



OpenSTLinux directory structure



Contents

1. OpenSTLinux directory structure	3
2. Main Page	3



Stable: 17.11.2021 - 10:46 / Revision: 17.11.2021 - 15:58

The content format pdf is not supported by the content model wikitext.

[Return to Main Page](#)

Stable: 17.11.2021 - 10:46 / Revision: 17.11.2021 - 15:58

You do not have permission to edit this page, for the following reasons:

- The action you have requested is limited to users in one of the groups: **Administrators**, **Editors**, **Reviewers**, **Selected_editors**, **ST_editors**.
- The action "Read pages" for the draft version of this page is only available for the groups **ST_editors**, **ST_readers**, **Selected_editors**, **sysop**, **reviewer**

You can view and copy the source of this page.



```

<noinclude> [[Category:OpenSTLinux filesystem]] {{ArticleMainWriter | Jean-ChristopheT}}
{{ArticleApprovedVersion | Jean-ChristopheT | NathalieS(NotDone), BernardP(NotDone), RomualdJ(NotDone),
DenisH(NotDone), ChristopheM(12Feb'19) | Jean-ChristopheT - 20Jun'18 | AnneJ - 11Jun'18 - 7653 | 18Feb'19}} <
/noinclude> This article aims at presenting the directory structure of the Linux root file system available on STM32
board. All files and directories are located under the root directory ("/"), in compliance with the [[File Hierarchy
Standard (FHS)|File system Hierarchy Standard]]. This root directory corresponds to the Linux root file system
(rootfs partition), as defined in [[STM32MP15 Flash mapping#Flash partitions|Flash partitions]]. Note also that the
user file system (userfs partition), the boot file system (bootfs partition) and the vendor file system (vendorfs
partition) can be accessed through the "/usr/local" mounting point, through the "/boot" mounting point, and through
the "/vendor" mounting point respectively. {{info|In practice, this article uses the release "'STM32MP15-Ecosystem-
v1.0.0'" for the STM32MPU Embedded Software distribution as an example to illustrate the Linux directory
structure. If you are using a different release, the names of the directories and files might differ.}}
{{UpdateNeededForNewRelease|The trees below shall be updated periodically, even if the information banner
specifies that they might not be up-to-date}} The directories are shown in {{Green|green}}, while the files are in
black. {{Green|/}} {{Highlight|'"Root directory (rootfs partition)'"}} {{Green|bin}} {{Highlight|Essential user binaries (e.
g. "/bin/cat", "/bin/ls", "/bin/cp"...)}} [...] {{Green|boot}} {{Highlight|Mounting point for the boot file system (bootfs
partition): see below}} {{Green|dev}} {{Highlight|Device files (e.g. "/dev/null", "/dev/tty0", "/dev/video0"...)}}
{{Green|etc}} {{Highlight|System-wide configuration files (e.g. "/etc/xdg/weston/weston.ini" Weston configuration
file...)}} {{Green|home}} {{Highlight|Users' home directories (containing saved files, personal settings...)}}
{{Green|lib}} {{Highlight|Essential system libraries for the binaries in "/bin" and "/sbin" (e.g. "libcurses.so.5.9"...)}}
{{Green|modules}} {{Green|4.19.9}} {{Green|kernel}} {{Highlight|Linux kernel modules}} [...] modules.dep
{{Highlight|List of module dependencies (generated by "depmod")}} [...] [...] {{Green|lost+found}}
{{Green|media}} {{Highlight|Mount points for removable media devices}} {{Green|mnt}} {{Highlight|Temporarily
mounted file systems}} {{Green|proc}} {{Highlight|[[Pseudo filesystem|Pseudo filesystem]] providing process and
kernel information as files (e.g. "/proc/cpuinfo", "/proc/version"...)}} {{Green|root}} {{Highlight|Home directory for
the root user}} {{Green|run}} {{Highlight|Run-time variable data (information about the running system since last
boot)}} {{Green|sbin}} {{Highlight|Essential system binaries (e.g. "/sbin/fsck", "/sbin/init", "/sbin/modprobe"...)}}
{{Green|sys}} {{Highlight|Information about devices, drivers, and some kernel features (e.g. "/sys/kernel/debug"
aka "debugfs"...)}} {{Green|tmp}} {{Highlight|Temporary files}} {{Green|usr}} {{Highlight|User utilities and
applications}} {{Green|bin}} {{Highlight|Non-essential user binaries (e.g. "/usr/bin/lsusb", "/usr/bin/weston"...)}}
{{Green|lib}} {{Highlight|Non-essential system libraries for the binaries in "/usr/bin" and "/usr/sbin"}}
{{Green|local}} {{Highlight|Mounting point for the user file system (userfs partition): see below}} {{Green|sbin}}
{{Highlight|Non-essential system binaries (e.g. "/usr/sbin/alsactl", "/usr/sbin/weston.sh"...)}} {{Green|share}}
{{Highlight|Architecture-independent (shared) data}} [...] {{Green|var}} {{Highlight|Variable files}}
{{Green|vendor}} {{Highlight|Mounting point for the vendor file system (vendorfs partition): see below}} * Boot file
system mounting point {{Green|/boot}} {{Highlight|'"bootfs partition'"}} stm32mp157a-dk1[*].dtb {{Highlight|Linux
kernel device tree blob files STM32MP157A-DK1}} stm32mp157c-dk2[*].dtb {{Highlight|Linux kernel device tree blob files
STM32MP157C-DK2}} stm32mp157c-ev[*].dtb {{Highlight|Linux kernel device tree blob files
STM32MP157C-EV1}} ulmage {{Highlight|Linux kernel binary image file (with U-Boot wrapper)}} [...] * User file
system mounting point {{Green|usr/local}} {{Highlight|'"userfs partition'"}} {{Green|Cube-M4-examples}}
{{Highlight|Examples for STM32CubeMP1 Package running on Arm<sup>&reg;</sup> Cortex-M4-examples}}
{{Green|STM32MP157C-DK2}} {{Highlight|Examples of firmwares running on Arm Cortex-M4
STM32MP157C-DK2 (see more in [[STM32CubeMP1 Package]])}} {{Green|Applications}}

{{Green|OpenAMP}} || {{Green|OpenAMP_TTY_echo}} {{Highlight|OpenAMP TTY echo application}} ||
fw_cortex_m4.sh {{Highlight|Script to start/stop this application}} || {{Green|lib}} || {{Green|firmware}} ||
OpenAMP_TTY_echo.elf {{Highlight|Firmware for this application}} || README {{Highlight|Helper file for this
application}} [...] {{Highlight|Other OpenAMP applications with the same structure (script, helper file and
firmware)}} [...] {{Highlight|Other applications with the same structure (script, helper file and firmware)}}
{{Green|Demonstrations}} {{Green|AI_Character_Recognition}} {{Highlight|Artificial intelligence character
recognition demonstration}} {{Green|lib}} {{Green|firmware}} AI_Character_Recognition.elf
{{Highlight|Firmware for this demonstration}} {{Green|Examples}} {{Green|GPIO}} | {{Green|GPIO_EXTI}}
{{Highlight|GPIO EXTI example}} | fw_cortex_m4.sh {{Highlight|Script to start/stop this example}} | {{Green|lib}}
| {{Green|firmware}} | GPIO_EXTI.elf {{Highlight|Firmware for this example}} | README {{Highlight|Helper
file for this example}} [...] {{Highlight|Other examples with the same structure (script, helper file and firmware)}}
{{Green|STM32MP157C-EV1}} {{Highlight|Examples of firmwares running on Arm Cortex-M4 STM32MP157C-
EV1 (see more in [[STM32CubeMP1 Package]])}} {{Green|Applications}} [...] {{Highlight|Applications with the
same structure (script, helper file and firmware)}} {{Green|Demonstrations}} [...] {{Highlight|Demonstrations with
the same structure (script, helper file and firmware)}}

