NAME

proccontrol - Control some process execution aspects

SYNOPSIS

proccontrol -m *mode* [**-s** *control*] [**-q**] **-p** *pid | command*

DESCRIPTION

The **proccontrol** command modifies the execution parameter of existing process specified by the *pid* argument, or starts execution of the new program *command* with the execution parameter set for it.

Which execution parameter is changed, selected by the mandatory parameter *mode*. Possible values for *mode* are:

aslr   Control the Address Space Layout Randomization. Only applicable to the new process spawned.

trace   Control the permission for debuggers to attach. Note that process is only allowed to enable tracing for itself, not for any other process.

trapcap Controls the signalling of capability mode access violations.

protmax
          Controls the implicit PROT_MAX application for mmap(2).

nonewprivs
          Controls disabling the setuid and sgid bits for execve(2).

wxmap
          Controls the write exclusive execute mode for mappings.

kpti   Controls the KPTI enable, AMD64 only.

la48   Control limiting usermode process address space to 48 bits of address, AMD64 only, on machines capable of 57-bit addressing.

The *control* specifies if the selected *mode* should be enabled or disabled. Possible values are *enable* and *disable*, with the default value being *enable* if not specified. See procctl(2) for detailed description of each mode effects and interaction with other process control facilities.

The **-q** switch makes the utility query and print the current setting for the selected mode. The **-q** requires

the query target process specification with **-p**.

EXIT STATUS

The **proccontrol** utility exits 0 on success, and >0 if an error occurs.

EXAMPLES

- To disable debuggers attachment to the process 1020, execute
    proccontrol -m trace -s disable -p 1020

- To execute the uniq(1) program in a mode where capability access violations cause SIGTRAP delivery, do
    proccontrol -m trapcap uniq

- To query the current ASLR enablement mode for the running process 1020, do
    proccontrol -m aslr -q -p 1020

SEE ALSO

kill(2), procctl(2), ptrace(2), mitigations(7)

HISTORY

The **proccontrol** command appeared in FreeBSD 10.0.

AUTHORS

The **proccontrol** command and this manual page were written by Konstantin Belousov *<kib@freebsd.org>* under sponsorship from The FreeBSD Foundation.