



LIBRE SYNC

LS9 Open Source Software Declaration

Rev: 1.0

Libre Wireless Technologies Private Limited

librewireless.com

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Table of Contents

| | |
|--|----------|
| 1. Document Information..... | 5 |
| 1.1. Abstract..... | 5 |
| 1.2. Document Convention..... | 5 |
| 1.3. Revision History | 5 |
| 2. Libre Open Source Software | 6 |
| 2.1. Introduction | 6 |
| 2.2. License Details | 20 |
| 2.2.1. GPL v2.1 | 20 |
| 2.2.2. BSD..... | 32 |
| 2.2.3. GPLv2..... | 33 |
| 2.2.4. Curl License | 42 |
| 2.2.5. BSD_LIKE | 42 |
| 2.2.6. GPLv3..... | 44 |
| 2.2.7. BSD..... | 60 |
| 2.2.8. NetBSD..... | 66 |
| 2.2.9. BSD-Like | 66 |
| 2.2.10. BSD..... | 67 |
| 2.2.11. BSD Like | 68 |
| 2.2.12. GPLv2..... | 69 |
| 2.2.13. MirOS License | 78 |
| 2.2.14. OpenSSL License – openssl..... | 78 |
| 2.2.15. Original SSLeay License | 79 |
| 2.2.16. BSD License | 81 |
| 2.2.17. XmodemTranfer License | 82 |
| 2.2.18. BSD Like | 83 |
| 2.2.19. LGPL | 83 |
| 2.2.20. ICU 1.8.1 | 96 |
| 2.2.21. MIT License..... | 99 |



| | |
|-----------------------------|-----|
| 2.2.22. Apache 2.0..... | 100 |
| 2.2.23. Apache License..... | 100 |
| 2.2.24. LGPLv2.1..... | 105 |
| 2.2.25. BSD Like..... | 113 |
| 2.2.26. BSD Like..... | 114 |
| 2.2.27. BSD Like..... | 118 |
| 2.2.28. MIT..... | 127 |

1. Document Information

1.1. Abstract

This document gives an overview on LS9 Open Source Software Licences used in the software development.

1.2. Document Convention

| Icon | Meaning | Description |
|---|---------|--|
|  | Note | Provides information good to know |
|  | Caution | Indicates situation that might result in loss of data or hardware damage |

1.3. Revision History

| Revision | Date | Description of change | |
|----------|---------------|-----------------------|-------|
| 0.1 | May 10, 2019 | Initial Document | Thiru |
| 1.0 | June 30, 2020 | Final Draft | Mohan |

2. Libre Open Source Software

2.1. Introduction

This document provides the information about Open Source Software Licenses used in LS9 platform.

Open Source Software Components:

The following table gives a detailed information on the Open Source Software Components:

| Open Source Software Component | Version | License | Source Code Information |
|--------------------------------|------------|------------------------------|--|
| alsactl | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| alsaloop | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| alsaucm | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| amidi | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| amixer | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| ash | 1.12 | BSD | Not Applicable as per license terms |
| bdt | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| busybox | v1.20.1 | GPLv2 | Source code will be provided on request |
| curl | 7.52.1 | curl license | Not Applicable as per license terms |
| debuggerd | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

| Open Source Software Component | Version | License | Source Code Information |
|--------------------------------|-----------------|---------------------------|--|
| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| dhcpcd | 5.2.10 | BSD like | Not Applicable as per license terms |
| dnsmasq | 2.51 | GPLv3 | Source code will be provided on request |
| toolbox | 1.43 | BSD | Not Applicable as per license terms |
| grep | 1.4 | NetBSD | Not Applicable as per license terms |
| toybox | 0.6.0 | BSD | Not Applicable as per license terms |
| gzip | 1.4 | BSD Like | Not Applicable as per license terms |
| hostapd | v2.5-devel-1.19 | BSD | Not Applicable as per license terms |
| hostapd_cli | v2.5-devel-1.19 | BSD | Not Applicable as per license terms |
| iecsset | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| iperf | 2.0.5 | BSD Like | Not Applicable as per license terms |
| iwconfig | 30 | GPLv2 | Source code will be provided on request |
| iwevent | 30 | GPLv2 | Source code will be provided on request |
| iwlist | 30 | GPLv2 | Source code will be provided on request |
| iwpriv | 30 | GPLv2 | Source code will be provided on request |
| logcat | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

| Open Source Software Component | Version | License | Source Code Information |
|--------------------------------|------------|---------------------------|--|
| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| logwrapper | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| make_ext4fs | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| mdnsd | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| mediaserver | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| mksh | R40 | MirOS | Not Applicable as per license terms |
| net_bdtool | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| netcfg | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

| Open Source Software Component | Version | License | Source Code Information |
|--------------------------------|------------|---|--|
| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| net_hci | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| openssl | 1.0.2o | OpenSSL & Original SSLeay | Not Applicable as per license terms |
| servicemanager | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| showlease | 5.2.10 | BSD Like | Not Applicable as per license terms |
| simg2img | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| speaker-test | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| system_server | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| updater | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

