NAME

free_au_event_ent, **setauevent**, **endauevent**, **getauevent**, **getauevent_r**, **getauevnam**, **getauevnam_r**, **getauevnum**, **getauevnum_r**, **getauevnonam**, **getauevnonam_r** - look up information from the audit_event database

LIBRARY

Basic Security Module Library (libbsm, -lbsm)

SYNOPSIS

#include <bsm/libbsm.h>

void
setauevent(*void*);

void
endauevent(*void*);

*struct au_event_ent **
getauevent(*void*);

*struct au_event_ent **
getauevent_r(*struct au_event_ent *e*);

*struct au_event_ent **
getauevnam(*const char *name*);

*struct au_event_ent **
getauevnam_r(*struct au_event_ent *e*, *const char *name*);

*struct au_event_ent **
getauevnum(*au_event_t event_number*);

*struct au_event_ent **
getauevnum_r(*struct au_event_ent *e*, *au_event_t event_number*);

*au_event_t **
getauevnonam(*const char *event_name*);

*au_event_t **
getauevnonam_r(*au_event_t *ev*, *const char *event_name*);

DESCRIPTION

These interfaces may be used to look up information from the audit_event(5) database, which describes audit events. Entries in the database are described by *struct au_event_ent* entries, which are returned by calls to **getauevent**(), **getauevnam**(), or **getauevnum**(). It is also possible to look up an event number via a call to **getauevnonam**().

The **setauevent**() function resets the database access session for audit_event(5), so that the next call to **getauevent**() will start with the first entry in the database.

The **endauevent**() function closes the audit_event(5) database session.

The **getauevent**() function returns a reference to the next entry in the audit_event(5) database.

The **getauevnam**() function returns a reference to the entry in the audit_event(5) database with a name of *name*.

getauevnum() returns a reference to the entry in the audit_event(5) database with an event number of *event_number*.

The **getauevnonam**() function returns a reference to an audit event number using the audit_event(5) database.

RETURN VALUES

Functions **getauevent**(), **getauevent_r**(), **getauevnam**(), **getauevnam_r**(), **getauevnum**(), **getauevnum_r**(), and **getauevnonam**() will return a reference to a *struct au_event_ent* or *au_event_t* on success, or NULL on failure, with *errno* set to provide further error information.

SEE ALSO

libbsm(3), audit_event(5)

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 Robert Watson, Wayne Salamon, and Suresh Krishnaswamy for McAfee Research, the security research division of McAfee, Inc., under contract to Apple Computer, Inc.

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

by Sun Microsystems.

BUGS

The *errno* variable is not always properly set following a failure.

These routines are thread-safe, but not re-entrant, so simultaneous or interleaved use of these functions will affect the iterator.