# TCC803x Automotive Linux SDK

**Release Note** 

V3.0.2 [A] 2018-09-06

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# 1 Introduction

#### 1.1 Feature

- Support SNOR/EMMC Boot mode
- Media Player
- iPod Digital Audio (3<sup>rd</sup> party license required, iAP2) CarPlay (3<sup>rd</sup> party license required) Bluetooth (Telechips agreement required)

- Support OpenGL ES1.1/2.0/3.2, EGL
- Support Wayland
- Support Micom
- Support IPC driver
- Support Firmware update
- Early/RearCamera (TBD, Telechips agreement required)
- Secure Boot (TBD)
- Support ARM Trusted Execution Environment (TBD, 3<sup>rd</sup> party license required)
- High-bandwidth Digital Content Protection 2.2 (TBD, 3<sup>rd</sup> party license required)
- TRMP (TBD)
- Broadcasting (TBD)

#### **System Requirements**

#### 1.2.1 Hardware Requirements

- TCC803x Demo Board
- 12V/5A Power Adapter
- **USB** Cable

#### 1.2.2 Software Requirements

- VTC Driver
- **FWDN**

#### **Supported Operation system and Platforms**

This chapter describes the supported OS and platforms in this version.

| Operating Environment | Description                                                                                                                                          |  |  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| OS                    | Linux                                                                                                                                                |  |  |
| Device                | TCC803x EVB                                                                                                                                          |  |  |
| Firmware              | Automotive Linux SDK                                                                                                                                 |  |  |
| Build system          | Yocto Project 2.4.3 Rocko                                                                                                                            |  |  |
| Build System          | Install x86_64-buildtools-nativesdk-standalone-2.4.3.sh for Host System                                                                              |  |  |
| Primary Packages      | alsa-lib-1.1.4 pulseaudio 10.0 dbus-1.10.20 system-234 GStreamer 1.10.4 OpenMax IL OpenGL ES 1.1/2.0/3.2, EGL Wayland 1.12.0 Weston 1.12.0 QT5 5.6.3 |  |  |

# 1.4 Release Components

This chapter describes the released hardware and components in this version.

| Component                                                                                                   | Description                                                                                                                                                                                                                                |  |  |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Micom Rom                                                                                                   | ■ micom_MACHINE.rom                                                                                                                                                                                                                        |  |  |
| Boot Loader                                                                                                 | <ul><li>■ u-boot</li><li>■ MACHINE-fwdn.rom</li></ul>                                                                                                                                                                                      |  |  |
| Kernel                                                                                                      | ■ Linux Kernel 4.4.120 ■ Tc-boot-MACHINE.img                                                                                                                                                                                               |  |  |
| Device Tree Binary                                                                                          | ■ zImage-MACHINE-linux-lpd4321_sv0.1.dtb                                                                                                                                                                                                   |  |  |
| Root File System  automotive-linux-platform-image-MACHINE.ext4 (read only) home-directory.ext4 (read-write) |                                                                                                                                                                                                                                            |  |  |
| Cross Compiler                                                                                              | ■ complied compiler at build time, linaro gcc 7.2.1 2017.11, glibc 2.20                                                                                                                                                                    |  |  |
| Application Development Toolkit                                                                             | <ul> <li>telechips-als-v3.0.2-toolchain-cortexa53hf-neon-fp-armv8-opengl-wayland-ivi-qt5-x86_64-gcc-linaro-7.2.sh</li> <li>telechips-als-v3.0.2-toolchain-cortexa53hf-neon-fp-armv8-opengl-wayland-ivi-x86_64-gcc-linaro-7.2.sh</li> </ul> |  |  |
|                                                                                                             | telechips-als-v3.0.2-toolchain-cortexa53hf-neon-fp-armv8-opengl-wayland-x86_64-gcc-linaro-7.2.sh                                                                                                                                           |  |  |

## 1.5 Document List

| Folder        | Document                                                          | Remark                          |
|---------------|-------------------------------------------------------------------|---------------------------------|
| TCC803x Autom | otive Linux SDK-Release Note V3.0.2                               |                                 |
| TCC803x Autom | otive Linux SDK-Quick Start Guide                                 |                                 |
|               | TCC8030_CHIP_SPEC, TCC8031_CHIP_SPEC,                             |                                 |
| Datasheet     | TCC8033_CHIP_SPEC, TCC8034_CHIP_SPEC,                             |                                 |
| Dalasiicel    | TCC8030_FULL_SPEC, TCC8031_FULL_SPEC,                             |                                 |
|               | TCC8033_FULL_SPEC, TCC8034_FULL_SPEC                              |                                 |
|               | TCC803x Automotive Linux SDK-User Guide for IPC                   |                                 |
|               | TCCxxxx Automotive Linux SDK-Application Guide for Audio Manager  |                                 |
|               | TCCxxxx Automotive Linux SDK-Development Guide for Application    |                                 |
| SW            | TCCxxxx Automotive Linux SDK-User Guide for Firmware Update       |                                 |
| SVV           | TCCxxxx Automotive Linux SDK-Reference Manual for Supported Media |                                 |
|               | Format                                                            |                                 |
|               | TCCxxxx Auto.CE Common SDK-User Guide for LPDDR4 Configuration    |                                 |
|               | TCCxxxx Auto.CE Common SDK-User Guide for USB VBUS Control        |                                 |
|               | TCC803x Automotive Common Hardware-Quick Start Guide for EVB      | Summary of "User Guide for EVB" |
| HW            | TCC803x Automotive Common Hardware-User Guide for EVB             |                                 |
|               | Schematics                                                        | Folder for Board Schematics     |

# **2 RELEASE INFORMATION**

#### 2.1 SDK V3.0.2 (2018-09-06)

#### 2.1.1 New Feature/Improvement

- Kernel & Driver
  - Add IPC driver in kernel.
- Firmware Update
- It is the first release.
- Refer to the TCCxxxx Automotive Linux SDK-User Guide for Firmware Update.
- \\/iFi
  - Update firmware and clm file to synchronize with driver.
- CarPlay, iAP2, Rear/EarlyCamera, Bluetooth.
  - Refer to the document of each feature which is released separately.

