

NAME

be16enc, be16dec, be32enc, be32dec, be64enc, be64dec, le16enc, le16dec, le32enc, le32dec, le64enc, le64dec — byte order operations

LIBRARY

Utility functions from BSD systems (libbsd, -lbsd)

SYNOPSIS

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

(See *libbsd(7)* for include usage.)

```
uint16_t
```

```
be16dec(const void *);
```

```
uint32_t
```

```
be32dec(const void *);
```

```
uint64_t
```

```
be64dec(const void *);
```

```
uint16_t
```

```
le16dec(const void *);
```

```
uint32_t
```

```
le32dec(const void *);
```

```
uint64_t
```

```
le64dec(const void *);
```

```
void
```

```
be16enc(void *, uint16_t);
```

```
void
```

```
be32enc(void *, uint32_t);
```

```
void
```

```
be64enc(void *, uint64_t);
```

```
void
```

```
le16enc(void *, uint16_t);
```

```
void
```

```
le32enc(void *, uint32_t);
```

```
void
```

```
le64enc(void *, uint64_t);
```

DESCRIPTION

The **be16enc()**, **be16dec()**, **be32enc()**, **be32dec()**, **be64enc()**, **be64dec()**, **le16enc()**, **le16dec()**, **le32enc()**, **le32dec()**, **le64enc()**, and **le64dec()** functions encode and decode integers to/from byte strings on any alignment in big/little endian format.

SEE ALSO

byteorder(3)

HISTORY

The encode/decode functions first appeared in FreeBSD 5.1.