

NAME

profil – execution time profile

SYNOPSIS

(profil = 44.)

sys profil; buff; bufsiz; offset; scale

profil(buff, bufsiz, offset, scale)

char buff[];

int bufsiz, offset, scale;

DESCRIPTION

Buff points to an area of core whose length (in bytes) is given by *bufsiz*. After this call, the user's program counter (pc) is examined each clock tick (60th second); *offset* is subtracted from it, and the result multiplied by *scale*. If the resulting number corresponds to a word inside *buff*, that word is incremented.

The scale is interpreted as an unsigned, fixed-point fraction with binary point at the left: 177777(8) gives a 1-1 mapping of pc's to words in *buff*; 77777(8) maps each pair of instruction words together. 2(8) maps all instructions onto the beginning of *buff* (producing a non-interrupting core clock).

Profiling is turned off by giving a *scale* of 0 or 1. It is rendered ineffective by giving a *bufsiz* of 0. Profiling is also turned off when an *exec* is executed but remains on in child and parent both after a *fork*.

SEE ALSO

monitor(III), prof(I)