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| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| wfd | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| wpa_cli | v2.5-devel-1.19 | BSD | Not Applicable as per license terms |
| wpa_supplicant | v2.5-devel-1.19 | BSD | Not Applicable as per license terms |
| XmodemTransfer | 1.1 | XmodemTransfer license | Not Applicable as per license terms |
| libasound | 1.0.27.2 | GPLv2.1 | Source code will be provided on request |
| libaudioflinger | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libaudioutils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libbinder | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git |

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| | | | Branch: android4sam_v4.2 |
| libbt-vendor | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libcommon_time | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libconnectivitymanager | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libcorkscrew | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libcrypto | 1.0.11 | OpenSSL & Original SSLeay | Not Applicable as per license terms |
| libcurl | 7.52.1 | Curl License | Not Applicable as per license terms |
| libcutils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libddms_rtp | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

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|--------------------------------|------------|---------------------------|--|
| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libexpat | 2.1.0 | BSD Like | Not Applicable as per license terms |
| libext2_uuid | 1.41.14 | BSD Like | Not Applicable as per license terms |
| libext4_utils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libftp | 2.0.4 | LGPL | Source code will be provided on request |
| libgabi++ | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libhardware_legacy | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libhardware | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libcui18n | 4.8.1.1 | ICU 1.8.1 | Not Applicable as per license terms |

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| libicuuc | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libJson | 1.6.2 | MIT | Not Applicable as per license terms |
| libmdnssd | 320.108 | Apache 2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libmediaplayerservice | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libmedia | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libnbaio | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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| libnetutils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libnl | 2.0 | LGPLv2.1 | Source code will be provided on request |
| libpagemap | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libpng | 1.6.31 | BSD Like | Not Applicable as per license terms |
| libsparse | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libspeexresampler | 1.1.15 | BSD Like | Not Applicable as per license terms |
| libssl | 1.0.11 | OpenSSL & Original SSLeay license | Not Applicable as per license terms |
| libstagefright_amrnb_common | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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| libstagefright_avc_common | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_chromium_http | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_enc_common | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_foundation | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_httplive | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_omx | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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| libstagefright | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_aacdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_aacenc | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_alacdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_amrdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_flacdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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| libstagefright_soft_mp3dec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_rawdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_soft_vorbisdec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libstagefright_wfd | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libsync | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libsystem_server | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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| libsysutils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libtinyalsa | AOSP 4.2.2 | BSD | Not Applicable as per license terms |
| libui | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libupnp | 3.0 | BSD | Not Applicable as per license terms |
| libusbhost | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libutils | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libvorbisidec | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |

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|--------------------------------|-----------------|---------------------------|--|
| libwac_ark | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libwpa_client | v2.5-devel-1.19 | BSD Like | Not Applicable as per license terms |
| libz | 1.2.5 | BSD Like | Not Applicable as per license terms |
| audio.a2dp.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| audio_policy.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| audio_policy.stub | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| audio.primary.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| audio.r_submix.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: |

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|--------------------------------|------------|---------------------------|--|
| | | | Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| bluetooth.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| local_time.default | AOSP 4.2.2 | Apache2.0 | Source code can be found here: Repo URL: git://github.com/Android4SAM/platform_sammanifest.git Branch: android4sam_v4.2 |
| libjpeg | 8.4.0 | BSD Like | Not Applicable as per license terms |
| zlib | 1.2.11 | BSD Like | Not Applicable as per license terms |
| libgraphicsmagick | 1.3.35 | MIT | Not Applicable as per license terms |
| Linux Kernel | 3.8.13 | GPLv2 | Source code will be provided on request |

2.2. License Details

This section describes the Open source software license details used in Libre platform.

2.2.1. GPL v2.1

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software-to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method:

(1) we copyright the library, and

(2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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2.2.20. ICU 1.8.1

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

LEGAL ISSUES Copyright, lack of warranty, terms of distribution.

REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

ACKNOWLEDGMENTS Special thanks.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.

*.1 Unix-style man pages for programs (same info as usage.txt).

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.

structure.txt Overview of the JPEG library's internal structure.

filelist.txt Road map of IJG files.

coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet.

We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.

The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.

No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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Software Foundation; principally, that you must include source code if you redistribute it. (See the file `ansi2knr.c` for full details.) However, since `ansi2knr.c` is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (`config.guess`, `config.sub`, `ltmain.sh`). Another support script, `install-sh`, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)

omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images,

Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS

10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of

Continuous-tone Still Images,

Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as

<http://www.ijg.org/files/jpegsr8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies.

IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

Furthermore, the ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above. We have no sympathy

for the release of misleading and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

TO DO

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

2.2.28. MIT

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