# Changelog

## v2.4.0 (2020-12-28)

Full Changelog

**Closed issues:**

- OPENJPEG_INSTALL_DOC_DIR does not control a destination directory where HTML docs would be installed. #1309
- Heap-buffer-overflow in lib/openjp2/pi.c:312 #1302
- Heap-buffer-overflow in lib/openjp2/t2.c:973 #1299
- Heap-buffer-overflow in lib/openjp2/pi.c:623 #1293
- Global-buffer-overflow in lib/openjp2/dwt.c:1980 #1286
- Heap-buffer-overflow in lib/openjp2/tcd.c:2417 #1284
- Heap-buffer-overflow in lib/openjp2/mqc.c:499 #1283
- Openjpeg could not encode 32bit RGB float image #1281
- Openjpeg could not encode 32bit RGB float image #1280
- ISO/IEC 15444-1:2019 (E) compared with 'cio.h' #1277
- Test-suite failure due to hash mismatch #1264
- Heap use-after-free #1261
- Memory leak when failing to allocate object... #1259
- Memory leak of Tier 1 handle when OpenJPEG fails to set it as TLS... #1257
- Any plan to build release for CVE-2020-8112/CVE-2020-6851 #1247
- failing to convert 16-bit file: opj_t2_encode_packet(): only 5251 bytes remaining in output buffer. 5621 needed. #1243
- CMake+VS2017 Compile OK, thirdparty Compile OK, but thirdparty not install #1239
- New release to solve CVE-2019-6988 ? #1238
- Many tests fail to pass after the update of libtiff to version 4.1.0 #1233
- Another heap buffer overflow in libopenjp2 #1231
- Heap buffer overflow in libopenjp2 #1228
- Endianness of binary volume (JP3D) #1224
- New release to resolve CVE-2019-12973 #1222
- how to set the block size,like 128,256 ? #1216
- compress YUV files to motion jpeg2000 standard #1213
- Repair/update Java wrapper, and include in release #1208
- abc #1206
- Slow decoding #1202
- Installation question #1201
- Typo in test_decode_area - *ptilew is assigned instead of *ptileh #1195
- Creating a J2K file with one POC is broken #1191
- Make fails on Arch Linux #1174
- Heap buffer overflow in opj_t1_clbl_decode_processor() triggered with Ghostscript #1158
- opj_stream_get_number_byte_left: Assertion 'p_stream->m_byte_offset

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>= 0' failed. #1151
- The fuzzer ignores too many inputs #1079
- out of bounds read #1068

**Merged pull requests:**

- Change defined WIN32 #1310 (Jamaika1)
- docs: fix simple typo, producted -> produced #1308 (timgates42)
- Set ${OPENJPEG_INSTALL_DOC_DIR} to DESTINATION of HTMLs #1307 (lemniscati)
- Use INC_DIR for OPENJPEG_INCLUDE_DIRS (fixes uclouvain#1174) #1306 (matthew-sharp)
- pi.c: avoid out of bounds access with POC (fixes #1302) #1304 (rouault)
- Encoder: grow again buffer size #1303 (zodf0055980)
- opj_j2k_write_sod(): avoid potential heap buffer overflow (fixes #1299) (probably master only) #1301 (rouault)
- pi.c: avoid out of bounds access with POC (refs https://github.com/uclouvain/openjpeg/issues/1293#issuec 737122836) #1300 (rouault)
- opj_t2_encode_packet(): avoid out of bound access of #1297, but likely not the proper fix #1298 (rouault)
- opj_t2_encode_packet(): avoid out of bound access of #1294, but likely not the proper fix #1296 (rouault)
- opj_j2k_setup_encoder(): validate POC compno0 and compno1 (fixes #1293) #1295 (rouault)
- Encoder: avoid global buffer overflow on irreversible conversion when. . . #1292 (rouault)
- Decoding: deal with some SPOT6 images that have tiles with a single tile-part with TPsot == 0 and TNsot == 0, and with missing EOC #1291 (rouault)
- Free p_tcd_marker_info to avoid memory leak #1288 (zodf0055980)
- Encoder: grow again buffer size #1287 (zodf0055980)
- Encoder: avoid uint32 overflow when allocating memory for codestream buffer (fixes #1243) #1276 (rouault)
- Java compatibility from 1.5 to 1.6 #1263 (jiapei100)
- opj_decompress: fix double-free on input directory with mix of valid and invalid images #1262 (rouault)
- openjp2: Plug image leak when failing to allocate codestream index. #1260 (sebras)
- openjp2: Plug memory leak when setting data as TLS fails. #1258 (sebras)
- openjp2: Error out if failing to create Tier 1 handle. #1256 (sebras)
- Testing for invalid values of width, height, numcomps #1254 (szukw000)
- Single-threaded performance improvements in forward DWT for 5-3 and 9-7 (and other improvements) #1253 (rouault)
- Add support for multithreading in encoder #1248 (rouault)
- Add support for generation of PLT markers in encoder #1246 (rouault)
- Fix warnings about signed/unsigned casts in pi.c #1244 (rouault)
- opj_decompress: add sanity checks to avoid segfault in case of decoding

