

**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](mailto:kib@freebsd.org)> under sponsorship from The FreeBSD Foundation.