

# technicolor



**UIW4030DNM**

**v1.6-PEARLA-B-1.0.4**

**Open Source Report**

This document aims to describe the Open Source Software which are embedded in product  
UIW4030DNM

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# UIW4030DNM

## Open Source Report

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<b>Product</b>	UIW4030DNM
<b>Version</b>	v1.6-PEARLA-B-1.0.4
<b>Open Source Modules</b>	450

## Open Source Report

Module Name	Module Version	Module License
abi/cpp/libgabi++	undefined	BSDlike
art/compiler/libart-compiler	android-cts-7.1_r13	Apache-2.0
art/dalvikvm/dalvikvm	android-cts-7.1_r13	Apache-2.0
art/dex2oat/dex2oat	android-cts-7.1_r13	Apache-2.0
art/dexlist/dexlist	android-cts-7.1_r13	Apache-2.0
art/disassembler/libart-disassembler	android-cts-7.1_r13	Apache-2.0
art/libart_fake/libart_fake	android-cts-7.1_r13	Apache-2.0
art/oatdump/oatdump	android-cts-7.1_r13	Apache-2.0
art/patchoat/patchoat	android-cts-7.1_r13	Apache-2.0
art/profman/profman	android-cts-7.1_r13	Apache-2.0
art/runtime/libart	android-cts-7.1_r13	Apache-2.0
art/runtime/libopenjdkvm	android-cts-7.1_r13	Apache-2.0
art/sigchainlib/libsigchain	android-cts-7.1_r13	Apache-2.0
bionic/libc/libc	android-7.1.1_r13-5-g2f12f98	BSDlike
bionic/libc/libstdc++	android-7.1.1_r13-5-g2f12f98	BSDlike
bionic/libc/malloc_debug/libc_malloc_debug	android-7.1.1_r13-5-g2f12f98	BSDlike
bionic/libdl/libdl	android-7.1.1_r13-5-g2f12f98	BSDlike
bionic/libm/libm	android-7.1.1_r13-5-g2f12f98	BSDlike
bionic/linker/linker	android-7.1.1_r13-5-g2f12f98	Apache-2.0
bootable/recovery/applypatch/applypatch	android-cts-7.0_r17-81-ge170851	Apache-2.0, BSDlike
bootable/recovery/recovery	android-cts-7.0_r17-76-gd900560	Apache-2.0
bootable/recovery/uncrypt/uncrypt	android-cts-7.0_r17-76-gd900560	Apache-2.0
common/vmlinux	b9b272c	GPL-2.0-with-LT-exception
dalvik/dexdump/dexdump	android-cts-7.1_r13	Apache-2.0
device/technicolor/pearl/tools/rsa_keymaster/librsa_keymaster	5088128	Apache-2.0, BSDlike
external/android-clat/clatd	android-cts-7.1_r13	Apache-2.0
external/boringssl/libcrypto	android-cts-7.1_r3-3-gb50bb7d	BSDlike
external/boringssl/libssl	android-cts-7.1_r3-3-gb50bb7d	BSDlike
external/chromium-libpac/libpac	android-cts-7.1_r13	BSDlike
external/compiler-rt/libcompiler_rt	android-cts-7.1_r13	MIT
external/conscrypt/libjavacrypto	android-cts-7.0_r3-11-g0d671ce	Apache-2.0
external/curl/libcurl	android-cts-7.1_r13	MIT
external/dng_sdk/libdng_sdk	android-cts-7.1_r16-1-g150be37	BSD
external/dnsmasq/src/dnsmasq	android-cts-7.1_r16-2-g4fed9f9	GPL-v2
external/e2fsprogs/e2fsck/e2fsck	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/e2fsck/libext2_profile	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/lib/blkid/libext2_blkid	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/lib/e2p/libext2_e2p	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/lib/et/libext2_com_err	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/lib/ext2fs/libext2fs	android-cts-7.1_r13	GPL-v2

