



UIW4020ETI

v2.5.1

Open Source Report

This document aims to describe the Open Source Software which are embedded in product
UIW4020ETI

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Product	UIW4020ETI
Version	v2.5.1
Open Source Modules	1161

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Module Name	Module Version	Module License
vendor/technicolor/rcu_firmwares/fw/technicolor_remote_rtk_patch.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
system/hardware/interfaces/wifi/keystore/1.0/default/libwifikeystorehal	ab3d6cb	Apache-2.0
frameworks/base/core/jni/libandroid_runtime	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/libxml2/libxml2	f7216dc	MIT
system/libhidl/transport/base/1.0/android.hidl.base-v1.0-java	8fb37b5	Apache-2.0
hardware/interfaces/radio/deprecated/1.0/android.hardware.radio.deprecated@1.0.vendor	6934193	Apache-2.0
external/iproute2/tc/tc	2d868b4	GPL-v2
frameworks/av/media/extractors/flac/libflacextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/libubox/libubox	9c4aeda	BSDlike, MITlike
hardware/interfaces/renderscript/1.0/default/android.hardware.renderscript@1.0-impl	6934193	Apache-2.0
external/exoplayer/extensions/opus/src/main/jni/.....libopus//libopus	r2.0.4_docs-4767-gae271c1	Apache-2.0
hardware/interfaces/drm/1.0/android.hardware.drm@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/camera/device/3.3/android.hardware.camera.device@3.3.vendor	6934193	Apache-2.0
frameworks/av/media/libeffects/dynamicsproc/libdynproc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/iproute2/lib/libnetlink	2d868b4	GPL-v2
hardware/interfaces/nfc/1.1/android.hardware.nfc@1.1.vendor	6934193	Apache-2.0
hardware/interfaces/power/1.1/android.hardware.power@1.1	6934193	Apache-2.0
frameworks/av/media/libstagefright/codecs/hevcddec/libstagefright_soft_hevcddec	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
external/perfetto/perfetto	39d9d44	Apache-2.0
hardware/interfaces/dumpstate/1.0/android.hardware.dumpstate@1.0.vendor	6934193	Apache-2.0
system/technicolor/tr069/datamodel/jni/libcwpupnpigdjni	f305755	Apache-2.0, Apache-1.1
external/freetype/libft2	da5836d	BSDlike
frameworks/base/cmds/bu/bu	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/mksh/sh	034f947	BSDlike
hardware/interfaces/audio/common/2.0/android.hardware.audio.common@2.0.vendor	6934193	Apache-2.0
frameworks/av/services/minijail/libavservices_minijail_vendor	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/conscrypt/conscrypt	16c9ae0	Apache-2.0
frameworks/rs/librs_internal.vendor	3b78758	Apache-2.0
system/core/libprocinfo/libprocinfo	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/base/cmds/incident_helper/incident_helper	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/keymaster/4.0/android.hardware.keymaster@4.0.vendor	6934193	Apache-2.0
system/core/libsysutils/libsysutils	android-9.0.0_r42-172-g2fb0545	Apache-2.0

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Module Name	Module Version	Module License
external/hyphenation-patterns/hyph-eu	unknown	Unicode
system/framework/arm/boot-bouncycastle.art	unknown	Apache-2.0
dtc	git-g448faa43	GPL-v2
frameworks/native/services/thermalservice/libthermalcallback/libthermalcallback	7128efa	Apache-2.0
hardware/interfaces/configstore/1.0/android.hardware.configstore@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/cas/native/1.0/android.hardware.cas.native@1.0	6934193	Apache-2.0
frameworks/base/media/jni/libmedia_jni	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/libhidl/minijail/libhwminijail	8fb37b5	Apache-2.0
frameworks/av/media/extractors/midi/libmidiextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libmedia/libmedia_helper.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libeffects/downmix/libdownmix	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/libtextclassifier/textclassifier.universal.model	cfb946b	Apache-2.0
frameworks/opt/net/ethernet/ethernet-service	v2.127.21-14-geccd32b	Apache-2.0
hmac	Undefined	BSD
hardware/interfaces/contexthub/1.0/android.hardware.contexthub@1.0	6934193	Apache-2.0
external/glib/glib/libglib-2.0	0d69e55	LGPL-v2.1
hardware/interfaces/drm/1.0/default/android.hardware.drm@1.0-service	6934193	Apache-2.0
frameworks/compile/libbcc/bcinfo/libbcinfo.vendor	cd2cedc	Apache-2.0, MITlike
frameworks/av/media/libaudioprocessing/libaudioprocessing	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/av/drm/libdrmframework/libdrmframework	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/glib/gmodule/libgmodule-2.0	daa7fab	LGPL-v2.1
frameworks/hardware/interfaces/schedulerservice/1.0/android.frameworks.schedulerservice@1.0.vendor	8927120	Apache-2.0
hardware/interfaces/graphics/bufferqueue/1.0/android.hardware.graphics.bufferqueue@1.0.vendor	6934193	Apache-2.0
system/libhidl/transport/allocator/1.0/default/android.hidl.allocator@1.0-service	8fb37b5	Apache-2.0
system/core/libion/libion.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/av/media/libeffects/preprocessing/libaudiopreprocessing	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/enc/libstagefright_soft_amrnbenc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/keymaster/libkeymaster_portable.vendor	de7e5f6	Apache-2.0
system/keymaster/libkeymaster_messages	de7e5f6	Apache-2.0
hardware/interfaces/drm/1.0/android.hardware.drm@1.0	6934193	Apache-2.0
system/framework/arm/boot-core-libart.art	unknown	Apache-2.0
external/libjpeg-turbo/libjpeg.vendor	e9abdaf	zlib, BSDlike, IJG

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frameworks/av/media/libheif/libheif	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/icu/icu4c/source/common/libicuuc	undefined	Unicode
system/bt/audio_a2dp_hw/audio.a2dp.default	android-wear-8.0.0_r1-4390-g4d856f7	Apache-2.0
external/chromium-libpac/libpac	df98dfe	BSDlike
external/fuse/lib/libfuse	undefined	LGPL-v2.1
system/core/liblog/liblog	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/libhardware/modules/usbaudio/audio.usb.default	953204c	Apache-2.0
frameworks/native/services/schedulerservice/libchedulerservicehidl	7128efa	Apache-2.0
system/core/libcutils/libcutils.vendor	android-9.0.0_r42-195-g7788a634	Apache-2.0
vendor/lib/modules/droid_pm	unknown	GPL-v2
system/core/libusbhost/libusbhost	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/native/cmds/dumpstate/dumpstate	7128efa	Apache-2.0
external/noto-fonts/cjk/notosansCJK-regular.ttc	unknown	SIL OFL 1.1
hardware/interfaces/power/1.1/android.hardware.power@1.1.vendor	6934193	Apache-2.0
prebuilts/clang/host/linux-x86/libclang_rt.asan-arm-android	7cc1558	Apache-2.0
frameworks/av/media/libstagefright/libstagefright	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
hardware/interfaces/radio/1.2/android.hardware.radio@1.2.vendor	6934193	Apache-2.0
external/okhttp/okhttp	b75be96	Apache-2.0
system/libhwbinder/libhwbinder.vendor	8e6c18d	Apache-2.0
hardware/interfaces/audio/4.0/android.hardware.audio@4.0	6934193	Apache-2.0
hardware/interfaces/power/1.2/android.hardware.power@1.2	6934193	Apache-2.0
frameworks/av/media/mtp/libmtp	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/core/libkeyutils/libkeyutils	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/base/test-mock/android.test.mock	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/light/2.0/android.hardware.light@2.0	6934193	Apache-2.0
hardware/interfaces/gatekeeper/1.0/default/android.hardware.gatekeeper@1.0-impl	6934193	Apache-2.0
external/hyphenation-patterns/hyph-mr	unknown	MIT
system/libhidl/transport/manager/1.0/android.hidl.manager-v1.0-java	8fb37b5	Apache-2.0
hardware/interfaces/audio/effect/4.0/default/android.hardware.audio.effect@4.0-impl	6934193	Apache-2.0
libnativehelper/libnativehelper	6b56b69	Apache-2.0
frameworks/hardware/interfaces/display/1.0/android.frameworks.displayservice@1.0	8927120	Apache-2.0
external/libnl/libnl.vendor	375a675	LGPL-v2.1
frameworks/base/cmds/svc/svclib	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/fsck_msdos/fsck_msdos	395b97b	BSDlike
hardware/interfaces/audio/core/4.0/default/android.hardware.audio@4.0-impl	6934193	Apache-2.0

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Module Name	Module Version	Module License
packages/apps/music/music	f04c395	Apache-2.0
hardware/interfaces/camera/device/3.3/default/camera.device@3.3-impl	6934193	Apache-2.0
external/piex/libpiex.vendor	0aa61f9	Apache-2.0
hardware/interfaces/soundtrigger/2.0/android.hardware.soundtrigger@2.0	6934193	Apache-2.0
hardware/interfaces/camera/device/3.4/default/camera.device@3.4-external-impl	6934193	Apache-2.0
frameworks/base/media/jni/libmedia2_jni	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/av/drm/mediacas/plugins/clearkey/libclearkeycasplugin	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/libhidl/transport/allocator/1.0/android.hidl.allocator@1.0.vendor	8fb37b5	Apache-2.0
frameworks/base/tools/stats_log_api_gen/libstatslog	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/netd/libnetdutils/libnetdutils	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/av/services/mediadrmm/mediadrmsserver	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/core/libmemtrack/libmemtrack.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/wifi/hostapd/1.0/android.hardware.wifi.hostapd@1.0.vendor	6934193	Apache-2.0
frameworks/base/media/mca/filterpacks/libfilterpack_imageproc	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/native/services/surfaceflinger/libsurfaceflinger	7128efa	Apache-2.0
hardware/interfaces/audio/common/all-versions/default/android.hardware.audio.common-util.vendor	6934193	Apache-2.0
external/conscrypt/libjavacrypto	16c9ae0	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/amrnb/dec/libstagefrighth_soft_amrdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/gatekeeper/libgatekeeper	0dd78be	Apache-2.0
system/framework/boot-apache.xml	unknown	Apache-2.0
hardware/interfaces/configstore/1.1/default/android.hardware.configstore@1.1-service	6934193	Apache-2.0
art/dalvikvm/dalvikvm	a90da43	Apache-2.0
external/glib/gthread/libgthread-2.0	0d69e55	LGPL-v2.1
hardware/interfaces/tv/input/1.0/android.hardware.tv.input@1.0.vendor	6934193	Apache-2.0
frameworks/native/opengl/libs/libegl	7128efa	Apache-2.0
frameworks/av/media/libstagefrighth/omx/libstagefrighth_omx	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/broadcom/bcm_platform/hals/sdbhak/1.0/bcm.hardware.sdbhak@1.0.vendor	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
packages/screensavers/basic/basicdreams	undefined	Apache-2.0
system/core/libprocessgroup/libprocessgroup	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/usb/gadget/1.0/android.hardware.usb.gadget@1.0	6934193	Apache-2.0
system/libfmq/libfmq	c45165d	Apache-2.0
frameworks/av/media/libstagefrighth/omx/libstagefrighth_omx_utils.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/light/2.0/default/android.hardware.light@2.0-impl	6934193	Apache-2.0

