

**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)