

# technicolor



**UIW4020TLU**

**v1.9.1P-Sap-E-1.46**

**Open Source Report**

This document aims to describe the Open Source Software which are embedded in product  
UIW4020TLU

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# UIW4020TLU

## Open Source Report

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<b>Product</b>	UIW4020TLU
<b>Version</b>	v1.9.1P-Sap-E-1.46
<b>Open Source Modules</b>	1129

## Open Source Report

Module Name	Module Version	Module License
frameworks/native/cmds/bugreport/bugreport	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/tetheroffload/config/1.0/ android.hardware.tetheroffload.config@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/camera/cameraserver/ cameraserver	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/ default/android.hardware.graphics.allocator@2.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/tools/stats_log_api_gen/ libstatslog	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/av/media/extractors/ogg/ liboggextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/bt/audio_a2dp_hw/audio.a2dp.default	android-wear-8.0.0_r1-4247-gf65c2bc	Apache-2.0
hardware/interfaces/thermal/1.0/default/ android.hardware.thermal@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/neuralnetworks/1.0/ android.hardware.neuralnetworks@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/libevent/libevent.vendor	android-9.0.0_r47	BSDlike
vendor/technicolor/rcu_firmwares/fw/ technicolor_atvrcu_rtk_app.bin	undefined	GPL-2.0 WITH freertos-exception-2.0
hardware/interfaces/graphics/mapper/2.1/ android.hardware.graphics.mapper@2.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/e2fsprogs/lib/uuid/libext2_uuid	android-wear-9.0.0_r11-3-g7d01f9f	BSDlike
frameworks/base/libs/incident/libincident	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
packages/apps/keychain/keychain	android-n-iot-release-smart-display-r2-76-g63252e8	Apache-2.0
external/libpng/libpng	android-9.0.0_r47	BSDlike
hardware/interfaces/tv/input/1.0/android. hardware.tv.input@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/cmds/atrace/atrace	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/native/cmds/dumpstate/ libdumpstateutil	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libeffects/factory/ libeffects	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/libhwbinder/libhwbinder	android-9.0.0_r41-28-gb6761ca	Apache-2.0
vendor/broadcom/bcm_platform/hals/gralloc/ gralloc.uiw4020tlu	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/media/omx/1.0/android. hardware.media.omx@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/minijail/libminijail	android-9.0.0_r47-6-gc5af311	BSDlike
system/libhidl/transport/memory/1.0/android. hidl.memory@1.0.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
hardware/interfaces/configstore/1.1/android. hardware.configstore@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/metadata/3.3/ android.hardware.camera.metadata@3.3. vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libeffects/proxy/ libeffectproxy	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/libhidl/transport/token/1.0/utills/android. hidl.token@1.0-utills	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
hardware/interfaces/wifi/supplicant/1.0/android. hardware.wifi.suplicant@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

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Module Name	Module Version	Module License
frameworks/native/vulkan/libvulkan/libvulkan	android-9.0.0_r41-361-ge675b88	Apache-2.0
external/protobuf/libprotobuf-cpp-lite	android-9.0.0_r47	Apache-2.0
system/media/alsa_utils/libalsautils	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
frameworks/av/media/libstagefright/codecs/common/libstagefright_enc_common	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/hardware/interfaces/display/service/1.0/android.frameworks.display.service@1.0	android-vts-9.0_r11	Apache-2.0
system/libhid/transport/memory/1.0/android.hidl.memory@1.0	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/av/media/extractors/amr/libamrextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
device/technicolor/avko/interfaces/resolution/1.0/default/technicolor.hardware.resolution@1.0-service	70cda62	Apache-2.0
system/core/libnetutils/libnetutils.vendor	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/native/services/surfaceflinger/libsurfaceflinger_ddmconnection	android-9.0.0_r41-361-ge675b88	Apache-2.0
art/profman/profman	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/base/packages/ctsshim/ctsshimprebuilt	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/native/services/schedulerservice/libschedulerservicehidl	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libstagefright/codecs/m4v_h263/enc/libstagefright_soft_mpeg4enc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/perfetto/traced_probes	android-9.0.0_r47-29-g39d9d44	Apache-2.0
hardware/interfaces/configstore/1.1/default/android.hardware.configstore@1.1-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/packages/wallpaperbackup/wallpaperbackup	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/adf/libadf/libadf.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
art/dexlayout/libart-dexlayout	android-9.0.0_r45-123-g5e756d2	Apache-2.0
hardware/interfaces/boot/1.0/android.hardware.boot@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/libtextclassifier/libtextclassifier	android-9.0.0_r47-5-gcfb946b	Apache-2.0
external/hyphenation-patterns/hyph-eu	unknown	Unicode
system/framework/arm/boot-bouncycastle.art	unknown	Apache-2.0
frameworks/av/media/libeffects/lvm/wrapper/libbundlewrapper	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/wifi/supplicant/1.1/android.hardware.wifi.suplicant@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/libs/binder/libbinder.vendor	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/services/minijail/libavservices_minijail_vendor	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/graphics/mapper/2.0/android.hardware.graphics.mapper@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/hardware/interfaces/schedulerservice/1.0/android.frameworks.schedulerservice@1.0.vendor	android-vts-9.0_r11	Apache-2.0
frameworks/native/services/surfaceflinger/libsurfaceflinger	android-9.0.0_r41-361-ge675b88	Apache-2.0
external/webRTC/libwebrtc_audio_preprocessing	android-9.0.0_r47	BSDlike
frameworks/av/media/libeffects/downmix/libdownmix	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0

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Module Name	Module Version	Module License
frameworks/native/opengl/libs/libegl	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/confirmationui/1.0/android.hardware.confirmationui@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/gnss/1.1/android.hardware.gnss@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/gatekeeper/libgatekeeper.vendor	android-9.0.0_r41-11-g0dd78be	Apache-2.0
frameworks/native/cmds/lsdal/liblsdal	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/secure_element/1.0/android.hardware.secure_element@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/libfmq/libfmq	android-vts-9.0_r11	Apache-2.0
bionic/libc/malloc_debug/libc_malloc_debug	android-9.0.0_r47-41-g2b9da0b	BSDlike
hardware/interfaces/usb/gadget/1.0/android.hardware.usb.gadget@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/provider/2.4/android.hardware.camera.provider@2.4	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/surfaceflinger/surfaceflinger	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libstagefrighthw/omx/libstagefrighthw_omx_utils.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
vendor/broadcom/bcm_platform/sec/bcrypt/libbcrypt	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/base/libs/protoutil/libprotoutil	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/power/1.1/android.hardware.power@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/common/1.0/android.hardware.camera.common@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-core-libart.art	unknown	Apache-2.0
vendor/broadcom/bcm_platform/hals/gpu/gfxdriver-bcmstb	ANDROID_P_AB3_2	Apache-2.0
external/toybox/toybox	android-9.0.0_r47	BSDlike
external/icu/icu4c/source/common/libicuuc	undefined	Unicode
system/hardware/interfaces/wifi/keystore/1.0/android.system.wifi.keystore@1.0.vendor	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
frameworks/native/cmds/installd/installd	android-9.0.0_r41-361-ge675b88	Apache-2.0
external/peretto/libtraced_shared	android-9.0.0_r47-29-g39d9d44	Apache-2.0
frameworks/base/packages/defaultcontainerservice/jni/libdefcontainer_jni	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/e2fsprogs/lib/support/libext2_quota	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
external/libtextclassifier/textclassifier.en.model	android-9.0.0_r47-5-gcfb946b	Apache-2.0
frameworks/base/media/jni/libmedia_jni	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/compile/libbcc/bcinfo/libbcinfo.vendor	android-9.0.0_r47	Apache-2.0, MITlike
frameworks/av/media/libstagefrighthw/codecs/raw/libstagefrighthw_soft_rawdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/libunwind/libunwind.vendor	android-9.0.0_r47	MIT
frameworks/base/cmds/incident/incident	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
device/technicolor/avko/interfaces/proc/1.0/technicolor.hardware.proc@1.0	dfd4371	Apache-2.0
external/noto-fonts/cjk/notosansCJK-regular.ttc	unknown	SIL OFL 1.1
external/chromium-libpac/libpac	android-o-mr1-iot-release-smart-display-r14-34-g5d3d70c	BSDlike

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Module Name	Module Version	Module License
frameworks/av/media/libstagefright/codecs/opus/dec/libstagefright_soft_opusdec.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/base/cmds/sm/sm	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/rs/cpp/librscpp	android-9.0.0_r47-3-g3b78758	Apache-2.0
hardware/interfaces/audio/4.0/android.hardware.audio@4.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/libs/vr/libbufferhubqueue/libbufferhubqueue	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/base/cmds/bootanimation/bootanimation	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
dalvik/dexdump/dexdump	android-9.0.0_r47-2-gcb2596b	Apache-2.0
frameworks/av/media/libstagefright/codecs/g711/dec/libstagefright_soft_g711dec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/keymaster/libkeymaster_messages	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
bionic/libc/libc	android-9.0.0_r47-41-g2b9da0b	BSDlike
external/hyphenation-patterns/hyph-mr	unknown	MIT
packages/apps/bluetooth/jni/libbluetooth_jni	android-wear-8.0.0_r1-1600-ge737030	Apache-2.0
hardware/interfaces/tv/cec/1.0/default/android.hardware.tv.cec@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/libs/binder/libbinder	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/base/media/lib/signer/com.android.mediamdr.signer	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/renderscript/1.0/default/android.hardware.renderscript@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/audio/effect/4.0/default/android.hardware.audio.effect@4.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/hardware/interfaces/net/netd/1.0/android.system.net.netd@1.0.vendor	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
external/mdnsresponder/mdnsd	android-9.0.0_r47	Apache-2.0
system/media/audio_utils/libaudiospdif	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
external/e2fsprogs/contrib/android/e2fsdroid	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
vendor/realtek/bluetooth/rtkbt/code/libbt-vendor/src/libbt-vendor	df457b6	Apache-2.0
device/technicolor/avko/interfaces/resolution/1.0/technicolor.hardware.resolution@1.0.vendor	70cda62	Apache-2.0
art/libart_fake/libart_fake	android-9.0.0_r45-123-g5e756d2	Apache-2.0
vendor/broadcom/playready/lib/libprhidl_2_5	ANDROID_P_AB3_3	Apache-2.0
frameworks/opt/net/wifi/service/libwifi-service	android-o-mr1-iot-preview-7-1324-ge3159ed	Apache-2.0
hardware/interfaces/graphics/mapper/2.0/android.hardware.graphics.mapper@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/boot-apache-xml	unknown	Apache-2.0
system/libvintf/libvintf	android-9.0.0_r47-10-g57a4bad	Apache-2.0
hardware/interfaces/audio/core/4.0/default/android.hardware.audio@4.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/surfaceflinger/layerproto/liblayers_proto	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/vold/vold_prepare_subdirs	android-9.0.0_r37-28-g6434886	BSDlike, Apache-2.0
system/hardware/interfaces/net/netd/1.1/android.system.net.netd@1.1	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
packages/screensavers/basic/basicdreams	undefined	Apache-2.0

