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Rocky Enterprise Linux 9.2 Manual Pages on command 'gamemoded.8'

\$ man gamemoded.8

gamemoded(8)

gamemoded man page

gamemoded(8)

NAME

gamemoded - daemon that optimises system performance on demand

SYNOPSIS

gamemoded [OPTIONS...]

DESCRIPTION

GameMode is a daemon/lib combo for Linux that allows games to request a set of optimisa? tions be temporarily applied to the host OS.

The design has a clear cut abstraction between the host daemon and library (gamemoded and libgamemode), and the client loaders (libgamemodeauto and gamemode_client.h) that allows for safe usage without worrying about whether the daemon is installed or running. This de? sign also means that while the host library currently relies on systemd for exchanging messages with the daemon, it's entirely possible to implement other internals that still work with the same clients.

GameMode was designed primarily as a stop-gap solution to problems with the Intel and AMD CPU powersave or ondemand governors, but is intended to be expanded beyond just CPU gover? nor states, as there are a wealth of automation tasks one might want to apply.

OPTIONS

-r[PID], --request=[PID]

Toggle gamemode for process. When no PID given, requests gamemode and pauses -s[PID], --status=[PID]

Query the status of gamemode for process When no PID given, queries the status globally

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```
-d, --daemonize
         Run the daemon as a separate process (daemonize it)
    -I, --log-to-syslog
         Log to syslog
    -h, --help
         Print help text
    -t, --test
         Run diagnostic tests on the current installation
    -v, --version
         Print the version
USAGE
    libgamemodeauto.so.0 can be pre-loaded into any program to request gamemoded begin or end
    the mode. See gamemoderun(1) for details.
    The gamemode_client.h header can be used by developers to build the requests into a pro?
    gram:
      #include "gamemode_client.h"
         if( gamemode_request_start() < 0 ) {
           fprintf( stderr, "gamemode request failed: %s\n", gamemode error string() )
        }
        /* run the process */
        /* Not required, gamemoded can clean up after game exits */
         gamemode_request_end();
    Atlernatively developers can define GAMEMODE_AUTO to mimic the behaviour of libgamemod?
    eauto.so.0:
      #define GAMEMODE_AUTO
      #include "gamemode client.h"
    Or, distribute libgamemodeauto.so.0 and either link with -lgamemodeauto or inject it as
    above with LD_PRELOAD.
CONFIG
    gamemoded will load and merge gamemode.ini config files from these directories in the fol?
    lowing order:
      /usr/share/gamemode/
```

/etc/

```
$XDG CONFIG HOME or $HOME/.config/
$PWD
[general]
```

Behaviour of the config file can be explained by presenting a commented example:

; The reaper thread will check every 5 seconds for exited clients, for config file changes, and for the CPU/iGPU power balance

reaper_freq=5

; The desired governor is used when entering GameMode instead of "performance" desiredgov=performance

; The default governor is used when leaving GameMode instead of restoring the original value :defaultgov=powersave

; The iGPU desired governor is used when the integrated GPU is under heavy load igpu_desiredgov=powersave

; Threshold to use to decide when the integrated GPU is under heavy load.

; This is a ratio of iGPU Watts / CPU Watts which is used to determine when the

; integraged GPU is under heavy enough load to justify switching to

; igpu_desiredgov. Set this to -1 to disable all iGPU checking and always

; use desiredgov for games.

igpu_power_threshold=0.3

; GameMode can change the scheduler policy to SCHED_ISO on kernels which support it (currently

; not supported by upstream kernels). Can be set to "auto", "on" or "off". "auto" will enable

; with 4 or more CPU cores. "on" will always enable. Defaults to "off".

softrealtime=off

; GameMode can renice game processes. You can put any value between 0 and 20 here, the value

; will be negated and applied as a nice value (0 means no change). Defaults to 0.

renice=0

; By default, GameMode adjusts the iopriority of clients to BE/0, you can put any value

; between 0 and 7 here (with 0 being highest priority), or one of the special values

; "off" (to disable) or "reset" (to restore Linux default behavior based on CPU priority),

; currently, only the best-effort class is supported thus you cannot set it here

ioprio=0

; Sets whether gamemode will inhibit the screensaver when active

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```
inhibit screensaver=1
      [filter]
      ; If "whitelist" entry has a value(s)
      ; gamemode will reject anything not in the whitelist
      ;whitelist=RiseOfTheTombRaider
      ; Gamemode will always reject anything in the blacklist
      ;blacklist=HalfLife3
      ; glxgears
      [gpu]
      ; Here Be Dragons!
      ; Warning: Use these settings at your own risk
      ; Any damage to hardware incurred due to this feature is your responsibility and yours alone
      ; It is also highly recommended you try these settings out first manually to find the sweet spots
         ; Setting this to the keyphrase "accept-responsibility" will allow gamemode to apply GPU optimisations such as
overclocks
      ;apply_gpu_optimisations=0
      ; The DRM device number on the system (usually 0), ie. the number in /sys/class/drm/card0/
      ;gpu device=0
      ; Nvidia specific settings
      ; Requires the coolbits extension activated in nvidia-xconfig
      ; This corresponds to the desired GPUPowerMizerMode
      ; "Adaptive"=0 "Prefer Maximum Performance"=1 and "Auto"=2
                                               See NV CTRL GPU POWER MIZER MODE
                                                                                                     and
                                                                                                            friends
                                                                                                                       in
https://github.com/NVIDIA/nvidia-settings/blob/master/src/libXNVCtrl/NVCtrl.h
      ;nv_powermizer_mode=1
      ; These will modify the core and mem clocks of the highest perf state in the Nvidia PowerMizer
      ; They are measured as Mhz offsets from the baseline, 0 will reset values to default, -1 or unset will not modify values
      ;nv_core_clock_mhz_offset=0
      ;nv_mem_clock_mhz_offset=0
      ; AMD specific settings
      ; Requires a relatively up to date AMDGPU kernel module
      ; See: https://dri.freedesktop.org/docs/drm/gpu/amdgpu.html#gpu-power-thermal-controls-and-monitoring
      ; It is also highly recommended you use Im-sensors (or other available tools) to verify card temperatures Page 4/5
```

; This corresponds to power dpm force performance level, "manual" is not supported for now ;amd_performance_level=high [supervisor] ; This section controls the new gamemode functions gamemode_request_start_for and gamemode_request_end_for ; The whilelist and blacklist control which supervisor programs are allowed to make the above requests ;supervisor_whitelist= ;supervisor_blacklist= ; In case you want to allow a supervisor to take full control of gamemode, this option can be set ; This will only allow gamemode clients to be registered by using the above functions by a supervisor client ;require supervisor=0 [custom] ; Custom scripts (executed using the shell) when gamemode starts and ends ;start=notify-send "GameMode started" ; /home/me/bin/stop_ethmining.sh ;end=notify-send "GameMode ended" ; /home/me/bin/start_ethmining.sh ; Timeout for scripts (seconds). Scripts will be killed if they do not complete within this time. ;script timeout=10 SEE ALSO gamemoderun(1), systemd(1) **ABOUT** GameMode source can be found at https://github.com/FeralInteractive/gamemode.git **AUTHOR** Feral Interactive (linux-contact@feralinteractive.com) 1.6.1 4 May 2020 gamemoded(8)