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external/libtextclassifier/textclassifier.en.model	cfb946b	Apache-2.0
hardware/interfaces/camera/provider/2.4/default/android.hardware.camera.provider@2.4-external-service	6934193	Apache-2.0
frameworks/native/services/surfaceflinger/layerproto/liblayers_proto	7128efa	Apache-2.0
system/core/storaged/storaged	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/av/media/img_utils/libimg_utils	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
packages/apps/contacts/contacts	0fbcf76	Apache-2.0
frameworks/native/cmds/servicemanager/vndservicemanager	7128efa	Apache-2.0
hardware/interfaces/radio/1.0/android.hardware.radio@1.0.vendor	6934193	Apache-2.0
frameworks/av/media/libstagefright/foundation/libstagefright_foundation.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/media/alsa_utils/libalsautils	603cac1	Apache-2.0
frameworks/base/native/webview/loader/libwebviewchromium_loader	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/wpa_supplicant_8/hostapd/hostapd_cli	android-9.0.0_r22-85-gdeeba87	BSDlike
frameworks/hardware/interfaces/display/1.0/android.frameworks.display@1.0.vendor	8927120	Apache-2.0
bionic/libc/libstdc++	4b001a1	BSDlike
hardware/interfaces/graphics/composer/2.1/android.hardware.graphics.composer@2.1	6934193	Apache-2.0
system/core/bootstat/bootstat	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/core/debuggerd/libdebuggerd_client	android-9.0.0_r42-195-g7788a634	Apache-2.0
external/hyphenation-patterns/hyph-pt	unknown	BSD
frameworks/base/ext	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/camera/device/3.4/default/camera.device@3.4-impl	6934193	Apache-2.0
hardware/interfaces/bluetooth/1.0/default/android.hardware.bluetooth@1.0-service	6934193	Apache-2.0
system/extras/slideshow/slideshow	9e1deac	Apache-2.0
hardware/interfaces/boot/1.0/default/android.hardware.boot@1.0-service	6934193	Apache-2.0
system/core/logcat/liblogcat	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/interfaces/power/1.0/default/android.hardware.power@1.0-impl	6934193	Apache-2.0
hardware/interfaces/tests/libhwcomposer/1.0/default/android.hardware.tests.libhwcomposer@1.0-impl	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/nexus/1.1/bcm.hardware.nexus@1.1.vendor	ANDROID_P_AB3_2	Apache-2.0
hardware/libhardware/modules/audio_remote_submix/audio.r_submix.default	953204c	Apache-2.0
hardware/interfaces/media/1.0/android.hardware.media@1.0	6934193	Apache-2.0
frameworks/base/cmds/telecom/telecom	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/protobuf/libprotobuf-cpp-full.vendor	4115014	Apache-2.0
frameworks/base/libs/protoutil/libprotoutil	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/framework/boot-framework	unknown	Apache-2.0

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hardware/interfaces/camera/device/1.0/ android.hardware.camera.device@1.0.vendor	6934193	Apache-2.0
system/libhid/libhidmemory/libhidmemory. vendor	8fb37b5	Apache-2.0
vendor/broadcom/bcm_platform/hals/nexus/1.0/ /bcm.hardware.nexus@1.0.vendor	ANDROID_P_AB3_2	Apache-2.0
system/libhid/transport/memory/1.0/android. hidl.memory@1.0.vendor	8fb37b5	Apache-2.0
system/framework/arm/ boot-framework-oahl-backward-compatibility. art	unknown	Apache-2.0
hardware/interfaces/thermal/1.1/android. hardware.thermal@1.1.vendor	6934193	Apache-2.0
libfdt	git-g448faa43	BSD-2-Clause
hardware/interfaces/broadcastradio/1.0/ android.hardware.broadcastradio@1.0.vendor	6934193	Apache-2.0
external/libexif/libexif	6b17509	LGPL-v2.1
vendor/broadcom/bcm_platform/hals/dpthak/1. 0/bcm.hardware.dpthak@1.0.vendor	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/av/media/libstagefright/httplive/ libstagefright_httplive	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/broadcom/bcm_platform/hals/power/ power.uiw4020eti	ANDROID_P_AB3_2-25-g75dd93e	Apache-2.0
external/selinux/secilc/secilc	9295255	BSDlike
frameworks/compile/libbcc/bcinfo/libbcinfo	cd2cedc	Apache-2.0, MITlike
frameworks/av/media/libstagefright/codecs/ avcenc/libstagefright_soft_avcenc.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/base/libs/hwui/libhwui	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/framework/boot-bouncycastle	unknown	Apache-2.0
system/framework/arm/ boot-framework-oahl-backward-compatibility	unknown	Apache-2.0
external/libexif/libexif.vendor	6b17509	LGPL-v2.1
frameworks/av/media/libstagefright/codecs/flac/ dec/libstagefright_soft_flacdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/native/services/thermalservice/ libthermalservice	7128efa	Apache-2.0
frameworks/av/drm/mediadrm/plugins/clearkey/ hid/android.hardware.drm@1.1-service. clearkey	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/native/cmds/bugreport/bugreport	7128efa	Apache-2.0
hardware/interfaces/wifi/supplicant/1.1/android. hardware.wifi.suplicant@1.1.vendor	6934193	Apache-2.0
frameworks/base/cmds/uiautomator/cmds/ uiautomator/uiautomator	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
device/technicolor/avko/apps/tplayer/tplayer	2.10.1	Apache-2.0
hardware/interfaces/audio/common/ all-versions/default/android.hardware.audio. common-util	6934193	Apache-2.0
hardware/interfaces/gnss/1.0/android. hardware.gnss@1.0	6934193	Apache-2.0
frameworks/base/native/android/libandroid	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/hyphenation-patterns/hyph-sl	unknown	MIT
frameworks/rs/cpp/librscpp	3b78758	Apache-2.0

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hardware/interfaces/media/omx/1.0/android.hardware.media.omx@1.0	6934193	Apache-2.0
frameworks/native/opengl/libs/libglesv3	7128efa	Apache-2.0
external/hyphenation-patterns/hyph-hu	unknown	MPL-v1.1
hardware/interfaces/graphics/composer/2.2/android.hardware.graphics.composer@2.2	6934193	Apache-2.0
vendor/broadcom/bcm_platform/apks/bcmtvsettingslauncher/bcmtvsettingslauncher	ANDROID_P_AB3_2	Apache-2.0
external/libpcap/libpcap	e9c8145	BSDlike
external/hyphenation-patterns/hyph-hr	unknown	Unicode
vendor/technicolor/rcu_firmwares/fw/technicolor_atvrcu_rtk_app.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
system/security/keystore/keystore_cli_v2	b8a0d6b	Apache-2.0
frameworks/av/drm/mediadrm/plugins/clearkey/default/libdrmc_clearkeyplugin	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
art/compiler/libart-compiler	a90da43	Apache-2.0
frameworks/native/libs/binder/libbinder.vendor	7128efa	Apache-2.0
system/etc/boot-image	unknown	Apache-2.0
hardware/interfaces/camera/device/3.4/android.hardware.camera.device@3.4.vendor	6934193	Apache-2.0
hardware/interfaces/soundtrigger/2.0/android.hardware.soundtrigger@2.0.vendor	6934193	Apache-2.0
system/framework/boot-ims-common	unknown	Apache-2.0
vendor/broadcom/playready/lib/libplayreadydrmplugin_3_0	ANDROID_P_AB3_4	Apache-2.0
hardware/interfaces/cas/1.0/android.hardware.cas@1.0	6934193	Apache-2.0
frameworks/native/services/display/service/libdisplayervicehidl	7128efa	Apache-2.0
system/hardware/interfaces/net/netd/1.1/android.system.net.netd@1.1	ab3d6cb	Apache-2.0
hardware/interfaces/graphics/mapper/2.0/default/android.hardware.graphics.mapper@2.0-impl	6934193	Apache-2.0
system/core/libnativebridge/libnativebridge	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/neuralnetworks/1.0/android.hardware.neuralnetworks@1.0	6934193	Apache-2.0
art/libart_fake/libart_fake	a90da43	Apache-2.0
external/libldac/libldacbt_abr	68f49b7	Apache-2.0
system/libhwcomposer/vts/performance/hwcomposerthroughputtest	8e6c18d	Apache-2.0
system/framework/arm/boot-okhttp	unknown	Apache-2.0
external/expat/libexpat	9a9c9b0	BSDlike
frameworks/av/media/libstagefright/foundation/libstagefright_foundation	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/services/audiopolicy/engine/default/libaudiopolicyengine/default	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/compiler-rt/libcompiler_rt.vendor	533f2ba	MIT
frameworks/hardware/interfaces/vr/composer/1.0/android.frameworks.vr.composer@1.0.vendor	8927120	Apache-2.0
frameworks/base/native/android/libandroid_net	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0

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Module Name	Module Version	Module License
device/technicolor/avko/interfaces/proc/1.0/default/technicolor.hardware.proc@1.0-service	dfd4371	Apache-2.0
frameworks/hardware/interfaces/vr/composer/1.0/android.frameworks.vr.composer@1.0	8927120	Apache-2.0
device/technicolor/avko/dumpstate/android.hardware.dumpstate@1.0-service.avko	d4f3b7a	Apache-2.0
system/netd/server/ndc	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/native/services/sensorservice/sensorservice	7128efa	Apache-2.0
system/libhidl/transport/libhidltransport	8fb37b5	Apache-2.0
system/security/keystore/libkeystore_parcelables	b8a0d6b	Apache-2.0
hardware/interfaces/memtrack/1.0/android.hardware.memtrack@1.0.vendor	6934193	Apache-2.0
hardware/libhardware_legacy/libhardware_legacy.vendor	8c64fe9	Apache-2.0
hardware/interfaces/authsecret/1.0/android.hardware.authsecret@1.0.vendor	6934193	Apache-2.0
external/hyphenation-patterns/hyph-be	unknown	MIT
system/hardware/interfaces/wifi/keystore/1.0/android.system.wifi.keystore@1.0.vendor	ab3d6cb	Apache-2.0
external/e2fsprogs/misc/mke2fs	7d01f9f	GPL-v2
external/libtextclassifier/libtextclassifier	cfb946b	Apache-2.0
hardware/interfaces/keymaster/3.0/android.hardware.keymaster@3.0	6934193	Apache-2.0
hardware/interfaces/vibrator/1.1/android.hardware.vibrator@1.1	6934193	Apache-2.0
system/framework/arm/boot-core-libart	unknown	Apache-2.0
external/libyaml/src/libyaml	717a21d	MITlike
vendor/broadcom/bcm_platform/hals/gralloc/gralloc.uiw4020eti	ANDROID_P_AB3_2	Apache-2.0
hardware/interfaces/power/1.0/default/android.hardware.power@1.0-service	6934193	Apache-2.0
system/keymaster/libpuresoftkeymasterdevice.vendor	de7e5f6	Apache-2.0
frameworks/av/soundtrigger/libsoundtrigger	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
packages/apps/quicksearchbox/quicksearchbox	cb2f9d5	Apache-2.0
frameworks/base/location/lib/com.android.location.provider	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/opt/net/wifi/libwifi_system/libwifi-system	v2.80.95-35-gf7ac560	Apache-2.0
packages/providers/tvprovider/tvprovider	c8b004d	Apache-2.0
system/core/libpackagelistparser/libpackagelistparser	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/core/libdiskconfig/libdiskconfig	android-9.0.0_r42-172-g2fb0545	Apache-2.0
vendor/broadcom/bcm_platform/hals/dspvcext/1.0/default/bcm.hardware.dspvcext@1.0-service	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
system/core/adf/libadf/libadf.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/native/services/thermalservice/thermalserviced	7128efa	Apache-2.0
system/media/camera/libcamera_metadata	603cac1	Apache-2.0

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Module Name	Module Version	Module License
system/core/logcat/logcat	android-9.0.0_r42-195-g7788a634	Apache-2.0
external/vixl/libvixl-arm64	3f16336	BSDlike
hardware/libhardware_legacy/libpower.vendor	8c64fe9	Apache-2.0
vendor/firmware/rtl8761aw8192eu_config	unknown	Apache-2.0
hardware/interfaces/vibrator/1.0/android.hardware.vibrator@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/camera/device/3.2/android.hardware.camera.device@3.2.vendor	6934193	Apache-2.0
system/framework/boot-framework-oahl-backward-compatibility	unknown	Apache-2.0
libgcc (gcc)	Undefined	GCC RUNTIME LIBRARY EXCEPTION v3.0
external/json-c/libjson-c	json-c-0.12-20140410-1-g5ee00da	MITlike
external/e2fsprogs/lib/support/libext2_quota	7d01f9f	GPL-v2
art/profman/profman	a90da43	Apache-2.0
frameworks/native/cmds/servicemanager/servicemanager	7128efa	Apache-2.0
external/hyphenation-patterns/hyph-mn-cyrl	unknown	MIT
bionic/linker/linker	8dc1d06	BSDlike
hardware/interfaces/camera/metadata/3.2/android.hardware.camera.metadata@3.2.vendor	6934193	Apache-2.0
system/hwservicemanager/hwservicemanager	46eaf84	Apache-2.0
external/e2fsprogs/e2fsck/e2fsck	7d01f9f	GPL-v2
frameworks/native/libs/graphicsenv/libgraphicsenv	7128efa	Apache-2.0
frameworks/av/media/libaudio/src/libaudio	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/core/libunwindstack/libunwindstack.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/audio/common/4.0/default/android.hardware.audio.common@4.0-util.vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/tools/nxsmt/nxsmt	ANDROID_P_AB3_2	Apache-2.0
frameworks/base/packages/inputdevices/inputdevices	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
hardware/interfaces/confirmationui/support/android.hardware.confirmationui-support-lib.vendor	6934193	Apache-2.0
frameworks/base/cmds/app_process/app_process	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
packages/apps/bluetooth/bluetooth	533655d	Apache-2.0
system/libhid/libhidlcache/libhidlcache.vendor	8fb37b5	Apache-2.0
external/mdnsresponder/libmdnssd	c3a4daa	Apache-2.0
system/media/audio_utils/libaudiospdif	603cac1	Apache-2.0
system/core/libmetricslogger/libmetricslogger	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/curl/libcurl	7e5c6f2	MIT
hardware/interfaces/audio/effect/2.0/android.hardware.audio.effect@2.0.vendor	6934193	Apache-2.0
external/e2fsprogs/lib/blkid/libext2_blkid	7d01f9f	GPL-v2
frameworks/av/media/libeffects/proxy/libeffectproxy	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0