## Open Source Report

Module Name	Module Version	Module License
external/e2fsprogs/lib/quota/libext2_quota	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/lib/uuid/libext2_uuid	android-cts-7.1_r13	BSDlike
external/e2fsprogs/misc/blkid	android-cts-7.1_r13	GPL-v2
external/e2fsprogs/resize/resize2fs	android-cts-7.1_r13	GPL-v2
external/expat/libexpat	android-cts-7.1_r13-3-gfc4f81d	BSDlike
external/f2fs-tools/fsck.f2fs	android-cts-7.1_r13	LGPL-v2.1
external/f2fs-tools/make_f2fs	android-cts-7.1_r13	LGPL-v2.1
external/freetype/libft2	android-cts-7.1_r13	BSDlike
external/fsck_msdos/fsck_msdos	android-cts-7.1_r13	BSDlike
external/gptfdisk/sgdisk	android-cts-7.1_r13	GPL-v2
external/harfbuzz_ng/libharfbuzz_ng	android-cts-7.1_r13	BSDlike, MITlike
external/icu/icu4c/source/common/libicuuc	android-7.1.1_r58	BSD, MITlike
external/icu/icu4c/source/i18n/libicui18n	android-7.1.1_r58	BSD, MITlike
external/iproute2/ip/ip	android-cts-7.1_r13	GPL-v2
external/iproute2/lib/libiprouteutil	android-cts-7.1_r13	GPL-v2
external/iproute2/lib/libnetlink	android-cts-7.1_r13	GPL-v2
external/iproute2/tc/tc	android-cts-7.1_r13	GPL-v2
external/ipsec-tools/racoon	android-cts-7.1_r13	BSDlike
external/iptables/iptables/ip6tables	android-cts-7.1_r13	GPL-v2
external/iptables/iptables/iptables	android-cts-7.1_r13	GPL-v2
external/iputils/ping	android-cts-7.1_r13	BSDlike
external/iputils/ping6	android-cts-7.1_r13	BSDlike
external/libcap/libcap	android-cts-7.1_r13	BSDlike
external/libchrome/libchrome	android-cts-7.1_r13	BSDlike
external/libcxx/libc++	android-cts-7.1_r13	BSDlike
external/libevent/libevent	android-cts-7.1_r13	BSDlike
external/libexif/libexif/libexif	android-cts-7.1_r13	LGPL-v2.1
external/libjpeg-turbo/libjpeg	android-cts-7.1_r13	BSDlike, IJG, zlib
external/libnfc-nxp/libnfc_ndef	android-cts-7.1_r13	Apache-2.0
external/libnl/libnl	android-cts-7.0_r17-2-g8adb4be	LGPL-v2.1
external/libopus/libopus	android-cts-7.0_r17-1-g5b54ccc	BSDlike
external/libpng/libpng	android-cts-7.1_r13-1-gea53ef1	BSDlike
external/libunwind/libunwind	android-cts-7.1_r13	MIT
external/llvm/libllvm	android-cts-7.1_r13	BSDlike
external/lz4/lib/liblz4	android-cts-7.1_r13	BSDlike
external/mdnsresponder/libmdnssd	android-cts-7.1_r13	Apache-2.0
external/mdnsresponder/mdnsd	android-cts-7.1_r13	Apache-2.0
external/minijail/libminijail	android-cts-7.1_r13	BSDlike
external/mksh/sh	android-cts-7.1_r13	BSDlike
external/mtpd/mtpd	android-cts-7.1_r13	Apache-2.0
external/neven/libfftem	android-cts-7.1_r13	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
external/opencv3/libtiff	android-cts-7.1_r13	BSDlike
external/parameter-framework/libparameter	android-cts-7.1_r13	BSDlike
external/parameter-framework/libremote-processor-no-networking	android-cts-7.1_r13	BSDlike
external/pcre/libpcre	android-cts-7.1_r13	BSD
external/pcre/libpcrecpp	android-cts-7.1_r13	BSD
external/pdfium/fpdfsdk/libpdfium	android-cts-7.1_r13	BSDlike
external/piex/libbinary_parse	android-cts-7.1_r13	Apache-2.0
external/piex/libimage_type_recognition	android-cts-7.1_r13	Apache-2.0
external/piex/libpiex	android-cts-7.1_r13	Apache-2.0
external/piex/libtiff_directory	android-cts-7.1_r13	Apache-2.0
external/ppp/pppd/pppd	android-cts-7.1_r13-1-ge2ccb68	BSDlike
external/protobuf/libprotobuf-cpp-full	android-cts-7.1_r13	Apache-2.0
external/protobuf/libprotobuf-cpp-lite	android-cts-7.1_r13	Apache-2.0
external/sbc/libsbcb	1.3	LGPL-v2.1
external/skia/libskia	android-cts-7.1_r13-10-g3697154	BSDlike
external/sonic/libsonic	android-cts-8.0_r5	Apache-2.0
external/sonivox/arm-wt-22k/libsonivox	android-cts-7.1_r19-7-g5f23630	Apache-2.0
external/speex/libspeexresampler	android-cts-7.1_r13	BSDlike
external/tinyalsa/libtinyalsa	android-cts-7.1_r13	BSDlike
external/tinyalsa/tinycap	android-cts-7.1_r13	BSDlike
external/tinyalsa/tinymix	android-cts-7.1_r13	BSDlike
external/tinyalsa/tinyplay	android-cts-7.1_r13	BSDlike
external/toybox/toybox	android-cts-7.0_r17-3-g23c61b5	BSDlike
external/tremolo/libvorbisidec	android-cts_7.1_r1-5-gfb11fa0	BSDlike
external/vixl/libvixl	android-cts-7.1_r13	BSDlike
external/webRTC/libwebrtc_audio_preprocessing	android-cts-7.1_r13	BSDlike
external/wpa_supplicant_8/hostapd/hostapd	android-cts-7.1_r16-16-ga52ec77	BSDlike
external/wpa_supplicant_8/wpa_supplicant/libwpa_client	android-cts-7.1_r16-16-ga52ec77	BSDlike
external/wpa_supplicant_8/wpa_supplicant/wpa_supplicant	android-cts-7.1_r16-16-ga52ec77	BSDlike
external/zlib/gzip	android-cts-7.1_r13-1-g768365f	BSDlike
external/zlib/libz	android-cts-7.1_r13-1-g768365f	BSDlike
frameworks/av/amlogic/libmedia_amlogic_support	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/camera/cameraserver/cameraserver	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/camera/libcamera_client	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/camera/ndk/libcamera2ndk	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/cmds/screenrecord/screenrecord	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/drm/drmserver/drmserver	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/drm/libdrmframework/libdrmframework	android-cts_7.1_r1-426-g600ade3	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
