NAME

setnetgrent, endnetgrent, getnetgrent_r, innetgr - handle network group entries

LIBRARY

```
Standard C library (libc, -lc)
```

SYNOPSIS

Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

```
setnetgrent(), endnetgrent(), getnetgrent(), getnetgrent_r(), innetgr():
    Since glibc 2.19:
    _DEFAULT_SOURCE
    glibc 2.19 and earlier:
    _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

The *netgroup* is a SunOS invention. A netgroup database is a list of string triples (*hostname*, *username*, *domainname*) or other netgroup names. Any of the elements in a triple can be empty, which means that anything matches. The functions described here allow access to the netgroup databases. The file /etc/nss-witch.conf defines what database is searched.

The **setnetgrent**() call defines the netgroup that will be searched by subsequent **getnetgrent**() calls. The **getnetgrent**() function retrieves the next netgroup entry, and returns pointers in *host*, *user*, *domain*. A null pointer means that the corresponding entry matches any string. The pointers are valid only as long as there is no call to other netgroup-related functions. To avoid this problem you can use the GNU function **getnet-grent_r**() that stores the strings in the supplied buffer. To free all allocated buffers use **endnetgrent**().

In most cases you want to check only if the triplet (hostname, username, domainname) is a member of a netgroup. The function**innetgr**() can be used for this without calling the abo ve three functions. Again, a null pointer is a wildcard and matches any string. The function is thread-safe.

RETURN VALUE

These functions return 1 on success and 0 for failure.

FILES

```
/etc/netgroup
/etc/nsswitch.conf
```

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
setnetgrent(),	Thread safety	MT-Unsafe race:netgrent locale
<pre>getnetgrent_r(), innetgr()</pre>		
endnetgrent()	Thread safety	MT-Unsafe race:netgrent
getnetgrent()	Thread safety	MT-Unsafe race:netgrent race:netgrentbuf locale

In the above table, netgrent in race:netgrent signifies that if any of the functions setnetgrent(), getnet-

grent_r(), innetgr(), getnetgrent(), or endnetgrent() are used in parallel in different threads of a program,
then data races could occur.

STANDARDS

These functions are not in POSIX.1, but **setnetgrent()**, **endnetgrent()**, **getnetgrent()**, and **innetgr()** are available on most UNIX systems. **getnetgrent_r()** is not widely available on other systems.

NOTES

In the BSD implementation, **setnetgrent()** returns void.

SEE ALSO

sethostent(3), setprotoent(3), setservent(3)