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Module Name	Module Version	Module License
external/boringssl/libcrypto	373c295	BSDlike
frameworks/av/media/libstagefright/codecs/mp3dec/libstagefright_soft_mp3dec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/native/cmds/dumpstate/libdumpstateaidl	7128efa	Apache-2.0
vendor/realtek/wifi/drivers/8822bu/rtwpriv/rtwpriv	258a6b9	GPL-v2
system/libhidl/base/libhidlbase	8fb37b5	Apache-2.0
frameworks/base/libs/incident/libincident	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcenc/libstagefright_soft_avcenc	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/opt/telephony/telephony-common	fcd5174	Apache-2.0
frameworks/av/media/libmedia/libmedia_helper	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/vold/vdc	6434886	BSDlike, Apache-2.0
art/runtime/libart	a90da43	Apache-2.0
checkpatch.pl	Undefined	GPL-v2
vendor/broadcom/bcm_platform/hals/wifi/1.2/android.hardware.wifi@1.0-bcm	ANDROID_P_AB3_2-121-g0bc4642	Apache-2.0
frameworks/av/media/extractors/mkv/libmkvextractor	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/bluetooth/a2dp/1.0/android.hardware.bluetooth.a2dp@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/vr/1.0/android.hardware.vr@1.0.vendor	6934193	Apache-2.0
hardware/libhardware_legacy/libhardware_legacy	8c64fe9	Apache-2.0
external/libevent/libevent.vendor	f593008	BSDlike
frameworks/base/packages/extservices/extservices	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/native/cmds/service/vndservice	7128efa	Apache-2.0
hardware/interfaces/audio/2.0/android.hardware.audio@2.0	6934193	Apache-2.0
system/framework/boot	unknown	Apache-2.0
system/core/libdiskconfig/libdiskconfig.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/base/packages/sharedstoragebackup/sharedstoragebackup	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/hardware/interfaces/schedulerservice/1.0/android.frameworks.schedulerservice@1.0	8927120	Apache-2.0
hardware/interfaces/tv/cec/1.0/default/android.hardware.tv.cec@1.0-impl	6934193	Apache-2.0
frameworks/av/services/audioflinger/libaudioflinger	android-wear-8.0.0_r1-4439-gb2856bf	Apache-2.0
frameworks/base/packages/externalstorageprovider/externalstorageprovider	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/base/packages/defaultcontainerservice/jni/libdefcontainer_jni	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/oj-libjdpw/libnpt	2431de3	GPL-2.0-with-classpath-exception
system/core/logwrapper/liblogwrap	android-9.0.0_r42-195-g7788a634	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/technicolor.hardware.csn@1.0.vendor	bfb6717	Apache-2.0
system/vold/vold	6434886	BSDlike, Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/graphics/composer/2.1/ android.hardware.graphics.composer@2.1. vendor	6934193	Apache-2.0
packages/apps/secureelement/secureelement	ae74252	Apache-2.0
frameworks/base/libs/usb/com.android.future. usb.accessory	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/native/libs/binder/libbinder	7128efa	Apache-2.0
system/hardware/interfaces/net/netd/1.0/ android.system.net.netd@1.0	ab3d6cb	Apache-2.0
frameworks/native/cmds/cmd/cmd	7128efa	Apache-2.0
external/gettext/jni/gettext-runtime/intl/libintl	981c523	LGPL-v2.1
external/hyphenation-patterns/hyph-ml	unknown	MIT
frameworks/opt/net/voip/voip-common	6ceb01c	Apache-2.0
external/libpng/libpng.vendor	6e267ff	BSDlike
external/libldac/libldacbt_enc	68f49b7	Apache-2.0
frameworks/native/services/sensorservice/ libsensorservice	7128efa	Apache-2.0
system/libhidl/transport/memory/token/1.0/ android.hidl.memory.token@1.0	8fb37b5	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/ opus/dec/libstagefrighth_soft_opusdec.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
external/e2fsprogs/misc/tune2fs	7d01f9f	GPL-v2
hardware/interfaces/broadcastradio/2.0/ android.hardware.broadcastradio@2.0.vendor	6934193	Apache-2.0
system/core/toolbox/grep	android-9.0.0_r42-186-ge969850	BSDlike
frameworks/base/obex/javax.obex	android-wear-8.0.0_r1-30994-g53b1acb	BSDlike
packages/apps/camera2/camera2	70b0e58	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/ vorbis/dec/libstagefrighth_soft_vorbisdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/libfmq/libfmq.vendor	c45165d	Apache-2.0
system/hardware/interfaces/wifi/keystore/1.0/ android.system.wifi.keystore@1.0	ab3d6cb	Apache-2.0
frameworks/av/media/libeffects/lvm/wrapper/ libverbwrapper	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/hyphenation-patterns/hyph-de-1996	unknown	MIT
vendor/technicolor/apps/daydream/daydream	805702c	Apache-2.0
system/framework/arm/boot.art	unknown	Apache-2.0
external/hyphenation-patterns/hyph-da	unknown	MIT
frameworks/native/opengl/libs/libetc1	7128efa	Apache-2.0
system/netd/client/libnetd_client	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/base/libs/services/libservices	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/compile/mclinker/tools/mcld/ld.mc	708894d	BSDlike, MITlike
hardware/libhardware/libhardware	953204c	Apache-2.0
frameworks/native/libs/ui/libui.vendor	7128efa	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/ raw/libstagefrighth_soft_rawdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/e2fsprogs/misc/mke2fs_static	7d01f9f	GPL-v2
frameworks/av/media/audioserver/audioserver	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0

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Module Name	Module Version	Module License
frameworks/av/media/libstagefright/codecs/common/libstagefright_enc_common.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/bluetooth/1.0/android.hardware.bluetooth@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/soundtrigger/2.1/android.hardware.soundtrigger@2.1.vendor	6934193	Apache-2.0
frameworks/av/media/libmedia/libmedia_omx.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libstagefright/codecs/m4v_h263/enc/libstagefright_soft_mpeg4enc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/firmware/rtl8761a_config	unknown	Apache-2.0
hardware/interfaces/usb/1.0/android.hardware.usb@1.0.vendor	6934193	Apache-2.0
system/framework/arm/boot-apache.xml	unknown	Apache-2.0
hardware/interfaces/gnss/1.0/android.hardware.gnss@1.0.vendor	6934193	Apache-2.0
frameworks/base/native/graphics/jni/libjnigraphics	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/hyphenation-patterns/hyph-nb	unknown	MITlike
external/android-clat/clatd	a92b2a6	Apache-2.0
hardware/interfaces/health/2.0/android.hardware.health@2.0.vendor	6934193	Apache-2.0
external/e2fsprogs/lib/ext2fs/libext2fs	7d01f9f	GPL-v2
hardware/interfaces/graphics/composer/2.1/utills/hwc2onfbadapter/libhwc2onfbadapter	6934193	Apache-2.0
external/lz4/lib/liblz4	db96f7c	BSDlike
external/bzip2/libbz	a5304fb	BSDlike
system/framework/arm/boot-android.hidl.base-V1.0-java.art	unknown	Apache-2.0
system/tools/hidl/utills/libhidl-gen-utills	c2e5850	Apache-2.0
art/dexlist/dexlist	a90da43	Apache-2.0
hardware/interfaces/usb/gadget/1.0/android.hardware.usb.gadget@1.0.vendor	6934193	Apache-2.0
frameworks/base/packages/services/pacprocessor/pacprocessor	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/libhwbinder/vts/performance/libhwbinder_latency	8e6c18d	Apache-2.0
hardware/interfaces/wifi/offload/1.0/android.hardware.wifi.offload@1.0	6934193	Apache-2.0
frameworks/base/packages/statementservice/statementservice	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/thermal/1.1/android.hardware.thermal@1.1	6934193	Apache-2.0
system/lib/libf2fs_sparseblock	unknown	Apache-2.0
vendor/technicolor/rcu_firmwares/fw/technicolor_atvrcu_rtk_patch.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
external/dnsmasq/src/dnsmasq	af109d9	GPL-v2
packages/apps/gallery2/gallery2	dad9bdb	Apache-2.0
frameworks/base/libs/input/libinputservice	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/app/KeyChain/oat/arm/KeyChain	unknown	Apache-2.0
frameworks/av/services/minijail/libavservices_minijail	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0

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hardware/interfaces/radio/1.1/android.hardware.radio@1.1.vendor	6934193	Apache-2.0
hardware/interfaces/memtrack/1.0/default/android.hardware.memtrack@1.0-service	6934193	Apache-2.0
art/dexoptanalyzer/dexoptanalyzer	a90da43	Apache-2.0
frameworks/base/packages/printspooler/printspooler	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/app/KeyChain/KeyChain	unknown	Apache-2.0
frameworks/base/packages/settingsprovider/settingsprovider	android-wear-8.0.0_r1-30823-g7363afe	Apache-2.0
system/framework/arm/boot-android.hidl.manager-V1.0-java	unknown	Apache-2.0
external/iptables/iptables/ip6tables	210d321	GPL-v2
system/libhid/libhidmemory/libhidmemory	8fb37b5	Apache-2.0
external/hyphenation-patterns/hyph-bg	unknown	MIT
external/hyphenation-patterns/hyph-hi	unknown	MIT
external/gptfdisk/sgdisk	bc03708	GPL-v2
external/e2fsprogs/contrib/android/e2fsdroid_static	unknown	GPL-v2
external/noto-fonts/cjk/notoserifcjk-regular.ttc	unknown	SIL OFL 1.1
system/vold/vold_prepare_subdirs	6434886	BSDlike, Apache-2.0
system/core/debuggerd/debuggerd	android-9.0.0_r42-195-g7788a634	Apache-2.0
system/libhid/transport/token/1.0/android.hidl.token@1.0.vendor	8fb37b5	Apache-2.0
device/technicolor/avko/interfaces/proc/1.0/technicolor.hardware.proc@1.0	dfd4371	Apache-2.0
system/libhwcomposer/vts/performance/libhwcomposer_benchmark	8e6c18d	Apache-2.0
frameworks/av/media/extractors/ogg/liboggextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/technicolor/apps/remotecoinput/remotecoinput	73110df	Apache-2.0
frameworks/av/media/libstagefrighthw/codecs/on2enc/libstagefrighthw_soft_vpxenc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/tv/cec/1.0/android.hardware.tv.cec@1.0.vendor	6934193	Apache-2.0
frameworks/av/media/libstagefrighthw/codecs/amrnb/common/libstagefrighthw_amrnb_common.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/hyphenation-patterns/hyph-de-1901	unknown	MIT
external/hyphenation-patterns/hyph-gu	unknown	MIT
hardware/interfaces/broadcastradio/1.0/android.hardware.broadcastradio@1.0	6934193	Apache-2.0
external/glib/gio/libgio-2.0	0d69e55	LGPL-v2.1
frameworks/base/cmds/dpm/dpm	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/hyphenation-patterns/hyph-es	unknown	MIT
external/iputils/ping6	android-9.0.0_r16	BSD-3-Clause
packages/providers/downloadprovider/downloadprovider	e7f3521	Apache-2.0
system/framework/arm/boot-conscrypt	unknown	Apache-2.0
vendor/broadcom/bcm_platform/hals/	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0