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Module Name	Module Version	Module License
external/oj-libjdwplibjdwpl	android-wear-9.0.0_r11-2-g2431de3	GPL-2.0-with-classpath-exception
vendor/technicolor/rcu_firmwares/fw/technicolor_remote_rtk_app.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
frameworks/native/libs/graphicsenv/libgraphicsenv	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/renderscript/1.0/android.hardware.renderscript@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/keymaster/libkeymaster_portable.vendor	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
hardware/interfaces/vibrator/1.1/android.hardware.vibrator@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/dpthag/1.0/default/bcm.hardware.dpthag@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/ir/1.0/android.hardware.ir@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/tools/hidl/libhidl-gen-hash	android-9.0.0_r41-27-gc2e5850	Apache-2.0
frameworks/av/media/libaudiohal/libaudiohal	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/soundtrigger/2.0/default/android.hardware.soundtrigger@2.0-core.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/debugger/libtombstoned_client	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
vendor/technicolor/rcu_firmwares/fw/technicolor_remote_rtk_patch.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
frameworks/av/media/libstagefright/codecs/amrnb/common/libstagefright_amrnb_common	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
vendor/broadcom/bcm_platform/tools/nxlive/nxlive	ANDROID_P_AB3_2	Apache-2.0
hardware/interfaces/graphics/composer/2.1/default/android.hardware.graphics.composer@2.1-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/libhardware/modules/audio_remote_submix/audio_r_submix.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
system/libhidl/transport/libhidltransport.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
art/dalvikvm/dalvikvm	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/av/camera/libcamera_client	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/hyphenation-patterns/hyph-pt	unknown	BSD
frameworks/base/packages/systemui/systemui	android-wear-8.0.0_r1-30358-gdac93f1	Apache-2.0
hardware/interfaces/broadcastradio/2.0/android.hardware.broadcastradio@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
device/technicolor/avko/interfaces/soc/1.0/technicolor.hardware.soc@1.0.vendor	f35789a	Apache-2.0
frameworks/av/services/oboeservice/libaaudioservice	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/camera/device/3.3/android.hardware.camera.device@3.3.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
packages/apps/camera2/jni/libjni_jpegutil	android-9.0.0_r47-31-g71ec346	Apache-2.0
frameworks/native/libs/gui/libgui	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/libutils/libutils.vendor	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
system/core/bootstat/bootstat	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/media/libstagefright/codecs/m4v_h263/dec/libstagefright_soft_mpeg4dec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/configstore/utills/android.hardware.configstore-utills.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0



## Open Source Report

Module Name	Module Version	Module License
external/conscrypt/libjavacrypto	android-9.0.0_r47-7-g16c9ae0	Apache-2.0
system/core/libspase/libspase	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/memtrack/1.0/android.hardware.memtrack@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/broadcastradio/1.0/android.hardware.broadcastradio@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/libhidl/transport/allocator/1.0/default/android.hidl.allocator@1.0-service	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
system/netd/server/libnetdaidl	android-9.0.0_r42-61-g2842563	Apache-2.0
system/framework/boot-framework	unknown	Apache-2.0
hardware/interfaces/soundtrigger/2.0/android.hardware.soundtrigger@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/screencap/screencap	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/tetheroffload/config/1.0/android.hardware.tetheroffload.config@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-framework-oahl-backward-compatibility.art	unknown	Apache-2.0
vendor/broadcom/bcm_platform/hals/thermal/thermal.uiw4020tlu	ANDROID_P_AB3_2-57-g8401131	Apache-2.0
external/libtextclassifier/libtextclassifier_hash	android-9.0.0_r47-5-gcfb946b	Apache-2.0
frameworks/av/media/libeffects/loudness/libldnhncr	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/img_utils/libimg_utils	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
vendor/broadcom/bcm_platform/hals/dspvcext/1.0/bcm.hardware.dspvcext@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
vendor/technicolor/rcu_firmwares/fw/vodafone_tv_remote_rtk_app.bin	unknown	GPL-2.0 WITH freertos-exception-2.0
system/keymaster/libsoftkeymasterdevice	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
frameworks/native/cmds/dumpsys/dumpsys	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/compile/libbcc/bcinfo/libbcinfo	android-9.0.0_r47	Apache-2.0, MITlike
external/zlib/libz	android-9.0.0_r47	BSDlike
frameworks/av/media/libeffects/config/libeffectsconfig.vendor	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
bionic/libc/libstdc++	android-9.0.0_r47-41-g2b9da0b	BSDlike
frameworks/base/cmds/bootanimation/libbootanimation	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/oj-libjwp/libdt_socket	android-wear-9.0.0_r11-2-g2431de3	GPL-2.0-with-classpath-exception
hardware/interfaces/drm/1.0/android.hardware.drm@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/logwrapper/logwrapper_vendor	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/av/media/libstagefright/codecs/gsm/dec/libstagefright_soft_gsmdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/media/1.0/android.hardware.media@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/boot-bouncycastle	unknown	Apache-2.0
system/framework/arm/boot-framework-oahl-backward-compatibility	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/mp3dec/libstagefright_soft_mp3dec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0



## Open Source Report

Module Name	Module Version	Module License
frameworks/av/drm/mediadrm/plugins/clearkey/hidl/android.hardware.drm@1.1-service.clearkey	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/libhidl/transport/token/1.0/android.hidl.token@1.0	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/base/packages/settingsprovider/settingsprovider	android-wear-8.0.0_r1-30295-g7767180	Apache-2.0
packages/providers/mediaprovider/mediaprovider	android-n-iot-release-smart-display-r2-164-g1d5befe	Apache-2.0
hardware/interfaces/gnss/1.0/android.hardware.gnss@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefrighthttp/live/enc/libstagefrighthttp_soft_flacenc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/brotli/libbrotli	android-9.0.0_r47	MIT
external/boringssl/libssl.vendor	android-9.0.0_r47-3-g373c295	BSDlike
frameworks/hardware/interfaces/sensorservice/1.0/android.frameworks.sensorservice@1.0	android-vts-9.0_r11	Apache-2.0
external/protobuf/libprotobuf-cpp-full	android-9.0.0_r47	Apache-2.0
hardware/interfaces/camera/device/1.0/android.hardware.camera.device@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libmemtrack/libmemtrack	android-9.0.0_r42-143-g17495e8	Apache-2.0
external/dnsmasq/src/dnsmasq	android-wear-9.0.0_r11-2-g37fb663	GPL-v2
device/technicolor/avko/apps/tplayer/tplayer	2.10.1	Apache-2.0
system/keymaster/libkeymaster3device	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
external/hyphenation-patterns/hyph-sl	unknown	MIT
frameworks/base/libs/usb/com.android.future.usb.accessory	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
device/technicolor/avko/hal/csn/csn_api	bfb6717	Apache-2.0
frameworks/av/media/libstagefrighthttp/live/libstagefrighthttp_live	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/hyphenation-patterns/hyph-hu	unknown	MPL-v1.1
frameworks/av/media/libstagefrighthttp/raw/libstagefrighthttp_soft_rawdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/services/audioflinger/libserviceutility	android-wear-8.0.0_r1-4344-g680fe6f	Apache-2.0
frameworks/av/drm/libmediadrm/libmediadrmmetrics_lite	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/libhidl/transport/base/1.0/android.hidl.base-v1.0-java	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
external/hyphenation-patterns/hyph-hr	unknown	Unicode
frameworks/base/media/jni/libmedia2_jni	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/security/keystore/libkeystore_parcelables	android-9.0.0_r30-52-g0e96e89	Apache-2.0
system/etc/boot-image	unknown	Apache-2.0
hardware/interfaces/nfc/1.0/android.hardware.nfc@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/device/3.2/android.hardware.camera.device@3.2	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/boot-ims-common	unknown	Apache-2.0
frameworks/av/media/libaudiohal/libaudiohal_deathhandler	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/av/media/extractors/mpeg2/libmpeg2extractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0

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Module Name	Module Version	Module License
external/piex/libpiex	android-9.0.0_r47	Apache-2.0
hardware/interfaces/power/1.3/android.hardware.power@1.3	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefrighthttp/libstagefrighthttp_support	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
hardware/interfaces/tetheroffload/control/1.0/android.hardware.tetheroffload.control@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-okhttp	unknown	Apache-2.0
hardware/interfaces/graphics/composer/2.1/default/android.hardware.graphics.composer@2.1-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/keymaster/keystore.uiw4020tlu	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/av/services/mediacodec/android.hardware.media.omx@1.0-service	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/core/storaged/storaged	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/camera/device/1.0/default/camera.device@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/boot/1.0/default/android.hardware.boot@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/pdfium/libpdfium	android-9.0.0_r47	BSDlike
hardware/interfaces/health/1.0/android.hardware.health@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/services/camera/libcameraservice/libcameraservice	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libmediametrics/libmediametrics	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/graphics/bufferqueue/1.0/android.hardware.graphics.bufferqueue@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libaudiohal/2.0/libaudiohal@2.0	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/broadcastradio/1.1/android.hardware.broadcastradio@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/libhidl/base/libhidlbase	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/hardware/interfaces/display/1.0/android.frameworks.display@1.0.vendor	android-vts-9.0_r11	Apache-2.0
frameworks/native/cmds/dumpstate/dumpstate	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/libhidl/transport/allocator/1.0/android.hidl.allocator@1.0	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
vendor/broadcom/bcm_platform/hals/audio/audio.primary.uiw4020tlu	ANDROID_P_AB3_2-20-g54fd88d	Apache-2.0
external/libcxx/libc++	android-9.0.0_r47-35-g42e5d63	BSDlike
hardware/interfaces/camera/metadata/3.2/android.hardware.camera.metadata@3.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/vixl/libvixl-arm64.vendor	android-9.0.0_r47-4-g3f16336	BSDlike
external/libunwind/libunwind	android-9.0.0_r47	MIT
external/hyphenation-patterns/hyph-be	unknown	MIT
external/e2fsprogs/misc/mke2fs_static	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
hardware/interfaces/usb/1.1/android.hardware.usb@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/e2fsprogs/e2fsck/e2fsck	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2

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Module Name	Module Version	Module License
frameworks/base/native/android/libandroid	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/av/drm/mediacas/plugins/clearkey/libclearkeycasplugin	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/framework/arm/boot-core-libart	unknown	Apache-2.0
frameworks/native/opengl/libs/libglesv2	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/libsysutils/libsysutils.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/radio/deprecated/1.0/android.hardware.radio.deprecated@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/cmds/servicemanager/servicemanager	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/vold/wait_for_keymaster	android-9.0.0_r37-28-g6434886	BSDlike, Apache-2.0
frameworks/av/media/libeffects/config/libeffectsconfig	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/av/media/libstagefright/omx/libstagefright_omx_utils	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/drm/drmservice/drmservice	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/native/services/sensorservice/hidl/libensorservicehidl	android-9.0.0_r41-361-ge675b88	Apache-2.0
packages/apps/tvsettings/settings/tvsettings	android-wear-p-preview-2-832-g179e56f	Apache-2.0
vendor/broadcom/bcm_platform/hals/dpshak/1.0/bcm.hardware.dpshak@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/base/cmds/bu/bu	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/base/core/res/framework-res	android-wear-8.0.0_r1-30293-g38c5736	Apache-2.0
external/iptables/iptables/ip6tables	android-wear-9.0.0_r11	GPL-v2
frameworks/native/cmds/cmd/cmd	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/weaver/1.0/android.hardware.weaver@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libmemtrack/libmemtrack.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/vibrator/1.2/android.hardware.vibrator@1.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/firmware/rtl8761aw8192eu_config	unknown	Apache-2.0
external/pcre/libpcre2	android-9.0.0_r47	BSD
system/framework/boot-framework-oahl-backward-compatibility	unknown	Apache-2.0
frameworks/opt/net/wifi/libwifi_system_iface/libwifi-system-iface.vendor	android-o-mr1-iot-preview-7-1334-g7afecad	Apache-2.0
vendor/broadcom/bcm_platform/tools/nxsmt/nxsmt	ANDROID_P_AB3_2	Apache-2.0
system/media/radio/libradio_metadata	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
system/core/libusbhost/libusbhost	android-9.0.0_r42-143-g17495e8	Apache-2.0
external/dng_sdk/libdng_sdk	android-9.0.0_r47-3-g4b2898b	BSD
external/e2fsprogs/contrib/android/e2fsdroid_static	unknown	GPL-v2
external/libbrillo/libbrillo-binder	android-9.0.0_r47	BSDlike
system/libhidl/transport/libhidltransport	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
external/hyphenation-patterns/hyph-mn-cyrl	unknown	MIT
frameworks/base/cmds/uiautomator/cmds/uiautomator/uiautomator	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0

