

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)**