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Module Name	Module Version	Module License
keymaster/keystore.uiw4020eti		
frameworks/base/native/webview/plat_support/libwebviewchromium_plat_support	android-wear-8.0.0_r1-30994-g53b1acb	BSDlike
frameworks/av/media/libstagefrighth/codecs/flac/enc/libstagefrighth_soft_flacenc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/confirmationui/1.0/android.hardware.confirmationui@1.0.vendor	6934193	Apache-2.0
external/wpa_supplicant_8/hostapd/hostapd	android-9.0.0_r22-85-gdeeba87	BSDlike
system/timezone/tzdatacheck/tzdatacheck	051e42f	Apache-2.0
frameworks/native/cmds/bugreportz/bugreportz	7128efa	Apache-2.0
hardware/interfaces/configstore/utills/android.hardware.configstore-utills	6934193	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/common/libstagefrighth_enc_common	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/hardware/interfaces/sensorservice/1.0/android.frameworks.sensorservice@1.0.vendor	8927120	Apache-2.0
hardware/interfaces/confirmationui/1.0/android.hardware.confirmationui@1.0	6934193	Apache-2.0
system/framework/arm/boot-voip-common.art	unknown	Apache-2.0
vendor/broadcom/bcm_platform/hals/hdmi_cec/libhdmiext	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
hardware/interfaces/dumpstate/1.0/android.hardware.dumpstate@1.0	6934193	Apache-2.0
external/one-true-awk/awk	c72813b	BSDlike
hardware/interfaces/tv/input/1.0/default/android.hardware.tv.input@1.0-service	6934193	Apache-2.0
packages/apps/camera2/jni/libjni_jpegutil	70b0e58	Apache-2.0
hardware/interfaces/audio/common/4.0/default/android.hardware.audio.common@4.0-util	6934193	Apache-2.0
frameworks/base/test-runner/android.test.runner	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/minikin/libs/minikin/libminikin	cae5b49	Apache-2.0
system/libhidl/transport/libhidltransport.vendor	8fb37b5	Apache-2.0
external/oj-libjdwpl/libjdwpl	2431de3	GPL-2.0-with-classpath-exception
frameworks/base/packages/extshared/extshared	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/keymaster/libsoftkeymasterdevice	de7e5f6	Apache-2.0
frameworks/native/openssl/libs/libglesv2	7128efa	Apache-2.0
frameworks/av/services/mediaextractor/libmediaextractorservice	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/brotli/libbrotli	a3b33da	MIT
bionic/libdl/libdl	8dc1d06	BSDlike
frameworks/av/media/libstagefrighth/codecs/gsm/dec/libstagefrighth_soft_gsmdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/base/packages/defaultcontainerservice/defaultcontainerservice	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
vendor/firmware/mp_rtl8761a_fw	unknown	Apache-2.0
vendor/broadcom/bcm_platform/hals/prdysc/1.0/default/bcm.hardware.prdysc@1.0-service	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/native/cmds/lshal/lshal	7128efa	Apache-2.0

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hardware/interfaces/audio/common/2.0/default/android.hardware.audio.common@2.0-util	6934193	Apache-2.0
external/googletest/googletest/libgtest_prod	921be81	BSDlike
system/framework/arm/boot-android.test.base	unknown	Apache-2.0
hardware/interfaces/wifi/1.0/android.hardware.wifi@1.0	6934193	Apache-2.0
system/hardware/interfaces/net/netd/1.1/android.system.net.netd@1.1.vendor	ab3d6cb	Apache-2.0
hardware/interfaces/keymaster/3.0/default/android.hardware.keymaster@3.0-impl	6934193	Apache-2.0
system/security/keystore/libkeystore_binder	b8a0d6b	Apache-2.0
system/update_engine/update_engine_sideload	c25e3da	Apache-2.0
vendor/firmware/rtl8761at_fw	unknown	Apache-2.0
art/oatdump/oatdump	a90da43	Apache-2.0
device/technicolor/avko/interfaces/resolution/1.0/technicolor.hardware.resolution@1.0.vendor	70cda62	Apache-2.0
frameworks/base/cmds/bootanimation/libbootanimation	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/framework/arm/boot-framework	unknown	Apache-2.0
external/libtextclassifier/libtextclassifier_hash	cfb946b	Apache-2.0
hardware/interfaces/camera/provider/2.4/default/android.hardware.camera.provider@2.4-impl	6934193	Apache-2.0
external/icu/icu4c/source/i18n/libicui18n	undefined	Unicode
external/vixl/libvixl-arm64.vendor	3f16336	BSDlike
system/core/libutils/libutilscallstack.vendor	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/base/cmds/incident/incident	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/ril/reference-ril/libreference-ril	99d5d22	Apache-2.0
frameworks/native/services/audiomanager/libaudiomanager	7128efa	Apache-2.0
hardware/interfaces/cas/native/1.0/android.hardware.cas.native@1.0.vendor	6934193	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicymanager	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/core/logd/logd	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/radio/config/1.0/android.hardware.radio.config@1.0.vendor	6934193	Apache-2.0
frameworks/base/media/native/midi/libmidi	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/base/cmds/requestsync/requestsync	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/av/media/libstagefrighthal/libstagefrighthal_omx_utils	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/lz4/lib/liblz4.vendor	db96f7c	BSDlike
system/core/libutils/libutils.vendor	android-9.0.0_r42-195-g7788a634	Apache-2.0
system/framework/arm/boot-voip-common	unknown	Apache-2.0
packages/apps/certinstaller/certinstaller	7303d40	Apache-2.0
external/zlib/libz.vendor	b30b23d	BSDlike
frameworks/opt/net/wifi/libwifi_hal/libwifi-hal	v2.80.95-201-gfe976aa	Apache-2.0

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packages/apps/packageinstaller/ packageinstaller	1bbee01	Apache-2.0
packages/providers/contactsprovider/ contactsprovider	8e653b7	Apache-2.0
art/disassembler/libart-disassembler	a90da43	Apache-2.0
external/libbrillo/libbrillo-stream	595c258	BSDlike
hardware/interfaces/camera/device/3.3/ android.hardware.camera.device@3.3	6934193	Apache-2.0
hardware/libhardware_legacy/libpower	8c64fe9	Apache-2.0
hardware/interfaces/camera/common/1.0/ android.hardware.camera.common@1.0	6934193	Apache-2.0
external/toybox/toybox_vendor	12285d0	BSDlike
system/framework/arm/boot-conscrypt.art	unknown	Apache-2.0
system/framework/arm/boot-framework.art	unknown	Apache-2.0
device/technicolor/avko/interfaces/soc/1.0/ technicolor.hardware.soc@1.0	f35789a	Apache-2.0
packages/providers/calendarprovider/ calendarprovider	5d2cf18	Apache-2.0
hardware/interfaces/audio/effect/4.0/android. hardware.audio.effect@4.0.vendor	6934193	Apache-2.0
external/tinyxml2/libtinyxml2	2399db2	BSDlike
external/e2fsprogs/contrib/android/e2fsdroid	7d01f9f	GPL-v2
frameworks/native/libs/ui/libui	7128efa	Apache-2.0
system/libhidl/transport/token/1.0/android.hidl. token@1.0	8fb37b5	Apache-2.0
external/compiler-rt/libcompiler_rt	533f2ba	MIT
hardware/interfaces/configstore/1.1/android. hardware.configstore@1.1.vendor	6934193	Apache-2.0
external/toybox/toybox	12285d0	BSDlike
frameworks/av/media/libstagefright/codecs/ mpeg2dec/libstagefright_soft_mpeg2dec	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
system/framework/arm/boot-ext	unknown	Apache-2.0
art/adbconnection/libadbconnection	a90da43	Apache-2.0
external/libldac/libldacbt_enc.vendor	68f49b7	Apache-2.0
vendor/firmware/rtl8761aw8192eu_fw	unknown	Apache-2.0
vendor/broadcom/bcm_platform/tools/otp/otp	ANDROID_P_AB3_2	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/ default/android.hardware.graphics.allocator@2. 0-service	6934193	Apache-2.0
external/sbc/libsbcb	878912e	LGPL-v2.1
frameworks/av/media/libstagefright/codecs/ amrnb/dec/libstagefright_soft_amrdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/base/drm/jni/libdrmframework_jni	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/security/keystore/keystore	b8a0d6b	Apache-2.0
system/extras/tests/schedtest/schedtest	9e1deac	Apache-2.0
external/piex/libpiex	0aa61f9	Apache-2.0
hardware/interfaces/soundtrigger/2.1/android. hardware.soundtrigger@2.1	6934193	Apache-2.0
system/framework/boot-ext	unknown	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/graphics/composer/2.1/default/android.hardware.graphics.composer@2.1-service	6934193	Apache-2.0
external/tremolo/libvorbisidec.vendor	b6e31b1	BSDlike
external/speex/libspeexresampler.vendor	978296a	BSDlike
system/core/base/libbase	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/tv/cec/1.0/default/android.hardware.tv.cec@1.0-service	6934193	Apache-2.0
system/core/debugger/libtombstoned_client	android-9.0.0_r42-195-g7788a634	Apache-2.0
system/core/libpixelflinger/libpixelflinger	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/av/media/libaudioclient/libaudioclient	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/priv-app/RemoteVoiceInput/lib/arm/libAesJni	unknown	Apache-2.0
hardware/interfaces/tv/input/1.0/android.hardware.tv.input@1.0	6934193	Apache-2.0
external/hyphenation-patterns/hyph-de-ch-1901	unknown	MIT
frameworks/rs/driver/runtime/libclcore_neon.bc	unknown	Apache-2.0
external/fuse/util/fusermount	undefined	GPL-v2
frameworks/rs/librs	3b78758	Apache-2.0
external/hyphenation-patterns/hyph-und-ethi	unknown	MITlike
frameworks/av/media/libstagefright/codecs/raw/libstagefright_soft_rawdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/ml/nn/runtime/libneuralnetworks	3c620c0	Apache-2.0
frameworks/av/drm/drmserver/drmserver	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/graphics/composer/2.1/utis/hwc2on1adapter/libhwc2on1adapter	6934193	Apache-2.0
external/glib/gobject/libgobject-2.0	0d69e55	LGPL-v2.1
hardware/interfaces/wifi/supplicant/1.0/android.hardware.wifi.supplicant@1.0.vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/tv_input/tv_input.uiw4020eti	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
hardware/interfaces/power/1.3/android.hardware.power@1.3	6934193	Apache-2.0
external/peretto/traced	39d9d44	Apache-2.0
frameworks/base/media/mca/filterfw/native/libfilterfw	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/keymaster/libkeymaster_messages.vendor	de7e5f6	Apache-2.0
hardware/interfaces/cas/1.0/android.hardware.cas@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/health/1.0/android.hardware.health@1.0	6934193	Apache-2.0
frameworks/compile/libbcc/lib/libbcc	cd2cedc	Apache-2.0, MITlike
vendor/lib/modules/wlan2	unknown	GPL-v2
vendor/broadcom/bcm_platform/hals/dpthak/1.0/default/bcm.hardware.dpthak@1.0-service	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/dec/libstagefright_soft_vpxdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/libevent/libevent	f593008	BSDlike

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Module Name	Module Version	Module License
external/tremolo/libvorbisidec	b6e31b1	BSDlike
hardware/interfaces/weaver/1.0/android. hardware.weaver@1.0.vendor	6934193	Apache-2.0
vendor/firmware/mp_rtl8761a_config	unknown	Apache-2.0
frameworks/base/cmds/input/inputlib	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/av/media/extractors/mp4/libmp4 extractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/graphics/common/1.0/ android.hardware.graphics.common@1.0. vendor	6934193	Apache-2.0
external/libcxx/libc++	42e5d63	BSDlike
hardware/interfaces/memtrack/1.0/default/ android.hardware.memtrack@1.0-impl	6934193	Apache-2.0
hardware/interfaces/health/1.0/android. hardware.health@1.0.vendor	6934193	Apache-2.0
frameworks/av/media/libeffects/visualizer/ libvisualizer	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/core/toolbox/grep_vendor	android-9.0.0_r42-186-ge969850	BSDlike
bionic/libc/malloc_hooks/libc_malloc_hooks	4b001a1	BSDlike
bionic/libc/malloc_debug/libc_malloc_debug	4b001a1	BSDlike
system/netd/server/netd	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/base/packages/services/proxy/ proxyhandler	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/wilhelm/src/libopenmaxal	85565cf	Apache-2.0, MITlike
system/media/radio/libradio_metadata	603cac1	Apache-2.0
frameworks/base/cmds/appwidget/appwidget	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/sonic/libsonic	0acda6c	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/ technicolor.hardware.csn@1.0	bfb6717	Apache-2.0
hardware/interfaces/vibrator/1.0/android. hardware.vibrator@1.0	6934193	Apache-2.0
external/hyphenation-patterns/hyph-te	unknown	MIT
frameworks/base/packages/printspooler/jni/ libprintspooler_jni	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
external/miniupnp/miniupnpc/libminiupnpc	ab71270	BSDlike
system/framework/arm/boot-ext.art	unknown	Apache-2.0
hardware/interfaces/wifi/1.0/android.hardware. wifi@1.0.vendor	6934193	Apache-2.0
art/dt_fd_forward/libdt_fd_forward	a90da43	GPL-2.0-with-classpath-exception
frameworks/rs/driver/runtime/liblcore.bc	unknown	Apache-2.0
system/update_engine/update_engine	c25e3da	Apache-2.0
system/libhidl/transport/memory/1.0/default/ android.hidl.memory@1.0-impl.vendor	8fb37b5	Apache-2.0
vendor/broadcom/bcm_platform/nxif/nxssd/ nxssd	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/native/cmds/dumpstate/ libdumpstateutil.vendor	7128efa	Apache-2.0
frameworks/native/cmds/atrace/atrace	7128efa	Apache-2.0
system/core/libasynchio/libasynchio	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/iptables/iptables/iptables	210d321	GPL-v2

