

NAME

kernel-command-line - Kernel command line parameters

SYNOPSIS

/proc/cmdline

DESCRIPTION

The kernel, the initial RAM disk (initrd) and basic userspace functionality may be configured at boot via kernel command line arguments.

For command line parameters understood by the kernel, please see [kernel-parameters.txt](#)^[1] and [bootparam\(7\)](#).

For command line parameters understood by the initial RAM disk, please see [dracut.cmdline\(7\)](#), or the documentation of the specific initrd implementation of your installation.

CORE OS COMMAND LINE ARGUMENTS

systemd.unit=, *rd.systemd.unit=*, *systemd.dump_core=*, *systemd.crash_shell=*,
systemd.crash_chvt=, *systemd.confirm_spawn=*, *systemd.show_status=*, *systemd.log_target=*,
systemd.log_level=, *systemd.log_color=*, *systemd.log_location=*, *systemd.default_standard_output=*,
systemd.default_standard_error=, *systemd.setenv=*

Parameters understood by the system and service manager to control system behavior. For details, see [systemd\(1\)](#).

systemd.mask=, *systemd.wants=*, *systemd.debug-shell*

Additional parameters understood by [systemd-debug-generator\(8\)](#), to mask or start specific units at boot, or invoke a debug shell on tty9.

systemd.restore_state=

This parameter is understood by several system tools to control whether or not they should restore system state from the previous boot. For details, see [systemd-backlight@.service\(8\)](#) and [systemd-rfkill@.service\(8\)](#).

quiet

Parameter understood by both the kernel and the system and service manager to control console log verbosity. For details, see [systemd\(1\)](#).

debug

Parameter understood by both the kernel and the system and service manager to control console log verbosity. For details, see [systemd\(1\)](#).

-b, *emergency*, *single*, *s*, *S*, *1*, *2*, *3*, *4*, *5*

Parameters understood by the system and service manager, as compatibility options. For details, see [systemd\(1\)](#).

locale.LANG=, *locale.LANGUAGE=*, *locale.LC_CTYPE=*, *locale.LC_NUMERIC=*,
locale.LC_TIME=, *locale.LC_COLLATE=*, *locale.LC_MONETARY=*, *locale.LC_MESSAGES=*,
locale.LC_PAPER=, *locale.LC_NAME=*, *locale.LC_ADDRESS=*, *locale.LC_TELEPHONE=*,
locale.LC_MEASUREMENT=, *locale.LC_IDENTIFICATION=*

Parameters understood by the system and service manager to control locale and language settings. For details, see [systemd\(1\)](#).

fsck.mode=, *fsck.repair=*

Parameters understood by the file system checker services. For details, see [systemd-fsck@.service\(8\)](#).

quotacheck.mode=

Parameter understood by the file quota checker service. For details, see [systemd-quotacheck.service\(8\)](#).

systemd.journald.forward_to_syslog=, *systemd.journald.forward_to_kmsg=*,
systemd.journald.forward_to_console=, *systemd.journald.forward_to_wall=*

Parameters understood by the journal service. For details, see **systemd-journald.service(8)**.

vconsole.keymap=, *vconsole.keymap.toggle=*, *vconsole.font=*, *vconsole.font.map=*,
vconsole.font.unimap=

Parameters understood by the virtual console setup logic. For details, see **systemd-vconsole-setup.service(8)**.

udev.log-priority=, *rd.udev.log-priority=*, *udev.children-max=*, *rd.udev.children-max=*, *udev.exec-delay=*, *rd.udev.exec-delay=*, *net.ifnames=*

Parameters understood by the device event managing daemon. For details, see **systemd-udevd.service(8)**.

plymouth.enable=

May be used to disable the Plymouth boot splash. For details, see **plymouth(8)**.

luks=, *rd.luks=*, *luks.crypttab=*, *rd.luks.crypttab=*, *luks.uuid=*, *rd.luks.uuid=*, *luks.options=*,
rd.luks.options=, *luks.key=*, *rd.luks.key=*

Configures the LUKS full-disk encryption logic at boot. For details, see **systemd-cryptsetup-generator(8)**.

fstab=, *rd.fstab=*

Configures the `/etc/fstab` logic at boot. For details, see **systemd-fstab-generator(8)**.

root=, *rootfstype=*, *rootfsflags=*, *ro*, *rw*

Configures the root file system and its file system type and mount options, as well as whether it shall be mounted read-only or read-writable initially. For details, see **systemd-fstab-generator(8)**.

systemd.gpt_auto=, *rd.systemd.gpt_auto=*

Configures whether GPT based partition auto-discovery shall be attempted. For details, see **systemd-gpt-auto-generator(8)**.

modules-load=, *rd.modules-load=*

Load a specific kernel module early at boot. For details, see **systemd-modules-load.service(8)**.

SEE ALSO

systemd(1), **bootparam(7)**, **dracut.cmdline(7)**, **systemd-debug-generator(8)**, **systemd-fsck@.service(8)**, **systemd-quotacheck.service(8)**, **systemd-journald.service(8)**, **systemd-vconsole-setup.service(8)**, **systemd-udevd.service(8)**, **plymouth(8)**, **systemd-cryptsetup-generator(8)**, **systemd-fstab-generator(8)**, **systemd-gpt-auto-generator(8)**, **systemd-modules-load.service(8)**, **systemd-backlight@.service(8)**, **systemd-rfkill@.service(8)**

NOTES

1. `kernel-parameters.txt`
<https://www.kernel.org/doc/Documentation/kernel-parameters.txt>