frameworks/av/drm/libmediadrm/libmediadrm	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/drm/mediadrm/plugins/clearkey/libdrmclearkeyplugin	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/audioserver/audioserver	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/img_utils/src/libimg_utils	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/libeffects/downmix/libdownmix	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libeffects/factory/libeffects	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/libeffects/loudness/libldnhncr	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libeffects/lvm/wrapper/libbundlewrapper	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libeffects/lvm/wrapper/libreverbwrapper	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libeffects/preprocessing/libaudiopreprocessing	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libeffects/proxy/libeffectproxy	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/libeffects/visualizer/libvisualizer	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libmedia/libmedia	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libmediaplayerservice/libmediaplayerservice	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libnbaio/libnbaio	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacdec/libstagefright_soft_aacdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacenc/libstagefright_soft_aacenc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/common/libstagefright_amrnb_common	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/dec/libstagefright_soft_amrdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/enc/libstagefright_soft_amrnbenc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrwbenc/libstagefright_soft_amrwbenc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/avc/common/libstagefright_avc_common	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcdec/libstagefright_soft_avcdec	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcenc/libstagefright_soft_avcenc	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/codecs/common/libstagefright_enc_common	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/enc/libstagefright_soft_flacenc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/g711/dec/libstagefright_soft_g711dec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/gsm/dec/libstagefright_soft_gsmdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/hevcdec/libstagefright_soft_hevcdec	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/codecs/m4v_h263/dec/libstagefright_soft_mpeg4dec	android-cts_7.1_r1-426-g600ade3	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
frameworks/av/media/libstagefright/codecs/m4v_h263/enc/libstagefright_soft_mpeg4enc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/mp3dec/libstagefright_soft_mp3dec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/mpeg2dec/libstagefright_soft_mpeg2dec	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/dec/libstagefright_soft_vpxdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/enc/libstagefright_soft_vpxenc	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/opus/dec/libstagefright_soft_opusdec	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/codecs/raw/libstagefright_soft_rawdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/codecs/vorbis/dec/libstagefright_soft_vorbisdec	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/foundation/libstagefright_foundation	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/http/libstagefright_http_support	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/http/live/libstagefright_httplive	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/libstagefright	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/omx/libstagefright_omx	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/libstagefright/wifi-display/libstagefright_wfd	android-cts_7.1_r1-421-g0dbbc2e	Apache-2.0
frameworks/av/media/libstagefright/yuv/libstagefright_yuv	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/mediaserver/mediaserver	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/mtp/libmtp	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/media/ndk/libmediandk	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/media/utils/libmediautils	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/radio/libradio	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/audioflinger/libaudioflinger	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/audioflinger/libaudiorecorder	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/audioflinger/libbms12	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/audioflinger/libserviceutility	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/audiopolicy/engine/default/libaudiopolicyengine/default	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicymanager/default	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicy/service	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/camera/libcameraservice/libcameraservice	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/mediacodec/libmediacodec/service	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/mediacodec/mediacodec	android-cts_7.1_r1-426-g600ade3	Apache-2.0