#### 2.1.2 Notification

- 'ALS v3.0 rev.002' was tagged with als\_v3.0.2 of the v3.x branch.
- The iAP1 is deprecated.
- Tools git repository was replaced with FTP.
  - To use "download.sh", ncftp must be installed on your PC.
- Add signtool for secure boot.
- EarlyCamera & RearCamera not included temporary.

#### 2.1.3 Resolved Issues

| Feature         | Resolved Issue | Description |
|-----------------|----------------|-------------|
| Bootloader &    | Support NTFS   |             |
| Kernel & Driver |                |             |

#### 2.1.4 Known Issues & Workaround

| Feature                | Known Issue                                                            | Description                                                                                                                                                                                                       | Workaround |
|------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| GStreamer              | MP1 / MP2 Audio Codec is under development                             |                                                                                                                                                                                                                   |            |
| Media Player           | The video list is not visible                                          | <ul> <li>Step</li> <li>1. Change list mode in Audio (folder → meta)</li> <li>2. Change content (Audio → Video)</li> <li>3. Click list button</li> <li>Note: The normal operation in Folder List status</li> </ul> |            |
|                        | The audio meta list is not visible                                     | Step 1. Change list mode (folder → meta) and move track category 2. Move next page and select file 3. Click list button                                                                                           |            |
| Rear / Early<br>Camera | Refer to the release note for CarPlay SDK which is released separately |                                                                                                                                                                                                                   |            |
| CarPlay                | Refer to the release note for CarPlay SDK which is released separately |                                                                                                                                                                                                                   |            |
| iAP2                   | Refer to the release note for iAP2 SDK which is released separately    |                                                                                                                                                                                                                   |            |
| Bluetooth              | Refer to the release note for iAP2 SDK which is released separately    |                                                                                                                                                                                                                   |            |

## 2.2 SDK V3.0.1 (2018-07-19)

#### 2.2.1 New Feature/Improvement

- Add EarlyCamera feature. CarPlay, iAP2
- - Refer to the document of each feature which is released separately.

#### 2.2.2 Notification

- 'ALS v3.0 rev.001' was tagged with als\_v3.0.1 of the v3.x branch.
- The iAP1 in next version will be deprecated.

#### 2.2.3 Resolved Issues

| Feature     | Resolved Issue                                                | Description |
|-------------|---------------------------------------------------------------|-------------|
| ALSA        | Fix ALSA dmix plugin did not work                             |             |
| Door Comoro | Support Early camera                                          |             |
| Rear Camera | Fix using parking guide line in splash partition did not work |             |

#### 2.2.4 Known Issues & Workaround

| Feature                         | Known Issue                                                            | Description                                                                                                                                                    | Workaround |
|---------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Bootloader &<br>Kernel & Driver | NTFS not support                                                       |                                                                                                                                                                |            |
| GStreamer                       | MP1 / MP2 Audio Codec is under development                             |                                                                                                                                                                |            |
| Media Player                    | The video list is not visible                                          | Step 1. Change list mode in Audio (folder → meta) 2. Change content (Audio → Video) 3. Click list button Note: The normal operation in Folder List status Step |            |
|                                 | The audio meta list is not visible                                     | <ol> <li>Change list mode (folder → meta) and move track category</li> <li>Move next page and select file</li> <li>Click list button</li> </ol>                |            |
| CarPlay                         | Refer to the release note for CarPlay SDK which is released separately |                                                                                                                                                                |            |
| iAP2                            | Refer to the release note for iAP2 SDK which is released separately    |                                                                                                                                                                |            |
| Bluetooth                       | Connection trying will fail during searching device                    |                                                                                                                                                                |            |

#### 2.3 SDK V3.0.0 (2018-05-31)

#### 2.3.1 New Feature/Improvement

- Update Yocto Project(2.2 Morty → 2.4 Rocko)
- Bootloader & Kernel & Drivers
  - Bootloader has changed from lk to u-boot. (2016.01)
  - Changed kernel version. (version: 4.4.120)
- Bluetooth
  - V6.8.3, 2018-05-17
  - Support new BT module. (TCM3840)
- Improve recovery function for unexpected error.
- Fix pairing problem with iPhone.
- WiFi
  - Driver: 1.363.48(r.013) / Firmware: 9.40.74
- Add TCM8040 WiFi Driver. (station / softap)
- Rear Camera
  - Add videosource driver to control video decoder.
  - Change IOCTL command.
- GStreamer
  - Change MP3 audio decoder source provider.
  - From Telechips to OSS (Android)
  - Change AAC audio decoder source provider.
  - From Telechips to OSS (Fraunhofer FDK AAC)
  - Change AAC audio decoder specification.
  - Remove LTP, main profile
  - Add ELD profile
  - Change decoded video information structure.
    - · Add Chip dependent feature
- CarPlay, iAP2
  - Refer to the document of each feature which is released separately.

#### 2.3.2 Notification

- Only Support TCC803x.
- Miracast is deprecated.
- TCC803x does not support X11 graphic system, but only supports wayland graphic system.
- 'ALS v3.0' was tagged with asl\_v3.0.0 of the v3.x branch.

