

**NAME**

**cr\_bsd\_visible** - determine if subjects may see entities according to BSD security policies

**SYNOPSIS**

```
#include <sys/proc.h>
```

```
int
```

```
cr_bsd_visible(struct ucred *u1, struct ucred *u2);
```

**DESCRIPTION**

This function determines if a subject with credentials *u1* is denied seeing an object or subject associated to credentials *u2* by the following policies and associated sysctl(8) knobs:

*security.bsd.seeotheruids*

If set to 0, subjects cannot see other subjects or objects if they are not associated with the same real user ID. The corresponding internal function is `cr_canseeotheruids(9)`.

*security.bsd.seeothergids*

If set to 0, subjects cannot see other subjects or objects if they are not both a member of at least one common group. The corresponding internal function is `cr_canseeothergids(9)`.

*security.bsd.see\_jail\_proc*

If set to 0, subjects cannot see other subjects or objects that are not associated with the same jail as they are. The corresponding internal function is `cr_canseejailproc(9)`.

As usual, the superuser (effective user ID 0) is exempt from any of these policies provided that the sysctl(8) variable *security.bsd.suser\_enabled* is non-zero and no active MAC policy explicitly denies the exemption (see `priv_check_cred(9)`).

This function is intended to be used as a helper to implement `cr_cansee(9)` and similar functions.

**RETURN VALUES**

This function returns zero if a subject with credentials *u1* may see a subject or object with credentials *u2* by the active above-mentioned policies, or ESRCH otherwise.

**ERRORS**

[ESRCH] Credentials *u1* and *u2* do not have the same real user ID.

[ESRCH] Credentials *u1* and *u2* are not members of any common group (as determined by `realgroupmember(9)`).

[ESRCH] Credentials *u1* and *u2* are not in the same jail.

**SEE ALSO**

cr\_canseeotheruids(9), cr\_canseeothergids(9), cr\_canseejailproc(9), priv\_check\_cred(9), cr\_cansee(9)

**AUTHORS**

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