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Module Name	Module Version	Module License
frameworks/av/services/mediadrmm/mediadrmservice	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/mediaextractor/libmediaextractorservice	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/mediaextractor/mediaextractor	android-cts_7.1_r1-426-g600ade3	Apache-2.0
frameworks/av/services/medialog/libmedialogservice	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/mediasourcemanager/libresourcemanager-service	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/radio/libradioservice	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/services/soundtrigger/libsoundtriggerservice	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/av/soundtrigger/libsoundtrigger	android-cts_7.1_r1-419-g7443c5c	Apache-2.0
frameworks/base/cmds/app_process/app_process	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/cmds/bootanimation/bootanimation	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/cmds/hid/jni/libhidcommand_jni	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/cmds/idmap/idmap	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/cmds/screencap/screencap	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/core/jni/libandroid_runtime	android-cts_7.1_r1-99-gf4bd2a2	Apache-2.0
frameworks/base/drm/jni/libdrmframework_jni	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/libs/androidfw/libandroidfw	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/libs/hwui/libhwui	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/libs/input/libinputservice	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/media/jni/audioeffect/libaudioeffect_jni	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/media/jni/libmedia_jni	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/media/jni/soundpool/libsoundpool	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/media/mca/filterfw/native/libfilterfw	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/media/mca/filterpacks/libfilterpack_imageproc	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/native/android/libandroid	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/native/graphics/jni/libjni-graphics	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/packages/defaultcontainerservice/jni/libdefcontainer_jni	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/packages/printspooler/jni/libprintspooler_jni	android-cts_7.1_r1-101-g72e717f	Apache-2.0
frameworks/base/packages/services/pacprocessor/jni/libjni_pacprocessor	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/rs/jni/librs_jni	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/base/services/libandroid_servers	android-cts_7.1_r1-77-g1a95e23	Apache-2.0
frameworks/compile/libbcc/bcinfo/libbccinfo	android-cts-7.1_r13	Apache-2.0, MITlike
frameworks/compile/libbcc/libbcc	android-cts-7.1_r13	Apache-2.0, MITlike
frameworks/compile/libbcc/tools/bcc/bcc	android-cts-7.1_r13	Apache-2.0, MITlike



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Module Name	Module Version	Module License
frameworks/compile/mclinker/tools/mclld/ld.mc	android-cts-7.1_r13	BSDlike, MITlike
frameworks/minikin/libs/minikin/libminikin	android-cts-7.1_r14-2-ge905c8a	Apache-2.0
frameworks/native/cmds/atrace/atrace	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/cmds/bugreport/bugreport	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/cmds/bugreportz/bugreportz	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/cmds/cmd/cmd	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/cmds/dumpstate/dumpstate	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/cmds/dumpsys/dumpsys	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/cmds/installd/installd	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/cmds/ip-up-vpn/ip-up-vpn	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/cmds/service/service	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/cmds/servicemanager/ servicemanager	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/libs/binder/libbinder	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/libs/gui/libgui	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/libs/input/libinput	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/libs/ui/libui	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/opengl/libs/libegl	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/opengl/libs/libetc1	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/opengl/libs/libglesv1_cm	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/opengl/libs/libglesv2	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/opengl/libs/libglesv3	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/services/inputflinger/ libinputflinger	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/services/powermanager/ libpowermanager	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/services/sensorservice/ libsensorservice	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/services/sensorservice/ sensorservice	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/native/services/surfaceflinger/ libsurfaceflinger	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/services/surfaceflinger/ libsurfaceflinger_ddmconnection	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/services/surfaceflinger/ surfaceflinger	android-cts_7.1_r1-227-gfeb9e88	Apache-2.0
frameworks/native/vulkan/libvulkan/libvulkan	android-cts_7.1_r1-225-ge4a554f	Apache-2.0
frameworks/opt/net/voip/src/jni/rtp/librtp_jni	android-cts-7.1_r13	Apache-2.0
frameworks/opt/net/wifi/service/libwifi-service	android-cts-7.1_r3-3-g7bdb630	Apache-2.0
frameworks/rs/cpp/librscpp	android-cts-7.1_r13	Apache-2.0
frameworks/rs/cpu_ref/librscpuref	android-cts-7.1_r13	Apache-2.0
frameworks/rs/libs	android-cts-7.1_r13	Apache-2.0
frameworks/rs/libs_internal	android-cts-7.1_r13	Apache-2.0
frameworks/rs/librsdriver	android-cts-7.1_r13	Apache-2.0
frameworks/webview/chromium/ libwebviewchromium_loader	android-cts-7.1_r13	BSDlike