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Module Name	Module Version	Module License
device/technicolor/avko/interfaces/resolution/1.0/technicolor.hardware.resolution@1.0	70cda62	Apache-2.0
hardware/interfaces/broadcastradio/1.0/android.hardware.broadcastradio@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/authsecret/1.0/android.hardware.authsecret@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/native/android/libandroid_net	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/base/media/jni/soundpool/libsoundpool	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/av/media/audioserver/audioserver	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
bootable/recovery/update_verifier/update_verifier	android-9.0.0_r47-24-g70f326c	Apache-2.0
frameworks/av/media/libmediaextractor/libmediaextractor	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/libhwbinder/libhwbinder.vendor	android-9.0.0_r41-28-gb6761ca	Apache-2.0
frameworks/av/media/libeffects/dynamicsproc/libdynproc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/codecs/vorbis/dec/libstagefright_soft_vorbisdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/soundtrigger/2.1/android.hardware.soundtrigger@2.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/sdbhak/1.0/default/bcm.hardware.sdbhak@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
vendor/broadcom/bcm_platform/nxif/nxserver/nxserver	ANDROID_P_AB3_2-15-gdc7e416	Apache-2.0
frameworks/av/media/libmedia/libmedia_omx.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/base/media/mca/filterfw/native/libfilterfw	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/one-true-awk/awk_vendor	android-9.0.0_r47	BSDlike
frameworks/opt/net/ims/ims-common	android-9.0.0_r47-16-g99de2a7	Apache-2.0
bionic/libm/libm	android-9.0.0_r47-42-g99f0dd4	BSDlike
frameworks/av/cmds/screenrecord/screenrecord	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
external/libexif/libexif	android-wear-9.0.0_r11	LGPL-v2.1
hardware/interfaces/audio/common/all-versions/default/service/android.hardware.audio@2.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/mtpd/mtpd	android-9.0.0_r47	Apache-2.0
system/core/debuggerd/crash_dump	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
hardware/interfaces/audio/common/4.0/default/android.hardware.audio.common@4.0-util.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/inputflinger/libinputflinger	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/libmemunreachable/libmemunreachable	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/services/mediaresourcecmanager/libresourcecmanagerservice	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/power/1.0/default/android.hardware.power@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/appwidget/appwidget	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
external/iproute2/lib/libiprouteutil	android-wear-9.0.0_r11	GPL-v2

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Module Name	Module Version	Module License
frameworks/av/services/audiopolicy/engine/default/libaudiopolicyengine/default	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
vendor/broadcom/bcm_platform/hals/tv_input/tv_input.uiw4020tlu	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/vibrator/1.0/android.hardware.vibrator@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/keymaster/4.0/android.hardware.keymaster@4.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/technicolor/tr069/compat/libcwmpuci	unknown	BSD, LGPL-v2.1
system/framework/boot	unknown	Apache-2.0
system/core/healthd/charger	android-9.0.0_r42-143-g17495e8	Apache-2.0
art/openjdkjvm/libopenjdkjvm	android-9.0.0_r45-123-g5e756d2	GPL-2.0-with-classpath-exception
frameworks/av/services/medialog/libmedialogservice	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/base/media/lib/remotedisplay/com.android.media.remotedisplay	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/protobuf/libprotobuf-cpp-full.vendor	android-9.0.0_r47	Apache-2.0
hardware/interfaces/drm/1.1/android.hardware.drm@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/configstore/utills/android.hardware.configstore-utills	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/keymaster/3.0/default/android.hardware.keymaster@3.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/libhidl/transport/allocator/1.0/android.hidl.allocator@1.0.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/base/packages/vpndialogs/vpndialogs	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/av/media/libmedia/libmedia_helper	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/android.hardware.graphics.allocator@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libion/libion	android-9.0.0_r42-143-g17495e8	Apache-2.0
vendor/broadcom/bcm_platform/hals/prdysc/1.0/bcm.hardware.prdysc@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/configstore/1.1/android.hardware.configstore@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/hyphenation-patterns/hyph-ml	unknown	MIT
system/extras/libpagemap/libpagemap.vendor	android-9.0.0_r47-30-g9e1deac	Apache-2.0
art/adbconnection/libadbconnection	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/av/media/libstagefright/codecs/mp3dec/libstagefright_soft_mp3dec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/tensorflow/tensorflow/contrib/lite/libtf-lite	android-9.0.0_r47	Apache-2.0
hardware/interfaces/power/1.2/android.hardware.power@1.2	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/health/2.0/android.hardware.health@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/boot_control/bootctrl.uiw4020tlu	ANDROID_P_AB3_2-8-g66f0edb	Apache-2.0
frameworks/av/media/libstagefright/flac/dec/libstagefright_flacdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/xmlparser/libstagefright_xmlparser.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
external/neven/libfftem	android-9.0.0_r47-2-g78bec76	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/drm/1.0/android.hardware.drm@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/power/power.uiw4020tlu	ANDROID_P_AB3_2-25-g75dd93e	Apache-2.0
frameworks/native/libs/nativewindow/libnativewindow	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/enc/libstagefright_soft_flacenc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/dumpstate/1.0/android.hardware.dumpstate@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/contexthub/1.0/android.hardware.contexthub@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/packages/ctsshim/ctsshimprivprebuilt	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/opt/net/wifi/libwifi_hal/libwifi-hal	android-o-mr1-iot-preview-7-1334-g7afecad	Apache-2.0
device/technicolor/avko/hal/proc/proc_api	dfd4371	Apache-2.0
external/hyphenation-patterns/hyph-de-1996	unknown	MIT
system/core/libusbhost/libusbhost.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
external/libldac/libldacbt_enc	android-9.0.0_r47	Apache-2.0
frameworks/base/cmds/incident_helper/incident_helper	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/framework/arm/boot.art	unknown	Apache-2.0
external/hyphenation-patterns/hyph-da	unknown	MIT
frameworks/base/packages/printspooler/printspooler	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/native/opengl/libs/libglesv1_cm	android-9.0.0_r41-361-ge675b88	Apache-2.0
kernel/private/bcm-97xxx/linux-4.9/vmlinux	ANDROID_P_AB3_2	GPL-2.0-with-LT-exception
external/neven/rffstd_501.bmd	android-9.0.0_r47-2-g78bec76	Apache-2.0
system/timezone/tzdatacheck/tzdatacheck	android-9.0.0_r47-12-g051e42f	Apache-2.0
external/apache-http/org.apache.http.legacy.boot	android-9.0.0_r47-2-gf14002e	Apache-2.0
system/media/audio_utils/libaudioutils	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
system/core/libqtaguid/libqtaguid	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrwbenc/libstagefright_soft_amrwbenc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/hardware/interfaces/net/netd/1.1/android.system.net.netd@1.1.vendor	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
build/make/tools/fs_config/fs_config_files_vendor	android-wear-8.0.0_r1-3556-gf186e78	Apache-2.0
frameworks/base/packages/services/pacprocessor/jni/libjni_pacprocessor	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/logcat/logcat	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
external/mksh/sh_vendor	android-9.0.0_r47	BSDlike
vendor/broadcom/bcm_platform/tools/bp3/libbp3_host	ANDROID_P_AB3_2-115-gffe61b2	MITlike
frameworks/opt/net/wifi/service/wifi-service	android-o-mr1-iot-preview-7-1324-ge3159ed	Apache-2.0
system/netd/libbpf/libbpf	android-9.0.0_r42-61-g2842563	Apache-2.0
system/update_engine/update_engine_client	android-9.0.0_r47-2-gc25e3da	Apache-2.0
packages/apps/bluetooth/bluetooth	android-wear-8.0.0_r1-1599-g5c526fe	Apache-2.0



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Module Name	Module Version	Module License
vendor/firmware/rtl8761a_config	unknown	Apache-2.0
system/libfmq/libfmq.vendor	android-vts-9.0_r11	Apache-2.0
external/curl/libcurl.vendor	android-9.0.0_r47-2-g7e5c6f2	MIT
system/core/mkbooting/libmkbooting_abi_check.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/netd/bpfloader/bpf_kern.o_bpf_kern.o	android-9.0.0_r42-61-g2842563	Apache-2.0
vendor/broadcom/bcm_platform/hals/bp3/1.0/bcm.hardware.bp3@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
system/framework/arm/boot-apache.xml	unknown	Apache-2.0
system/core/libutils/libutils	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacenc/libstagefright_soft_aacenc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/automotive/evs/1.0/android.hardware.automotive.evs@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/hyphenation-patterns/hyph-nb	unknown	MITlike
external/libyuv/files/libyuv.vendor	android-9.0.0_r47	BSDlike
frameworks/base/location/lib/com.android.location.provider	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/native/services/thermalservice/libthermalservice	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/ril/librilutils/librilutils	android-9.0.0_r47-6-g99d5d22	Apache-2.0
packages/providers/downloadprovider/downloadprovider	android-9.0.0_r47-49-ge7f3521	Apache-2.0
hardware/interfaces/gatekeeper/1.0/android.hardware.gatekeeper@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/libhardware/libhardware.vendor	android-9.0.0_r47-23-g1f853d8	Apache-2.0
external/android-clat/clatd	android-9.0.0_r47-2-ga92b2a6	Apache-2.0
system/framework/arm/boot-android.hidl.base-V1.0-java.art	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcenc/libstagefright_soft_avcenc	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/base/ext	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/base/packages/sharedstoragebackup/sharedstoragebackup	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/wilhelm/src/libwilhelm	android-9.0.0_r47-2-g85565cf	Apache-2.0, MITlike
external/e2fsprogs/misc/blkid	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
external/freetype/libft2	android-9.0.0_r47	BSDlike
hardware/libhardware/modules/usbaudio/audio.usb.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
hardware/interfaces/radio/1.0/android.hardware.radio@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/lz4/lib/liblz4.vendor	android-wear-9.0.0_r11	BSDlike
hardware/interfaces/thermal/1.0/default/android.hardware.thermal@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/debuggerd/libdebuggerd_client	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
external/compiler-rt/libcompiler_rt.vendor	android-9.0.0_r47	MIT
frameworks/av/media/libstagefright/codecs/m4v_h263/enc/libstagefright_soft_mpeg4enc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/base/cmds/input/inputlib	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0