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Module Name	Module Version	Module License
frameworks/native/services/sensorservice/hidl/ libsensorservicehidl	7128efa	Apache-2.0
frameworks/av/drm/libmediadr/ libmediadrmmetrics_lite	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/power/1.0/android. hardware.power@1.0.vendor	6934193	Apache-2.0
system/security/keystore-engine/ libkeystore-engine	b8a0d6b	Apache-2.0
frameworks/av/media/libmedia/libmedia_omx	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/base/packages/ backupstoreconfirmation/ backupstoreconfirmation	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/hyphenation-patterns/hyph-as	unknown	MIT
device/technicolor/avko/interfaces/resolution/1. 0/technicolor.hardware.resolution@1.0	70cda62	Apache-2.0
vendor/lib/hw/btmp.default	unknown	Apache-2.0
hardware/interfaces/wifi/1.1/android.hardware. wifi@1.1.vendor	6934193	Apache-2.0
external/libcap/libcap	f8fc00c	BSDlike
vendor/lib/modules/jnl	unknown	GPL-v2
system/netd/bploader/bploader	v2.127.21-6-g0bbde15	Apache-2.0
system/core/init/init	android-9.0.0_r42-173-gf9a3135	Apache-2.0
system/vold/wait_for_keymaster	6434886	BSDlike, Apache-2.0
system/lib/libgoogle_tagger_aah_jni	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/ enc/libstagefright_soft_flacenc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/native/cmds/lshal/liblshal	7128efa	Apache-2.0
system/netd/server/libnetdaidl	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/rs/librs_internal	3b78758	Apache-2.0
vendor/google/libs/libgoogle_tagger_aah_jni	14b4ba9	Apache-2.0
external/hyphenation-patterns/hyph-ga	unknown	MIT
system/core/healthd/charger	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/framework/boot-voip-common	unknown	Apache-2.0
hardware/interfaces/power/1.0/android. hardware.power@1.0	6934193	Apache-2.0
hardware/interfaces/health/2.0/android. hardware.health@2.0	6934193	Apache-2.0
frameworks/base/cmds/locksettings/ locksettings	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/core/logwrapper/logwrapper	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/av/camera/ndk/libcamera2ndk	android-wear-8.0.0_r1-4446-gaea4455	Unicode, Apache-2.0
system/libhw/binder/libhw/binder	8e6c18d	Apache-2.0
hardware/interfaces/usb/1.1/android.hardware. usb@1.1.vendor	6934193	Apache-2.0
system/bin/fsck	unknown	GPL-v2
frameworks/base/cmds/statsd/statsd	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/base/services/services	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/drm/libmediadr/ libmediadr	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/mksh/sh_vendor	034f947	BSDlike

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Module Name	Module Version	Module License
frameworks/base/packages/vpndialogs/vpndialogs	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/services/medialog/libmedialogservice	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/libhidl/transport/token/1.0/utills/android.hidl.token@1.0-utills.vendor	8fb37b5	Apache-2.0
frameworks/native/libs/sensor/libsensor	7128efa	Apache-2.0
system/libhidl/transport/allocator/1.0/android.hidl.allocator@1.0	8fb37b5	Apache-2.0
system/technicolor/tr069/compat/uci	unknown	GPL-v2
system/core/libcrypto_utils/libcrypto_utils	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/tools/hidl/libhidl-gen-hash	c2e5850	Apache-2.0
hardware/interfaces/media/omx/1.0/android.hardware.media.omx@1.0.vendor	6934193	Apache-2.0
external/iproute2/lib/libiprouteutil	2d868b4	GPL-v2
vendor/broadcom/bcm_platform/apks/bcmcustomizer/bcmcustomizer	ANDROID_P_AB3_2	Apache-2.0
system/netd/libbpf/libbpf	v2.127.21-6-g0bbde15	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/default/android.hardware.graphics.allocator@2.0-impl	6934193	Apache-2.0
packages/apps/documentsui/documentsui	ccb012c	Apache-2.0
external/libjpeg-turbo/libjpeg	e9abdaf	zlib, BSDlike, IJG
vendor/broadcom/bcm_platform/hals/sfhak/1.0/bcm.hardware.sfhak@1.0.vendor	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/base/framework-oahl-backward-compatibility	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/hwcbinder	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
frameworks/rs/cpu_ref/librscpuref	3b78758	Apache-2.0
external/libchrome/libchrome	cd90a49	BSDlike
frameworks/av/services/audiopolicy/libaudiopolicyservice	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/thermal/1.0/android.hardware.thermal@1.0.vendor	6934193	Apache-2.0
external/hyphenation-patterns/hyph-ta	unknown	MIT
hardware/interfaces/sensors/1.0/android.hardware.sensors@1.0	6934193	Apache-2.0
external/libbrillo/libbrillo-binder	595c258	BSDlike
external/hyphenation-patterns/hyph-cu	unknown	MIT
frameworks/rs/librsdriver.vendor	3b78758	Apache-2.0
vendor/broadcom/bcm_platform/hals/hdmi_cec/libhdmiccec	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
frameworks/av/media/libstagefright/codecs/m4v_h263/enc/libstagefright_soft_mpeg4enc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/media/1.0/android.hardware.media@1.0.vendor	6934193	Apache-2.0
system/core/libsuspend/libsuspend	android-9.0.0_r42-172-g2fb0545	Apache-2.0
bootable/recovery/uncrypt/uncrypt	59470fd	Apache-2.0
system/core/lmkd/lmkd	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/keymaster/3.0/default/	6934193	Apache-2.0

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android.hardware.keymaster@3.0-service		
hardware/interfaces/keymaster/4.0/android.hardware.keymaster@4.0	6934193	Apache-2.0
frameworks/rs/librsdriver	3b78758	Apache-2.0
hardware/interfaces/renderscript/1.0/android.hardware.renderscript@1.0	6934193	Apache-2.0
external/e2fsprogs/resize/resize2fs	7d01f9f	GPL-v2
hardware/interfaces/media/bufferpool/1.0/android.hardware.media.bufferpool@1.0.vendor	6934193	Apache-2.0
art/patchoat/patchoat	a90da43	Apache-2.0
external/libunwind/libunwind	857d281	MIT
system/bt/main/libbluetooth	android-wear-8.0.0_r1-4390-g4d856f7	Apache-2.0
hardware/interfaces/configstore/Utils/android.hardware.configstore-Utils.vendor	6934193	Apache-2.0
hardware/interfaces/neuralnetworks/1.0/android.hardware.neuralnetworks@1.0.vendor	6934193	Apache-2.0
external/tinyalsa/libtinyalsa	0992609	BSDlike
frameworks/hardware/interfaces/sensorservice/1.0/android.frameworks.sensorservice@1.0	8927120	Apache-2.0
system/connectivity/wificond/wificond	v2.98.95-4-g102ab71	Apache-2.0
hardware/libhardware/modules/audio/audio.primary.default	953204c	Apache-2.0
system/netd/bpfloder/bpf_kern.o_bpf_kern.o	v2.127.21-6-g0bbde15	Apache-2.0
frameworks/opt/net/wifi/libwifi_system_iface/libwifi-system-iface	v2.80.95-201-gfe976aa	Apache-2.0
frameworks/av/media/mediaserver/mediaserver	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
bionic/libm/libm	8dc1d06	BSDlike
frameworks/av/media/libstagefright/xmlparser/libstagefright_xmlparser.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/av/media/libstagefright/codecs/vorbis/dec/libstagefright_soft_vorbisdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/wifi/1.2/android.hardware.wifi@1.2.vendor	6934193	Apache-2.0
hardware/interfaces/tv/cec/1.0/android.hardware.tv.cec@1.0	6934193	Apache-2.0
frameworks/native/services/surfaceflinger/timestats/timestatsproto/libtimestats_proto	7128efa	Apache-2.0
external/tensorflow/tensorflow/contrib/lite/libtfLite	6c79676	Apache-2.0
hardware/interfaces/power/1.2/android.hardware.power@1.2.vendor	6934193	Apache-2.0
frameworks/base/core/res/framework-res	android-wear-8.0.0_r1-30821-g0573864	Apache-2.0
frameworks/base/cmds/incidentd/incidentd	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/media/Utils/libmediautils	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/core/gatekeeperd/gatekeeperd	android-9.0.0_r42-172-g2fb0545	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/default/technicolor.hardware.csn@1.0-service	bfb6717	Apache-2.0
frameworks/av/services/mediaanalytics/mediametrics	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/media/audio_utils/libaudioutils	603cac1	Apache-2.0

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system/framework/boot-okhttp	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/dec/libstagefright_soft_flacdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libstagefright/http/libstagefright_http_support	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
external/libcap/libcap.vendor	f8fc00c	BSDlike
packages/apps/keychain/keychain	android-n-iot-release-smart-display-r2-76-g63252e8	Apache-2.0
frameworks/av/media/libeffects/config/libeffectsconfig	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/camera/device/3.4/android.hardware.camera.device@3.4	6934193	Apache-2.0
hardware/interfaces/tetheroffload/control/1.0/android.hardware.tetheroffload.control@1.0.vendor	6934193	Apache-2.0
frameworks/rs/driver/runtime/libclcore_g.bc	unknown	Apache-2.0
external/neven/rffstd_501.bmd	78bec76	Apache-2.0
external/boringssl/libssl.vendor	373c295	BSDlike
frameworks/av/media/libnblog/libnblog	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/drm/1.1/android.hardware.drm@1.1.vendor	6934193	Apache-2.0
frameworks/native/services/powermanager/libpowermanager	7128efa	Apache-2.0
hardware/interfaces/bluetooth/1.0/default/android.hardware.bluetooth@1.0-impl	6934193	Apache-2.0
frameworks/base/framework	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
external/libopus/libopus.vendor	cf168b6	BSDlike
system/libhidl/transport/allocator/1.0/utills/libhidlallocatorutills	8fb37b5	Apache-2.0
hardware/interfaces/light/utills/blank_screen	6934193	Apache-2.0
frameworks/av/media/libnbaio/libnbaio	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/framework/boot-android.hidl.base-V1.0-java	unknown	Apache-2.0
frameworks/av/media/libstagefright/omx/libstagefright_omx.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/opt/net/wifi/libwifi_system_iface/libwifi-system-iface.vendor	v2.80.95-201-gfe976aa	Apache-2.0
frameworks/native/cmds/dumpsys/dumpsys	7128efa	Apache-2.0
frameworks/av/services/camera/libcameraservice/libcameraservice	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/hyphenation-patterns/hyph-et	unknown	MIT
frameworks/av/media/libstagefright/codecs/g711/dec/libstagefright_soft_g711dec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/opt/net/voip/src/jni/rtp/librtp_jni	6ceb01c	Apache-2.0
external/sonivox/arm-wt-22k/libsonivox	cd74ddb	Apache-2.0
vendor/realtek/bluetooth/rtkbt/code/libbt-vendor/src/libbt-vendor	df457b6	Apache-2.0
libcoap	4.1.1	BSD-2-Clause
system/core/reboot/reboot	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/av/media/extractors/wav/libwavextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0