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error #1240 (rouault)
- ignore wrong icc #1236 (szukw000)
- Implement writing of IMF profiles #1235 (rouault)
- tests: add alternate checksums for libtiff 4.1 #1234 (rouault)
- opj_tcd_init_tile(): avoid integer overflow #1232 (rouault)
- tests/fuzzers: link fuzz binaries using $LIB_FUZZING_ENGINE. #1230 (Dor1s)
- opj_j2k_update_image_dimensions(): reject images whose coordinates are beyond INT_MAX (fixes #1228) #1229 (rouault)
- Fix resource leaks #1226 (dodys)
- abi-check.sh: fix false postive ABI error, and display output error log #1218 (rouault)
- pi.c: avoid integer overflow, resulting in later invalid access to memory in opj_t2_decode_packets() #1217 (rouault)
- Add check to validate SGcod/SPcoc/SPcod parameter values. #1211 (sebras)
- Fix buffer overflow reading an image file less than four characters #1196 (robert-ancell)
- compression: emit POC marker when only one single POC is requested (f… #1192 (rouault)
- Fix several potential vulnerabilities #1185 (Young-X)
- openjp2/j2k: Report error if all wanted components are not decoded. #1164 (sebras)

## v2.3.1 (2019-04-02)

Full Changelog

**Closed issues:**

- v2.2.0 regression for decoding images where TNsot == 0 #1120
- Int overflow in jp3d #1162
- Heap buffer overflow in opj_j2k_update_image_data() triggered with Ghostscript #1157
- LINUX install doesn't work when building shared libraries is disabled #1155
- OPENJPEG null ptr dereference in openjpeg-2.3.0/src/bin/jp2/convert.c:2243 #1152
- How to drop certain subbands/layers in DWT #1147
- where is the MQ-Coder ouput stream in t2.c? #1146
- OpenJPEG 2.3 (and 2.2?) multi component image fails to decode with KDU v7.10 #1132
- Missing checks for header_info.height and header_info.width in function pnmtoimage in src/bin/jpwl/convert.c, which can lead to heap buffer overflow #1126
- Assertion Failure in jp2.c #1125

- Division-by-zero vulnerabilities in the function pi_next_pcrl, pi_next_cprl and pi_next_rpcl in src/lib/openjp3d/pi.c #1123
- Precinct switch (-c) doesn't right-shift last record to remaining resolution levels #1117
- Sample: encode J2K a data using streams??? #1114
- HIGH THROUGHPUT JPEG 2000 (HTJ2K) #1112
- How to build openjpeg for arm linux? #1108
- crash #1106
- JP2000 returning OPJ_CLRSPC_UNKNOWN color space #1103
- Compilation successful but install unsuccessful: Calling executables throws libraries missing error #1102
- fprintf format string requires 1 parameter but only 0 are given #1093
- fprintf format string requires 1 parameter but only 0 are given #1092
- sprintf buffer overflow #1088
- sprintf buffer overflow #1085
- Infinite loop when reading jp2 #1081
- missing format string parameter #1074
- Excessive Iteration in opj_t1_encode_cblks (src/lib/openjp2/t1.c) #1059
- Out-of-bound left shift in opj_j2k_setup_encoder (src/lib/openjp2/j2k.c) #1057
- Encode image on Unsplash #1054
- Integer overflow in opj_t1_encode_cblks (src/lib/openjp2/t1.c) #1053
- Signed Integer Overflow - 68065512 #1048
- Similar vulnerable functions related to CVE-2017-14041 #1044
- [ERROR] COD marker already read. No more than one COD marker per tile. #1043
- failing to install latest version of openjpeg from source #1041
- Trouble compressing large raw image #1032
- Download and installed code from 2.3 archive. Installing 2.2? #1030
- missing fclose #1029
- NULL Pointer Access in function imagetopnm of convert.c(jp2):1289 #860
- NULL Pointer Access in function imagetopnm of convert.c:2226(jp2) #859
- Heap Buffer Overflow in function imagetotga of convert.c(jp2):942 #858

**Merged pull requests:**

- abi-check.sh: fix broken download URL #1188 (rouault)
- opj_t1_encode_cblks: fix UBSAN signed integer overflow #1187 (rouault)
- convertbmp: detect invalid file dimensions early (CVE-2018-6616) #1172 (hlef)
- color_apply_icc_profile: avoid potential heap buffer overflow #1170 (rouault)
- Fix multiple potential vulnerabilities and bugs #1168 (Young-X)
- Fix several memory and resource leaks #1163 (nforro)
- Fix some potential overflow issues #1161 (stweil)
- jp3d/jpwl convert: fix write stack buffer overflow #1160 (hlef)
- Int overflow fixed #1159 (ichlubna)