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Module Name	Module Version	Module License
frameworks/webview/chromium/libwebviewchromium_plat_support	android-cts-7.1_r13	BSDlike
frameworks/wilhelm/src/libopenmaxal	android-cts-7.1_r13	Apache-2.0, MITlike
frameworks/wilhelm/src/libopensles	android-cts-7.1_r13	Apache-2.0, MITlike
frameworks/wilhelm/src/libwilhelm	android-cts-7.1_r13	Apache-2.0, MITlike
hardware/amlogic/audio/audio.primary.amlogic	b888d0a	Apache-2.0
hardware/amlogic/audio/libaudiopolicymanager	b888d0a	Apache-2.0
hardware/amlogic/audio_dia_remote/audio.dia_remote.default	5a51d5a	Apache-2.0
hardware/amlogic/gralloc/gralloc.amlogic	a73719c	Apache-2.0
hardware/amlogic/gralloc/libbcbnf	a73719c	Apache-2.0
hardware/amlogic/hdmi_cec/hdmi_cec.amlogic	7da514c	Apache-2.0
hardware/amlogic/hwcomposer/hwc2/platforms/hwcomposer.amlogic	5bff4ec	Apache-2.0
hardware/amlogic/libaudio/amadec/libamadec	e901bbb	Apache-2.0
hardware/amlogic/libaudio/amadec/libamadec_omx_api	e901bbb	Apache-2.0
hardware/amlogic/libaudio/amadec/libamadec_wfd_out	e901bbb	Apache-2.0
hardware/amlogic/lights/lights.amlogic	a782a6a	Apache-2.0
hardware/amlogic/memtrack/memtrack.amlogic	9c183d2	Apache-2.0
hardware/amlogic/power/power.amlogic	02f31d9	Apache-2.0
hardware/amlogic/screen_source/screen_source.amlogic	f0604ca	Apache-2.0
hardware/amlogic/usbctrl/usbpower	d180f71	Apache-2.0
hardware/amlogic/usbctrl/usbtestpm	d180f71	Apache-2.0
hardware/libhardware/libhardware	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/audio/audio.primary.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/audio_remote_submix/audio.r_submix.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/gralloc/gralloc.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/local_time/local_time.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/power/power.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/tv_input/tv_input.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/usbaudio/audio.usb.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware/modules/vibrator/vibrator.default	android-cts-7.1_r2-68-g53f4e53	Apache-2.0
hardware/libhardware_legacy/audio/audio_policy.default	android-cts-7.1_r13-20-g03e4f14	Apache-2.0
hardware/libhardware_legacy/libhardware_legacy	android-cts-7.1_r13-20-g03e4f14	Apache-2.0
hardware/libhardware_legacy/libpower	android-cts-7.1_r13-20-g03e4f14	Apache-2.0
hardware/realtek/bluetooth/rtkbt/code/bt/audio_a2dp_hw/audio.a2dp.default	b7f98a5	Apache-2.0
hardware/realtek/bluetooth/rtkbt/code/bt/main/	b7f98a5	Apache-2.0

