

**NAME**

**audit** - commit BSM audit record to audit log

**SYNOPSIS**

```
#include <bsm/audit.h>
```

*int*

```
audit(const char *record, u_int length);
```

**DESCRIPTION**

The **audit()** system call submits a completed BSM audit record to the system audit log.

The *record* argument is a pointer to the specific event to be recorded and *length* is the size in bytes of the data to be written.

**RETURN VALUES**

Upon successful completion, the value 0 is returned; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

**ERRORS**

The **audit()** system call will fail and the data never written if:

[EFAULT]           The *record* argument is beyond the allocated address space of the process.

[EINVAL]           The token ID is invalid or *length* is larger than MAXAUDITDATA.

[EPERM]            The process does not have sufficient permission to complete the operation.

**SEE ALSO**

auditon(2), getaudit(2), getaudit\_addr(2), getaudit(2), setaudit(2), setaudit\_addr(2), setaudit(2), libbsm(3)

**HISTORY**

The OpenBSM implementation was created by McAfee Research, the security division of McAfee Inc., under contract to Apple Computer Inc. in 2004. It was subsequently adopted by the TrustedBSD Project as the foundation for the OpenBSM distribution.

**AUTHORS**

This software was created by McAfee Research, the security research division of McAfee, Inc., under contract to Apple Computer Inc. Additional authors include Wayne Salamon, Robert Watson, and SPARTA Inc.

The Basic Security Module (BSM) interface to audit records and audit event stream format were defined by Sun Microsystems.

This manual page was written by Tom Rhodes <trhodes@FreeBSD.org>.

**BUGS**

The FreeBSD kernel does not fully validate that the argument passed is syntactically valid BSM. Submitting invalid audit records may corrupt the audit log.