

NAME

profil – execution time profile

LIBRARY

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

SYNOPSIS

```
#include <unistd.h>
```

```
int profil(unsigned short *buf, size_t bufsiz,
           size_t offset, unsigned int scale);
```

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

profil():

Since glibc 2.21:

 _DEFAULT_SOURCE

In glibc 2.19 and 2.20:

 _DEFAULT_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)

Up to and including glibc 2.19:

 _BSD_SOURCE || (_XOPEN_SOURCE && _XOPEN_SOURCE < 500)

DESCRIPTION

This routine provides a means to find out in what areas your program spends most of its time. The argument *buf* points to *bufsiz* bytes of core. Every virtual 10 milliseconds, the user's program counter (PC) is examined: *offset* is subtracted and the result is multiplied by *scale* and divided by 65536. If the resulting value is less than *bufsiz*, then the corresponding entry in *buf* is incremented. If *buf* is NULL, profiling is disabled.

RETURN VALUE

Zero is always returned.

ATTRIBUTES

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

Interface	Attribute	Value
profil()	Thread safety	MT-Unsafe

STANDARDS

Similar to a call in SVr4 (but not POSIX.1).

BUGS

profil() cannot be used on a program that also uses **ITIMER_PROF** interval timers (see **setitimer(2)**).

True kernel profiling provides more accurate results.

SEE ALSO

gprof(1), **sprof(1)**, **setitimer(2)**, **sigaction(2)**, **signal(2)**