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Module Name	Module Version	Module License
frameworks/base/cmds/telecom/telecom	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/core/libkeyutils/libkeyutils	android-9.0.0_r42-143-g17495e8	Apache-2.0
vendor/broadcom/bcm_platform/apks/bcmcustomizer/bcmcustomizer	ANDROID_P_AB3_2	Apache-2.0
system/media/camera/libcamera_metadata	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
hardware/interfaces/graphics/common/1.0/android.hardware.graphics.common@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/libs/androidfw/libandroidfw	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/framework/arm/boot-android.hidl.manager-V1.0-java	unknown	Apache-2.0
external/hyphenation-patterns/hyph-bg	unknown	MIT
external/hyphenation-patterns/hyph-hi	unknown	MIT
system/core/logwrapper/liblogwrap	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
system/libhidl/transport/token/1.0/android.hidl.token@1.0.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
external/noto-fonts/cjk/notoserifcjk-regular.ttc	unknown	SIL OFL 1.1
external/expat/libexpat	android-9.0.0_r47	BSDlike
frameworks/hardware/interfaces/vr/composer/1.0/android.frameworks.vr.composer@1.0	android-vts-9.0_r11	Apache-2.0
hardware/interfaces/usb/gadget/1.0/android.hardware.usb.gadget@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/powermanager/libpowermanager	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/configstore/1.0/android.hardware.configstore@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/services/audioflinger/libaudioflinger	android-wear-8.0.0_r1-4344-g680fe6f	Apache-2.0
vendor/broadcom/bcm_platform/hals/bp3/1.0/default/bcm.hardware.bp3@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
external/selinux/libsepol/libsepol	android-wear-9.0.0_r11-4-g9295255	LGPL-v2.1
external/hyphenation-patterns/hyph-de-1901	unknown	MIT
external/hyphenation-patterns/hyph-gu	unknown	MIT
external/conscrypt/conscrypt	android-9.0.0_r47-7-g16c9ae0	Apache-2.0
vendor/broadcom/bcm_platform/tools/bp3/bp3	ANDROID_P_AB3_2-115-gffe61b2	MITlike
external/hyphenation-patterns/hyph-es	unknown	MIT
external/tinyxml2/libtinyxml2	android-9.0.0_r47	BSDlike
vendor/broadcom/bcm_platform/hals/hdmi_cec/hdmi_cec.uiw4020tlu	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
frameworks/native/cmds/service/vndservice	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/toolbox/toolbox_vendor	android-9.0.0_r42-157-g254e40e	BSDlike
hardware/interfaces/graphics/composer/2.1/utis/hwc2on1adapter/libhwc2on1adapter	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-conscrypt	unknown	Apache-2.0
hardware/interfaces/neuralnetworks/1.1/android.hardware.neuralnetworks@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/xmlparser/libstagefright_xmlparser	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/base/packages/services/pacprocessor/pacprocessor	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/media/omx/1.0/android.hardware.media.omx@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libmedia/libmedia_helper.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
vendor/broadcom/bcm_platform/sec/oemcrypto/liboemcrypto	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
vendor/broadcom/bcm_platform/hals/health/2.0/android.hardware.health@2.0-service.bcm	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/thermal/1.0/android.hardware.thermal@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/e2fsprogs/lib/et/libext2_com_err	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
system/core/libunwindstack/libunwindstack	android-9.0.0_r42-143-g17495e8	Apache-2.0
build/make/tools/fs_config/fs_config_files	android-wear-8.0.0_r1-3556-gf186e78	Apache-2.0
system/framework/arm/boot-voip-common.art	unknown	Apache-2.0
hardware/interfaces/graphics/composer/2.2/android.hardware.graphics.composer@2.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/piex/libpiex.vendor	android-9.0.0_r47	Apache-2.0
frameworks/base/cmds/hid/hid	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
device/technicolor/avko/hal/resolution/resolution_api	70cda62	Apache-2.0
frameworks/av/media/libstagefright/codecs/common/libstagefright_enc_common.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/audio/common/2.0/default/android.hardware.audio.common@2.0-util.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/google/libs/libgoogle_tagger_aah_jni	d4aa551	Apache-2.0
hardware/interfaces/neuralnetworks/1.0/android.hardware.neuralnetworks@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/extras/ext4_utils/libext4_utils	android-9.0.0_r47-30-g9e1deac	Apache-2.0
hardware/interfaces/confirmationui/support/android.hardware.confirmationui-support-lib.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/logwrapper/logwrapper	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
system/core/gatekeeperd/gatekeeperd	android-9.0.0_r42-143-g17495e8	Apache-2.0
vendor/firmware/mp_rtl8761a_fw	unknown	Apache-2.0
hardware/interfaces/light/utlis/blank_screen	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
packages/apps/settingsintelligence/settingsintelligence	bc3a462	Apache-2.0
system/framework/arm/boot-android.test.base	unknown	Apache-2.0
hardware/interfaces/renderscript/1.0/android.hardware.renderscript@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/keymaster/libkeymaster_messages.vendor	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
hardware/interfaces/bluetooth/1.0/android.hardware.bluetooth@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/libs/ui/libui.vendor	android-9.0.0_r41-361-ge675b88	Apache-2.0
vendor/firmware/rtl8761at_fw	unknown	Apache-2.0
external/fsck_msdos/fsck_msdos	android-9.0.0_r47	BSDlike
vendor/bin/rtlbtmp	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/dec/libstagefright_soft_vpxdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0

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Module Name	Module Version	Module License
bionic/libc/malloc_hooks/libc_malloc_hooks	android-9.0.0_r47-41-g2b9da0b	BSDlike
hardware/interfaces/oemlock/1.0/android.hardware.oemlock@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/media/audio_route/libaudioroute.vendor	android-9.0.0_r46-69-gd4523cd	BSDlike
system/framework/arm/boot-framework	unknown	Apache-2.0
external/icu/icu4c/source/i18n/libicui18n	undefined	Unicode
system/core/libcutils/libcutils.vendor	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
external/libnl/libnl.vendor	android-wear-9.0.0_r11	LGPL-v2.1
frameworks/base/packages/shell/shell	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/libxml2/libxml2	android-9.0.0_r47-6-gf7216dc	MIT
frameworks/base/cmds/requestsync/requestsync	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/keymaster/libsoftkeymasterdevice.vendor	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
vendor/broadcom/playready/lib/libplayready30pk	ANDROID_P_AB3_3	Apache-2.0
packages/providers/calendarprovider/calendarprovider	android-9.0.0_r47-5-g5d2cf18	Apache-2.0
packages/apps/secureelement/secureelement	android-9.0.0_r47-7-gae74252	Apache-2.0
hardware/interfaces/thermal/1.0/android.hardware.thermal@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-voip-common	unknown	Apache-2.0
external/e2fsprogs/lib/blkid/libext2_blkid	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
hardware/libhardware/libhardware	android-9.0.0_r47-23-g1f853d8	Apache-2.0
hardware/interfaces/soundtrigger/2.1/android.hardware.soundtrigger@2.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/playready/bin/android.hardware.drm@1.1-service.playready	ANDROID_P_AB3_3	Apache-2.0
development/cmds/monkey/monkeylib	android-wear-8.0.0_r1-895-g749143c	Apache-2.0
frameworks/hardware/interfaces/schedulerservice/1.0/android.frameworks.schedulerservice@1.0	android-vts-9.0_r11	Apache-2.0
art/dexlayout/dexdiag	android-9.0.0_r45-123-g5e756d2	Apache-2.0
system/core/libsysutils/libsysutils	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/media/libnbaio/libnbaio	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/core/libunwindstack/libunwindstack.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/framework/arm/boot-conscrypt.art	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcenc/libstagefright_soft_avcenc.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/hardware/interfaces/sensorservice/1.0/android.frameworks.sensorservice@1.0.vendor	android-vts-9.0_r11	Apache-2.0
frameworks/native/opengl/libs/libetc1	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/ril/libril/libril	android-9.0.0_r47-6-g99d5d22	Apache-2.0
system/core/libprocinfo/libprocinfo.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/framework/arm/boot-framework.art	unknown	Apache-2.0
art/dexlist/dexlist	android-9.0.0_r45-123-g5e756d2	Apache-2.0
system/technicolor/tr069/compat/uci	unknown	GPL-v2

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Module Name	Module Version	Module License
system/core/libdiskconfig/libdiskconfig.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcdec/libstagefright_soft_avcdec.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/av/media/extractors/wav/libwavextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/audio/common/2.0/default/android.hardware.audio.common@2.0-util	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/technicolor/apps/daydream/daydream	e1c6ee7	Apache-2.0
hardware/interfaces/thermal/1.1/android.hardware.thermal@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libcrypto_utils/libcrypto_utils.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/framework/arm/boot-ext	unknown	Apache-2.0
vendor/firmware/rtl8761aw8192eu_fw	unknown	Apache-2.0
hardware/interfaces/drm/1.0/default/android.hardware.drm@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/playready/lib/libprhidl_3_0	ANDROID_P_AB3_3	Apache-2.0
system/core/libziparchive/libziparchive	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/extras/libpagemap/libpagemap	android-9.0.0_r47-30-g9e1deac	Apache-2.0
system/framework/boot-ext	unknown	Apache-2.0
frameworks/base/native/webview/plat_support/libwebviewchromium_plat_support	android-wear-8.0.0_r1-30380-gcaad918	BSDlike
system/libhidl/transport/memory/block/1.0/android.hidl.memory.block@1.0.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
external/vixl/libvixl-arm64	android-9.0.0_r47-4-g3f16336	BSDlike
hardware/interfaces/memtrack/1.0/default/android.hardware.memtrack@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/e2fsprogs/misc/libext2_misc	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
vendor/broadcom/bcm_platform/hals/hdmi_cec/libhdmiext	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
external/pcre/libpcrecpp	android-9.0.0_r47	BSD
system/core/sdcard/sdcard	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/vibrator/1.1/android.hardware.vibrator@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/sensors/1.0/android.hardware.sensors@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/codecs/hevcddec/libstagefright_soft_hevcddec	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
system/priv-app/RemoteVoiceInput/lib/arm/libAesJni	unknown	Apache-2.0
hardware/interfaces/camera/device/3.3/android.hardware.camera.device@3.3	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/surfaceflinger/timestats/timestatsproto/libtimestats_proto	android-9.0.0_r41-361-ge675b88	Apache-2.0
vendor/broadcom/bcm_platform/hals/dspvcext/1.0/default/bcm.hardware.dspvcext@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
external/hyphenation-patterns/hyph-de-ch-1901	unknown	MIT
frameworks/av/media/libaudioclient/libaudioclient	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/av/media/extractors/mkv/libmkvextractor	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0