- Update knownfailures- files given current configurations #1149 (rouault)
- CVE-2018-5785: fix issues with zero bitmasks #1148 (hlef)
- openjp2/jp2: Fix two format strings #1143 (stweil)
- Changes in pnmtoimage if image data are missing #1141 (szukw000)
- Relative path to header files is hardcoded in OpenJPEGConfig.cmake.in file #1140 (bukatlib)
- Cast on uint ceildiv #1136 (reverson)
- Add -DBUILD_PKGCONFIG_FILES to install instructions #1133 (robe2)
- Fix some typos in code comments and documentation #1128 (stweil)
- Fix regression in reading files with TNsot == 0 (refs #1120) #1121 (rouault)
- Use local type declaration for POSIX standard type only for MS compiler #1119 (stweil)
- Fix Mac builds #1104 (rouault)
- jp3d: Replace sprintf() by snprintf() in volumetobin() #1101 (kbabioch)
- opj_mj2_extract: Rename output_location to output_prefix #1096 (kbabioch)
- mj2: Add missing variable to format string in fprintf() invocation in meta_out.c #1094 (kbabioch)
- Convert files to UTF-8 encoding #1090 (stweil)
- fix unchecked integer multiplication overflow #1080 (setharnold)
- Fixed typos #1062 (radarhere)
- Note that seek uses SEEK_SET behavior. #1055 (ideasman42)
- Some Doxygen tags are removed #1050 (szukw000)
- Fix resource leak (CID 179466) #1047 (stweil)
- Changed cmake version test to allow for cmake 2.8.11.x #1042 (radarhere)
- Add missing fclose() statement in error condition. #1037 (gfiumara)

## v2.3.0 (2017-10-04)

Full Changelog

**Implemented enhancements:**

- Sub-tile decoding: only decode precincts and codeblocks that intersect the window specified in opj_set_decode_area() #990 (rouault)
- Sub-tile decoding: only apply IDWT on areas that participate to the window of interest #1001 (rouault)
- Sub-tile decoding: memory use reduction and perf improvements #1010 (rouault)
- Add capability to decode only a subset of all components of an image. #1022 (rouault)

**Fixed bugs:**

- Setting x offset of decode region to -1 causes opj_decompress to go into infinite loop #736

- Problem decoding multiple tiles with get_decoded_tile when cmap/pclr/cdef boxes are present in jp2 file #484
- set reduce_factor_may_fail #474
- opj_compress.exe, command line parser, infinite loop #469
- Various memory access issues found via fuzzing #448
- Multiple warnings when building OpenJPEG (trunk) #442
- Bulk fuzz-testing report #427
- remove all printf from openjpeg / use proper function pointer for logging #371
- minor changes, clean-up #349
- image->numcomps > 4 #333
- Improve support for region of interest #39
- Public function to tell kernel type used (5x3 vs 9x7) #3
- elf binary in source package ? #1026
- opj_cio_open #1025
- Building with Visual Studio 2015 #1023
- tcd.cpp>:1617:33: error: assigning to 'OPJ_INT32 *' (aka 'int *') from incompatible type 'void *' #1021
- j2k.cpp > comparison of address of 'p_j2k->m_cp.tcps[0].m_data' not equal to a null pointer is always true #1020
- Openjpeg 2.2.0 always build shared library even though -DBUILD_SHARED_LIBS:bool=off #1019
- missing fclose #1018
- Use opj_image_data_free instead of opj_free for image->comps[].data #1014
- malloc poison on some compilers - cross compiling #1013
- Add OPJ_VERSION_MAJOR, OPJ_VERSION_MINOR, OPJ_VERSION_MICRO macros in openjpeg.h #1011
- Encode: do not perform rate control for single-tile lossless #1009
- opj_set_decoded_resolution_factor(): bad interaction with opj_set_decode_area() and/or opj_decode() #1006
- memory allocation failure with .pgx file #999
- Unable to fuzz with raw image as input #998
- stack-based buffer overflow write in pgxtoimage (/convert.c) #997
- freeze with a crafted bmp #996
- invalid memory write in tgatoimage (convert.c) #995
- static build on Windows fails #994
- another heap-based buffer overflow in opj_t2_encode_packet (t2.c) #993
- heap-based buffer overflow in opj_t2_encode_packet (t2.c) #992
- heap-based buffer overflow in opj_write_bytes_LE (cio.c) (unfixed #985) #991
- heap overflow in opj_compress #988
- heap overflow in opj_decompress #987
- heap-based buffer overflow in opj_bio_byteout (bio.c) #986
- heap-based buffer overflow in opj_write_bytes_LE (cio.c) #985
- memory allocation failure in opj_aligned_alloc_n (opj_malloc.c) #983

- heap-base buffer overflow in opj_mqc_flush (mqc.c) #982
- Decode fails for JP2s with ICC profile #981
- Unit tests failing on Ubuntu 17.04 #916
- Encoder crashes on small images #901
- openjpeg-1.5.3 fails to compile #830
- opj_compress crops image (win) or creates a jp2 which cannot be decompressed (lin) #716
- -d flag is silently ignored when decoding a single tile #693
- transition away from dev-utils #628
- update instructions to build with Visual Studio and 64-Bit Visual C++ Toolset. #1028 (quangnh89)
- Add missing newline at end of file #1024 (stweil)
- merge master into coverity_scan to update coverity results #1008 (detonin)
- Use more const qualifiers #984 (stweil)
- Changes in converttif.c for PPC64 #980 (szukw000)