#### 2.3.3 Known Issues & Workaround

| Feature                      | Known Issue                                                            | Description                                                                                                                                                                                                       | Workaround |
|------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Bootloader & Kernel & Driver | NTFS not support                                                       |                                                                                                                                                                                                                   |            |
| ALSA                         | ALSA lib cannot work dmix plugin                                       |                                                                                                                                                                                                                   |            |
| GStreamer                    | MP1 / MP2 Audio Codec is under development                             |                                                                                                                                                                                                                   |            |
| Media Player                 | The video list is not visible                                          | <ul> <li>Step</li> <li>1. Change list mode in Audio (folder → meta)</li> <li>2. Change content (Audio → Video)</li> <li>3. Click list button</li> <li>Note: The normal operation in Folder List status</li> </ul> |            |
| iviedia Playei               | The audio meta list is not visible                                     | Step 1. Change list mode (folder → meta) and move track category 2. Move next page and select file 3. Click list button                                                                                           |            |
|                              | Early camera not support yet                                           |                                                                                                                                                                                                                   |            |
| Rear Camera                  | Using parking guide line in splash partition doesn't work              |                                                                                                                                                                                                                   |            |
| CarPlay                      | Refer to the release note for CarPlay SDK which is released separately |                                                                                                                                                                                                                   |            |
| iAP2                         | Refer to the release note for iAP2 SDK which is released separately    |                                                                                                                                                                                                                   |            |
| Bluetooth                    | Connection trying will fail during searching device                    |                                                                                                                                                                                                                   |            |

# **APPENDIX**

# **3 PACKAGE INFORMATION**

# 3.1 SDK Root File System Image Information

|                | Image information                                                |  |  |
|----------------|------------------------------------------------------------------|--|--|
| distro         | poky-telechips-systemd                                           |  |  |
| size(KB)       | 239,272(wayland)                                                 |  |  |
| distro version | 2.4.3                                                            |  |  |
| user classes   | buildstats                                                       |  |  |
| image features | debug-tweaks read-only-rootfs                                    |  |  |
| image linguas  | ko-kr ko-kr.euc-kr en-gb en-gb.iso-8859-1 en-us en-us.iso-8859-1 |  |  |
|                | packagegroup-core-boot-telechips-ivi                             |  |  |
|                | customize-rootfs                                                 |  |  |
|                | dbus                                                             |  |  |
|                | alsa-utils                                                       |  |  |
|                | alsa-state                                                       |  |  |
|                | tc-update-tool                                                   |  |  |
|                | tc-write-misc                                                    |  |  |
|                | kmod                                                             |  |  |
|                | tc-enable-removable-disk                                         |  |  |
|                | android-tools                                                    |  |  |
|                | logcat                                                           |  |  |
|                | wayland                                                          |  |  |
|                | weston-init                                                      |  |  |
|                | weston-examples                                                  |  |  |
|                | qtbase                                                           |  |  |
|                | qtbase-plugins                                                   |  |  |
| image install  | qtwayland                                                        |  |  |
| image matan    | qtwayland-plugins                                                |  |  |
|                | gstreamer1.0-meta-audio                                          |  |  |
|                | gstreamer1.0-meta-video                                          |  |  |
|                | gstreamer1.0-meta-extra                                          |  |  |
|                | packagegroup-pulseaudio-telechips                                |  |  |
|                | kernel-modules-vpu                                               |  |  |
|                | kernel-module-ufsd                                               |  |  |
|                | sqlite3                                                          |  |  |
|                | ttf-nanum-font                                                   |  |  |
|                | tzdata                                                           |  |  |
|                | tzdata-posix                                                     |  |  |
|                | telechips-automotive-linux-apps                                  |  |  |
|                | kernel-modules                                                   |  |  |
|                | glibc-gconv-utf-16                                               |  |  |
|                | glibc-gconv-utf-32                                               |  |  |
|                | glibc-gconv-euc-kr                                               |  |  |
|                | glibc-gconv-libksc                                               |  |  |