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Module Name	Module Version	Module License
frameworks/rs/driver/runtime/libclcore_neon.bc	unknown	Apache-2.0
hardware/interfaces/tv/cec/1.0/android.hardware.tv.cec@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/libpng/libpng.vendor	android-9.0.0_r47	BSDlike
frameworks/base/packages/defaultcontainerservice/defaultcontainerservice	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/hyphenation-patterns/hyph-und-ethi	unknown	MITlike
external/vixl/libvixl-arm	android-9.0.0_r47-4-g3f16336	BSDlike
art/sigchainlib/libsigchain	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/base/core/jni/libandroid_runtime	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/base/media/jni/audioeffect/libaudioeffect_jni	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
hardware/libhardware_legacy/libhardware_legacy.vendor	android-9.0.0_r47	Apache-2.0
frameworks/av/media/libmedia/libmedia	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/void/secdiscard	android-9.0.0_r37-28-g6434886	BSDlike, Apache-2.0
system/netd/server/ndc	android-9.0.0_r42-61-g2842563	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/dec/libstagefright_soft_amrdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/perfetto/traced	android-9.0.0_r47-29-g39d9d44	Apache-2.0
frameworks/rs/cpu_ref/librscpuref.vendor	android-9.0.0_r47-3-g3b78758	Apache-2.0
system/libhwcomposer/vts/performance/libhwcomposer_latency	android-9.0.0_r41-28-gb6761ca	Apache-2.0
hardware/interfaces/health/2.0/android.hardware.health@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/usb/1.0/android.hardware.usb@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/firmware/mp_rtl8761a_config	unknown	Apache-2.0
external/sbc/libsbcb	1.4	LGPL-v2.1
hardware/interfaces/bluetooth/a2dp/1.0/android.hardware.bluetooth.a2dp@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/vr/1.0/android.hardware.vr@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
prebuilts/clang/host/linux-x86/libclang_rt.ubsan_standalone-arm-android.vendor	android-9.0.0_r47-1-g7cc1558	Apache-2.0
frameworks/av/media/libstagefright/codecs/opus/dec/libstagefright_soft_opusdec	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
external/neven/rffspeed_501.bmd	android-9.0.0_r47-2-g78bec76	Apache-2.0
frameworks/av/media/libstagefright/flac/dec/libstagefright_flacdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/core/run-as/run-as	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
system/core/libprocessgroup/libprocessgroup	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/libhidl/transport/memory/token/1.0/android.hidl.memory.token@1.0	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/dec/libstagefright_soft_flacdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/default/android.hardware.graphics.allocator@2.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/audio/4.0/android.hardware.audio@4.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/audio/effect/2.0/android.hardware.audio.effect@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/lmkd/lmkd	android-9.0.0_r42-143-g17495e8	Apache-2.0
system/core/libnetutils/libnetutils	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
vendor/broadcom/bcm_platform/nxif/nxssd/nxssd	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/cas/native/1.0/android.hardware.cas.native@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/wifi/1.2/android.hardware.wifi@1.0-bcm	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicyservice	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
external/hyphenation-patterns/hyph-te	unknown	MIT
hardware/interfaces/ir/1.0/android.hardware.ir@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/okhttp/okhttp	android-cts-9.0_r10	Apache-2.0
frameworks/av/drm/mediadrm/plugins/clearkey/default/libdrmclearkeyplugin	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
vendor/technicolor/apps/remotepointinput/remotepointinput	73110df	Apache-2.0
system/hwservice/hwservice/hwservice	android-9.0.0_r47-6-g46eaf84	Apache-2.0
frameworks/base/media/native/midi/libmidi	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/light/2.0/default/android.hardware.light@2.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-ext.art	unknown	Apache-2.0
system/core/libdiskconfig/libdiskconfig	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/native/services/thermalservice/thermalservice	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/libcutils/libcutils	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/rs/driver/runtime/libclcore.bc	unknown	Apache-2.0
frameworks/av/media/libheif/libheif	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/graphics/composer/2.1/android.hardware.graphics.composer@2.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/device/3.4/android.hardware.camera.device@3.4	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libziparchive/libziparchive.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
art/patchoat/patchoat	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/base/services/services	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/radio/config/1.0/android.hardware.radio.config@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
bootable/recovery/uncrypt/uncrypt	android-9.0.0_r47-24-g70f326c	Apache-2.0
frameworks/native/libs/input/libinput	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/libhardware/modules/local_time/local_time.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
external/hyphenation-patterns/hyph-as	unknown	MIT
frameworks/av/media/libstagefright/codecs/m4v_h263/dec/libstagefright_soft_mpeg4dec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/hwcomposer	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0



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Module Name	Module Version	Module License
vendor/lib/hw/btmp.default	unknown	Apache-2.0
packages/apps/htmlviewer/htmlviewer	android-9.0.0_r47	Apache-2.0
vendor/lib/modules/jni	unknown	GPL-v2
frameworks/base/drm/jni/libdrmframework_jni	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/av/media/libaudiohal/4.0/libaudiohal@4.0	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/opt/net/wifi/libwifi_system_iface/libwifi-system-iface	android-o-mr1-iot-preview-7-1334-g7afecad	Apache-2.0
vendor/broadcom/playready/lib/libplayreadydrmpugin_3_0	ANDROID_P_AB3_3	Apache-2.0
external/curl/libcurl	android-9.0.0_r47-2-g7e5c6f2	MIT
external/hyphenation-patterns/hyph-ga	unknown	MIT
system/framework/boot-voip-common	unknown	Apache-2.0
hardware/interfaces/tests/libhwbinder/1.0/default/android.hardware.tests.libhwbinder@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/bmgr/bmgrlib	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/native/cmds/lshal/lshal	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/cas/native/1.0/android.hardware.cas.native@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/svc/svclib	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/av/services/audiopolicy/libaudiopolicymanager	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/bin/fsck	unknown	GPL-v2
frameworks/base/test-base/android.test.base	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
art/oatdump/oatdump	android-9.0.0_r45-123-g5e756d2	Apache-2.0
hardware/interfaces/graphics/allocator/2.0/android.hardware.graphics.allocator@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/usb/usb	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/radio/1.2/android.hardware.radio@1.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/libcap/libcap	android-9.0.0_r47	BSDlike
device/technicolor/avko/interfaces/soc/1.0/technicolor.hardware.soc@1.0	f35789a	Apache-2.0
external/bzip2/libbz	android-9.0.0_r47	BSDlike
external/perfetto/perfetto	android-9.0.0_r47-29-g39d9d44	Apache-2.0
hardware/interfaces/graphics/common/1.1/android.hardware.graphics.common@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/firmware/mp_rtl8761at_config	unknown	Apache-2.0
hardware/interfaces/memtrack/1.0/android.hardware.memtrack@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/security/keystore/keystore	android-9.0.0_r30-52-g0e96e89	Apache-2.0
hardware/libhardware/modules/gralloc/gralloc.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
system/libhwbinder/libhwbinder_noltpgo.vendor	android-9.0.0_r41-28-gb6761ca	Apache-2.0
frameworks/base/packages/externalstorageprovider/externalstorageprovider	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/libappfuse/libappfuse	android-9.0.0_r42-143-g17495e8	Apache-2.0



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Module Name	Module Version	Module License
external/libchrome/libchrome	android-9.0.0_r47	BSDlike
system/core/init/init	android-9.0.0_r42-144-g942d738	Apache-2.0
hardware/interfaces/audio/common/4.0/ android.hardware.audio.common@4.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/toybox/toybox_vendor	android-9.0.0_r47	BSDlike
frameworks/base/cmds/dpm/dpm	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
hardware/interfaces/camera/device/3.2/default/ camera.device@3.2-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/codecs/g71 1/dec/libstagefright_soft_g711dec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/hyphenation-patterns/hyph-ta	unknown	MIT
hardware/interfaces/soundtrigger/2.1/default/ android.hardware.soundtrigger@2.1-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/hyphenation-patterns/hyph-cu	unknown	MIT
external/sonic/libsonic	android-o-mr1-iot-release-smart-clock-r6	Apache-2.0
system/netd/libnetdutils/libnetdutils	android-9.0.0_r42-61-g2842563	Apache-2.0
external/sonivox/arm-wt-22k/libsonivox	android-9.0.0_r47-6-ge0f3d3e	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2 /enc/libstagefright_soft_vpxenc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
art/compiler/libart-compiler	android-9.0.0_r45-123-g5e756d2	Apache-2.0
hardware/interfaces/bluetooth/1.0/default/ android.hardware.bluetooth@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/libhardware/modules/audio/audio. primary.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
frameworks/av/camera/ndk/libcamera2ndk	android-wear-8.0.0_r1-4358-g9259277	Unicode, Apache-2.0
hardware/interfaces/tv/cec/1.0/default/android. hardware.tv.cec@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/graphics/mapper/2.1/ android.hardware.graphics.mapper@2.1. vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
art/dexoptanalyzer/dexoptanalyzer	android-9.0.0_r45-123-g5e756d2	Apache-2.0
hardware/interfaces/gatekeeper/1.0/default/ android.hardware.gatekeeper@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/audio/2.0/android. hardware.audio@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/nxif/libnxwrap/ libnxwrap	ANDROID_P_AB3_2-38-ga375c16	Apache-2.0
hardware/interfaces/graphics/composer/2.2/ android.hardware.graphics.composer@2.2	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/security/keystore/libkeystore-wifi-hidl	android-9.0.0_r30-52-g0e96e89	Apache-2.0
external/apache-xml/apache-xml	android-9.0.0_r47	Apache-2.0
hardware/interfaces/cas/1.0/default/android. hardware.cas@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/device/3.3/default/ camera.device@3.3-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/toolbox/toolbox	android-9.0.0_r42-157-g254e40e	BSDlike
vendor/broadcom/bcm_platform/hals/ hdmi_cec/libhdmiccec	ANDROID_P_AB3_2-49-g5fca59d	Apache-2.0
system/libhidl/transport/memory/1.0/default/ android.hidl.memory@1.0-impl.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/native/libs/vr/ libpdx_default_transport/ libpdx_default_transport	android-9.0.0_r41-361-ge675b88	Apache-2.0