## v2.2.0 (2017-08-10)

Full Changelog

**Implemented enhancements:**

- Memory consumption reduction at decoding side #968 (rouault)
- T1 & DWT multithreading decoding optimizations #786 (rouault)
- Tier1 decoder speed optimizations #783 (rouault)
- Inverse DWT 5x3: lift implementation / SSE accelerated version #953
- install static libraries #969 (jeroen)
- IDWT 5x3 single-pass lifting and SSE2/AVX2 implementation #957 (rouault)
- build both shared and static library #954 (jeroen)
- T1 flag optimizations (#172) #945 (rouault)
- CMake: add stronger warnings for openjp2 lib/bin by default, and error out on declaration-after-statement #936 (rouault)
- Quiet mode for opj_decompress via -quiet long parameter. #928 (RussellMcOrmond)
- Implement predictive termination check #800 (rouault)

**Fixed bugs:**

- Several issues spotted by Google OSS Fuzz - see here
- Missing fclose #976
- Heap buffer overflow read in openjpeg imagetopnm #970
- opj_decompress opj_j2k_update_image_data() Segment falut #948
- Generic Crash in 1.5.0 #941
- Segmentation Faults #940
- Assertions thrown #939
- Floating Point Errors #938
- Division by zero crash #937

- malformed jp2 can cause heap-buffer-overflow #909
- NULL dereference can cause by malformed file #908
- Out of bound read in opj_j2k_add_mct #907
- Check bpno_plus_one in opj_t1_decode_cblk #903
- Undefined-shift in opj_j2k_read_siz #902
- opj_compress v2.1.2 can create images opj_decompress cannot read #891
- Improper usage of opj_int_ceildiv can cause overflows #889
- Undefined shift in opj_get_all_encoding_parameters #885
- Denial of service (crash) due to use-after-free when decoding an illegal JPEG2000 image file v2.1.2 (2017-04 #880
- Denial of service (crash) when decoding an illegal JPEG2000 image file v2.1.2 (2017-03) #879
- bug png 2 j2k #868
- Inconsistent compression using cinema settings on folder of non-compliant image #864
- Openjpeg-2.1.2 Heap Buffer Overflow Vulnerability due to Insufficient check #862
- Heap Buffer Overflow in function pnmtoimage of convert.c #861
- CVE-2016-9112 FPE(Floating Point Exception) in lib/openjp2/pi.c:523 #855
- CVE-2016-5139, CVE-2016-5152, CVE-2016-5158, CVE-2016-5159 #854
- Undefined Reference error #853
- opj_compress with lossy compression results in strange pixel values #851
- CVE-2016-1626 and CVE-2016-1628 #850
- Out-of-Bounds Write in opj_mqc_byteout of mqc.c #835
- WARNING in tgt_create tree->numnodes == 0, no tree created. #794
- Potential overflow when precision is larger than 32 #781
- division-by-zero in function opj_pi_next_rpcl of pi.c (line 366) #780
- division-by-zero in function opj_pi_next_rpcl of pi.c (line 363) #779
- division-by-zero in function opj_pi_next_pcrl of pi.c (line 447) #778
- division-by-zero in function opj_pi_next_pcrl of pi.c (line 444) #777
- Encoding the following file with 32x32 tiling produces jp2 image with artifact #737
- division-by-zero (SIGFPE) error in opj_pi_next_cprl function (line 526 of pi.c) #732
- division-by-zero (SIGFPE) error in opj_pi_next_cprl function (line 523 of pi.c) #731
- OpenJpeg 2.1 and 1.4 fails to decompress this file correctly #721
- MQ Encode :uninitialized memory access when first pass does not output any bytes #709
- Out-of-bounds read in opj_j2k_update_image_data and opj_tgt_reset function #704
- Remove opj_aligned_malloc / opj_aligned_realloc / opj_aligned_free? #689
- There is an issue with rendering some type of jpeg file. Please ref the link. #672

- Null Dereference in tcd_malloc_decode_tile #657
- ETS-C1P0-p0_12.j2k-compare2ref & NR-C1P0-p0_12.j2k-compare2base failing under windows #655
- Memory leak #631
- Test 481 reports error in valgrind memcheck #612
- reserved identifier violation #587
- Buffer overflow when compressing some 16 bits images of the test suite #539
- Heap-buffer-overflow in opj_dwt_decode_1 #480
- Automated fuzz testing #468
- Expected to find EPH marker #425
- read: segment too long (6182) with max (35872) for codeblock 0 (p=19, b=2, r=5, c=1) #284
- building 64bit version has lots of warnings #244
- Wrong encoding of small tiles with high level number #239
- Errors raised in pi.c by VS11 analyzer #190
- Undocumented optimization found in v2 branch of openjpeg #183
- T1 optimisations jpeg2000 #172
- Remove OPJ_NOSANITIZE in opj_bio_read() and opj_bio_write() (#761) #955 (rouault)
- Fix bypass pterm termall and lossless decomposition issue (#891, #892) #949 (rouault)
- Escape quotes to ensure README renders on GitHub correctly #914 (alexwlchan)
- Remove spurious .R macros from manpages #899 (jwilk)
- Remove warnings related to empty tag-trees. #893 (rouault)

