NAME

avc_context_to_sid, avc_sid_to_context, avc_get_initial_sid − obtain and manipulate SELinux security ID's

SYNOPSIS

#include <selinux/selinux.h>
#include <selinux/avc.h>

int avc_context_to_sid(char **ctx***, security_id_t ****sid***);**

int avc_sid_to_context(security_id_t *sid***, char *****ctx***);**

int avc_get_initial_sid(const char **name***, security_id_t ****sid***);**

DESCRIPTION

Security ID's (SID's) are opaque representations of security contexts, managed by the userspace AVC.

avc_context_to_sid() returns a SID for the given *context* in the memory referenced by *sid*.

avc_sid_to_context() returns a copy of the context represented by *sid* in the memory referenced by *ctx*. The user must free the copy with **freecon**(3).

avc_get_initial_sid() returns a SID for the kernel initial security identifier specified by *name*.

RETURN VALUE

avc_context_to_sid() and **avc_sid_to_context**() return zero on success. On error, −1 is returned and *errno* is set appropriately.

ERRORS

ENOMEM

An attempt to allocate memory failed.

NOTES

As of libselinux version 2.0.86, SID's are no longer reference counted. A SID will be valid from the time it is first obtained until the next call to **avc_destroy**(3). The **sidget**(3) and **sidput**(3) functions, formerly used to adjust the reference count, are no-ops and are deprecated.

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SEE ALSO

avc_init(3), **avc_has_perm**(3), **avc_cache_stats**(3), **avc_add_callback**(3), **getcon**(3), **freecon**(3), **selinux**(8)