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Module Name	Module Version	Module License
frameworks/base/native/webview/loader/libwebviewchromium_loader	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/media/audio_utils/libaudioutils.vendor	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
frameworks/native/libs/sensor/libsensor	android-9.0.0_r41-361-ge675b88	Apache-2.0
device/technicolor/avko/interfaces/soc/1.0/default/technicolor.hardware.soc@1.0-service	f35789a	Apache-2.0
external/tinyxml2/libtinyxml2.vendor	android-9.0.0_r47	BSDlike
system/framework/boot-okhttp	unknown	Apache-2.0
frameworks/native/cmds/dumpstate/libdumpstateutil.vendor	android-9.0.0_r41-361-ge675b88	Apache-2.0
external/mksh/sh	android-9.0.0_r47	BSDlike
hardware/interfaces/audio/effect/4.0/android.hardware.audio.effect@4.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/boot/1.0/android.hardware.boot@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/compiler-rt/libcompiler_rt	android-9.0.0_r47	MIT
hardware/interfaces/gnss/1.0/android.hardware.gnss@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/rs/driver/runtime/libclcore_g.bc	unknown	Apache-2.0
frameworks/base/packages/printspooler/jni/libprintspooler_jni	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
external/bzip2/bzip2	android-9.0.0_r47	BSDlike
hardware/interfaces/audio/effect/2.0/android.hardware.audio.effect@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libnativeloader/libnativeloader	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/configstore/1.0/android.hardware.configstore@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
device/technicolor/avko/hal/soc/soc_api	f35789a	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/common/libstagefright_amrnb_common.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/biometrics/fingerprint/2.1/android.hardware.biometrics.fingerprint@2.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/libbrillo/libbrillo-stream	android-9.0.0_r47	BSDlike
system/libhidl/transport/token/1.0/utils/android.hidl.token@1.0-utils.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/minikin/libs/minikin/libminikin	android-9.0.0_r47-8-gee093e6	Apache-2.0
system/keymaster/libpuresoftkeymasterdevice.vendor	android-9.0.0_r47-5-gde7e5f6	Apache-2.0
vendor/broadcom/bcm_platform/nxif/libnexusir/libnexusir	ANDROID_P_AB3_2-71-gf65dcd4	Apache-2.0
frameworks/av/media/ndk/libmediandk	android-wear-8.0.0_r1-4358-g9259277	Unicode, Apache-2.0
hardware/interfaces/wifi/offload/1.0/android.hardware.wifi.offload@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/omx/libstagefright_omx	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/enc/libstagefright_soft_vpxenc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/framework/boot-android.hidl.base-V1.0-java	unknown	Apache-2.0
system/keymaster/libkeymaster_portable	android-9.0.0_r47-5-gde7e5f6	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
vendor/broadcom/bcm_platform/hals/nexus/1.1/bcm.hardware.nexus@1.1.vendor	ANDROID_P_AB3_2	Apache-2.0
external/iproute2/ip/ip	android-wear-9.0.0_r11	GPL-v2
frameworks/av/media/extractors/mp4/libmp4extractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/core/libbacktrace/libbacktrace.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/libhwcutils	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
libnativehelper/libnativehelper	android-9.0.0_r47	Apache-2.0
system/core/libcrypto_utils/libcrypto_utils	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/contexthub/1.0/android.hardware.contexthub@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/services/mediadm/mediadrmserver	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
external/hyphenation-patterns/hyph-et	unknown	MIT
system/libhidl/base/libhidlbase.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
hardware/interfaces/wifi/hostapd/1.0/android.hardware.wifi.hostapd@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/ipsec-tools/racoon	android-wear-9.0.0_r11	BSDlike
external/googletest/googletest/libgtest_prod	android-9.0.0_r47	BSDlike
hardware/interfaces/camera/device/1.0/android.hardware.camera.device@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/opengl/libs/libglesv3	android-9.0.0_r41-361-ge675b88	Apache-2.0
bootable/recovery/applypatch/applypatch	android-9.0.0_r47-47-g8b7c0ce	BSDlike, Apache-2.0
external/e2fsprogs/resize/resize2fs	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
system/framework/boot-telephony-common	unknown	Apache-2.0
external/hyphenation-patterns/hyph-cy	unknown	MIT
frameworks/native/services/thermalservice/libthermalcallback/libthermalcallback	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/audio/common/all-versions/default/android.hardware.audio.common-util	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
libcore/libopenjdk	undefined	GPL-2.0-with-classpath-exception
hardware/interfaces/memtrack/1.0/default/android.hardware.memtrack@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/cmds/ip-up-vpn/ip-up-vpn	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/base/packages/captiveportallogin/captiveportallogin	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/libbinderwrapper/libbinderwrapper	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/neuralnetworks/1.1/android.hardware.neuralnetworks@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/provider/2.4/default/android.hardware.camera.provider@2.4-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/tv/input/1.0/default/android.hardware.tv.input@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/content/content	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
hardware/interfaces/keymaster/4.0/android.hardware.keymaster@4.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/graphics/bufferqueue/1.0/android.hardware.graphics.bufferqueue@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
system/media/radio/libradio_metadata.vendor	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
frameworks/base/test-mock/android.test.mock	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/framework/arm/boot-ims-common.art	unknown	Apache-2.0
hardware/interfaces/audio/common/2.0/ android.hardware.audio.common@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/light/2.0/android.hardware. light@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/power/1.1/android. hardware.power@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/cmds/bugreportz/bugreportz	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/boot/1.0/default/android. hardware.boot@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libprocinfo/libprocinfo	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/base/cmds/am/am	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
vendor/lib/modules/wlan	unknown	GPL-v2
system/core/libbacktrace/libbacktrace	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/base/media/lib/tvremote/com. android.media.tv.remoteprovider	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/hardware/interfaces/net/netd/1.0/ android.system.net.netd@1.0	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
frameworks/opt/net/voip/voip-common	android-9.0.0_r47	Apache-2.0
frameworks/av/media/libaaudio/src/libaaudio	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/broadcastradio/1.1/ android.hardware.broadcastradio@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/services/mediaanalytics/ mediametrics	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/native/services/sensorservice/ libsensorservice	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/security/keystore-engine/ libkeystore-engine-wifi-hidl	android-9.0.0_r30-52-g0e96e89	Apache-2.0
external/libxml2/libxml2.vendor	android-9.0.0_r47-6-gf7216dc	MIT
external/hyphenation-patterns/hyph-nn	unknown	MITlike
vendor/technicolor/rcu_firmwares/fw/ technicolor_atvrcu_rtk_patch.bin	undefined	GPL-2.0 WITH freertos-exception-2.0
frameworks/av/media/libeffects/lvm/wrapper/ libverbwrapper	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/foundation/ libstagefright_foundation.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/rs/driver/runtime/ libclcore_debug_g.bc	unknown	Apache-2.0
frameworks/base/ framework-oahl-backward-compatibility	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/libutils/libutilscallstack	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
system/framework/arm/boot-apache.xml.art	unknown	Apache-2.0
external/libcap/libcap.vendor	android-9.0.0_r47	BSDlike
hardware/interfaces/audio/common/ all-versions/default/android.hardware.audio. common-util.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/gptfdisk/sgdisk	android-wear-9.0.0_r11	GPL-v2
external/harfbuzz_ng/libharfbuzz_ng	android-9.0.0_r47	BSDlike, MITlike
hardware/interfaces/camera/device/3.4/default/ android.hardware.camera.device@3.4-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
camera.device@3.4-external-impl		
hardware/interfaces/power/1.0/default/android.hardware.power@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/hardware/interfaces/vr/composer/1.0/android.frameworks.vr.composer@1.0.vendor	android-vts-9.0_r11	Apache-2.0
system/update_engine/update_engine_sideload	android-9.0.0_r47-2-gc25e3da	Apache-2.0
vendor/realtek/wifi/drivers/8822bu/rtwpriv/rtwpriv	258a6b9	GPL-v2
external/tinyalsa/libtinyalsa	android-9.0.0_r47	BSDlike
vendor/broadcom/bcm_platform/hals/bp3/1.0/bcm.hardware.bp3-v1.0-java	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/cas/1.0/android.hardware.cas@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/extras/slideshow/slideshow	android-9.0.0_r47-30-g9e1deac	Apache-2.0
system/hardware/interfaces/wifi/keystore/1.0/default/libwifikeystorehal	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/enc/libstagefright_soft_amrnbenc.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/base/media/mca/filterpacks/libfilterpack_imageproc	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
vendor/firmware/rtl8822b_config	unknown	Apache-2.0
external/e2fsprogs/misc/tune2fs	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
external/llvm/libllvm_android	android-9.0.0_r47	BSDlike
frameworks/rs/librs_internal	android-9.0.0_r47-3-g3b78758	Apache-2.0
frameworks/base/cmds/hid/jni/libhidcommand_jni	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/core/toolbox/grep	android-9.0.0_r42-157-g254e40e	BSDlike
vendor/broadcom/bcm_platform/hals/sdbhak/1.0/bcm.hardware.sdbhak@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
system/libhid/libhidmemory/libhidmemory.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
hardware/interfaces/audio/common/4.0/android.hardware.audio.common@4.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/wifi/supplicant/1.0/android.hardware.wifi.suplicant@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libnblog/libnblog	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/graphics/mapper/2.0/default/android.hardware.graphics.mapper@2.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/services/libandroid_servers	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/av/media/extractors/aac/libaacextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
art/libdexfile/libdexfile	android-9.0.0_r45-123-g5e756d2	Apache-2.0
frameworks/native/services/display/service/libdisplayervicehidl	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libstagefright/codecs/gsm/dec/libstagefright_soft_gsmdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/media/1.0/android.hardware.media@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/wilhelm/src/libopenmaxal	android-9.0.0_r47-2-g85565cf	Apache-2.0, MITlike
external/boringssl/libcrypto	android-9.0.0_r47-3-g373c295	BSDlike

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Module Name	Module Version	Module License
frameworks/base/packages/services/proxy/proxyhandler	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/security/keystore-engine/libkeystore-engine	android-9.0.0_r30-52-g0e96e89	Apache-2.0
frameworks/av/media/libstagefright/codecs/mpeg2dec/libstagefright_soft_mpeg2dec.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/rs/driver/runtime/libclcore_debug.bc	unknown	Apache-2.0
frameworks/av/soundtrigger/libsoundtrigger	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/bluetooth/a2dp/1.0/android.hardware.bluetooth.a2dp@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/rs/librsdriver	android-9.0.0_r47-3-g3b78758	Apache-2.0
external/wpa_supplicant_8/wpa_supplicant/wpa_supplicant	android-9.0.0_r22-81-g7c4de9d	BSD-3-Clause
frameworks/av/media/libstagefright/codecs/aacdec/libstagefright_soft_aacdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/codecs/aacenc/libstagefright_soft_aacenc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrwbenc/libstagefright_soft_amrwbenc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/core/reboot/reboot	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/rs/librs_internal.vendor	android-9.0.0_r47-3-g3b78758	Apache-2.0
packages/providers/contactsprovider/contactsprovider	android-n-iot-release-smart-display-r2-108-g8e653b7	Apache-2.0
external/e2fsprogs/lib/e2p/libext2_e2p	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
system/netd/client/libnetd_client	android-9.0.0_r42-61-g2842563	Apache-2.0
external/libpcap/libpcap	android-9.0.0_r47-2-ge9c8145	BSDlike
hardware/interfaces/audio/effect/4.0/android.hardware.audio.effect@4.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/soundtrigger/2.0/android.hardware.soundtrigger@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/firmware/mp_rtl8822b_fw	unknown	Apache-2.0
external/libtextclassifier/textclassifier.universal.model	android-9.0.0_r47-5-gcfc946b	Apache-2.0
external/lz4/lib/liblz4	android-wear-9.0.0_r11	BSDlike
external/tremolo/libvorbisidec	android-9.0.0_r47-4-ge0fc8af	BSDlike
art/openjdkjvmti/libopenjdkjvmti	android-9.0.0_r45-123-g5e756d2	GPL-2.0-with-classpath-exception
hardware/interfaces/confirmationui/1.0/android.hardware.confirmationui@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/opt/net/wifi/libwifi_system/libwifi-system	android-o-mr1-iot-preview-7-1334-g7afecad	Apache-2.0
vendor/lib/modules/rtk_btusb	unknown	GPL-v2
external/boringssl/libcrypto.vendor	android-9.0.0_r47-3-g373c295	BSDlike
hardware/interfaces/vibrator/1.0/android.hardware.vibrator@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/device/3.2/android.hardware.camera.device@3.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libnativebridge/libnativebridge	android-9.0.0_r42-143-g17495e8	Apache-2.0
external/hyphenation-patterns/hyph-kn	unknown	MIT
system/connectivity/wificond/wificond	android-9.0.0_r39-7-g719e564	Apache-2.0



