



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'profil.3'***

**C:\>man profil.3**

PROFIL(3)                   Linux Programmer's Manual                   PROFIL(3)

### NAME

profil - execution time profile

### 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 ?

??

## CONFORMING TO

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. Libc 4.4 contained a kernel patch providing a system call profil.

## SEE ALSO

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

## COLOPHON

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.