

## NAME

**BUS\_GET\_CPUS**, **bus\_get\_cpus** - request a set of device-specific CPUs

## SYNOPSIS

```
#include <sys/param.h>
```

```
#include <sys/bus.h>
```

```
#include <sys/cpuset.h>
```

*int*

```
BUS_GET_CPUS(device_t dev, device_t child, enum cpu_sets op, size_t setsize, cpuset_t *cpuset);
```

*int*

```
bus_get_cpus(device_t dev, enum cpu_sets op, size_t setsize, cpuset_t *cpuset);
```

## DESCRIPTION

The **BUS\_GET\_CPUS()** method queries the parent bus device for a set of device-specific CPUs. The *op* argument specifies which set of CPUs to retrieve. If successful, the requested set of CPUs are returned in *cpuset*. The *setsize* argument specifies the size in bytes of the set passed in *cpuset*.

**BUS\_GET\_CPUS()** supports querying different types of CPU sets via the *op argument*. Not all set types are supported for every device. If a set type is not supported, **BUS\_GET\_CPUS()** fails with EINVAL. These set types are supported:

**LOCAL\_CPUS** The set of CPUs that are local to the device. If a device is closer to a specific memory domain in a non-uniform memory architecture system (NUMA), this will return the set of CPUs in that memory domain.

**INTR\_CPUS** The preferred set of CPUs that this device should use for device interrupts. This set type must be supported by all bus drivers.

The **bus\_get\_cpus()** function is a simple wrapper around **BUS\_GET\_CPUS()**.

## RETURN VALUES

Zero is returned on success, otherwise an appropriate error is returned.

## SEE ALSO

cpuset(2), BUS\_BIND\_INTR(9), device(9)

## HISTORY

The **BUS\_GET\_CPUS()** method and **bus\_get\_cpus()** function first appeared in FreeBSD 11.0.