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frameworks/base/cmds/idmap/idmap	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/framework/boot-telephony-common	unknown	Apache-2.0
external/hyphenation-patterns/hyph-cy	unknown	MIT
bootable/recovery/applypatch/applypatch	1e74bf0	BSDlike, Apache-2.0
external/tinyxml2/libtinyxml2.vendor	2399db2	BSDlike
hardware/interfaces/graphics/common/1.1/ android.hardware.graphics.common@1.1	6934193	Apache-2.0
libcore/libopenjdk	undefined	GPL-2.0-with-classpath-exception
hardware/interfaces/graphics/mapper/2.1/ android.hardware.graphics.mapper@2.1	6934193	Apache-2.0
external/pcre/libpcre2.vendor	59a5652	BSD
external/e2fsprogs/lib/et/libext2_com_err	7d01f9f	GPL-v2
hardware/interfaces/camera/common/1.0/ android.hardware.camera.common@1.0. vendor	6934193	Apache-2.0
external/e2fsprogs/lib/e2p/libext2_e2p	7d01f9f	GPL-v2
vendor/lib/proc_api	unknown	Apache-2.0
frameworks/av/media/libeffects/config/ libeffectsconfig.vendor	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/base/cmds/screencap/screencap	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
art/openjdkjvm/libopenjdkjvm	a90da43	GPL-2.0-with-classpath-exception
system/core/libmemtrack/libmemtrack	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/harfbuzz_ng/libharfbuzz_ng	144ce8b	BSDlike, MITlike
system/framework/arm/boot-ims-common.art	unknown	Apache-2.0
external/dng_sdk/libdng_sdk	3466933	BSD
hardware/interfaces/gatekeeper/1.0/android. hardware.gatekeeper@1.0	6934193	Apache-2.0
system/core/debuggerd/crash_dump	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/rii/librilutils/librilutils	99d5d22	Apache-2.0
system/core/libion/libion	android-9.0.0_r42-172-g2fb0545	Apache-2.0
vendor/lib/modules/wlan	unknown	GPL-v2
frameworks/native/cmds/dumpstate/ libdumpstateutil	7128efa	Apache-2.0
frameworks/native/libs/vr/ libpdx_default_transport/ libpdx_default_transport	7128efa	Apache-2.0
frameworks/av/services/mediacodec/android. hardware.media.omx@1.0-service	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/perfetto/traced_probes	39d9d44	Apache-2.0
system/update_engine/update_engine_client	c25e3da	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2 /dec/libstagefright_soft_vpxdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/hyphenation-patterns/hyph-nn	unknown	MITlike
system/core/toolbox/toolbox_vendor	android-9.0.0_r42-186-ge969850	BSDlike
hardware/interfaces/audio/common/4.0/ android.hardware.audio.common@4.0.vendor	6934193	Apache-2.0
frameworks/base/cmds/hid/jni/ libhidcommand_jni	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/vr/1.0/android.hardware.vr@1.0	6934193	Apache-2.0
frameworks/base/libs/androidfw/libandroidfw	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/rs/driver/runtime/libclcore_debug_g.bc	unknown	Apache-2.0
system/core/libcutils/libcutils	android-9.0.0_r42-195-g7788a634	Apache-2.0
art/dexlayout/dexdiag	a90da43	Apache-2.0
frameworks/av/media/libstagefright/xmlparser/libstagefright_xmlparser	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
system/framework/arm/boot-apache.xml.art	unknown	Apache-2.0
packages/apps/htmlviewer/htmlviewer	b59af56	Apache-2.0
system/core/toolbox/toolbox	android-9.0.0_r42-186-ge969850	BSDlike
frameworks/av/media/libstagefright/codecs/aacdec/libstagefright_soft_aacdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libaudiohal/4.0/libaudiohal@4.0	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
hardware/interfaces/thermal/1.0/default/android.hardware.thermal@1.0-impl	6934193	Apache-2.0
system/libhidl/transport/allocator/1.0/utils/libhidlallocatorutils.vendor	8fb37b5	Apache-2.0
hardware/interfaces/gnss/1.1/android.hardware.gnss@1.1.vendor	6934193	Apache-2.0
hardware/ril/libril/libril	99d5d22	Apache-2.0
hardware/interfaces/graphics/mapper/2.1/android.hardware.graphics.mapper@2.1.vendor	6934193	Apache-2.0
device/technicolor/avko/interfaces/resolution/1.0/default/technicolor.hardware.resolution@1.0-service	70cda62	Apache-2.0
frameworks/opt/net/wifi/service/wifi-service	v2.80.95-24-g0f5a25e	Apache-2.0
vendor/broadcom/bcm_platform/hals/sdbhak/1.0/default/bcm.hardware.sdbhak@1.0-service	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
system/hardware/interfaces/net/netd/1.0/android.system.net.netd@1.0.vendor	ab3d6cb	Apache-2.0
system/bin/sload_f2fs	unknown	GPL-v2
external/e2fsprogs/misc/libext2_misc	7d01f9f	GPL-v2
hardware/interfaces/bluetooth/1.0/android.hardware.bluetooth@1.0	6934193	Apache-2.0
system/libhidl/base/libhidlbase.vendor	8fb37b5	Apache-2.0
frameworks/base/packages/captiveportallogin/captiveportallogin	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/base/services/libandroid_servers	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
zlib	1.2.8	zlib
frameworks/av/media/libstagefright/codecs/amrwbenc/libstagefright_soft_amrwbenc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/firmware/rtl8822b_config	unknown	Apache-2.0
frameworks/native/libs/nativewindow/libnativewindow	7128efa	Apache-2.0
system/media/audio_route/libaudioroute.vendor	45ccc48	BSDlike
hardware/interfaces/graphics/composer/2.1/default/android.hardware.graphics.composer@2.1-impl	6934193	Apache-2.0

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packages/apps/camera2/jni/libjni_tinyplanet	70b0e58	Apache-2.0
external/neven/rffspeed_501.bmd	78bec76	Apache-2.0
frameworks/av/camera/cameraserver/ cameraserver	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/audio/effect/2.0/android. hardware.audio.effect@2.0	6934193	Apache-2.0
frameworks/base/cmds/bmgr/bmgrib	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/core/libcrypto_utils/libcrypto_utils. vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/media/radio/libradio_metadata.vendor	603cac1	Apache-2.0
hardware/interfaces/audio/4.0/android. hardware.audio@4.0.vendor	6934193	Apache-2.0
frameworks/base/rs/jni/librs_jni	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/core/libnetutils/libnetutils	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/av/media/libstagefright/bqhelper/ libstagefright_bufferqueue_helper	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
device/technicolor/uiw4020eti/apps/ leankeykeyboard/leankeykeyboard	unknown	Apache-2.0, MPL-v2
system/core/libvndksupport/libvndksupport	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/tinyalsa/libtinyalsa.vendor	0992609	BSDlike
external/pcre/libpcrecpp	59a5652	BSD
system/core/libappfuse/libappfuse	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/av/media/ndk/libmediandk	android-wear-8.0.0_r1-4446-gaea4455	Unicode, Apache-2.0
frameworks/rs/driver/runtime/libclcore_debug. bc	unknown	Apache-2.0
system/core/usbd/usbd	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/core/libsparse/libsparse	android-9.0.0_r42-172-g2fb0545	Apache-2.0
packages/apps/settingsintelligence/ settingsintelligence	bc3a462	Apache-2.0
hardware/interfaces/graphics/composer/2.2/ android.hardware.graphics.composer@2.2. vendor	6934193	Apache-2.0
system/technicolor/tr069/datamodel/ datamodelapp	f305755	Apache-2.0, Apache-1.1
hardware/interfaces/audio/common/4.0/ android.hardware.audio.common@4.0	6934193	Apache-2.0
hardware/interfaces/camera/device/3.2/ android.hardware.camera.device@3.2	6934193	Apache-2.0
frameworks/base/media/jni/audioeffect/ libaudioeffect_jni	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
packages/apps/gallery2/jni/libjni_eglence	dad9bdb	Apache-2.0
frameworks/native/libs/vr/libbufferhubqueue/ libbufferhubqueue	7128efa	Apache-2.0
external/iputils/ping	android-9.0.0_r16	BSD-3-Clause
hardware/interfaces/soundtrigger/2.0/default/ android.hardware.soundtrigger@2.0-core. vendor	6934193	Apache-2.0
system/core/run-as/run-as	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/opt/net/ims/ims-common	99de2a7	Apache-2.0
external/libldac/libldacbt_abr.vendor	68f49b7	Apache-2.0
external/vixl/libvixl-arm	3f16336	BSDlike

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system/core/libsysutils/libsysutils.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
frameworks/av/services/soundtrigger/libsoundtriggerservice	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/ipsec-tools/racoon	16477a4	BSDlike
vendor/lib/modules/rtk_btusb	unknown	GPL-v2
frameworks/av/media/libstagefright/codecs/m4v_h263/dec/libstagefright_soft_mpeg4dec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/memtrack/1.0/android.hardware.memtrack@1.0	6934193	Apache-2.0
hardware/interfaces/camera/device/3.2/default/camera.device@3.2-impl	6934193	Apache-2.0
hardware/interfaces/boot/1.0/default/android.hardware.boot@1.0-impl	6934193	Apache-2.0
external/minijail/libminijail.vendor	c5af311	BSDlike
external/icu/icu4c/source/stubdata/icu-data	be08251	BSD, MITlike
frameworks/av/media/libmediaextractor/libmediaextractor	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
device/technicolor/avko/interfaces/soc/1.0/default/technicolor.hardware.soc@1.0-service	f35789a	Apache-2.0
external/bouncycastle/bouncycastle	2044754	BSDlike
system/core/sdcard/sdcard	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/miniupnp/miniupnpc/upnpc	ab71270	BSDlike
vendor/broadcom/bcm_platform/sec/oemcrypto/liboemcrypto	ANDROID_P_AB3_2	Apache-2.0
external/hyphenation-patterns/hyph-kn	unknown	MIT
vendor/broadcom/playready/lib/libplayready30pk	ANDROID_P_AB3_4	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/enc/libstagefright_soft_amrnbenc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libeffects/loudness/libldnhncr	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/media/libstagefright/flac/dec/libstagefright_flacdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/security/keystore/libkeystore_aidl	b8a0d6b	Apache-2.0
system/core/base/libbase.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
vendor/broadcom/bcm_platform/hals/dspsvcext/1.0/bcm.hardware.dspsvcext@1.0.vendor	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
frameworks/native/services/surfaceflinger/libsurfaceflinger_ddmconnection	7128efa	Apache-2.0
bionic/libc/libc	4b001a1	BSDlike
frameworks/wilhelm/src/libwilhelm	85565cf	Apache-2.0, MITlike
frameworks/av/services/mediaresourcemanager/libresourcemanagerservice	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/av/media/extractors/mp3/libmp3extractor	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/webRTC/libwebrtc_audio_preprocessing	4bf309e	BSDlike
frameworks/av/media/libaudiohal/libaudiohal_deathhandler	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/hyphenation-patterns/hyph-fr	unknown	MIT

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frameworks/av/media/libstagefrighth/codecs/m4v_h263/dec/libstagefrighth_soft_mpeg4dec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/native/libs/gui/libgui.vendor	7128efa	Apache-2.0
frameworks/base/cmds/content/content	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/av/media/extractors/aac/libaacextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicymanagerdefault	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/framework/arm/boot-android.hidl.manager-V1.0-java.art	unknown	Apache-2.0
system/security/keystore-engine/libkeystore-engine-wifi-hidl	b8a0d6b	Apache-2.0
hardware/interfaces/secure_element/1.0/android.hardware.secure_element@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/gatekeeper/1.0/android.hardware.gatekeeper@1.0.vendor	6934193	Apache-2.0
system/media/bootanimation	unknown	Apache-2.0
external/oj-libjdwplibdt_socket	2431de3	GPL-2.0-with-classpath-exception
libfdt_env.patch	Undefined	BSD
hardware/interfaces/broadcastradio/1.1/android.hardware.broadcastradio@1.1.vendor	6934193	Apache-2.0
system/core/libqtaguid/libqtaguid	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/audio/common/all-versions/default/service/android.hardware.audio@2.0-service	6934193	Apache-2.0
hardware/interfaces/bluetooth/a2dp/1.0/android.hardware.bluetooth.a2dp@1.0	6934193	Apache-2.0
system/core/libnativeloader/libnativeloader	android-9.0.0_r42-172-g2fb0545	Apache-2.0
packages/apps/bluetooth/jni/libbluetooth_jni	aba07d1	Apache-2.0
frameworks/base/packages/companiondevicemanager/companiondevicemanager	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
frameworks/av/media/libstagefrighth/codecs/amrnb/common/libstagefrighth_amrnb_common	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/graphics/mapper/2.0/android.hardware.graphics.mapper@2.0.vendor	6934193	Apache-2.0
system/core/libprocinfo/libprocinfo.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/libhwcomposer	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
frameworks/av/media/libstagefrighth/bqhelper/libstagefrighth_bufferqueue_helper.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
system/vold/secdiscard	6434886	BSDlike, Apache-2.0
system/core/libbacktrace/libbacktrace	android-9.0.0_r42-172-g2fb0545	Apache-2.0
packages/providers/userdictionaryprovider/userdictionaryprovider	773b00b	Apache-2.0
system/keymaster/libsoftkeymasterdevice.vendor	de7e5f6	Apache-2.0
system/core/libziparchive/libziparchive	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/libcxx/libc++.vendor	42e5d63	BSDlike
hardware/interfaces/neuralnetworks/1.1/android.hardware.neuralnetworks@1.1.vendor	6934193	Apache-2.0
frameworks/base/cmds/am/am	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0