# 3.2 Installed Packages

| Packages           | Version                              | Licenses                                                                                                                                                     | Detail packages                               |
|--------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| acl                | 2.2.52                               | COPYING COPYING.LGPL generic_GPLv2 generic_LGPLv2.1                                                                                                          | libacl1                                       |
|                    |                                      | recipeinfo                                                                                                                                                   |                                               |
| alsa-lib           | 1.1.4.1                              | COPYING generic_GPLv2                                                                                                                                        | alsa-conf                                     |
| aloa lib           | generic_LGPLv2.1 recipeinfo socket.c |                                                                                                                                                              | libasound2                                    |
|                    |                                      | attributes.m4 COPYING COPYING.GPL                                                                                                                            | libasound-module-pcm-pulse                    |
| alsa-plugins       | 1.1.4                                | generic_GPLv2 generic_LGPLv2.1                                                                                                                               | libasound-module-ctl-pulse                    |
| aloa piagilio      |                                      | rate_samplerate.c recipeinfo                                                                                                                                 | libasound-module-conf-pulse                   |
|                    |                                      |                                                                                                                                                              | alsa-plugins-pulseaudio-conf                  |
| alsa-state         | 0.2.0                                | COPYING.MIT generic_MIT recipeinfo                                                                                                                           | alsa-state                                    |
|                    |                                      | 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2                                                                                                                     | alsa-states                                   |
|                    |                                      |                                                                                                                                                              | alsa-utils-aplay                              |
|                    |                                      |                                                                                                                                                              | alsa-utils-amixer                             |
|                    |                                      |                                                                                                                                                              | alsa-utils-aseqnet                            |
|                    |                                      |                                                                                                                                                              | alsa-utils-alsactl                            |
|                    |                                      |                                                                                                                                                              | alsa-utils-iecset                             |
|                    |                                      | CODVING ganaria CDI v2 reginainte                                                                                                                            | alsa-utils-alsaucm                            |
| alsa-utils         | 1.1.4                                | COPYING generic_GPLv2 recipeinfo utils.c                                                                                                                     | alsa-utils-midi                               |
|                    |                                      | utiis.c                                                                                                                                                      | alsa-utils-speakertest<br>alsa-utils-alsatplg |
|                    |                                      |                                                                                                                                                              | alsa-utils-alsanixer                          |
|                    |                                      |                                                                                                                                                              | alsa-utils-alsarriixer<br>alsa-utils-aseqdump |
|                    |                                      |                                                                                                                                                              | alsa-utils-alsaloop                           |
|                    |                                      |                                                                                                                                                              | alsa-utils-aconnect                           |
|                    |                                      |                                                                                                                                                              | alsa-utils                                    |
| android-tools      | 4.2.2+git2013021<br>8+3ubuntu13      | Apache-2.0 BSD-2-Clause BSD-3-<br>Clause copyright generic_Apache-2.0<br>generic_BSD-2-Clause generic_BSD-3-<br>Clause generic_GPL-2.0 GPL-2.0<br>recipeinfo | android-tools                                 |
| android-tools-conf | 1.0                                  | generic_MIT MIT recipeinfo                                                                                                                                   | android-tools-conf                            |
| attr               | 2.4.47                               | attr.c COPYING generic_GPLv2<br>generic_LGPLv2.1 libattr.c recipeinfo                                                                                        | libattr1                                      |
| audiomanager       | 7.0                                  | generic_MPLv2 LICENCE recipeinfo                                                                                                                             | audiomanager                                  |
| base-files         | 3.0.14                               | generic_GPLv2 GPL-2 recipeinfo                                                                                                                               | base-files                                    |
| bash               | 4.4                                  | COPYING generic_GPLv3 recipeinfo                                                                                                                             | bash                                          |
|                    |                                      | generic_bzip2 generic_GPLv2 LICENSE                                                                                                                          | busybox-udhcpc                                |
| busybox            | 1.24.1                               | recipeinfo                                                                                                                                                   | busybox-syslog                                |
|                    |                                      | ·                                                                                                                                                            | busybox                                       |
| bzip2              | 1.0.6                                | generic_bzip2 LICENSE recipeinfo                                                                                                                             | libbz2-1                                      |
| ca-certificates    | 20170717                             | copyright generic_GPL-2.0<br>generic_MPL-2.0 recipeinfo                                                                                                      | ca-certificates                               |
| cairo              | 1.14.10                              | COPYING generic_GPLv3<br>generic_LGPLv2.1 generic_MPL-1<br>recipeinfo                                                                                        | libcairo2                                     |
| curl               | 7.58.0                               | COPYING generic_MIT recipeinfo                                                                                                                               | libcurl4                                      |
| customize-rootfs   | 1.0.0                                | generic_Telechips recipeinfo Telechips                                                                                                                       | customize-rootfs                              |
| dbus               | 1.10.20                              | COPYING dbus.h generic_AFL-2                                                                                                                                 | dbus-1                                        |
| dbus               | 1.10.20                              | generic_GPLv2 recipeinfo                                                                                                                                     | libdbus-1-3                                   |
| dlt-daemon         | 2.11.1                               | generic_MPLv2 LICENSE.txt MPL.txt recipeinfo                                                                                                                 | dlt-daemon                                    |
| dnsmasq            | 2.71                                 | COPYING COPYING-v3 generic_GPLv2 generic_GPLv3 recipeinfo                                                                                                    | dnsmasq                                       |
|                    |                                      | COPYING e2p.h et_name.c ext2fs.h                                                                                                                             | e2fsprogs-e2fsck                              |
|                    | 1.43.5                               |                                                                                                                                                              | libcom-err2                                   |
| e2fsprogs          |                                      | generic_BSD generic_GPLv2<br>generic_LGPLv2 generic_MIT NOTICE                                                                                               | libe2p2                                       |
|                    |                                      | recipeinfo ss.h uuid.h.in                                                                                                                                    | e2fsprogs-mke2fs                              |
|                    |                                      | ·                                                                                                                                                            | libext2fs2                                    |
| expat              | 2.2.3                                | COPYING generic_MIT recipeinfo                                                                                                                               | libexpat1                                     |
| flac               | 1.3.2                                | all.h.0 all.h.1 COPYING.FDL<br>COPYING.GPL COPYING.LGPL<br>COPYING.Xiph generic_BSD                                                                          | libflac8                                      |