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Module Name	Module Version	Module License
system/bin/sload_f2fs	unknown	LGPL-v2.1, GPL-v2
hardware/interfaces/gatekeeper/1.0/default/ android.hardware.gatekeeper@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/minijail/libminijail.vendor	android-9.0.0_r47-6-gc5af311	BSDlike
external/iproute2/tc/tc	android-wear-9.0.0_r11	GPL-v2
packages/apps/certinstaller/certinstaller	android-9.0.0_r30-37-g7303d40	Apache-2.0
external/oj-libjdwpl/libnpt	android-wear-9.0.0_r11-2-g2431de3	GPL-2.0-with-classpath-exception
external/libopus/libopus.vendor	android-9.0.0_r47	BSDlike
device/technicolor/avko/interfaces/proc/1.0/ technicolor.hardware.proc@1.0.vendor	dfd4371	Apache-2.0
hardware/interfaces/tv/input/1.0/default/ android.hardware.tv.input@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libsuspend/libsuspend.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
external/hyphenation-patterns/hyph-fr	unknown	MIT
system/gatekeeper/libgatekeeper	android-9.0.0_r41-11-g0dd78be	Apache-2.0
external/tremolo/libvorbisidec.vendor	android-9.0.0_r47-4-ge0fc8af	BSDlike
frameworks/av/media/libstagefrighthelper/ libstagefrighthelper_bufferqueue_helper.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
hardware/interfaces/keymaster/3.0/android. hardware.keymaster@3.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/one-true-awk/awk	android-9.0.0_r47	BSDlike
frameworks/av/media/libstagefrighthelper/ mpeg2dec/libstagefrighthelper_soft_mpeg2dec	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
system/framework/arm/boot-android.hidl. manager-V1.0-java.art	unknown	Apache-2.0
hardware/interfaces/light/2.0/android.hardware. light@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/device/3.4/ android.hardware.camera.device@3.4.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/test-runner/android.test. runner	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/media/bootanimation	unknown	Apache-2.0
frameworks/av/media/libstagefrighthelper/ libstagefrighthelper_omx.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/power/1.0/android. hardware.power@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/compile/libbcc/tools/bcc/bcc	android-9.0.0_r47	Apache-2.0, MITlike
frameworks/av/services/audiopolicy/ libaudiopolicymanagerdefault	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/base/native/graphics/jni/ libjnigraphics	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/keymaster/3.0/android. hardware.keymaster@3.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/iproute2/lib/libnetlink	android-wear-9.0.0_r11	GPL-v2
frameworks/base/packages/statementservice/ statementservice	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/vixl/libvixl-arm.vendor	android-9.0.0_r47-4-g3f16336	BSDlike
bootable/recovery/recovery	android-9.0.0_r47-24-g70f326c	Apache-2.0
external/expat/libexpat.vendor	android-9.0.0_r47	BSDlike
system/core/base/libbase	android-9.0.0_r42-143-g17495e8	Apache-2.0



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Module Name	Module Version	Module License
frameworks/ml/nn/runtime/libneuralnetworks	android-9.0.0_r47-52-g3c620c0	Apache-2.0
frameworks/av/services/mediaextractor/mediaextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/graphics/composer/2.1/android.hardware.graphics.composer@2.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/libhwcomposer/vts/performance/hwbinderthroughputtest	android-9.0.0_r41-28-gb6761ca	Apache-2.0
system/framework/boot-android.hidl.manager-V1.0-java	unknown	Apache-2.0
hardware/interfaces/audio/common/2.0/android.hardware.audio.common@2.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/libstagefright	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
hardware/interfaces/camera/device/3.4/default/camera.device@3.4-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/toolbox/grep_vendor	android-9.0.0_r42-157-g254e40e	BSDlike
frameworks/base/framework	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/libutils/libutilscallstack.vendor	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/av/services/minijail/libavservices_minijail	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/audio/common/4.0/default/android.hardware.audio.common@4.0-util	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/hwcomposer.uiw4020tlu	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
frameworks/base/cmds/media/media_cmd	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/base/libs/services/libservices	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
device/technicolor/avko/interfaces/proc/1.0/default/technicolor.hardware.proc@1.0-service	dfd4371	Apache-2.0
frameworks/av/media/libstagefright/libstagefright_codecbase	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
external/icu/icu4c/source/stubdata/icu-data	android-9.0.0_r42-187-gbe08251	BSD, MITlike
hardware/interfaces/dumpstate/1.0/android.hardware.dumpstate@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/protobuf/libprotobuf-cpp-lite.vendor	android-9.0.0_r47	Apache-2.0
system/security/keystore/keystore_cli_v2	android-9.0.0_r30-52-g0e96e89	Apache-2.0
frameworks/av/media/libeffects/preprocessing/libaudiopreprocessing	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/health/1.0/android.hardware.health@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/obex/javax.obex	android-wear-8.0.0_r1-30380-gcaad918	BSDlike
system/libhidl/transport/memory/token/1.0/android.hidl.memory.token@1.0.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
system/bt/main/libbluetooth	android-wear-8.0.0_r1-4247-gf65c2bc	Apache-2.0
system/tools/hidl/utils/libhidl-gen-utils	android-9.0.0_r41-27-gc2e5850	Apache-2.0
vendor/broadcom/bcm_platform/hals/sfhak/1.0/default/bcm.hardware.sfhak@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
hardware/interfaces/graphics/common/1.0/android.hardware.graphics.common@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/camera/common/1.0/android.hardware.camera.common@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/tv/input/1.0/android.hardware.tv.input@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

## Open Source Report

Module Name	Module Version	Module License
system/core/logd/logd	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/automotive/vehicle/2.0/ android.hardware.automotive.vehicle@2.0. vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/services/audiomanager/ libaudiomanager	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/graphics/common/1.1/ android.hardware.graphics.common@1.1. vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/wifi/offload/1.0/android. hardware.wifi.offload@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/wifi/1.0/android.hardware. wifi@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/libs/hwui/libhwui	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/core/adb/adbd	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
external/ppp/pppd/pppd	android-wear-9.0.0_r11	BSDlike
vendor/firmware/rtl8822b_fw	unknown	Apache-2.0
frameworks/native/libs/gui/libgui.vendor	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/extras/tests/schedtest/schedtest	android-9.0.0_r47-30-g9e1deac	Apache-2.0
frameworks/base/cmds/idmap/idmap	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
hardware/interfaces/cas/1.0/android.hardware. cas@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libsync/libsync	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
external/libjpeg-turbo/libjpeg.vendor	android-9.0.0_r47-18-ge9abdaf	zlib, BSDlike, IJG
hardware/interfaces/vibrator/1.2/android. hardware.vibrator@1.2	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/native/libs/dumputils/libdumputils	android-9.0.0_r41-361-ge675b88	Apache-2.0
system/core/libasyncio/libasyncio	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/keymaster/4.0/support/ libkeymaster4support	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/netd/bpfloader/bpfloader	android-9.0.0_r42-61-g2842563	Apache-2.0
system/security/keystore/libkeystore_aidl	android-9.0.0_r30-52-g0e96e89	Apache-2.0
system/bin/make_f2fs	unknown	LGPL-v2.1, GPL-v2
hardware/interfaces/graphics/composer/2.1/ utils/hwc2onfbadapter/libhwc2onfbadapter	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/hyphenation-patterns/hyph-en-us	unknown	hyph-en-us.lic - Kuiken
hardware/libhardware_legacy/libpower.vendor	android-9.0.0_r47	Apache-2.0
hardware/interfaces/media/bufferpool/1.0/ android.hardware.media.bufferpool@1.0. vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/selinux/secilc/secilc	android-wear-9.0.0_r11-4-g9295255	BSDlike
external/hyphenation-patterns/hyph-or	unknown	MIT
frameworks/native/services/sensorservice/ sensorservice	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/interfaces/light/2.0/default/android. hardware.light@2.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
art/disassembler/libart-disassembler	android-9.0.0_r45-123-g5e756d2	Apache-2.0
hardware/interfaces/bluetooth/1.0/android. hardware.bluetooth@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/hyphenation-patterns/hyph-hy	unknown	LGPL-v2.1

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Module Name	Module Version	Module License
frameworks/av/media/extractors/flac/libflacextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/libjpeg-turbo/libjpeg	android-9.0.0_r47-18-ge9abdaf	zlib, BSDlike, IJG
system/libhidl/transport/allocator/1.0/utills/libhidlallocatorutills	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/native/cmds/service/service	android-9.0.0_r41-361-ge675b88	Apache-2.0
external/hyphenation-patterns/hyph-pa	unknown	MIT
frameworks/compile/mclinker/tools/mcld/ld.mc	android-9.0.0_r47	BSDlike, MITlike
system/security/keystore/libkeystore_binder	android-9.0.0_r30-52-g0e96e89	Apache-2.0
frameworks/av/services/mediaextractor/libmediaextractorservice	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/hardware/interfaces/wifi/keystore/1.0/android.system.wifi.keystore@1.0	android-vts-9.0_r11-2-gab3d6cb	Apache-2.0
external/hyphenation-patterns/hyph-bn	unknown	MIT
external/hyphenation-patterns/hyph-tk	unknown	MIT
hardware/interfaces/camera/provider/2.4/default/android.hardware.camera.provider@2.4-external-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/iputils/ping	android-9.0.0_r16	BSD-3-Clause
frameworks/rs/librs	android-9.0.0_r47-3-g3b78758	Apache-2.0
frameworks/base/packages/companiondevicemanager/companiondevicemanager	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/lib/libf2fs_sparseblock	unknown	LGPL-v2.1, GPL-v2
bionic/libdl/libdl	android-9.0.0_r47-42-g99f0dd4	BSDlike
external/libldac/libldacbt_enc.vendor	android-9.0.0_r47	Apache-2.0
frameworks/base/packages/inputdevices/inputdevices	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/core/debuggerd/tombstoned	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
hardware/interfaces/vr/1.0/android.hardware.vr@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/app_process/app_process	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
frameworks/av/media/libstagefright/foundation/libstagefright_foundation	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/libhardware_legacy/libhardware_legacy	android-9.0.0_r47	Apache-2.0
hardware/interfaces/automotive/audiocontrol/1.0/android.hardware.automotive.audiocontrol@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/codecs/hevcdec/libstagefright_soft_hevcdec.vendor	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
libcore/libjavacore	undefined	GPL-2.0-with-classpath-exception
system/vold/vold	android-9.0.0_r37-28-g6434886	BSDlike, Apache-2.0
hardware/interfaces/power/1.0/android.hardware.power@1.0.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/liblog/liblog	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
vendor/firmware/rtl8761at_config	unknown	Apache-2.0
system/libhidl/transport/allocator/1.0/utills/libhidlallocatorutills.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
frameworks/native/cmds/dumpstate/libdumpstateaidl	android-9.0.0_r41-361-ge675b88	Apache-2.0

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Module Name	Module Version	Module License
hardware/interfaces/audio/2.0/android.hardware.audio@2.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/base/cmds/incidentd/incidentd	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
system/core/base/libbase.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
frameworks/av/media/libmedia/libmedia_omx	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
art/runtime/libart	android-9.0.0_r45-123-g5e756d2	Apache-2.0
system/framework/boot-android.test.base	unknown	Apache-2.0
libcore/core-libart	undefined	GPL-2.0-with-classpath-exception
system/framework/arm/boot-telephony-common.art	unknown	Apache-2.0
hardware/libhardware_legacy/libpower	android-9.0.0_r47	Apache-2.0
system/core/libmetricslogger/libmetricslogger	android-9.0.0_r42-143-g17495e8	Apache-2.0
bionic/linker/linker	android-9.0.0_r47-42-g99f0dd4	BSDlike
hardware/interfaces/thermal/1.1/android.hardware.thermal@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/libstagefright/codecs/on2/dec/libstagefright_soft_vpxdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/libhidl/transport/memory/1.0/default/android.hidl.memory@1.0-impl	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/default/technicolor.hardware.csn@1.0-service	bfb6717	Apache-2.0
system/media/camera/libcamera_metadata.vendor	android-9.0.0_r46-68-g0d8ae02	Apache-2.0
external/boringssl/libssl	android-9.0.0_r47-3-g373c295	BSDlike
external/hyphenation-patterns/hyph-la	unknown	MIT
system/framework/arm/boot-okhttp.art	unknown	Apache-2.0
frameworks/opt/net/voip/src/jni/rtp/librtp_jni	android-9.0.0_r47	Apache-2.0
frameworks/native/libs/ui/libui	android-9.0.0_r41-361-ge675b88	Apache-2.0
hardware/libhardware/modules/tv_input/tv_input.default	android-9.0.0_r47-23-g1f853d8	Apache-2.0
system/framework/arm/boot-bouncycastle	unknown	Apache-2.0
bionic/linker/ld-android	android-9.0.0_r47-42-g99f0dd4	BSDlike
frameworks/av/media/libaudioprocessing/libaudioprocessing	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
hardware/interfaces/wifi/1.2/android.hardware.wifi@1.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/iptables/iptables/iptables	android-wear-9.0.0_r11	GPL-v2
vendor/broadcom/bcm_platform/nxif/libnxcec/libnxcec	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
external/libevent/libevent	android-9.0.0_r47	BSDlike
external/bouncycastle/bouncycastle	android-9.0.0_r47-2-g2044754	BSDlike
hardware/interfaces/power/1.2/android.hardware.power@1.2.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
hardware/interfaces/radio/1.1/android.hardware.radio@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
device/technicolor/avko/dumpstate/android.hardware.dumpstate@1.0-service.avko	d4f3b7a	Apache-2.0
external/pcre/libpcre2.vendor	android-9.0.0_r47	BSD
vendor/broadcom/bcm_platform/tools/nxdvb-player/nxdvb-player	ANDROID_P_AB3_2-1-ga6da063	MITlike