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Module Name	Module Version	Module License
external/mtpd/mtpd	39d92f3	Apache-2.0
frameworks/compile/libbcc/tools/bcc/bcc	cd2cedc	Apache-2.0, MITlike
system/libhidl/transport/memory/block/1.0/ android.hidl.memory.block@1.0.vendor	8fb37b5	Apache-2.0
vendor/broadcom/bcm_platform/hals/ hwcomposer/hwcomposer.uiw4020eti	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
system/framework/boot-android.hidl. manager-V1.0-java	unknown	Apache-2.0
hardware/libhardware/modules/local_time/ local_time.default	953204c	Apache-2.0
frameworks/base/packages/shell/shell	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/media/libmedia/libmedia	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
hardware/interfaces/tetheroffload/config/1.0/ android.hardware.tetheroffload.config@1.0. vendor	6934193	Apache-2.0
frameworks/native/libs/input/libinput	7128efa	Apache-2.0
device/technicolor/avko/interfaces/soc/1.0/ technicolor.hardware.soc@1.0.vendor	f35789a	Apache-2.0
hardware/interfaces/cas/1.0/default/android. hardware.cas@1.0-service	6934193	Apache-2.0
hardware/interfaces/biometrics/fingerprint/2.1/ android.hardware.biometrics.fingerprint@2.1. vendor	6934193	Apache-2.0
external/protobuf/libprotobuf-cpp-lite	4115014	Apache-2.0
vendor/broadcom/bcm_platform/hals/thermal/ thermal.uiw4020eti	ANDROID_P_AB3_2-57-g8401131	Apache-2.0
hardware/interfaces/wifi/supplicant/1.0/android. hardware.wifi.suplicant@1.0	6934193	Apache-2.0
frameworks/av/media/libstagefright/flac/dec/ libstagefright_flacdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/core/adb/adb	android-9.0.0_r42-195-g7788a634	Apache-2.0
packages/providers/downloadprovider/ui/ downloadproviderui	e7f3521	Apache-2.0
system/core/libsuspend/libsuspend.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
bionic/linker/ld-android	8dc1d06	BSDlike
frameworks/av/media/libstagefright/codecs/ mpeg2dec/libstagefright_soft_mpeg2dec. vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
hardware/libhardware/libhardware.vendor	953204c	Apache-2.0
frameworks/av/media/libstagefright/codecs/ aacenc/libstagefright_soft_aacenc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/broadcom/bcm_platform/hals/health/2.0/ /android.hardware.health@2.0-service.bcm	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
hardware/libhardware/modules/gralloc/gralloc. default	953204c	Apache-2.0
frameworks/native/services/surfaceflinger/ surfaceflinger	7128efa	Apache-2.0
external/e2fsprogs/misc/blkid	7d01f9f	GPL-v2
frameworks/av/media/libstagefright/ libstagefright_codecbase	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/base/packages/systemui/systemui	android-wear-8.0.0_r1-30886-g23e48b4	Apache-2.0
external/zlib/libz	b30b23d	BSDlike
frameworks/av/media/libeffects/factory/ libeffects	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0

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Module Name	Module Version	Module License
bootable/recovery/update_verifier/update_verifier	59470fd	Apache-2.0
external/boringssl/libssl	373c295	BSDlike
system/core/libnetutils/libnetutils.vendor	android-9.0.0_r42-195-g7788a634	Apache-2.0
external/speex/libspeexresampler	978296a	BSDlike
system/media/camera/libcamera_metadata.vendor	603cac1	Apache-2.0
build/make/tools/fs_config/fs_config_files	android-wear-8.0.0_r1-4033-g31132f3	Apache-2.0
hardware/interfaces/gnss/1.1/android.hardware.gnss@1.1	6934193	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/android.hardware.graphics.allocator@2.0.vendor	6934193	Apache-2.0
frameworks/av/media/extractors/mpeg2/libmpeg2extractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
packages/inputmethods/latinime/native/jni/libjni_latinime	6b15609	Apache-2.0
external/iproute2/ip/ip	2d868b4	GPL-v2
frameworks/av/media/libmediaplayerservice/libmediaplayerservice	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/extras/libpagemap/libpagemap	9e1deac	Apache-2.0
vendor/technicolor/rcu_firmwares/fw/technicolor_remote_rtk_app.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
hardware/interfaces/graphics/mapper/2.0/android.hardware.graphics.mapper@2.0	6934193	Apache-2.0
external/libopus/libopus	cf168b6	BSDlike
vendor/firmware/rtl8822b_fw	unknown	Apache-2.0
hardware/interfaces/tv/input/1.0/default/android.hardware.tv.input@1.0-impl	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/libhwcutils	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
hardware/interfaces/graphics/common/1.0/android.hardware.graphics.common@1.0	6934193	Apache-2.0
hardware/interfaces/drm/1.0/default/android.hardware.drm@1.0-impl	6934193	Apache-2.0
frameworks/native/libs/dumputils/libdumputils	7128efa	Apache-2.0
frameworks/native/openssl/libglesv1_cm	7128efa	Apache-2.0
system/core/libziparchive/libziparchive.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/extras/ext4_utils/libext4_utils	9e1deac	Apache-2.0
frameworks/opt/net/wifi/service/libwifi-service	v2.80.95-24-g0f5a25e	Apache-2.0
hardware/interfaces/thermal/1.0/default/android.hardware.thermal@1.0-service	6934193	Apache-2.0
external/hyphenation-patterns/hyph-en-us	unknown	hyph-en-us.lic - Kuiken
frameworks/av/media/libeffects/lvm/wrapper/libbundlewrapper	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/llvm/libllvm_android	ae9abe3	BSDlike
external/hyphenation-patterns/hyph-or	unknown	MIT
hardware/interfaces/camera/metadata/3.3/android.hardware.camera.metadata@3.3.vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/dspvcext/1.0/bcm.hardware.dspvcext-v1.0-java	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0

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Module Name	Module Version	Module License
system/core/libutils/libutilscallstack	android-9.0.0_r42-195-g7788a634	Apache-2.0
frameworks/base/packages/ctsshim/ctsshimprebuilt	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/core/libmemunreachable/libmemunreachable	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/automotive/audiocontrol/1.0/android.hardware.automotive.audiocontrol@1.0.vendor	6934193	Apache-2.0
external/hyphenation-patterns/hyph-hy	unknown	LGPL-v2.1
vendor/broadcom/bcm_platform/hals/sfhak/1.0/default/bcm.hardware.sfhak@1.0-service	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
system/core/logwrapper/logwrapper_vendor	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/interfaces/sensors/1.0/android.hardware.sensors@1.0.vendor	6934193	Apache-2.0
external/hyphenation-patterns/hyph-pa	unknown	MIT
hardware/interfaces/configstore/1.1/android.hardware.configstore@1.1	6934193	Apache-2.0
external/hyphenation-patterns/hyph-bn	unknown	MIT
external/hyphenation-patterns/hyph-tk	unknown	MIT
frameworks/base/media/jni/soundpool/libsoundpool	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
system/libhidl/transport/memory/token/1.0/android.hidl.memory.token@1.0.vendor	8fb37b5	Apache-2.0
frameworks/av/media/libstagefright/codecs/opus/dec/libstagefright_soft_opusdec	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/av/media/extractors/amr/libamrextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/chromium-webview/webview	5425fb5	Apache-2.0
frameworks/av/camera/libcamera_client	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
vendor/technicolor/rcu_firmwares/fw/vodafone_tv_remote_rtk_app.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
frameworks/base/cmds/sm/sm	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
hardware/interfaces/drm/1.1/android.hardware.drm@1.1	6934193	Apache-2.0
external/vixl/libvixl-arm.vendor	3f16336	BSDlike
external/libbrillo/libbrillo	595c258	BSDlike
hardware/interfaces/boot/1.0/android.hardware.boot@1.0	6934193	Apache-2.0
libcore/libjavacore	undefined	GPL-2.0-with-classpath-exception
system/core/libutils/libutils	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/interfaces/vibrator/1.2/android.hardware.vibrator@1.2	6934193	Apache-2.0
frameworks/base/cmds/bootanimation/bootanimation	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/nfc/1.0/android.hardware.nfc@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/boot/1.0/android.hardware.boot@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/camera/provider/2.4/android.hardware.camera.provider@2.4	6934193	Apache-2.0
vendor/firmware/rtl8761at_config	unknown	Apache-2.0
packages/apps/gallery2/jni_jpegstream/libjni_jpegstream	dad9bdb	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/audio/common/2.0/default/ android.hardware.audio.common@2.0-util. vendor	6934193	Apache-2.0
frameworks/av/media/libstagefright/codecs/g71 1/dec/libstagefright_soft_g711dec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/framework/boot-android.test.base	unknown	Apache-2.0
libcore/core-libart	undefined	GPL-2.0-with-classpath-exception
hardware/interfaces/gatekeeper/1.0/default/ android.hardware.gatekeeper@1.0-service	6934193	Apache-2.0
art/dexlayout/libart-dexlayout	a90da43	Apache-2.0
vendor/broadcom/playready/lib/ libplayreadydrmplugin_2_5	ANDROID_P_AB3_4	Apache-2.0
art/dex2oat/dex2oat	a90da43	Apache-2.0
frameworks/native/libs/gui/libgui	7128efa	Apache-2.0
external/cn-cbor/libcn-cbor.vendor	7fe9f01	MIT
system/framework/arm/ boot-telephony-common.art	unknown	Apache-2.0
hardware/interfaces/oemlock/1.0/android. hardware.oemlock@1.0.vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/ hdmi_cec/hdmi_cec.uiw4020eti	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
external/pcre/libpcre2	59a5652	BSD
hardware/interfaces/camera/device/1.0/default/ camera.device@1.0-impl	6934193	Apache-2.0
system/bt/binder/libbluetooth-binder	android-wear-8.0.0_r1-4390-g4d856f7	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2 /enc/libstagefright_soft_vpxenc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/hyphenation-patterns/hyph-la	unknown	MIT
system/framework/arm/boot-okhttp.art	unknown	Apache-2.0
art/sigchainlib/libsigchain	a90da43	Apache-2.0
hardware/interfaces/ir/1.0/android.hardware. ir@1.0.vendor	6934193	Apache-2.0
frameworks/base/packages/fusedlocation/ fusedlocation	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
vendor/broadcom/bcm_platform/hals/ boot_control/bootctrl.uiw4020eti	ANDROID_P_AB3_2-8-g66f0edb	Apache-2.0
vendor/broadcom/bcm_platform/hals/gpu/ gfxdriver-bcmstb	ANDROID_P_AB3_2	Apache-2.0
system/framework/arm/boot-bouncycastle	unknown	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/ android.hardware.graphics.allocator@2.0	6934193	Apache-2.0
frameworks/av/media/libaudiohal/libaudiohal	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/pdfium/libpdfium	d904c1e	BSDlike
hardware/interfaces/audio/effect/4.0/android. hardware.audio.effect@4.0	6934193	Apache-2.0
hardware/interfaces/vibrator/1.2/android. hardware.vibrator@1.2.vendor	6934193	Apache-2.0
development/cmds/monkey/monkeylib	749143c	Apache-2.0
hardware/interfaces/configstore/1.0/android. hardware.configstore@1.0	6934193	Apache-2.0
system/libhidl/transport/memory/1.0/android. hidl.memory@1.0	8fb37b5	Apache-2.0