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| Packages                 | Version          | Licenses                                                                                             | Detail packages                                                                  |
|--------------------------|------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                          |                  | generic_GFDL-1.2 generic_GPLv2                                                                       | ,                                                                                |
|                          |                  | generic_LGPLv2.1 main.c Makefile.am                                                                  |                                                                                  |
|                          |                  | recipeinfo                                                                                           | fontoonfig utilo                                                                 |
| fontconfig               | 2.12.4           | COPYING fccache.c fcfreetype.c generic_MIT generic_MIT-style                                         | fontconfig-utils                                                                 |
| Torticorning             | 2.12.4           | generic_PD recipeinfo                                                                                | libfontconfig1                                                                   |
|                          |                  | FTL.TXT generic_FreeType                                                                             |                                                                                  |
| freetype                 | 2.8              | generic_GPLv2 GPLv2.TXT                                                                              | libfreetype6                                                                     |
|                          |                  | LICENSE.TXT recipeinfo                                                                               |                                                                                  |
|                          |                  | COPYING COPYING3 COPYING3.LIB COPYING.LIB COPYING.RUNTIME                                            |                                                                                  |
| gcc-runtime              | linaro+7.2       | generic_GPL-3.0-with-GCC-exception                                                                   | libstdc++6                                                                       |
|                          |                  | recipeinfo                                                                                           |                                                                                  |
|                          |                  | COPYING gdk-pixbuf.h generic_LGPLv2                                                                  | libgdk-pixbuf-2.0-locale-ko                                                      |
| gdk-pixbuf               | 2.36.8           | recipeinfo                                                                                           | libgdk-pixbuf-2.0-0                                                              |
|                          |                  | COPYING.0 COPYING.1 COPYING.2                                                                        | libgdk-pixbuf-2.0-locale-en-gb                                                   |
|                          |                  | generic_BSD generic_LGPLv2                                                                           | libglib-2.0-locale-ko<br>libglib-2.0-locale-en-gb                                |
| glib-2.0                 | 2.52.3           | generic_PD glib.h gmodule.h pcre.h                                                                   |                                                                                  |
|                          |                  | recipeinfo                                                                                           | libglib-2.0-0                                                                    |
|                          |                  | COPYING COPYING.LIB COPYRIGHT                                                                        | libc6                                                                            |
| glibc                    | linaro+2.20      | generic_GPLv2 generic_LGPLv2.1                                                                       | ldd                                                                              |
|                          |                  | LICENSES recipeinfo                                                                                  | glibc-binary-localedata-ko-kr.euc-kr                                             |
|                          |                  |                                                                                                      | glibc-binary-localedata-ko-ki.euc-ki<br>glibc-binary-localedata-en-us.iso-8859-1 |
|                          |                  |                                                                                                      | locale-base-en-us                                                                |
|                          |                  |                                                                                                      | glibc-binary-localedata-ko-kr                                                    |
|                          |                  |                                                                                                      | glibc-gconv-libksc                                                               |
|                          |                  |                                                                                                      | glibc-binary-localedata-en-gb                                                    |
|                          |                  |                                                                                                      | locale-base-en-us.iso-8859-1                                                     |
|                          |                  |                                                                                                      | glibc-gconv-euc-kr                                                               |
| gliba lagala             | linara i 2 20    | generic_GPLv2 generic_LGPLv2.1 GPL-                                                                  | glibc-binary-localedata-en-gb.iso-8859-1                                         |
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| kmod               | 24+git0+ef4257b | COPYING generic_GPL-2.0                                                                                                        | kmod                                      |
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| proces  3.3.12  COPYING COPYINGLIB generic_GPLv2 generic_LGPLv2 recipeinto  pulseaudio-module-cli-protocol-unix pulseaudio-module-udev-detect libpulseacore pulseaudio-module-detect pulseaudio-module-detect pulseaudio-module-detect pulseaudio-module-miler-protocol-unix pulseaudio-module-miler-protocol-unix pulseaudio-module-detect pulseaudio-module-miler-protocol-unix pulseaudio-module-detect pulseaudio-module-stream-restore pulseaudio-module-stream-restore pulseaudio-module-enter-protocol-unix pulseaudio-module-detect pulseaudio-module-detect pulseaudio-module-detect pulseaudio-module-stream-restore pulseaudio-module-enter-protocol-unix pulseaudio-module-detect pulseaudio-module-enter-protocol-unix pulseaud |                  |                  |                                                                                                                                    | kernel-module-vpu-lib-4.4.120-tcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| proces  3.3.12  COPYING COPYING LIB generic_GRLV2 procession pulseaudio-module-di-protocol-unix pulseaudio generic_gruphic procession pulseaudio-module-di-protocol-unix pulseaudio generic_gruphic pulseaudio-module-delevide-detect libruis-corre pulseaudio-module-delevide-detect pulseaudio-module-augment-proporties pulseaudio-module-augment-proporties pulseaudio-module-delevide-proced-unix pulseaudio-module-delevide-proced-unix pulseaudio-module-delevide-proced-unix pulseaudio-module-delevide-proced-unix pulseaudio-module-delevide-proced-unix pulseaudio-module-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delevide-delev |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| proces  3.3.12 generic_GPLv2 generic_LGPLv2 recipiento  pulseaudio pulseaudio-module-cil-protocol-unix pulseaudio-module-delect libpulseore pulseaudio-module-delect libpulseore pulseaudio-module-delect libpulseore pulseaudio-module-delect pulseau |                  |                  |                                                                                                                                    | prebuilt-modules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| pulseaudio module-udev-detect libbuseore pulseaudio-module-udev-detect libbuseore pulseaudio-module-augment-properties pul | procps           | 3.3.12           | generic_GPLv2 generic_LGPLv2                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio nordule-detect pulseaudio-module-augment-properties pulseaudio-module-augment-properties pulseaudio-module-augment-properties pulseaudio-module-autre-proposition pulseaudio-module-attraine-protocol-unix pulseaudio-module-attraine-protocol-unix pulseaudio-module-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine-proposition-attraine- |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  adrian-aec.h adrian-license.txt AGPL biquad h generic BSD 3-Clause generic LGPL2.1 generic MT GPL LGENES LICENSE GPLV3 LICENSE GPLV3 LICENSE LICENSE GPLV3 generic LGPL-3.0 generic LGPL-3.0 generic LGPL-2.1 generic LGPL-3.0 generic LGPL-3.0 generic LGPL-2.1 generic LGPL-3.0 generic LGPL-2.1 generic LGPL-3.0 generic LGPL-2.1 generic LGPL-3.0 generic LGPL-3.0 generic LGPL-2.1 generic LGPL-3.0 generic LGPL-3 generic LGPL-3.0 generic LGPL-3 |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio de la pulseaudio module native protocol-unix pulseaudio module retram-restore pulseaudio module de la sa-sink pulseaudio module device restore  |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio-module-siteam-restore pulseaudio-module-siteam-restore pulseaudio-module-siteam-restore pulseaudio-module-siteam-restore pulseaudio-module-siteam-restore pulseaudio-module-siteam-restore pulseaudio-module-siteam-sink pulseaudio-module-rescue-streams pulseaudio-module-default-device- restore pulseaudio-module-default-device- restore restore generic LGPL2.1 generic MT GPL LGPL LICENSE UCENSE WEBKIT qpaeq recipeinfo resampler.h reserve.h rkit.h  rkit.h  generic_BSD generic_GFDL-1.3  generic_BSD generic_GFDL-1.3  generic_LGPL-2.1 generic_GFDL-1.3  generic_LGPL-2.1 generic_LGPL-3  generic_LGPL-3.1 generic_LGPL-3  generic_LGPL-3.2 generic_LGPL-3   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio-module-streams pulseaudio-module-streams pulseaudio-module-defaut-heuristics pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-defaut-device-restore pulseaudio-module-device-restore pulseaudio-module-dev |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio 10.0 10.0 adrian-license.txt AGPL biquad.h generic_BSD-3-Clause generic_LGPL_21 generic_MIT GPL LGPL ELCENSE WEBKIT qaeq recipeinfo resampler.h reserve.h rikit.h pulseaudio-module-derianded-rolex pulseaudio-module-derianded-rolex pulseaudio-module-derianded-rolex pulseaudio-module-card-restore