

**NAME**

lopen - open unix or linked logging file

**SYNOPSIS**

```
#include <lopen.h>

struct CHLCTL locc;
struct FS_CB lofs;
lopen(name, mode, &data)
char *name;
struct {
    char *l_block;
    char l_name[LONAMESIZ];
} data;
```

**DESCRIPTION**

Lopen opens the given file for whichever mode specified (see open(2)). Name is the address of a string of ASCII characters, terminated by a null character, which defines a unix or logging file according to the conventions which follow.

**ofc.chl**

Where "chl" is a valid channel name (see chlnams(3L)) and "ofc" is a valid office on the SCCS. The corresponding logging file is opened.

**ofc**

Where "ofc" is the name of a valid office on the SCCS. The logging file "ofc.mtc" is opened.

**chl**

Where "chl" is a valid channel name. The specified channel on the current default office is opened. I.e. the logging file defined by the combination ".office/chl" is opened.

**unix**

The unix file in the current directory is opened.

**usr.unix**

The unix file in the specified user directory is opened.

**ofc.unix**

The unix file in the specified office is opened.

Lopen uses the following ordering when attempting to find the given file:

```
if(name contains a dot) {
    if((2nd half is a chl name) && (channel exists))
        return(logging);
    if(name is in current directory)
        return(unix);
    if(name is in user directory)
```

```

        return(unix);
    if(name is in office directory)
        return(unix);
    return(bad);
}

```

```

if(name is a chl name) {
    if(<default office>/name exists)
        return(logging);
} else
    if(name.mtc exists)
        return(logging);
if(name is in current directory)
    return(unix);
return(bad);

```

When the file which is opened is a unix file, lopen clears the element l\_block in the data structure, and copies name into the l\_name element. When the file which is opened is a logging file, however, a lseek(2) is done to the disk block containing the latest messages, and that block number is written into the l\_block element. The CHLCTL and FS\_CB structures read in the process are available to the caller as globals locc and lofs, respectively. In all but the "ofc" and "chl" cases above, name is copied verbatim into the l\_name element. In the exceptional cases, the l\_name element contains a string of the form "ofc.chl" to reflect the full name of the logging file which was opened. The length of the l\_name element is defined in the header file /usr/include/lopen.h.

In addition, in the "ofc" and "ofc.chl" cases, lopen updates the ".office" link to point to the office specified in name.

#### LIBRARY

/lib/lib1.a

#### FILES

/usr/include/lopen.h  
 .dfltparm

#### SEE ALSO

updofc(3), chl(5), fs(5), chldata(5), getdfprm(3L)

#### DIAGNOSTICS

A negative returned value indicates an error. The external elements E\_SPCL, E\_TYPE, E\_CODE, E\_NUM, and E\_MSG contain the appropriate strings to be passed to sccerr(3L).