```



same structure (script, helper file and firmware)} {{Green|Demonstrations}} [...] {{Highlight|Demonstrations with the same structure (script, helper file and firmware)}} {{Green|Examples}} [...] {{Highlight|Examples with the same structure (script, helper file and firmware)}} {{Green|Linux-A7-examples}} {{Highlight|Examples for Linux^{®} running on Arm^{®} Cortex^{®}-A7}} {{Green|GPIO}} {{Highlight|GPIO examples}} {{Green|buttons}} button_gpio_exti.sh {{Highlight|Script for this example}} | README.md {{Highlight|Helper file for this example}} {{Green|leds}} {{Highlight|Same structure for this example relative to the leds}} [...] [...] {{Highlight|Same structure for all the examples}} {{Green|demo}} {{Highlight|All files needed (e.g. Python scripts, pictures, media files...) for the GTK demo launcher}} [...] {{Green|lost+found}} {{Green|weston-start-at-startup}} start_up_demo_launcher.sh {{Highlight|Script to start the GTK demo launcher}} * Vendor file system mounting point {{Green|/vendor}} {{Highlight|"vendorfs partition"}} [*].so {{Highlight|Specific vendor libraries (e.g. Vivante libraries OpenGL ES, OpenVG and EGL)}} [...]

Templates used on this page:

- [Template:Highlight \(view source\)](#)
- [Template:Info \(view source\)](#)
- [Template:STDarkBlue \(view source\)](#)

[Return to Main Page.](#)