pulseaudio-module-derice-restore pulseaudio-module-derice |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| adrian-aec.h adrian-license.txt AGPL bliquad.h generic_LGPLv2.1 generic_MT GPL LGPL LICENSE LICENSE WEBKIT qpaeq recipeinfo resampler.h reserve.h rkkt.h  question rkkt.h  question rkkt.h  question reserve.h rkkt.h  question rkkt.h  question rkkt.h  question reserve.h rkkt.h  question rkkt.h  question reserve.h rkkt.h  question rkkt.h  question reserve.h ruse.h reserve.h ruse.h reserve.h ruse.h ruse.h reserve.h ruse.h reserve.h ruse.h ruse.h reserve.h ruse.h ruse |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| pulseaudio  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0  10.0   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtdeclarative  qtwayland  qtypase qecipeinfo resampler, h reserve, h rikit, h  qaeq recipeinfo resampler, h reserve, h pulseaudio-module-card-restore pulseaudio-module-device-restore pulseaudio-module-dev |                  |                  |                                                                                                                                    | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| qtbase  qtdeclarative  qtdeclarative  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtageq recipienfor resampler, h reserve, rikit.h  pulseaudio-module-card-restore pulseaudio-module-device-restore pulseaudio-module-intended-roles pulseaudio-module-position-event-sounds pulseaudio-module-position-event-sounds pulseaudio-module-suspend-on-idle pulseaudio-module-switch-on-port-available pulseaudio-module-switch-on-port-available pulseaudio-module-switch-on-port-available pulseaudio-module-alsa-card libpulsecommon pulseaudio-module-alsa-card libpulseaudio-module-alsa-card libpulseaudio-m | pulseaudio       | 10.0             |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  4  4  4  4  4  4  4  4  4  4  4  4  4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase-plugins  qtbase |                  |                  | TUNCH                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  4  qtbase  4  qtbase  4  qtbase  4  qtbase  4  qtbase  5  6  6  6  6  6  6  6  6  6  6  6  6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  qtbase  qtbase  4  qtbase  5.6.3+git0+e6f8b 072d2  qtbase  qtbase  qtbase  qtbase  qtbase  5.6.3+git0+b016 12a88  qtbase  qtbase  qtbase  qtbase  5.6.3+git0+b016 12a88  qtbase  qtbase  qtbase  qtbase  5.6.3+git0+b016 12a88  qtbase  qtbase  qtbase  5.6.3+git0+b016 12a88  qtbase  qtbase  5.6.3+git0+b016 12a88  qtbase  qtbase-plugins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  4 5.6.3+git0+e6f8b 072d2  qtdeclarative  qtwayland  qtype quartic server pulseaudio-module-alsa-card libpulsecommon pulseaudio-server pulseaudio-module-switch-on-port-available pulseaudio-module-switch-on-port-available pulseaudio-module-alsa-source qtbase  qtwayland  generic BSD generic GFDL-1.3 generic LGPL-3.0 generic LGPL-3.0 generic GFDL-1.3 generic GFDL-1.3 generic GFDL-1.3 generic GFDL-1.3 generic LGPL-3.0 generic GFDL-1.3 generic LGPL-3.0 |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  4 5.6.3+git0+e6f8b 072d2  qtdeclarative  qtwayland  qtyayland  qtyayland  qtyayland  qtyayland  qtyayland  qtyayland  qtyayland  qtyayland  qtyaylayland  qtyaylaylaylaylaylaylaylaylaylaylaylaylayl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  5.6.3+git0+e6f8b 072d2  qtbase  qtbase  5.6.3+git0+b016 12a88  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  pulseaudio-module-alsa-card libpulsecommon pulseaudio-module-switch-on-port-available pulseaudio-module-switch-on-port-available pulseaudio-module-suspend-on-idle pulseaudio-module-alsa-source qtbase  qtbase  generic_BSD generic_GFDL-1.3 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv3 lICENSE.LGPLv3 generic_GFDL-1.3 generic_GFDL-1.3 generic_GFDL-1.3 generic_The-Qt-Company-Qt-LGPL-Scoption-1.1 LGPL_EXCEPTION.txt LICENSE.GPLv3 lICENSE.LGPLv3 lICENSE.LGPLv3 lICENSE.LGPLv3 lICENSE.LGPLv3 lICENSE.LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Scoption-1.1 LGPL_EXCEPTION.txt LICENSE.GPL-3.0 generic_GFDL-1.3 generic_The-Qt-Company-Qt-LGPL-Scoption-1.1 LGPL_EXCEPTION.txt LICENSE.FDL lICENSE.GPLv3 lICENSE.LGPLv3 libetSwelpatteres lib |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  5.6.3+git0+e6f8b 072d2  qtbase  5.6.3+git0+b016 12a88  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  qtwayland  pulseaudio-module-alsa-card libpulsecommon pulseaudio-module-switch-on-port-available pulseaudio-module-suspend-on-idle pulseaudio-module-alsa-source qtbase  generic_LGPL-2.1 generic_LGPL-3.0 generic_LGPL-3.0 generic_BSD generic_LGPL-3.0 generic_BSD generic_GFDL-1.3 generic_LGPL-2.1 generic_LGPL-3.0 generic_LGPL-2.1 generic_LGPL-3.0 generic_LGPL- |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  appearic_BSD generic_GFDL-1.3 generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL- Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv3 LICENSE.GPLv3 recipeinfo generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL- Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv3 LICENSE.LGPLv3 recipeinfo generic_LGPL-2.1 generic_LGPL-3.0 generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL- Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 recipeinfo generic_BSD generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL- Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv21 LICENSE.GPLv3 recipeinfo generic_BSD generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-3.0 generic_GPL-3.0 generic_BSD generic_ToPt-2.1 generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-3.0 generic_GPL-3.0 generic_BSD generic_ToPt-3.0 generic_BSD generic_GFDL-1.3 libetFxwploatteres                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  5.6.3+git0+e6f8b 072d2  qtbase  qtbase  5.6.3+git0+b016 12a88  qtwayland  qtyayland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  qtbase  4.6.3+git0+e6f8b 072d2  generic_BSD generic_GFDL-1.3 generic_LGPL-2.1 generic_LGPL-3.0 generic_BSD generic_GFDL-1.3 lICENSE.LGPLv3 lLCENSE.LGPLv3 recipeinfo  qtwayland  qtwayland  qtwayland  qtwayland  pulseaudio-module-switch-on-port-available pulseaudio-module-alsa-source qtbase  generic_LGPL-2.1 generic_LGPL-3.0 generic_BLGPLv3 recipeinfo  generic_BSD generic_GFDL-1.3 generic_LGPL-3.0 generic_LGPL-3.0 generic_LGPL-3.0 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.GPLv3 lLCENSE.GPLv3 lLCENSE.LGPLv3 lLCENSE.LGPLv3 recipeinfo  generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-1.1 generic_LGPL-3.0 generic_ |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| qtbase  pulseaudio-module-suspend-on-idle pulseaudio-module-alsa-source qtbase  5.6.3+git0+e6f8b 072d2  generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv3 LICENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPL-2.1 generic_LGPL-3.0 generic_LGPL-3.0 generic_LGPL-3.1 generic_LGPL-3.0 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPLv3 lcENSE.LGPL-2.1 generic_LGPL-3.0 generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-LGPL-3.0 generic_The-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-3.0 generic_The-Qt-LGPL-3.0 |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| qtbase  5.6.3+git0+e6f8b 072d2  qtbase  5.6.3+git0+e6f8b 072d2  generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.GPLv3 recipeinfo  generic_LGPL-2.1 generic_LGPL-3.0 qtbase-plugins  LICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo  generic_LGPL-2.1 generic_LGPL-3.0 qtdeclarative-qmlplugins qtdeclarative  generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.GPLv3 LICENSE.GPLv3 LICENSE.LGPLv21 LICENSE.GPLv3 recipeinfo  qtwayland  4 generic_LGPL-3.0 generic_LGPL-3.1 generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.LGPLv3 recipeinfo  generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.LGPLv3 LICENSE.LGPL3 LICENSE.LGPL |                  |                  |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| qtdeclarative  5.6.3+git0+bb016 12a88  qtwayland  qtwayland  generic_BSD generic_GFDL-1.3 generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 LICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo generic_BSD generic_LGPL-2.1 generic_BSD generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt- Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 LICENSE.FDL LICENSE.GPLv3 LICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo generic_BSD generic_GFDL-1.3  ptwayland  generic_BSD generic_GFDL-1.3  ptwayland  generic_BSD generic_GFDL-1.3  ptwayland  generic_BSD generic_GFDL-1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | qtbase           |                  | generic_The-Qt-Company-Qt-LGPL-<br>Exception-1.1 LGPL_EXCEPTION.txt<br>LICENSE.FDL LICENSE.GPLv3<br>LICENSE.LGPLv21 LICENSE.LGPLv3 | qtbase-plugins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| qtwayland  5.6.3+git0+bb016 12a88  2.6.3+git0+bb016 12a88  generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 LICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo  generic_BSD generic_LGPL-2.1 generic_LGPL-3.0 generic_The-Qt-Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.GPLv3 LICENSE.FDL LICENSE.GPLv3 LICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo generic_BSD generic_GFDL-1.3  generic_BSD generic_GFDL-1.3  libgt5ymlosterse5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                  | generic_BSD generic_GFDL-1.3                                                                                                       | qtdeclarative-qmlplugins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| qtwayland  5.6.3+git0+70575 G43cf G43cf G43cf G5.6.3+git0+50582  generic_LGPL-3.0 generic_The-Qt- Company-Qt-LGPL-Exception-1.1 LGPL_EXCEPTION.txt LICENSE.FDL LICENSE.LGPLv3 lICENSE.LGPLv21 LICENSE.LGPLv3 recipeinfo  generic_GFDL-1.3  libgt5ymloattores                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                  |                                                                                                                                    | gtwayland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                          |         |                                                                         | ttf-nanum-font-barun-gothic         |
| ttf-nanum-font           | 1.0     | generic_NAVER generic_OFL-1.1                                           | ttf-nanum-font-pen                  |
| tti-nandiii-ioiit        | 1.0     | NAVER OFL-1.1 recipeinfo                                                | ttf-nanum-font                      |
|                          |         |                                                                         | ttf-nanum-font-brush                |
|                          |         |                                                                         | ttf-nanum-font-gothic               |
| tzdata                   | 2018c   | generic_BSD generic_BSD-3-Clause                                        | tzdata-posix                        |
|                          |         | generic_PD LICENSE recipeinfo                                           | tzdata                              |
| udev-extraconf           | 1.1     | COPYING MIT generic_MIT recipeinfo                                      | udev-extraconf                      |
|                          |         | COPYING.0 COPYING.1 COPYING.2 COPYING.BSD-3 COPYING.GPLv2               | util-linux-mount<br>util-linux-fsck |
| util-linux               | 2.3     | COPYING.BSD-3 COPYING.GPLV2 COPYING.LGPLv2.1 COPYING.UCB                | libuuid1                            |
|                          |         | generic_BSD generic_GPLv2                                               | util-linux-agetty                   |
|                          |         | gonono_555 gonono_61 E42                                                | atti iiitax agetty                  |