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Module Name	Module Version	Module License
external/one-true-awk/awk_vendor	c72813b	BSDlike
system/technicolor/tr069/datamodel/jni/libcwmsocketjni	f305755	Apache-2.0, Apache-1.1
hardware/interfaces/keymaster/4.0/support/libkeymaster4support	6934193	Apache-2.0
frameworks/base/packages/ctsshim/ctsshimprivprebuilt	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
hardware/interfaces/light/2.0/default/android.hardware.light@2.0-service	6934193	Apache-2.0
system/extras/libpagemap/libpagemap.vendor	9e1deac	Apache-2.0
system/framework/arm/boot-telephony-common	unknown	Apache-2.0
system/bin/make_f2fs	unknown	GPL-v2
external/neven/libfftem	78bec76	Apache-2.0
system/framework/arm/boot-android.test.base.art	unknown	Apache-2.0
system/framework/boot-core-libart	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/gsm/dec/libstagefright_soft_gsmdec.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/perfetto/libtraced_shared	39d9d44	Apache-2.0
system/libhidl/transport/token/1.0/utills/android.hidl.token@1.0-utills	8fb37b5	Apache-2.0
frameworks/av/media/libstagefright/codecs/mp3dec/libstagefright_soft_mp3dec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
packages/apps/gallery2/jni/libjni_filtershow_filters	dad9bdb	Apache-2.0
frameworks/native/cmds/ip-up-vpn/ip-up-vpn	7128efa	Apache-2.0
device/technicolor/avko/hal/soc/soc_api	f7cf475f	Apache-2.0
hardware/interfaces/camera/device/1.0/android.hardware.camera.device@1.0	6934193	Apache-2.0
frameworks/av/services/mediaextractor/mediaextractor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/technicolor/tr069/compat/libcwmpttransformerbackend	unknown	MITlike
system/framework/arm/boot-android.hidl.base-V1.0-java	unknown	Apache-2.0
system/core/debuggerd/tombstoned	android-9.0.0_r42-195-g7788a634	Apache-2.0
external/protobuf/libprotobuf-cpp-full	4115014	Apache-2.0
hardware/interfaces/audio/2.0/android.hardware.audio@2.0.vendor	6934193	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacenc/libstagefright_soft_aacenc.vendor	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
external/protobuf/libprotobuf-cpp-lite.vendor	4115014	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrwbenc/libstagefright_soft_amrwbenc	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
frameworks/av/services/audioflinger/libserviceutility	android-wear-8.0.0_r1-4439-gb2856bf	Apache-2.0
hardware/interfaces/audio/common/2.0/android.hardware.audio.common@2.0	6934193	Apache-2.0
frameworks/rs/librscachedir	3b78758	Apache-2.0
frameworks/av/media/libmediametrics/libmediametrics	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
system/core/libunwindstack/libunwindstack	android-9.0.0_r42-172-g2fb0545	Apache-2.0

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Module Name	Module Version	Module License
external/wpa_supplicant_8/wpa_supplicant/wpa_supplicant	android-9.0.0_r22-81-g7c4de9d	BSD-3-Clause
libcore/core-oj	undefined	GPL-2.0-with-classpath-exception
frameworks/av/media/libstagefright/codecs/avcdec/libstagefright_soft_avcdec	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
frameworks/base/test-base/android.test.base	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/av/services/oboeservice/libaaudioservice	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/av/media/libstagefright/codecs/hevcdec/libstagefright_soft_hevcdec.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
external/minijail/libminijail	c5af311	BSDlike
system/framework/arm/boot-ims-common	unknown	Apache-2.0
frameworks/base/packages/services/pacprocessor/jni/libjni_pacprocessor	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
prebuilts/clang/host/linux-x86/libclang_rt.ubsan_standalone-arm-android.vendor	7cc1558	Apache-2.0
system/libvintf/libvintf	57a4bad	Apache-2.0
system/security/keystore/libkeystore-wifi-hidl	b8a0d6b	Apache-2.0
external/e2fsprogs/lib/uuid/libext2_uuid	7d01f9f	BSDlike
hardware/interfaces/graphics/common/1.1/android.hardware.graphics.common@1.1.vendor	6934193	Apache-2.0
external/selinux/libsepol/libsepol	9295255	LGPL-v2.1
system/libhidl/transport/memory/1.0/default/android.hidl.memory@1.0-impl	8fb37b5	Apache-2.0
system/libhwbinder/libhwbinder_noltpgo.vendor	8e6c18d	Apache-2.0
external/libpng/libpng	6e267ff	BSDlike
frameworks/base/cmds/media/media_cmd	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
hardware/interfaces/neuralnetworks/1.1/android.hardware.neuralnetworks@1.1	6934193	Apache-2.0
system/media/audio_utils/libaudioutils.vendor	603cac1	Apache-2.0
frameworks/base/media/lib/signer/com.android.mediadrm.signer	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
frameworks/base/media/lib/tvremote/com.android.media.tv.remoteprovider	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
vendor/broadcom/playready/lib/libprhidl_2_5	ANDROID_P_AB3_4	Apache-2.0
external/expat/libexpat.vendor	9a9c9b0	BSDlike
dalvik/dexdump/dexdump	cb2596b	Apache-2.0
hardware/interfaces/automotive/evs/1.0/android.hardware.automotive.evs@1.0.vendor	6934193	Apache-2.0
art/openjdkjvmti/libopenjdkjvmti	a90da43	GPL-2.0-with-classpath-exception
vendor/broadcom/playready/lib/libprhidl_3_0	ANDROID_P_AB3_4	Apache-2.0
frameworks/av/media/libnbaio/libnbaio_mono	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/rs/cpu_ref/librscpuref.vendor	3b78758	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacdec/libstagefright_soft_aacdec	android-wear-8.0.0_r1-4446-gaea4455	Apache-2.0
system/core/libbacktrace/libbacktrace.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
hardware/interfaces/ir/1.0/android.hardware.ir@1.0	6934193	Apache-2.0

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Module Name	Module Version	Module License
system/core/libbinderwrapper/libbinderwrapper	android-9.0.0_r42-172-g2fb0545	Apache-2.0
system/core/mkbootimg/libmkbootimg_abi_check.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0
external/mdnsresponder/mdnsd	c3a4daa	Apache-2.0
hardware/interfaces/graphics/bufferqueue/1.0/android.hardware.graphics.bufferqueue@1.0	6934193	Apache-2.0
external/bzip2/bzip2	a5304fb	BSDlike
frameworks/base/cmds/hid/hid	android-wear-8.0.0_r1-30994-g53b1acb	Apache-2.0
bootable/recovery/recovery	59470fd	Apache-2.0
external/libyuv/files/libyuv.vendor	237d98a	BSDlike
hardware/interfaces/soundtrigger/2.1/default/android.hardware.soundtrigger@2.1-impl	6934193	Apache-2.0
hardware/interfaces/broadcastradio/1.1/android.hardware.broadcastradio@1.1	6934193	Apache-2.0
build/make/tools/fs_config/fs_config_files_vendor	android-wear-8.0.0_r1-4033-g31132f3	Apache-2.0
vendor/broadcom/playready/bin/android.hardware.drm@1.1-service.playready	ANDROID_P_AB3_4	Apache-2.0
art/libdexfile/libdexfile	a90da43	Apache-2.0
hardware/interfaces/contexthub/1.0/android.hardware.contexthub@1.0.vendor	6934193	Apache-2.0
hardware/interfaces/tetheroffload/config/1.0/android.hardware.tetheroffload.config@1.0	6934193	Apache-2.0
frameworks/native/vulkan/libvulkan/libvulkan	7128efa	Apache-2.0
frameworks/av/media/libaudiohal/2.0/libaudiohal@2.0	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
frameworks/av/cmds/screenrecord/screenrecord	android-wear-8.0.0_r1-4433-gdb8708b	Apache-2.0
external/curl/libcurl.vendor	7e5c6f2	MIT
frameworks/native/services/inputflinger/libinputflinger	7128efa	Apache-2.0
vendor/lib/soc_api	unknown	Apache-2.0
build/make/target/product/security/verity_key	unknown	Apache-2.0
external/apache-http/org.apache.http.legacy.boot	f14002e	Apache-2.0
system/framework/boot-conscrypt	unknown	Apache-2.0
hardware/interfaces/vibrator/1.1/android.hardware.vibrator@1.1.vendor	6934193	Apache-2.0
external/hyphenation-patterns/hyph-en-gb	unknown	Unicode
system/keymaster/libkeymaster_portable	de7e5f6	Apache-2.0
hardware/interfaces/renderscript/1.0/android.hardware.renderscript@1.0.vendor	6934193	Apache-2.0
external/libxml2/libxml2.vendor	f7216dc	MIT
hardware/interfaces/light/2.0/android.hardware.light@2.0.vendor	6934193	Apache-2.0
hardware/libhardware/modules/tv_input/tv_input.default	953204c	Apache-2.0
frameworks/native/cmds/installd/installd	7128efa	Apache-2.0
frameworks/base/packages/wallpaperbackup/wallpaperbackup	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/core/libusbhost/libusbhost.vendor	android-9.0.0_r42-172-g2fb0545	Apache-2.0

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hardware/interfaces/keymaster/3.0/android. hardware.keymaster@3.0.vendor	6934193	Apache-2.0
external/ppp/pppd/pppd	de89dcc	BSDlike
system/keymaster/libkeymaster3device	de7e5f6	Apache-2.0
packages/providers/mediaprovider/ mediaprovider	1d5befe	Apache-2.0
external/libunwind/libunwind.vendor	857d281	MIT
hardware/interfaces/thermal/1.0/android. hardware.thermal@1.0	6934193	Apache-2.0
packages/apps/tvsettings/settings/tvsettings	android-wear-p-preview-2-943-g37008f9	Apache-2.0
frameworks/native/cmds/service/service	7128efa	Apache-2.0
hardware/interfaces/camera/provider/2.4/ android.hardware.camera.provider@2.4.vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/hals/prdysc/1. 0/bcm.hardware.prdysc@1.0.vendor	ANDROID_P_AB3_2-136-ge58db78	Apache-2.0
system/core/libsync/libsync	android-9.0.0_r42-195-g7788a634	Apache-2.0
hardware/interfaces/automotive/vehicle/2.0/ android.hardware.automotive.vehicle@2.0. vendor	6934193	Apache-2.0
vendor/broadcom/bcm_platform/sec/bcrypt/ libbcrypt	ANDROID_P_AB3_2	Apache-2.0
frameworks/av/media/libstagefright/codecs/ avcdec/libstagefright_soft_avcdec.vendor	android-wear-8.0.0_r1-4440-g2a9809b	Apache-2.0
device/technicolor/avko/hal/proc/proc_api	f7cf475f	Apache-2.0
hardware/interfaces/wifi/offload/1.0/android. hardware.wifi.offload@1.0.vendor	6934193	Apache-2.0
external/relayd/relayd	ad0b25a	GPL-v2
system/etc/security/otacerts	unknown	Apache-2.0
system/technicolor/tr069/compat/libcwmputci	unknown	BSD, LGPL-v2.1
packages/inputmethods/latinime/java/latinime	6b15609	Apache-2.0
bloat-o-meter	Undefined	GPL-v2
vendor/firmware/rtl8761au_fw	unknown	Apache-2.0
frameworks/wilhelm/src/libopensles	85565cf	Apache-2.0, MITlike
external/apache-xml/apache-xml	166c789	Apache-2.0
device/technicolor/avko/interfaces/proc/1.0/ technicolor.hardware.proc@1.0.vendor	dfd4371	Apache-2.0
external/boringssl/libcrypto.vendor	373c295	BSDlike
frameworks/base/media/lib/remotedisplay/com. android.media.remotedisplay	android-wear-8.0.0_r1-30820-g7c010ae	Apache-2.0
system/gatekeeper/libgatekeeper.vendor	0dd78be	Apache-2.0
packages/apps/deskclock/deskclock	455f238	Apache-2.0

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NOTICE files with complete License text of respective modules are published by the Android build system on the device. It can be found in the Legal/Open Source Licenses section that can be accessed via the device settings menu. Typically this information could be navigated in the device settings as follows. System Settings-> About-> Legal-> Open Source Licenses / Third-Party Licenses.