD 13.0.