| Packages         | Version | Licenses                                                                                                                                                    | Detail packages               |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                  |         | generic_LGPLv2.1 README.licensing                                                                                                                           | libmount1                     |
|                  |         | recipeinfo                                                                                                                                                  | libblkid1                     |
|                  |         |                                                                                                                                                             | util-linux-umount             |
|                  |         |                                                                                                                                                             | util-linux-mkfs               |
|                  |         |                                                                                                                                                             | util-linux-sulogin            |
| volatile-binds   | 1.0     | COPYING.MIT generic_MIT recipeinfo                                                                                                                          | volatile-binds                |
| wayland          | 1.12.0  | COPYING generic_MIT recipeinfo wayland-server.c                                                                                                             | wayland                       |
| weston           | 1.12.0  | compositor.c COPYING generic_MIT                                                                                                                            | weston-examples               |
| weston           |         | recipeinfo                                                                                                                                                  | weston                        |
| weston-init      | 1.0     | COPYING.MIT generic_MIT recipeinfo                                                                                                                          | weston-init                   |
|                  |         | COPYING generic_MIT generic_MIT-                                                                                                                            | xkeyboard-config              |
| xkeyboard-config | 2.21    | style recipeinfo                                                                                                                                            | xkeyboard-config-locale-ko    |
|                  |         | Style recipeniio                                                                                                                                            | xkeyboard-config-locale-en-gb |
| XZ               | 5.2.3   | COPYING COPYING.GPLv2 COPYING.GPLv3 COPYING.LGPLv2.1 generic_GPL-3.0-with-autoconf- exception generic_GPLv2 generic_LGPLv2.1 generic_PD getopt.c recipeinfo | liblzma5                      |
| zlib             | 1.2.11  | generic_Zlib recipeinfo zlib.h                                                                                                                              | libz1                         |