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Module Name	Module Version	Module License
bluetooth.default		
hardware/realtek/bluetooth/rtkbt/code/libbt-vendor/uart/libbt-vendor_uart	undefined	Apache-2.0
hardware/realtek/bluetooth/rtkbt/code/libbt-vendor/usb/libbt-vendor_usb	undefined	Apache-2.0
hardware/ril/libril/libril	android-cts-7.1_r16-1-g5916eb2	Apache-2.0
hardware/ril/librilutils/librilutils	android-cts-7.1_r16-1-g5916eb2	Apache-2.0
hardware/ril/reference-ril/libreference-ril	android-cts-7.1_r16-1-g5916eb2	Apache-2.0
libcore/libjavacore	undefined	GPL-2.0-with-classpath-exception
libcore/libopenjdk	undefined	GPL-2.0-with-classpath-exception
libnativehelper	android-cts-7.1_r13	Apache-2.0
packages/apps/bluetooth/jni/libbluetooth_jni	android-cts-7.1_r2-82-ga742c4e	Apache-2.0
packages/apps/camera2/jni/libjni_pegutil	android-cts-7.1_r13-3-gd904a4f	Apache-2.0
packages/apps/camera2/jni/libjni_tinyplanet	android-cts-7.1_r13-3-gd904a4f	Apache-2.0
packages/apps/gallery2/jni/libjni_eglfnce	android-cts-7.1_r13-5-g769b82c	Apache-2.0
packages/apps/gallery2/jni/libjni_filtershow_filters	android-cts-7.1_r13-5-g769b82c	Apache-2.0
packages/apps/gallery2/jni_pegstream/libjni_pegstream	android-cts-7.1_r13-5-g769b82c	Apache-2.0
packages/inputmethods/openwnn/libs/libwnndictionary/libwnndict	android-cts-7.1_r13	Apache-2.0
packages/inputmethods/openwnn/libs/libwnnengdic/libwnnengdic	android-cts-7.1_r13	Apache-2.0
packages/inputmethods/openwnn/libs/libwnnpjndic/libwnnpjndic	android-cts-7.1_r13	Apache-2.0
system/core/adb/adb	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/base/libbase	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/bootstat/bootstat	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/debuggerd/debuggerd	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/gatekeeperd/gatekeeperd	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/healthd/healthd	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/init/init	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libbacktrace/libbacktrace	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libcutils/libcutils	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libdiskconfig/libdiskconfig	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libion/libion	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/liblog/liblog	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libmemtrack/libmemtrack	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libmemunreachable/libmemunreachable	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libnativebridge/libnativebridge	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libnativeloader/libnativeloader	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libnetutils/libnetutils	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libpackagelistparser/libpackagelistparser	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libpixelflinger/libpixelflinger	android-cts-7.1_r2-160-g1088054	Apache-2.0

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Module Name	Module Version	Module License
system/core/libprocessgroup/libprocessgroup	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libsparse/libsparse	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libsuspend/libsuspend	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libsync/libsync	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libsysutils/libsysutils	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libusbhost/libusbhost	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/libutils/libutils	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/lmkd/lmkd	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/logcat/logcat	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/logd/logd	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/logwrapper/liblogwrap	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/logwrapper/logwrapper	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/reboot/reboot	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/run-as/run-as	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/sdcard/sdcard	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/core/toolbox/grep	android-cts-7.1_r2-160-g1088054	BSDlike
system/core/toolbox/toolbox	android-cts-7.1_r2-160-g1088054	BSDlike
system/core/tzdatacheck/tzdatacheck	android-cts-7.1_r2-160-g1088054	Apache-2.0
system/extras/ext4_utils/libext4_utils	android-7.0.0_r35-53-gda833c1	Apache-2.0
system/extras/ext4_utils/make_ext4fs	android-7.0.0_r35-53-gda833c1	Apache-2.0
system/extras/tests/schedtest/schedtest	android-7.0.0_r35-53-gda833c1	Apache-2.0
system/fonts/NotoSansCJK-Regular.ttc	unknown	SIL OFL 1.1
system/gatekeeper/libgatekeeper	android-cts-7.1_r13	Apache-2.0
system/keymaster/libkeymaster1	android-cts-7.0_r17-10-gfed7c7	Apache-2.0
system/keymaster/libkeymaster_messages	android-cts-7.0_r17-10-gfed7c7	Apache-2.0
system/keymaster/libsoftkeymasterdevice	android-cts-7.0_r17-10-gfed7c7	Apache-2.0
system/lib/8822bu.ko	v5.2.4.1_22719.20170613_COEX20170518-4444	GPL-v2
system/lib/amplayer/libprhls_mod.so	unknown	Apache-2.0
system/lib/cfg80211.ko	unknown	GPL-v2
system/lib/dwc3.ko	unknown	GPL-v2
system/lib/dwc_otg.ko	unknown	GPL-v2
system/lib/libOmxBase.so	unknown	Apache-2.0
system/lib/libOmxCore.so	unknown	Apache-2.0
system/lib/libOmxVideo.so	unknown	Apache-2.0
system/lib/libdatachunkqueue_alt.so	unknown	Apache-2.0
system/lib/libfpcalculator_alt.so	unknown	Apache-2.0
system/lib/libomx_av_core_alt.so	unknown	Apache-2.0
system/lib/libomx_clock_utils_alt.so	unknown	Apache-2.0
system/lib/libomx_framework_alt.so	unknown	Apache-2.0
system/lib/libomx_timed_task_queue_alt.so	unknown	Apache-2.0
system/lib/libomx_worker_peer_alt.so	unknown	Apache-2.0