**Maintenance-related tasks:**

- Submit OpenJPEG to oss-fuzz #965
- Updates for Doxygen to suppress warnings #849
- Remove useless knownfailures (since LAZY encoding is fixed) #964 (rouault)
- Enable AVX2 at runtime on Travis-CI and AppVeyor #963 (rouault)
- Tests: test opj_compress in VSC mode (related to #172) #935 (rouault)
- Reformat: apply reformattin on .h files (#128) #926 (rouault)
- Add mechanisms to reformat and check code style, and reformat whole codebase (#128) #919 (rouault)
- Add profiling of CPU and memory usage (#912) #918 (rouault)
- Add performance benchmarking scripts #917 (rouault)
- Fix retrieval of jpylyzer in AppVeyor #915 (rouault)

## v2.1.2 (2016-09-28)

Full Changelog

**Closed issues:**

- null ptr dereference in convert.c:1331 #843
- Out-of-Bounds Read in function bmp24toimage of convertbmp.c #833
- Disable automatic compilation of t1_generate_luts in CMakeLists.txt #831
- CVE-2016-7163 Integer overflow in opj_pi_create_decode #826
- Security Advisory for OpenJPEG #810
- Add dashboard with static lib #804
- hidden visibility for the static library / building with -DOPJ_STATIC against shared lib #802
- Optimization when building library from source #799
- unsigned int16 on Solaris 11.2/sparc #796
- appveyor #793
- FFMpeg will not link to 2.1.1 release built as shared library #766
- API change since v2: opj_event_mgr_t not available #754
- openjpeg.h needs dependencies #673
- "master" does not build on ubuntu #658
- Package 'openjp2', required by 'libopenjpip', not found #594

**Merged pull requests:**

- Fix PNM file reading #847 (mayeut)
- Fix some issues reported by Coverity Scan #846 (stweil)
- Fix potential out-of-bounds read (coverity) #844 (stweil)
- Remove TODO for overflow check #842 (mayeut)
- Add overflow checks for opj_aligned_malloc #841 (mayeut)
- Flags in T1 shall be unsigned #840 (mayeut)
- Fix some warnings #838 (mayeut)
- Fix issue 833. #834 (trylab)
- Add overflow checks for opj_aligned_malloc #832 (mayeut)
- Add test for issue 820 #829 (mayeut)
- Add test for issue 826 #827 (mayeut)
- Fix coverity 113065 (CWE-484) #824 (mayeut)
- Add sanity check for tile coordinates #823 (mayeut)
- Add test for PR 818 #822 (mayeut)
- Update to libpng 1.6.25 #821 (mayeut)
- CVE-2016-8332: fix incrementing of "l_tcp->m_nb_mcc_records" in opj_j2k_read_mcc #820 (mayeut)
- Add overflow check in opj_tcd_init_tile #819 (mayeut)
- Fix leak & invalid behavior of opj_jp2_read_ihdr #818 (mayeut)
- Add overflow check in opj_j2k_update_image_data #817 (mayeut)
- Change 'restrict' define to 'OPJ_RESTRICT' #816 (mayeut)
- Switch to clang 3.8 #814 (mayeut)
- Fix an integer overflow issue #809 (trylab)
- Update to lcms 2.8 #808 (mayeut)
- Update to libpng 1.6.24 #807 (mayeut)
- Reenable clang-3.9 build on travis #806 (mayeut)
- Bit fields type #805 (smuehlst)

- Add compilation test for standalone inclusion of openjpeg.h #798 (mayeut)
- jpwl: Remove non-portable data type u_int16_t (fix issue #796) #797 (stweil)
- Fix dependency for pkg-config (issue #594) #795 (stweil)
- Add .gitignore #787 (stweil)

## v2.1.1 (2016-07-05)

Full Changelog

### Implemented enhancements:

- opj_malloc replacement #625
- backport "-p" and "-force-rgb" options in 1.5 #606
- Use travis-ci matrix build #581
- Add Coverity Scan analysis #580
- Unnecessary rate distortion calculations #479
- Add images from various security issues to test suite #415
- Coding speed for 9/7 on 32bits platforms (x86/ARM) can be improved with a quick fix #220