# **4 QA RESULT**

#### 4.1 New QA Issues to be resolve next version

| Priority       | Summary                                                     | TIMS ID   |
|----------------|-------------------------------------------------------------|-----------|
|                | Content can not be played.                                  | ID103A-46 |
|                | Display Black Screen when removing SD card after inserting. | ID103A-52 |
|                | No partial audio playback.                                  | ID103A-44 |
| Major          | Seek delay(Over 3 secs)                                     | ID103A-51 |
| Major<br>Minor | UI does not work when pause and resume                      | ID103A-45 |
|                | Video abnormal output.                                      | ID103A-49 |
|                | Video noise                                                 | ID103A-47 |
|                | Pop-Noise occurs temporarily when BT Call is received.      | ID103A-55 |
|                | USB UI disappears at the top when USB is disconnected       | ID103A-54 |
|                | Vol Control UI does not match the actual Vol                | ID103A-56 |

# 4.2 QA Issues compared to previous release(v3.0.1)

| <b>Priority</b> | Summary                                                                                    | TIMS ID              |
|-----------------|--------------------------------------------------------------------------------------------|----------------------|
| Critical        | System hang when unplugging USB during SD movie playback                                   | ID103A-11            |
|                 | LCD screen trembling phenomenon                                                            | ID103A-12            |
|                 | When the audio / video is alternately playback, the video is playback from the beginning   | ID103A-13            |
|                 | Operate A/V Player after iPod Devices Connected.                                           | <del>ID103Λ-24</del> |
|                 | Not operate USB Mouse after Bluetooth Menu entry.                                          | ID103A-26            |
|                 | <del>Video Aging doesn't play video</del>                                                  | ID103A-3             |
|                 | Device connection status does not output Speaker after (iPod Device) reset action.         | ID103A-33            |
| Major           | Call ended when External Device is connected during call                                   | ID103A-34            |
|                 | Unable to return to Launcher screen when USB or SD is ejected                              | ID103A-6             |
|                 | Camera switch up and down during the booting up, the switch is down, camera won't turn off | ID103A-39            |
|                 | Do not display video when specific Interlace video played                                  | ID103A-40            |
|                 | Do not display video when 4K HEVC video played                                             | ID103A-41            |
|                 | A temporary break when BT Audio music is played.                                           | ID103A-43            |
|                 | Temporarily unable to recognize SD card.                                                   | ID103A-42            |
| Minor           | No automatic playback on connection with iPod Devices power off.                           | ID103A-36            |
|                 | Playback information not displayed.                                                        | ID103A-28            |
| IVIIIIOI        | Rear Camera Preview and CarPlay screen overlap                                             | ID103A-32            |
|                 | Not Operate Read/unread Menu after MAP Menu entry.                                         | ID103A-35            |

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