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Module Name	Module Version	Module License
system/lib/libplayready.so	unknown	Apache-2.0
system/lib/libsecmem.so	unknown	Apache-2.0
system/lib/libsmoothstreaming_test.so	unknown	Apache-2.0
system/lib/libstagefright_soft_amsftdec.so	unknown	Apache-2.0
system/lib/libstagefright_soft_amsftdec.so	unknown	Apache-2.0
system/lib/libstagefrighthw.so	unknown	Apache-2.0
system/lib/libthreadworker_alt.so	unknown	Apache-2.0
system/lib/mali.ko	n-r7p0	GPL-v2
system/lib/rtk_btusb.ko	4.1.4	GPL-v2
system/lib/rtkbt/3dd_service.so	unknown	Apache-2.0
system/lib/rtkbt/autopair.so	unknown	Apache-2.0
system/lib/rtkbt/autopair_huawei.so	unknown	Apache-2.0
system/lib/rtkbt/autopair_stack.so	unknown	Apache-2.0
system/lib/rtkbt/heartbeat.so	unknown	Apache-2.0
system/media/alsa_utils/libalsautils	android-cts-7.1_r16-45-g72d2fcd	Apache-2.0
system/media/audio_route/libaudiouroute	android-cts-7.1_r16-45-g72d2fcd	BSDlike
system/media/audio_utils/libaudioutils	android-cts-7.1_r16-45-g72d2fcd	Apache-2.0
system/media/audio_utils/spdif/libaudiospdif	android-cts-7.1_r16-45-g72d2fcd	Apache-2.0
system/media/camera/src/libcamera_metadata	android-cts-7.1_r16-45-g72d2fcd	Apache-2.0
system/media/radio/src/libradio_metadata	android-cts-7.1_r16-45-g72d2fcd	Apache-2.0
system/netd/client/libnetd_client	android-cts-7.1_r13	Apache-2.0
system/netd/server/libnetdaidl	android-cts-7.1_r13	Apache-2.0
system/netd/server/ndc	android-cts-7.1_r13	Apache-2.0
system/netd/server/netd	android-cts-7.1_r13	Apache-2.0
system/priv-app/RemoteVoiceInput/lib/arm/libAesJni.so	1.0	Apache-2.0
system/security/keystore-engine/libkeystore-engine	android-cts-7.1_r16-1-g0d3690c	Apache-2.0
system/security/keystore/keystore	android-cts-7.1_r16-1-g0d3690c	Apache-2.0
system/security/keystore/libkeystore_binder	android-cts-7.1_r16-1-g0d3690c	Apache-2.0
system/security/softkeymaster/keystore.default	android-cts-7.1_r16-1-g0d3690c	Apache-2.0
system/security/softkeymaster/libsoftkeymaster	android-cts-7.1_r16-1-g0d3690c	Apache-2.0
system/vendor/lib/drm/libdrmclientplayreadyplugin.so	unknown	Apache-2.0
system/vendor/lib/mediadrmlibplayreadymediadrmpplugin.so	unknown	Apache-2.0
system/vold/secdiscard	android-cts-7.0_r17-43-geb6e2ab	Apache-2.0, BSDlike
system/vold/vdc	android-cts-7.0_r17-43-geb6e2ab	Apache-2.0, BSDlike
system/vold/vold	android-cts-7.0_r17-43-geb6e2ab	Apache-2.0, BSDlike
uboot	2b798c4	GPL-v2
vendor/amlogic/external/ffmpeg/libamffmpeg	28fe21f	LGPL-v2.1
vendor/amlogic/external/libtiff/libtiff	f038c1d	libtiff
vendor/amlogic/frameworks/av/amffmpegadapter/libamffmpegadapter	undefined	Apache-2.0