### Fixed bugs:

- Out-of-Bounds Access in function opj_tgt_reset of tgt.c #775
- Heap Buffer Overflow in function color_cmyk_to_rgb of color.c #774
- division-by-zero (SIGFPE) error in opj_tcd_init_tile function (line 730 of tcd.c) #733
- Out-Of-Bounds Read in sycc422_to_rgb function #726
- Heap Corruption in opj_free function #725
- Out-Of-Bounds Read in opj_tcd_free_tile function #724
- Cannot handle box of undefined size #653
- Compilation fails without platform-supplied aligned malloc #642
- HP compiler warns about redeclaration of static function #640
- Implementation-defined behavior of malloc causes different behavior on Linux and AIX #635
- Build on AIX fails because "opj_includes.h" is included after system headers #633
- Compiling with SSE2 on Linux 32-bit causes crashes in OpenJPEG #624
- Build on AIX fails because of "restrict" pointers #620
- bug in new tif conversion code #609
- bin/jp2/convert.c line 1085 Resource leak #607
- bin/jp2/convert.c memory leak #601
- Resource leak in opj_j2k_create_cstr_index in case of failure #599
- Resource leak in opj_j2k_encode in case of failure #598
- Resource leak in opj_j2k_decode_one_tile in case of failure #597
- Resource Leak #573
- opj_compress fails to compress lossless on gcc/x86 (-m32) #571
- Use-after-free in opj_j2k_write_mco #563

- openjpeg-master-2015-07-30 failed to compile on LINUX #556
- PNG images are always read as RGB(A) images #536
- g4_colr.j2c not handled properly #532
- Bigendian: opj_compress + opj_decompress fails #518
- Suspicious code in j2k.c #517
- Decode times almost double(!!) on Visual Studio 2013, 2015 #505
- opj_data/input/nonregression/issue226.j2k #500
- opj_setup_encoder always returns true #497
- Double free in j2k_read_ppm_v3 parsing ((presumably invalid) image. #496
- Invalid write in opj_j2k_update_image_data #495
- Undefined printf format specifier %ud used in code #494
- Potential double free on malloc failure in opj_j2k_copy_default_tcp_and_create_tcp() #492
- Do not link with -ffast-math #488
- Heap-buffer-overflow in opj_dwt_decode #486
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- Null pointer dereferencing #382
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- how to compress a yuv420 raw data using opj_compress #357
- Some memory allocation are not checked #355
- Static library symbols shall be marked as hidden #354
- opj_compress rejects valid bmp files #353
- opj_compress crashes when number of resolutions is set to zero #352
- Compilation error under Visual Studio 2003 #351
- opj_compress description example error [Low priority] #350
- opj_write_bytes_BE is wrong in trunk #345
- PART1ONLY option in release.sh doesn't work properly #332
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- reopen/fix issue 165 #280
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- Run Coverity on trunk #270
- NR-ENC-random-issue-0005.tif-12-encode #259
- Use new add_test signature to handle cross compilation #258
- Loss decoding quality in 2.0.0 #254
- Decompress that worked in 1.5.1 fails in 2.0 #252
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- patch for openjpeg-trunk-r2347 and BIG_ENDIAN #242
- CMAP: MTYP == 0 (direct use) not handled properly #235

- Black Pixel #233
- opj_compress runtime error after fresh Linux install due to apparent failure to execute ldconfig #219
- openjp2 debug works, release build does not #217
- openjpeg-branch15-r2299 and openjpeg-trunk-r2299 fail to decode a JP2 file #212
- openjpeg-trunk issue with Win7 #201
- undefined reference to 'opj_version' #200
- In tgt.c we used fprintf not the openjpeg message reporter #184
- Windows binaries not working under WinXP #176
- add ability to use intel ipp (performance primitive) within OpenJPEG #164
- Migration guide v2 #160
- Cannot decompress JPEG2000Aware3.18.7.3Win32_kdutranscode6.3.1.j2k #158
- Cannot decompress JPEG2000Aware3.18.7.3Win32.j2k #157
- openjpeg@googlegroups.com has disappeared #153
- OpenJPEG 1.5.0 crashes on a ridiculously big file. . . #151
- opj_image vs free #146
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- Problem with second layer of a 2 layer coded LRCP (with precincts) #135
- version 1.4 crashes when opening PDF file with JPEG2000 images #133
- Setup a win64 dashboard #132
- J2KP4files/codestreams_profile0/p0_13.j2k question jpeg2000 #131
- Out of memory: Kill process 11204 (opj_server) score 917 or sacrifice child #123
- FILE* in opj API is unsafe #120
- third-party lib order #119
- openjpeg-1.5.0-Darwin-powerpc.dmg is huge ! #113
- misleading info in JP2 box lead to wrong number of components #110
- Image_to_j2k says that j2k files is generated but no file is on the HDD #109
- Error in openjpegV1.4 on compiling image_to_j2k: crash on reading bmp file #108
- Update to abi-compliance-checker 1.96 #106
- Decode error on the attached JPEG. . . works in KDU and with JASPER. . . please help! #101
- Mac binaries v1.4 is broken #95
- jp2_read_boxhdr() has size bug in version 1 #92
- Support for Java JAI Imageio #90
- encoding test failing #86
- source archive on demand #85
- CMakeLists.txt and Makefile.am for JPIP are buggy #84
- pclr-cmap-cdef #82
- Error when compiling openjpeg_v1_4_sources_r697 #79
- J2K codec issue on Windows Mobile #77

