

NAME

prof - display profile data

SYNOPSIS

prof [-v] [-a] [-l] [name]

DESCRIPTION

Prof interprets the file *mon.out* produced by the *monitor* subroutine. Under default modes, the symbol table in the *name* object file (*a.out* default) is read and correlated with the *mon.out* profile file. For each external symbol, the percentage or time spent executing between that symbol and the next is printed (in decreasing order), together with the number of times that routine was called and the number of milliseconds per call.

If the *-a* option is used, all symbols are reported rather than just external symbols. If the *-l* option is used, the output is listed by symbol value rather than decreasing percentage. If the *-v* option is used, all printing is suppressed and a profile plot is produced on the 611 display.

In order for the number of calls to a routine to be tallied, the *-p* option of *cc* must have been given when the file containing the routine was compiled.

FILES

mon.out	for profile
a.out	for namelist
/dev/vt0	for plotting

SEE ALSO

monitor(3), profil(2), cc(1)

BUGS

The numeric results tend to vary considerably from run to run because of statistical variations in the actual clock interrupt times as correlated with the program run times. In addition, because a guess must be made as to which routine should be credited for a clock tick (16.67ms), invariably it happens that a routine next to a very active routine will get credited with more time than it deserves. It would be good to produce a histogram or a graph of time versus program address rather than simple numeric results.