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Module Name	Module Version	Module License
vendor/amlogic/frameworks/av/codecs/mp2dec/libstagefright_soft_mp2dec	3124587	Apache-2.0
vendor/amlogic/frameworks/av/extractors/libstagefright_extractor	3124587	Apache-2.0
vendor/amlogic/frameworks/av/libmetadateretriever/libamlogic_metadata_retriever	3124587	Apache-2.0
vendor/amlogic/frameworks/av/libplayer/third_parts/rtmpdump/librtmp/librtmp	dd6e091	LGPL-v2.1
vendor/amlogic/frameworks/av/libscreenresource/iscreenmediasource/libiscreenmediasource	3124587	Apache-2.0
vendor/amlogic/frameworks/av/libscreenresource/screenmediasource/libstagefright_screenmediasource	3124587	Apache-2.0
vendor/amlogic/frameworks/av/media/am-nuplayer/libamnuplayer	3124587	Apache-2.0
vendor/amlogic/frameworks/av/media/libmedia_amlogic	3124587	Apache-2.0
vendor/amlogic/frameworks/av/media/libstagefright/wifi-display/libstagefright_wfd_sink	3124587	Apache-2.0
vendor/amlogic/frameworks/core/jni/hdmi_cec/libhdmiccec_jni	bfd4b6f	Apache-2.0, BSD
vendor/amlogic/frameworks/core/jni/libdisplaysetting	bfd4b6f	Apache-2.0, BSD
vendor/amlogic/frameworks/core/jni/libgifdecode_jni	bfd4b6f	Apache-2.0, BSD
vendor/amlogic/frameworks/core/jni/libsurfaceoverlay_jni	bfd4b6f	Apache-2.0, BSD
vendor/amlogic/frameworks/services/data_integrity_guard/libdig	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/imageplayer/imageserver	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/imageplayer/libimageplayerservice	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/remotefconf/remotefc	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/systemcontrol/libsystemcontrolservice	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/systemcontrol/systemcontrol	bfd4b6f	Apache-2.0
vendor/amlogic/frameworks/services/systemcontrol/systemcontrol_static	bfd4b6f	Apache-2.0
vendor/amlogic/prebuilt/libmedia/codecs/amsftdec/libstagefright_soft_amsftdec	undefined	Apache-2.0
vendor/amlogic/prebuilt/libmedia/codecs/amsftdec/libstagefright_soft_amsftdec	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libdatachunkqueue_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libfpscalculator_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomx_av_core_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomx_clock_utils_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomx_framework_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw	undefined	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
libomx_timed_task_queue_alt		
vendor/amlogic/prebuilt/libstagefrighthw/libomx_worker_peer_alt	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomxbase	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomxcore	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libomxvideo	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libsecmem	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libstagefrighthw	undefined	Apache-2.0
vendor/amlogic/prebuilt/libstagefrighthw/libthreadworker_alt	undefined	Apache-2.0
vendor/amlogic/tdk/ca_export_arm/libteec	2637cfe	BSDlike
vendor/amlogic/tdk/ca_export_arm/tee-supPLICANT	2637cfe	BSDlike
vendor/amlogic/tdk/demos/crypto/ca/tee_crypto	2637cfe	BSDlike
vendor/amlogic/tdk/linuxdriver/optee	2637cfe	BSDlike
vendor/amlogic/tdk/linuxdriver/optee_armtz	2637cfe	BSDlike
vendor/google/libs/libgoogle_tagger_aah_jni	260c5df	Apache-2.0
vendor/widevine/cryptoplugin/libdrmdecrypt	undefined	Apache-2.0
vendor/widevine/drmwvmpLugin/lib/libwvdrm_I1	undefined	Apache-2.0
vendor/widevine/libwvdrMengine/libwvdrMengine	undefined	Apache-2.0
vendor/widevine/libwvdrMengine/tpv/lib/liboemcrypto	undefined	Apache-2.0
vendor/widevine/oemcrypto/libwvm_I1	undefined	Apache-2.0
vendor/widevine/secureos/lib/libwvsecureos_api	undefined	Apache-2.0
vendor/widevine/streamcontrol/lib/libwvstreamcontrolapi_I1	undefined	Apache-2.0
vendor/widevine/test/oemcrypto_test	undefined	Apache-2.0
vendor/widevine/test/secmem_test	undefined	Apache-2.0
vendor/widevine/test/secureapi_test	undefined	Apache-2.0