- image_to_j2k.exe crashes on large .bmp file #75
- fatal error C1900 building the project on windows #65
- same option but different size #54
- Missing openjpegConfigure.h #38
- Not an issue in openjpeg, but ... #37
- OpenJPEG-1.3.0 pclr, cmap and cdef #27
- realloc maybe too big (t2.c) #26
- libopenjpeg/opj_malloc.h breaks on FreeBSD/Darwin systems #20
- image_to_j2k not outputting to win32 console properly #18
- [OpenJPEG] OpenJPEG_v13: tiled image part 2 #17
- JP2 Color Space modification by Matteo Italia #13
- Patch submission ( exotic video formats, and a few things ) #12
- 16 bits lossy compression #10
- pnm file formats not accepting bitdepth greater than 8 bpp #8
- Heap corruption in j2k encoder #5
- JPWL crash in marker reallocation(+patch), segfault while decoding image with main header protection #4
- a couple of small errors in libopenjpeg detected by coverity #1

**Closed issues:**

- Shared library build broken on ubuntu #728
- opj_includes.h shouldn't define \_\_attribute\_\_ #727
- Possible website problems due to Jekyll upgrade #713
- Stable Release? #712
- Meta Issue : try to fix some of these critical bugs before thinking about optimizing the library #710
- Tiled encoding broken for images with non power of 2 dimensions #702
- install_name (still) not set on OS X #700
- Add section in wiki describing where one can get test images #699
- Make EvenManager into singleton #698
- Remove old branches from repo #696
- MQ Coder encode: Conditional jump or move depends on uninitialised value(s) #695
- Can we add these files to our test suite ? #688
- -t and -d command line flags for decode are not documented on OpenJPEG website #685
- Decoding at the precinct level #676
- Support unscaled 10 bit data for 2K cinema @ 48 FPS, as per DCI standard #671
- Use parallel jobs in ctest #664
- [Security]Multiple Memory error #663
- lossy encoding a 16 bit TIF file : severe artifacts in decompressed image #660
- opj_compress and opj_decompress : get_next_file method uses hardcoded unix path separator #630
- Uninitialized variable #629

- Use of enum variable for bit flags prevents compilation as C++ source #619
- Serious problem with quantization during lossy encoding #615
- Decompression does not work with sequential data source #613
- potential overflow in opj_tcd_tile_t #605
- Logical condition #596
- file9.jp2 does not dump correctly on 1.5 #595
- opj_compress man page is missing documentation of -jpip option #593
- opj_compress fails to compress lossless on gcc/x86 (-m32) in 1.5 branch #591
- Example: opj_compress -i image.j2k -o image.pgm #577
- Mismatching delete #575
- Compilation fails on Win7 #546
- NR-JP2-file5.jp2-compare2base fails with third party libcms #540
- CTest spits out an error at the end of the test run #516
- opj_uint_adds() is questionable #515
- Might consider renaming this method: #491
- opj_compress run twice gives different fiile sizes for same file #490
- Android Support #483
- Add SSE2/SSE41 implementations for mct.c #451
- Reduce encoder code block memory usage for non 64x64 code block sizes #444
- valgrind "Uninitialized Memory Read" & "Uninitialized Memory Conditional" found #438
- No way to debug opj_tcd_init_encode_tile or opj_tcd_init_decode_tile #433
- Add option to call dsymutil on built binaries #409
- Allow opj_compress and opj_decompress to read/write images over stdin/stdout #379
- reduce memory significantly for single tile RGB encoding #375
- Switch code repo to github and start using pull request workflow #373
- This is a BigTIFF file. This format not supported #125
- Add a test suite to check the convert functions #99
- Add build config to the dashboard to verify the autotools build #88

**Merged pull requests:**

- Correct abi-check.sh for PR #791 (mayeut)
- Update tcd.c #790 (maddin200)
- Update lcms2 #773 (mayeut)
- Use lowercase for cmake commands consistently #769 (julienmalik)
- Ignore clang's summary warning #768 (julienmalik)
- Fix UBSan gcc warning for first arg to memset non null #767 (julienmalik)
- Update to libtiff-4.0.6 #764 (mayeut)
- Fix warnings #763 (mayeut)
- Check SSIZ is valid in opj_j2k_read_siz #762 (mayeut)
- Fix unsigned int overflow reported by UBSan #761 (mayeut)