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Module Name	Module Version	Module License
system/framework/arm/boot-telephony-common	unknown	Apache-2.0
external/libcxx/libc++.vendor	android-9.0.0_r47-35-g42e5d63	BSDlike
hardware/interfaces/wifi/1.1/android.hardware.wifi@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libvndksupport/libvndksupport	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/gatekeeper/1.0/android.hardware.gatekeeper@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/arm/boot-android.test.base.art	unknown	Apache-2.0
hardware/interfaces/nfc/1.1/android.hardware.nfc@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/framework/boot-core-libart	unknown	Apache-2.0
external/libldac/libldacbt_abr	android-9.0.0_r47	Apache-2.0
external/e2fsprogs/misc/mke2fs	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
external/cn-cbor/libcn-cbor.vendor	android-wear-9.0.0_r11	MIT
system/bt/binder/libbluetooth-binder	android-wear-8.0.0_r1-4247-gf65c2bc	Apache-2.0
external/libbrillo/libbrillo	android-9.0.0_r47	BSDlike
hardware/interfaces/camera/provider/2.4/android.hardware.camera.provider@2.4.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
system/core/libsuspend/libsuspend	android-9.0.0_r42-143-g17495e8	Apache-2.0
packages/apps/camera2/jni/libjni_tinyplanet	android-9.0.0_r47-31-g71ec346	Apache-2.0
system/libhwbbinder/vts/performance/libhwbbinder_benchmark	android-9.0.0_r41-28-gb6761ca	Apache-2.0
frameworks/base/cmds/locksettings/locksettings	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/technicolor.hardware.csn@1.0	bfb6717	Apache-2.0
packages/apps/camera2/camera2	android-9.0.0_r47-31-g71ec346	Apache-2.0
system/vold/vdc	android-9.0.0_r37-28-g6434886	BSDlike, Apache-2.0
hardware/interfaces/bluetooth/1.0/default/android.hardware.bluetooth@1.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/wilhelm/src/libopenles	android-9.0.0_r47-2-g85565cf	Apache-2.0, MITlike
system/framework/arm/boot-android.hidl.base-V1.0-java	unknown	Apache-2.0
frameworks/opt/telephony/telephony-common	android-wear-8.0.0_r1-1940-g2d0dd8a	Apache-2.0
vendor/broadcom/bcm_platform/tools/otp/otp	ANDROID_P_AB3_2	Apache-2.0
system/technicolor/tr069/compat/libcwmprtransformerbackend	unknown	MITlike
hardware/interfaces/drm/1.1/android.hardware.drm@1.1	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/utills/libmediautils	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
art/dt_fd_forward/libdt_fd_forward	android-9.0.0_r45-123-g5e756d2	GPL-2.0-with-classpath-exception
frameworks/base/libs/input/libinputservice	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
libcore/core-oj	undefined	GPL-2.0-with-classpath-exception
vendor/broadcom/bcm_platform/hals/prdysc/1.0/default/bcm.hardware.prdysc@1.0-service	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/compile/libbcc/lib/libbcc	android-9.0.0_r47	Apache-2.0, MITlike
frameworks/rs/cpu_ref/librscpuref	android-9.0.0_r47-3-g3b78758	Apache-2.0

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Module Name	Module Version	Module License
frameworks/av/media/extractors/mp3/libmp3 extractor	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/framework/arm/boot-ims-common	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/vorbis/dec/libstagefright_soft_vorbisdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/tinyalsa/libtinyalsa.vendor	android-9.0.0_r47	BSDlike
frameworks/base/packages/fusedlocation/fusedlocation	android-wear-8.0.0_r1-30380-gcaad918	Apache-2.0
system/libhid/libhidlcache/libhidlcache.vendor	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
hardware/ril/reference-ril/libreference-ril	android-9.0.0_r47-6-g99d5d22	Apache-2.0
frameworks/av/drm/libdrmframework/libdrmframework	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
system/core/libion/libion.vendor	android-9.0.0_r42-143-g17495e8	Apache-2.0
hardware/interfaces/gnss/1.1/android.hardware.gnss@1.1.vendor	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/rs/librsdriver.vendor	android-9.0.0_r47-3-g3b78758	Apache-2.0
system/core/libpixelflinger/libpixelflinger	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
frameworks/av/media/mediaserver/mediaserver	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/speex/libspeexresampler	android-9.0.0_r47-1-g978296a	BSDlike
frameworks/base/packages/backupstoreconfirmation/backupstoreconfirmation	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/libldac/libldacbt_abr.vendor	android-9.0.0_r47	Apache-2.0
vendor/firmware/mp_rtl8822b_config	unknown	Apache-2.0
external/libopus/libopus	android-9.0.0_r47	BSDlike
vendor/broadcom/bcm_platform/hals/dspsvcext/1.0/bcm.hardware.dspsvcext-v1.0-java	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/av/media/libstagefright/bqhelper/libstagefright_bufferqueue_helper	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
art/dex2oat/dex2oat	android-9.0.0_r45-123-g5e756d2	Apache-2.0
system/netd/server/netd	android-9.0.0_r42-61-g2842563	Apache-2.0
frameworks/native/cmds/servicemanager/vndservicemanager	android-9.0.0_r41-361-ge675b88	Apache-2.0
frameworks/av/media/libstagefright/codecs/avcdec/libstagefright_soft_avcdec	android-wear-8.0.0_r1-4345-gfb07900	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/dec/libstagefright_soft_amrdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/sensors/1.0/android.hardware.sensors@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/media/mtp/libmtp	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/mdnsresponder/libmdnssd	android-9.0.0_r47	Apache-2.0
frameworks/base/rs/jni/librs_jni	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
external/speex/libspeexresampler.vendor	android-9.0.0_r47-1-g978296a	BSDlike
system/update_engine/update_engine	android-9.0.0_r47-2-gc25e3da	Apache-2.0
frameworks/av/media/extractors/midi/libmidiextractor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/wifi/1.0/android.hardware.wifi@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/av/drm/libmediadrm/libmediadrm	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0



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Module Name	Module Version	Module License
frameworks/av/media/libmediaplayerservice/libmediaplayerservice	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
build/make/target/product/security/verity_key	unknown	Apache-2.0
vendor/broadcom/playready/lib/libplayreadydrmpugin_2_5	ANDROID_P_AB3_3	Apache-2.0
frameworks/av/media/libstagefright/codecs/amrnb/enc/libstagefright_soft_amrnbenc	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
vendor/broadcom/bcm_platform/hals/sfhak/1.0/bcm.hardware.sfhak@1.0.vendor	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
frameworks/av/media/libnbaio/libnbaio_mono	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
system/framework/boot-conscrypt	unknown	Apache-2.0
device/technicolor/avko/interfaces/csn/1.0/technicolor.hardware.csn@1.0.vendor	bfb6717	Apache-2.0
frameworks/av/media/libstagefright/codecs/flac/dec/libstagefright_soft_flacdec	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
external/hyphenation-patterns/hyph-en-gb	unknown	Unicode
external/zlib/libz.vendor	android-9.0.0_r47	BSDlike
system/libhidl/transport/manager/1.0/android.hidl.manager-v1.0-java	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
system/libhidl/libhidlmemory/libhidlmemory	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
external/e2fsprogs/lib/ext2fs/libext2fs	android-wear-9.0.0_r11-3-g7d01f9f	GPL-v2
frameworks/av/services/soundtrigger/libsoundtriggerservice	android-wear-8.0.0_r1-4338-g3ba5121	Apache-2.0
frameworks/base/cmds/statsd/statsd	android-wear-8.0.0_r1-30292-g4c52741	Apache-2.0
frameworks/opt/net/ethernet/ethernet-service	android-9.0.0_r47-12-g83ae237	Apache-2.0
system/core/debuggerd/debuggerd	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
vendor/broadcom/bcm_platform/hals/hwcomposer/libhwcbinder	ANDROID_P_AB3_2-30-g7dec0e2	Apache-2.0
prebuilts/clang/host/linux-x86/libclang_rt.asan-arm-android	android-9.0.0_r47-1-g7cc1558	Apache-2.0
hardware/interfaces/tv/cec/1.0/android.hardware.tv.cec@1.0	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
external/iputils/ping6	android-9.0.0_r16	BSD-3-Clause
vendor/broadcom/bcm_platform/media/libbcmsidebandplayer/libbcmsidebandplayer	ANDROID_P_AB3_2-115-gffe61b2	Apache-2.0
system/core/libpackagelistparser/libpackagelistparser	android-9.0.0_r42-143-g17495e8	Apache-2.0
vendor/firmware/mp_rtl8761aw8192eu_config	unknown	Apache-2.0
vendor/broadcom/bcm_platform/apks/bcmnrphelper/bcmnrphelper	ANDROID_P_AB3_2	Apache-2.0
external/libexif/libexif.vendor	android-wear-9.0.0_r11	LGPL-v2.1
system/libhidl/minijail/libhwminijail	android-9.0.0_r41-45-g8fb37b5	Apache-2.0
packages/providers/tvprovider/tvprovider	android-9.0.0_r47-72-gc8b004d	Apache-2.0
system/core/logcat/liblogcat	android-9.0.0_r42-158-gc53e9a7	Apache-2.0
vendor/broadcom/bcm_platform/hals/nexus/1.0/bcm.hardware.nexus@1.0.vendor	ANDROID_P_AB3_2	Apache-2.0
frameworks/av/media/libeffects/visualizer/libvisualizer	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/keymaster/3.0/default/android.hardware.keymaster@3.0-impl	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0
frameworks/rs/librschedir	android-9.0.0_r47-3-g3b78758	Apache-2.0



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packages/providers/userdictionaryprovider/ userdictionaryprovider	android-9.0.0_r35-7-g773b00b	Apache-2.0
system/etc/security/otacerts	unknown	Apache-2.0
vendor/firmware/rtl8761au_fw	unknown	Apache-2.0
frameworks/av/media/libstagefright/codecs/ aacdec/libstagefright_soft_aacdec.vendor	android-wear-8.0.0_r1-4358-g9259277	Apache-2.0
hardware/interfaces/drm/1.0/default/android. hardware.drm@1.0-service	android-wear-8.0.0_r1-3449-gd279f25	Apache-2.0

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