- Fix unsigned int overflow reported by UBSan #759 (mayeut)
- Fix negative shift left reported by UBSan #758 (mayeut)
- Fix negative shift left reported by UBSan #757 (mayeut)
- Add clang 3.9 build to Travis matrix #753 (julienmalik)
- Fix implicit floating bool conversion #752 (julienmalik)
- Do not define ___attribute___ in opj_includes.h #751 (mayeut)
- Allow to read/write 3/5/7/9/11/13/15 bpp TIF files #750 (mayeut)
- Fix heap-buffer-overflow in color_esycc_to_rgb #748 (mayeut)
- update libpng to from 1.6.17 to 1.6.21 #747 (julienmalik)
- Update cmake & jpylyzer for travis builds #746 (julienmalik)
- Fix Out-Of-Bounds Read in sycc42x_to_rgb function #745 (mayeut)
- cppcheck fix for openjp2 #740 (julienmalik)
- Fix uninitialized variable reported by cppcheck #735 (julienmalik)
- Remove dead code in opj_dump #734 (julienmalik)
- issue #695 MQ Encode: ensure that bp pointer never points to uninitialized memory #708 (boxerab)
- Fix issue 135 #706 (mayeut)
- Fix implementation of opj_calloc #705 (stweil)
- [git/2.1 regression] Fix opj_write_tile() failure when numresolutions=1 #690 (rouault)
- Fix fatal crash on 64 bit Linux #687 (stweil)
- [libtiff] Add missing include statement for ssize_t #686 (mayeut)
- Fix duplicate article in comments #684 (stweil)
- Fix grammar in comment #679 (stweil)
- Remove whitespace and CR at line endings #678 (stweil)
- Fix typos #665 (jwilk)
- Add missing source for the JPIP library and executables (issue #658) #659 (stweil)
- Fix undefined size jp2 box handling #654 (mayeut)
- opj_decompress: Update error message #651 (stweil)
- Fix support of posix_memalloc for Linux #648 (stweil)
- Fix typo in comments #647 (stweil)
- Avoid pointer arithmetic with (void *) pointers #644 (smuehlst)
- Fix HP compiler warning about redeclaration of function (#640) #641 (smuehlst)
- Fix format strings and unneeded assignment #638 (stweil)
- Fix repository for JPEG2000 test data #637 (stweil)
- Update allocation functions #636 (mayeut)
- Fix OpenJPEG GitHub issue #633. #634 (smuehlst)
- travis-ci: Include add ons in matrix #632 (mayeut)
- Add Appveyor #627 (mayeut)
- Use Travis-ci to run ABI check #626 (mayeut)
- Fix warnings for C++ #623 (stweil)
- Fixed problem that C++ compilation failed because of enum variable. #622 (smuehlst)
- Added missing casts for return values of opj_malloc()/opj_calloc(). #618

(smuehlst)
- Add check for seek support before trying TPsot==TNsot workaround #617 (mayeut)
- Fix some typos found by codespell #610 (stweil)
- Correct leak in color_cielab_to_rgb #590 (mayeut)
- Add Travis-ci build matrix #584 (mayeut)
- Correct lossless issue on linux x86 #579 (mayeut)
- Travis-ci update #578 (mayeut)
- Correct CMake version requirements #572 (mayeut)
- Add tests for CMYK/esYCC/CIELab #567 (mayeut)
- Add support for CIELab, EYCC and CMYK #559 (szukw000)
- Remove printf/fprintf to stdout/stderr throughout openjp2 lib #558 (mayeut)
- better -ffast-math handling #555 (rdieter)
- Add jpylyzer tests for JP2 compression #552 (mayeut)
- Add COC/QCC in main header when needed #551 (mayeut)
- Use ___emul under msvc x86 for fast 64 = 32 * 32 #550 (mayeut)
- Update convert for PNG output #549 (mayeut)
- Remove some warnings when building #548 (mayeut)
- Switch to libpng-1.6.17 #547 (mayeut)
- Add some missing static keywords #545 (mayeut)
- Switch to libcms2 mm2/Little-CMS@0e8234e090d6aab33f90e2eb0296f30aa0705e57 #544 (mayeut)
- Prevent overflow when coding 16 bits images #543 (mayeut)
- Switch to libcms2-2.6 #542 (mayeut)
- Update PNG support #538 (mayeut)
- Various Minor fixes #537 (mayeut)
- Update TIFF conversion to support more bit depth. #535 (mayeut)
- Add checks for odd looking cmap & for cmap outside jp2h box #534 (mayeut)
- Refactor opj_j2k_read_ppm & opj_j2k_read_ppt #533 (mayeut)
- Add option to force component splitting in imagetopnm #531 (mayeut)
- fix Suspicious code in j2k.c #517 #529 (renevanderark)
- Update zlib to version 1.2.8 #528 (mayeut)
- Fix opj_write_bytes_BE (#518) #521 (manisandro)
- Correctly decode files with incorrect tile-part header fields (TPsot==TNsot) #514 (mayeut)
- Fixed typos #510 (radarhere)
- Formatted the readme file #507 (htmfilho)

## version.2.1 (2014-04-29)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.2.0.1 (2014-04-22)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.5.2 (2014-03-28)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.2.0 (2014-03-28)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.5.1 (2012-09-13)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.5 (2012-02-07)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.3 (2011-07-03)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.4 (2011-07-03)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.2 (2007-06-04)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

## version.1.1 (2007-01-31)

List of fixed issues and enhancements unavailable, see NEWS or Full Changelog

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